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$$(\quad)$$

3,5-7,2%

2004 .

64,2-69,3%

15

68,3-79,4%

19,2-30,5 %

29.

1000

$$(\quad . 1).$$

1. ,					
			1000 ,	, %	, %
1	2000		1,66	73.0	97
2	2001		1,50	88,0	97
3	2002		1,57	75.0	98

2004 .

, ( 0,5-2,6%)

1

120

3,7-6,2%

(.2).

3,5-4,02 /

3-15, 29: (1 - ( ); 2-120, ; 4-1, ).

12.05.03 .

6-7 .

120 . (

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120

10,1-12,7%,  
1,

2004 .

120 1  
2004 . 1  
77,4-88,3 .  
120

120  
9,5-13,6%.

2004 2005 .

2.							
		2003	2004		2005		
			1	2	1	2	
1	.	3,47	4,39	3,75	4,07	2,81	6,16
	120	3,82	4,81	3,87	3,96	2,95	6,47
	15	3,63	4,46	3,81	4,23	2,76	6,30
	1*	3,76	4,52	3,92	3,94	2,89	6,34
2	.	3,56	4,51	3,68	3,86	2,90	6,17
	120	4,02	4,96	3,93	4,02	2,94	6,62
	15	3,84	4,72	3,72	4,15	2,76	6,40
	1*	3,87	4,84	3,77	3,96	2,85	6,43
3	.	3,50	4,27	3,76	4,12	2,76	6,14
	120	3,89	4,85	3,81	4,03	2,84	6,47
	15	3,86	4,35	3,89	3,97	2,90	6,32
	1*	3,76	4,61	3,57	4,02	2,80	6,25
05	.	0,25	0,27	0,31	0,32	0,26	
	.	0,14	0,15	0,17	0,18	0,15	
	.	0,11	0,12	0,16	0,16	0,12	

\* 1 , 0,01

2005 .

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22,0%. 2003 20,7-  
28%.

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2003 .: =3,60+0,002<sub>1</sub>, R=0,60±0,02;  
2004 .(1 ): =4,50+0,003<sub>1</sub>, R=0,70±0,03;  
2004 .(2 ): =3,76+0,001<sub>1</sub>, R=0,49±0,02.

: = 3,74 + 0,0048<sub>1</sub> - 0,000031<sub>2</sub>,  
R=0,52±0,27.

2005 .  
( 2).

:  
2003 .: =3,02+0,0019<sub>1</sub>+0,0084<sub>2</sub>, R=0,69±0,07;  
2004 .(1 ): =3,27+0,003<sub>1</sub>+0,0016<sub>2</sub>, R=0,85±0,01;  
2004 .(2 ): =3,93+0,001<sub>1</sub>+0,002<sub>2</sub>, R=0,51±0,30.

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## Effect Of Biologically Active Low-Temperature Helium Plasma on Clover Seeds

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**Summary.** Responses of perennial plant seeds to preplant plasma irradiation differed a little, so they began to form a high-grade crop in the second year of growth. Therefore, it was more difficult to track the response to the impact made on seed grain. It was shown in field experiments that the processing of seeds with plasma radiation positively affected the germination energy and viability of seeds, the yielding capacity, and the crude protein content both in the first and second years of growth of meadow clover.

**Key words:** low-temperature plasma, meadow clover seeds, new technology.