

[illegible]

[1, 2].  
*Juglans*

2. ( - )								
, 3 <sup>2-</sup>	HCO <sup>-</sup>	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Na <sup>2+</sup>	K <sup>+</sup>	
0-10	0,63	0,14	0,62	0,49	0,65	0,19	0,04	
11-25	0,65	0,09	0,20	0,42	0,31	0,21	0,04	
26-50	0,81	0,12	0,23	0,49	0,39	0,24	0,06	
51-80	0,71	0,09	0,52	0,45	0,43	0,42	0,04	

*Juglans*

30-	7,7 – 9,5 30,3	38-39	25,5 –
		50-	

12 ( . ) 15 .

*Juglans*

(3.1).  $\frac{6}{23} \approx 0.26087$ ,  $\frac{15}{23} \approx 0.65217$ .

1.	,	.
(Juglans)		
(regia)	.	1974
	,	
	,	
	,	
	,	1966
	,	
	,	1966
	.	1972
	.	1966
	.	1972

$N_{120} P_{180}$  . 15% , 45%

Juglans

$$1 - \frac{1}{2} \left( \frac{1}{2} \right)^n, \quad (n \geq 1),$$

(.2).

25%.

( 30%), 35%,

2005/06 ., 35  
 « », 14,33% 1. . . . .  
 // . – 2004. – 3. – . 19-24.  
 2. . . . .  
 2005-  
 2006 . ... – , 2006. – . 163-169.  
*Juglans*

### Walnut Growing in the Lower Volga Region

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**Summary.** Ecological and biological features and seasonal development of six *Juglans* species were studied. Dependence of their development on the sum of positive temperatures was revealed. The composition of water-soluble salts in light chestnut soil of a collection plot was determined. Data were presented on the drought resistances and winter hardiness of the species.

**Key words:** ecological and biological features; effect of soil-climatic conditions; *Juglans* species introduced in the Volgograd region; seasonal developments, effect of mineral fertilizers.