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Modeling detritus of dead trees (snags) of forests of alder Ukrainian Polissya

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Presented the results of experimental evaluation of organic matter of dead trees of alder of forests Ukrainian Polissya. Described the morphological characteristics of dead alder (Alnus glutinosa Gaerth.) trees of I-II classes degradation and peculiarities of structure of coarse woody debris I class degradation.

Defined basic density coarse woody debris (snags) of stem I (430 kg

The features of formation coarse woody debris in alder stands were established . Mathematical models (table) for evaluation stock of coarse woody debris in alder stands in completely dry state in tons per 1 ha.

Tab. Mathematical models of woody debris of alder forests

Number of model	Model	Determination coefficient (R^2)
1	$M_{sn}=0{,}023 \cdot D^{0{,}587} \cdot H^{1{,}130} \cdot P^{-0{,}290}$	0,86
2	$M_{sn}=0{,}020 \cdot A^{-0{,}653} \cdot D^{1{,}182} \cdot H^{1{,}450}$	0,86
3	$M_{sn}=0{,}344 \cdot A^{-0{,}169} \cdot D^{1{,}384} \cdot B^{-0{,}505}$	0,85
4	$M_{sn}=0{,}319 \cdot D^{1{,}181} \cdot B^{-0{,}479}$	0,85
5	$M_{sn\,I}=3{,}24 \cdot 10^{-4} \cdot M^{1{,}444}$	0,65
6	$M_{snII}=0{,}017 \cdot A^{1{,}350}$	0,91

In alder forest mortmass of snags can vary with age from 0,1 to 7,0 $t \cdot ha^{-1}$.