

## Decision algorithm to prioritize fighting forest fires in mass they occur

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*Decision algorithm to prioritize of forest fire- fighting in the event of their mass occurrence.*

*The object of research in this article were forest fires and order of extinguish in the event of their mass occurrence. As a results of work was built decision algorithm to prioritize forest fires- fighting.*

*As a base of the algorithm used:*

- ✓ *Criteria for the assessment of the current fire situation in forests;*
- ✓ *Priority of the order of forest fires-fighting in the event of their mass occurrence;*
- ✓ *The level of forest fire protection depending on the target of their appointment*

*As criteria which characterize the current level of the fire situation in forests used: the number of active fires and their total area, a comprehensive indicator of the degree of fire danger in forests due to weather conditions.*

*The main factors determining the emergency fire situation in forests and measures for its elimination were established.*

*In determining priority of the order of liquidation of fires considered:*

*shape of the ground, remoteness and accessibility of the territory, the presence of forces and fire-fighting equipment, the density of anthropogenic and natural sources of fire, the presence of forces and means of extinguishing fire potential consequences.*

*As the results of the research proposed an algorithm to make informed management decisions of the order of forest fires, depending on the socio-ecological and economic value of forests and their functional purpose.*

**Key words:** *current fire situation in forests, ranking priority extinguishing fires, the level of protection taking into account the special purpose forests*