

**PRODUCTIVITY OF MEADOW PLANT COMMUNITIES IN THE SOZH RIVER FLOODPLAIN (GOMEL REGION) AFTER THE CHERNOBYL DISASTER**

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SUMMARY

The objects of research were the most common flood meadows of river Sozh situated in administrative districts bordering Bryansk region of Russia. The main aim of this study was to estimate economic use of natural meadows as well as level of pollution after more than 25 years after the Chernobyl disaster.

We evaluated ecological-floristic classification of grassland ecosystems, analyzed the agrochemical and radiological parameters of soil, determined productivity of meadow grass to assess the modern state of meadow associations. Productivity of meadow ecosystems ranged from 1600 to 4900 kg/ha (1.8 to 4.9 mt/ha) of dry matter. A significant effect of relief elements on the studied parameters have been revealed. The most significant correlation was observed in the sample plots 6, 1, 12, 5, 2 and 4.

Key words: floodplain, grassland ecosystem, specific activity, agrochemical parameters of soil, productivity.