

.....

.....

()

3,5-7,2%

2004

64,2-69,3%

15

68,3-79,4%

29.

19,2-30,5 %

1000

(.1).

1.					
			1000	,%	%
1	2000	1,66	73,0	97	
2	2001	1,50	88,0	97	
3	2002	1,57	75,0	98	

2-

120

1

2004

(0,5-2,6%)

1

120

3,7-6,2%

(.2).

3,5-4,02 /

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

12.05.03

6-7

120 . (

1)

120

10,1-12,7%,
1,

2004

120
2004 . 1
77,4-88,3

1

120
9,5-13,6%.

120

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

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

y.
 2003 $\hat{y} = 3,60 + 0,002 x_1$, $R = 0,60 \pm 0,02$;
 2004 (1) $\hat{y} = 4,50 + 0,003 x_1$, $R = 0,70 \pm 0,03$;
 2004 (2) $\hat{y} = 3,76 + 0,001 x_1$, $R = 0,49 \pm 0,02$.
 $\hat{y} = 3,74 + 0,0048 x_1 - 0,000031 x_2^2$,
 $R = 0,52 \pm 0,27$.

2005

(2)

2003 $\hat{y} = 3,02 + 0,0019 x_1 + 0,0084 x_2$, $R = 0,69 \pm 0,07$;
 2004 (1) $\hat{y} = 3,27 + 0,003 x_1 + 0,0016 x_2$, $R = 0,85 \pm 0,01$;
 2004 (2) $\hat{y} = 3,93 + 0,001 x_1 + 0,002 x_2$, $R = 0,51 \pm 0,30$.

120

120

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.