

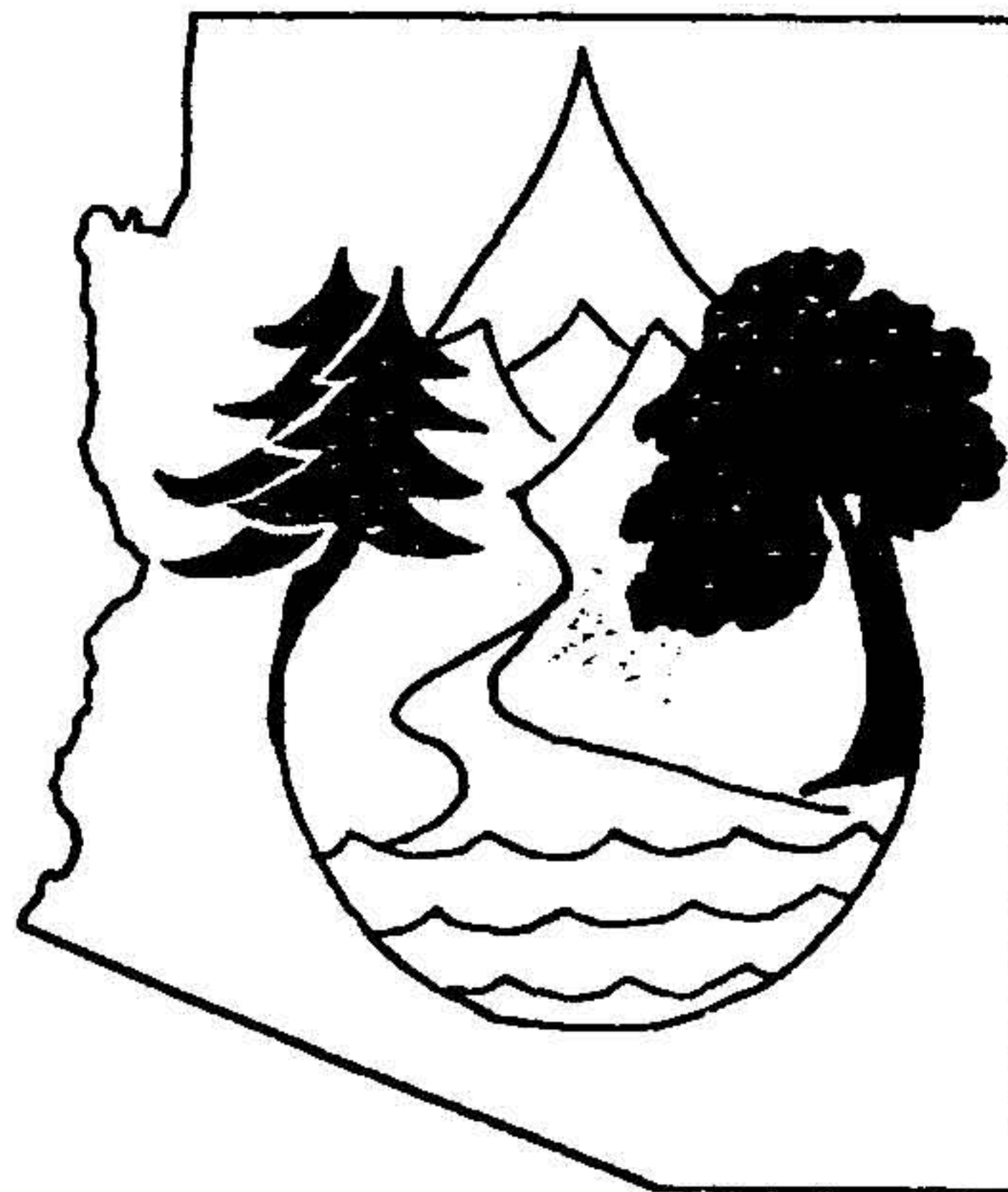
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**EIGHTH ANNUAL MEETING
OF THE
ARIZONA RIPARIAN COUNCIL**

Phoenix Zoo
May 6-7, 1994

**RIPARIAN CONSERVATION
IN THE 1990'S**



**PROGRAM AND ABSTRACTS
1994**

RINNE, J., USDA Forest Service, Rocky Mountain Station Southwest Forest Science Complex, 2500 S. Pineknoll Drive, Flagstaff, AZ 86001. *Fishes and fines in forest streams: West Fork Allotment, Apache-Sitgreaves National Forest, Arizona.*

Fine sediment and fishes were sampled during 1993 on Centerfire and Boggy creeks, Apache-Sitgreaves National Forest, Arizona. Analyses of preliminary data indicate both substantial amounts and linear patterns of fine sediments (< 2 mm) in both streams. Numbers and biomass of the native Apache trout (*Oncorhynchus apache*) and speckled dace (*Rhinichthys osculus*) vary linearly and suggest inverse and direct relations, respectively, to sediment levels. Relevance of these data to that from other streams on the Forest and Fort Apache Indian Reservation and to proposed laboratory research on sediment effects on Apache trout spawning success will be discussed.