

Лесопользование в насаждениях, подверженных длительному аэротехногенному воздействию

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Forest management in the plantings subject to prolonged aerotechnogenic impact

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The article presents the results of long-term observations of the effects of industrial pollution on plant communities. The object of observations is the forests of the Bratsk district and the urban forests of Bratsk, which develop under the strong impact of the technogenic press. Bratsk is one of the largest industrial centers in the Angara region, in the territory of which there are two large and powerful industrial enterprises: Bratsk Aluminum Plant and Bratsk Timber Industry Complex. The city has a high level of air pollution and is, therefore, one of the most polluted towns in Russia. The main pollutants, exceeding the established maximum permissible standards by several times, are motor vehicles and impurities of aluminum and pulp and paper production. Data on the condition of coniferous stands on permanent trial plots and the assessment of pollution levels, the degree of degradation of stands is decreasing, which indicates some stabilization of the situation. A set of measures for the use of forests has been developed, technological regimes of thinning, sanitary cuttings and reforestation activities in stands exposed to technogenic impacts are given.

Keywords: forest management; logging; industrial impact; forest phytocenosis.

(10 %),
 (),
 :
 $(y = -0,8536x^2 + 8,5979x - 0,48; R^2 = 0,6272)$,
 :
 $(y = -0,6286x^2 + 6,7571x + 2,5; R^2 = 0,2562)$.

(. 3)

(. 2).

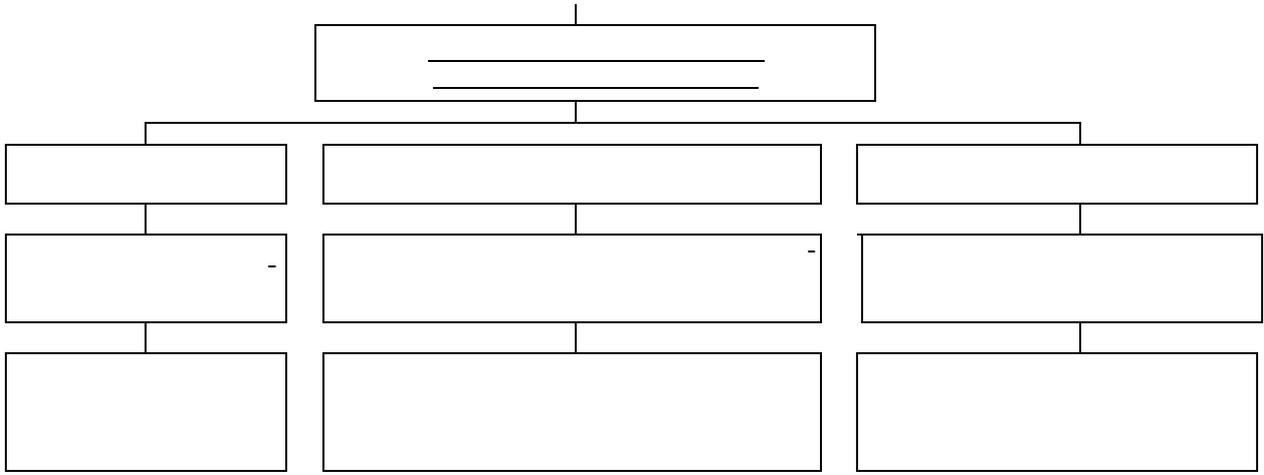
1

1-4 60 %)

10

100-120

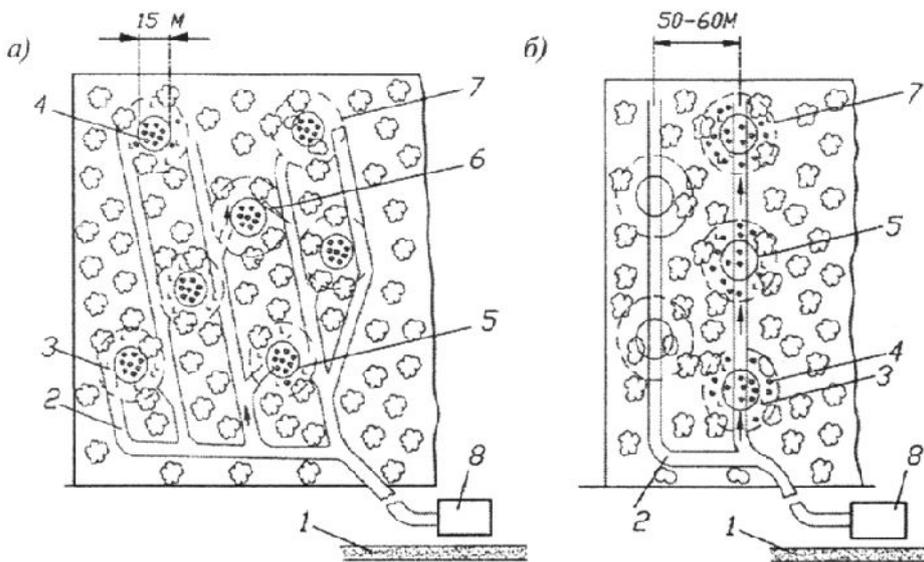
(.1) [5].



.1.

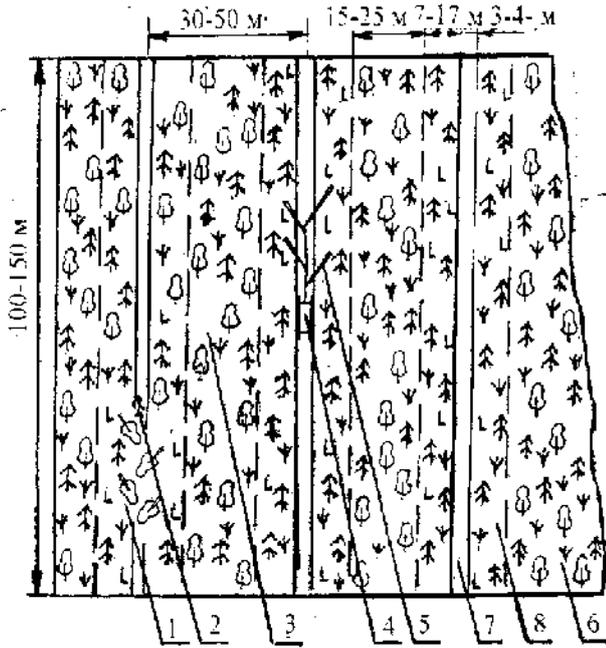
50-60

2 ,).



.2.

; — ; 5— ; 6— ; 7— (1— ; 2— ; 3— ; 4— ; 8—)



- 3. : 1 —
- ; 2 — ; 3 —
- ; 4 — ; 5 —
- ; 6 — ; 7 —
- ; 8 —

1.

2.

3.

[4].

4. (25 %)

5.

1. // XV

, 1994. . 19-21.

2. , 1996. 100 .

3. , 1998.

44 .

4. // , 2005. . 300.

5. : , 2010.

116 .

6. //

. 2009. 1 (64). . 180-183.

7. //

, 2013. . 593.

8. //

: , 2005. . 123-135.

9. // . 2012. 4 (16).

C. 166-170.

10. //

, 2017. . 47. 199 .

11. //

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459 , 2008.
 12. -
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 2012. . 31. 215 .
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 // 2014. . 2.
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