

Dynamics of Carbon Dioxide Emissions from Chernozem Soils under a Forest Shelterbelt and Adjacent Arable Land in the Southern Forest-Steppe

S. S. Sheshnitsan^{a,*}, N. S. Gorbunova^{a,*}, A. M. Bakhtin^a, and Yu. A. Podrezova^a

^a Voronezh State University of Forestry and Technologies, Voronezh, 394087 Russia

^b Voronezh State University, Voronezh, 394006 Russia

*e-mail: sheshnitsan@gmail.com

Received November 19, 2024; revised May 1, 2025; accepted May 13, 2025

Abstract—The aim of this study was to quantitatively assess the dynamics of carbon dioxide emissions from the chernozems of the southern forest-steppe under conditions of different agricultural use in the Kamennaya Steppe: under a long-functioning forest shelterbelt and on adjacent arable lands. The studies were conducted during the 2024 growing season using a closed chamber method. It has been established that the average rate of CO₂ emission was significantly higher in the forest shelterbelt ($2.68 \pm 1.02 \mu\text{mol CO}_2/\text{m}^2 \text{ s}$) than on arable land ($1.83 \pm 1.31 \mu\text{mol CO}_2/\text{m}^2 \text{ s}$), except in June. According to the results of multiple linear regression, in the forest shelterbelt area, temperature, moisture, and their interaction had a significant impact on emissions ($R^2 = 0.750$, $p < 0.0001$), whereas in arable land the statistically significant predictors were temperature and its interaction with moisture ($R^2 = 0.767$, $p < 0.0001$). An assessment of the contribution of heterotrophic and autotrophic respiration showed that in the forest shelterbelt the share of microbial respiration accounted for more than half of the total flow (58.6%). The results allow us to quantitatively characterize the differences in the intensity of carbon dioxide emissions from chernozems under two types of land use within the same agricultural landscape.

Keywords: carbon dioxide emission, agricultural landscape, chernozems, soil moisture, heterotrophic respiration

DOI: 10.1134/S1067413624603397

INTRODUCTION

Carbon dioxide emission from soils is one of the key processes of the global carbon cycle, which has a significant impact on the dynamics of climate change [1]. Recent estimates suggest that soil emissions account for about 15% of the total increase in anthropogenic warming [2], with agriculture accounting for 30–50% of annual greenhouse gas emissions, highlighting the critical role of land management in reducing these emissions [3]. According to model estimates, the total flow of heterotrophic soil respiration on the territory of Russia is estimated at 3.2 PgC per year, which is equivalent to 190 g C m^{-2} per year, and on arable soils in the forest-steppe and steppe zones this value is significantly higher than average, 234–249 g C m⁻² per year [4].

Chernozems of the forest-steppe zone of the East European Plain, which have a high content of organic carbon and biological activity, have been intensively used for agricultural purposes for a long time, increasing the mineralization of organic matter and carbon losses from soils [5]. One of the most significant fac-

tors regulating the emission of carbon dioxide from soils is land use, in particular cultivation and the establishment of forest shelterbelts, which act as buffer zones in the agricultural landscape, changing the microclimate and biogeochemical processes in soils [6]. Despite the well-studied aspects associated with the influence of protective forest plantations on the properties of chernozem soils, the modification of the local soil microclimate, and increased accumulation of organic matter in soils under woody vegetation [7–11], until recently, detailed studies quantifying the effect of forest plantations on carbon dioxide emissions from soils in Russia were lacking; only isolated, fragmentary reports were available [12–14]. The first systematic studies in this direction were conducted by D. G. Zamolodchikov, V.V. Kaganov, and A. S. Mostovaya for soils in the Volga and Don regions [15]. The results of this study showed that the conversion of herbaceous vegetation to woody vegetation leads to increased soil carbon dioxide emissions but is not associated with a decrease in soil carbon stocks.

To date, there have been few studies aimed at obtaining a quantitative assessment of the dynamics of

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