

[1].  
 2002-2004 .  
 70, 80, 90 /  
 [2,4].  
 2  
 30  
 « »  
 ( « »).  
 2,07%, - 0,11-0,15 %.  
 21,0 - /100 ,  
 50-60 %.  
 - 7,0 8,3.  
 75-65 85-75%  
 «  
 », «  
 85%  
 70 (N<sub>130</sub>P<sub>53</sub>K<sub>65</sub>), 80 (N<sub>150</sub>P<sub>60</sub>K<sub>75</sub>) 90 /  
 (N<sub>170</sub>P<sub>67</sub>K<sub>85</sub>) [5].  
 ( ) ( ) ,  
 ( ) ( )

8 , , 6-  
 (0,9 + 0,5)·0,36  
 40 . , -  
 70-90 / -  
 ( ).

		« »	
		2002-2004	
/		, %	/

70	N <sub>130</sub> P <sub>53</sub> K <sub>65</sub>	75-65	53,1
		85-75	66,8
		85	78,7
80	N <sub>150</sub> P <sub>60</sub> K <sub>75</sub>	75-65	63,3
		85-75	78,0
		85	84,3
90	N <sub>170</sub> P <sub>67</sub> K <sub>85</sub>	75-65	64,4
		85-75	86,3
		85	87,9

05=2,18 /

70	N <sub>130</sub> P <sub>53</sub> K <sub>65</sub>	75-65	51,2
		85-75	60,8
		85	69,7
80	N <sub>150</sub> P <sub>60</sub> K <sub>75</sub>	75-65	57,7
		85-75	70,0
		85	80,9
90	N <sub>170</sub> P <sub>67</sub> K <sub>85</sub>	75-65	60,6
		85-75	80,7
		85	84,6

05=2,28 /

1,9-9,0 / 3,7-12,9%,  
 [3].  
 N<sub>130</sub> P<sub>53</sub> K<sub>65</sub> N<sub>170</sub> P<sub>67</sub> K<sub>85</sub>  
 11,3-19,5 / 21,3-29,2%. [5].

0,4 75-65 85%  
 70,0 90,0 /

21,0-25,6 18,5-24,0 / .  
 10 20,  
 - 4417-4867 5083-5417 <sup>3</sup>/<sub>10</sub> ,  
 - 5109-5579 5598-5852 <sup>3</sup>/<sub>10</sub> .

400-550 250 <sup>3</sup>/<sub>10</sub> ,

– 84,3-105,0 67,1-85,2 <sup>3/</sup> .

250-550 <sup>3/</sup> , 65% )

« », 70 / (N<sub>130</sub>P<sub>53</sub>K<sub>65</sub>), 7,23-10,43;

– 29,19-31,90; – 366-395

95%

85%

70 90 / , N<sub>130</sub>P<sub>53</sub>K<sub>65</sub> N<sub>170</sub>P<sub>67</sub>K<sub>85</sub>,

75-65 « - » « »

85% N<sub>130</sub>P<sub>53</sub>K<sub>65</sub> N<sub>170</sub>P<sub>67</sub>K<sub>85</sub>, 70,0 90,0 / , 1,65-1,79 2,17-2,19

30,8-32,4 40,1-42,2 <sup>2/</sup> . 1 13,66-14,79 11,15-

2,99-4,64 5,56-7,87 / . 11,32 / .

1. . . . . , 1981. – 304 . 2. // . – 1964. – 3. – .34-38. 3.

(2,46-5,14 / ) – , 1970. – 20 . 4

(11,19-26,37 / ) – « - »

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### Yield of tomatoes under sprinkling in the Volga–Don interfluve

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**Summary.** The results of studying the effect of water and nutrient supply of soil on the yield of the Novichok tomato cultivar and the Rio-Grande tomato hybrid in the Volga–Don interfluve were generalized. The irrigation procedures and the application rates of mineral fertilizers used in the experiments were substantiated. The results on the tomato yield were obtained; the ecological safety and the agro-energetic efficiency of tomato production technology were assessed.

**Key words:** sprinkling irrigation, vegetable production, tomatoes