

Development of a Traveltime Prediction Equation for Streams in Arkansas: Usgs Scientific Investigations Report 2004-5064



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Reviews

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DEVELOPMENT OF A TRAVEFTIME PREDICTION EQUATION FOR STREAMS IN ARKANSAS: USGS SCIENTIFIC INVESTIGATIONS REPORT 2004-5064

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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. During 1971 and 1981 and 2001 and 2003, traveftime measurements were made at 33 sample sites on 18 streams throughout northern and western Arkansas using fluorescent dye. Most measurements were made during steady-state base-flow conditions with the exception of three measurements made during near steady-state medium-flow conditions (for the study described in this report, medium-flow is approximately 100-150 percent of the mean monthly streamflow during the month the dye trace was conducted). These traveftime data were compared to the U. S. Geological Surveys national traveftime prediction equation and used to develop a specific traveftime prediction equation for Arkansas streams. In general, the national traveftime prediction equation yielded results that over-predicted the velocity of the streams for 29 of the 33 sites measured. The standard error for the national traveftime prediction equation was 105 percent. The coefficient of determination was 0. 78. The Arkansas prediction equation developed from a regression analysis of dye-tracing results was a significant improvement over the national prediction equation. This regression analysis yielded a standard error of 46 percent and a coefficient of determination of 0. 74. The predicted velocities using this equation compared better to measured velocities. Using the variables in a regression analysis, the Arkansas prediction equation derived for the peak velocity in feet per second was: (Actual Equation Shown in report) In addition to knowing when the peak concentration will arrive at a site, it is of great interest to know when the leading edge of a contaminant plume will arrive. The traveftime of the leading edge of a contaminant plume indicates when a potential problem might first develop and also defines the overall shape of the concentration response function. Previous USGS reports have shown...

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