



# Naučni signali No 1:

## Programi upravljanja ribarskim područjem se donose da bi se poštovali

Zaštita životne sredine u zaštićenim prirodnim dobrima mora biti uskladjena i harmonizovana sa Programom upravljanja ribarskim područjem koje se u tom zaštićenom dobru nalazi. Ukazujemo na naučne signale posledica nepridržavanja Programa upravljanja ribarskim područjem u zaštićenom Predelu izuzetnih odlika “Klisuri reke Gradac”.

Naučni signali ukazuju na potpunu promenu populacione strukture autohtone linije dunavske potočne pastrmke, a posebno uzrasne strukture, sa nepovratnim onečišćenjem njenog genofonda neovlašćenim uvođenjem matičnih primeraka potočne pastrmke atlantske linije iz ribnjaka O ovome postoji naučno saopštenje dato 2010. godine u Yellowstone-u na 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**

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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.

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