Journal of the Arkansas Academy of Science

Volume 45

Article 38

1991

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Recommended Citation

Culwell, Donald E. (1991) "Vascular Flora of Perry County, Arkansas; A Progress Report," *Journal of the Arkansas Academy of Science*: Vol. 45, Article 38. Available at: http://scholarworks.uark.edu/jaas/vol45/iss1/38

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The CADR numbers should be interpreted with caution. They are specific to the test acrosol and to the test chamber and air handling system. The CADR numbers for different filters can only be compared when all other factors in the determination of the numbers are the same. High CADR numbers are given by high filtration efficiencies. However, a maximum CADR exists which depends on the volumetric air flow rate and the mixing factor for the house. Therefore, continuing to increase the filtration efficiency will add little in terms of improved air quality but will increase energy consumption. Additional work in this study will be aimed at determining optimum filtration efficiency when both air quality and energy consumption are considered.

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THE VASCULAR FLORA OF PERRY COUNTY, ARKANSAS; A PROGRESS REPORT

Located in western, central Arkansas in the Ouachita Mountain Division, Perry County lies in the center of the Fourche Mountain Subdivision immediately below the Arkansas River Valley Subdivision of the Interior Highlands. The vascular flora of this county is poorly known; Perry County ranks at 56 of the 75 Arkansas counties for the number of known taxa (Smith, 1988. An atlas and annotated list of the vascular plants of Arkansas. Kinko's, 653 West Dickson Street, Fayetteville, AR. 72701). Community types represented in the County range from hydric sites (cypress swamps; ponds, streams and river banks) to bottomland hardwood forests, to pine forests, to upland hardwood forests, cedar glades and bluffs; included are disturbed sites ranging from hydric to xeric.

Numerous collection trips concentrated over the last year during the spring, summer and fall growing seasons have been made to sites representative of these community types. Currently 134 county records of vascular species have been identified. Voucher specimens are deposited in the herbaria of UCA and UARK. This current list is published with the Arkansas Native Plant Society as an Occasional Paper and may be obtained from Dr. James H. Peck, Biology Dept., University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204.

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BACTEREMIA ASSOCIATED WITH MORTALITY IN AN ARKANSAS ALLIGATOR

Death from gram-negative septicemia has been reported several times in reptiles. In alligators this has been associated with populations that had been stressed due to changes in the natural or captive environment (Shotts *et al.*, 1972; Gordon *et al.*, 1979). It is believed that the bacteria gain entrance to the blood stream of infected reptiles by natural or surgical wounds (Cooper, 1981). We report a case of death in an adult alligator associated with a septicemia or bacteremia in which the most prominent organism isolated was *Aeromonas hydrophila*. The alligator had been obtained from the wild but had been living isolated away from a natural or translocated population of alligators. The only significant pathology found on postmortem examination was minute hemorrhagic lesions in the gastrointestinal tract, which could have provided the bacteria entrance to the circulatory system.

A large, male alligator was captured on an embankment of a small, impounded lake on a geological elevation of the Mississippi delta known as Crowley's Ridge in East-Central Arkansas (St. Francis Co.) on March 10, 1985. The animal was known to have resided in the area for many years on this uplified region, which is approximately 30 miles from the nearest known alligator population on the St. Francis River. The original territory and time of the alligator's arrival on Crowley's ridge are unknown. The alligator was 305-cm long (snout to tip of tail) and weighed 114-kg. The animal was recently deceased when captured and was immediately transported to the Arkansas State Livestock and Poultry Commission Laboratories in Little Rock for postmortem examination and collection of laboratory samples. The alligator had been seen alive the previous day and its heart muscle was still active when examined, therefore the time elapsed from death to postmortem examination was estimated to be less than12 hours. Aseptic culture specimens (3 samples each) were taken as follows: Aerobic and