

Cartographic Maintenance of the National report on Forests' status and use in the Russian Federation

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Maps are an integral part of the State's report on the status and use of Russian forests. Guided by modern ideas about the methods of creating maps, thematic maps compiled and placed in the State report on the state of forests and the use of the Russian Federation in 2014. The State report is designed for a broad user audience. Guided by his appointment, spatial representation of generalized quantitative and qualitative characteristics of the country's forests differentiated as possible. Summary data of the state forest register (SFR) at the level of forest management units (forest districts) linked to generalized forested land.

The methods of creating the universal spatial basis with the boundaries of forested land for the territory of the Russian Federation discussed. Polygons of forested lands obtained by converting raster map of forests, located in the public domain and compiled by remote sensing data to vector. Universal spatial base coverage called the term 'base map» in the modern scientific literature on geomatic and web-mapping prepared. Base map (spatial base coverage) used to locate the state forest register data corresponded to cartographic resources published by the international community. Maps computerized manufacturing with unified base-map coverage by ArcGis for Desktop software.

The quantitative and qualitative characteristics of forests and its resource potential and ecological services represented on map's set supplemented the State's report on the forests of the Russian Federation in 2014. The forest resources characteristics and the ecological role of the Russian forests represented on following thematic maps: percentage of forested lands, ecological forest zoning, the dominant tree species, the average age of the stands, the average stock of wood, the average annual increment of wood stock, the average annual increment of timber stock for coniferous and deciduous species groups, forest appraisal index for coniferous and deciduous species groups, annual carbon sequestration in Russian forest biomass.

Maps complement and enrich the analytical assessment due to spatial representation of the quantitative and qualitative characteristics of the Russian forests.