



Scientific signals No 1:

Fishing area management programs have to be implemented

Environmental protection in protected areas must be coordinated and harmonized with the Program management of fisheries in the area. We point out the consequences of failure to follow the Program in protected area of exceptional quality "Gorge Gradac." will have serious consequences, as presented in the scientific statement given to the 2010th in Yellowstone in the Wild Trout Symposium X - "Conserving Wild Trout", Proceedings, pp.354

Wild Trout X Symposium – Conserving Wild Trout (2010)

IMPLICATIONS OF STOCKING WITH BROOD FISH TO MANAGEMENT WITH RESIDENT BROWN TROUT STOCK IN THE GRADAC RIVER

Predrag Simonović, Slavica Grujić, and Vera Nikolić

University of Belgrade, Faculty of Biology, Studentski trg 16, 11000 Belgrade, Serbia

The Gradac River (a tributary of the Sava River in the Danube River drainage area of Serbia) supports a reproducing population of brown trout *Salmo trutta* and is managed under catch-and-release fly-fishing-only regulations. Brown trout parr are stocked on occasion when strong spring torrents wash out newly hatched brown trout fry. In spring 2008 and 2009, there were unauthorized stockings of about 100 brood-size (about 1 kg) brown trout in the upper section of the Gradac River. In summer 2009 we sampled the brown trout population in the upper and lower (unstocked) section of the river and compared population statistics to data collected in summer 2003. In the upper stocked section, the age and size at maturation of brown trout increased as revealed by breakpoint values obtained from Piecewise Linear Regression. Brown trout density decreased significantly as did biomass and production after stocking. No changes in population statistics were found in the lower unstocked section. We concluded that stocking these large brood fish had an adverse effect on the resident brown trout.
