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In 2006, the research of ground mesofauna of Arachnida in a yew-box grove of the Caucasian Natural Biospheric Reserve was carried out. Species of 4 groups are revealed: Opiliones, Scorpiones, Pseudoscorpiones, Aranei. Features of distribution of Arachnida in various types of phytocenoses are marked. The preliminary list of spiders numbering 48 species from 21 families is made. For spiders belonging to *Raveniola pontica* (Spassky), *Dysdera dunini* Deeleman-Reinhold, *Harpactea caucasia* (Kulczyński), *Centromerus minor* Tanasevitch, *Stemonyphantes agnatus* Tanasevitch, *Tenuiphantes mengei* (Kulczyński), *Troglohyphantes charitonovi* Tanasevitch, *Trochosa robusta* (Simon) some features of phenology are considered.