

... , ... » ... , ... »

« ... »

), 10 %- (10 /). (0,05

- /) - (10 /).

-

- 5 %- 0,075 / -

-0,03 / 70 1 . -

1. -

(. 2,3). -

0,45-1,20 / . 05 -

N₉₀P₆₀.

1. , ,

() -

50².

- 3,5 - II ,

- 1,5%, 0-0,7 -

1,39 / ³, - 21,3%.

- 214 / ,

19,4 /) - (N -NH₄⁺ 18,6 / ; N- N₃ 18,3 / ; 2 5

- ; 2 - N₃₀P₃₀; 3 - N₉₀P₆₀() .

() ,

1 (-

« ... »

), 10 %- (10 /). (0,05

- /) - (10 /).

-

- 5 %- 0,075 / -

-0,03 / 70 1 . -

1. -

(. 2,3). -

0,45-1,20 / . 05 -

N₉₀P₆₀.

1. , ,

1 ()	(1)	
2		
3		
4		
5	N ₃₀ P ₃₀ (2)	
6		
7		
8		
9	N ₉₀ P ₆₀ (3)	
10		
11		
12		

2. , / ,

2008-2011

		2008-2009	2009-2010	2010-2011	
(1)	()	2,56	2,61	2,78	2,65
		2,94	2,73	3,04	2,90
		2,97	2,87	3,06	2,97
		2,91	2,70	3,02	2,88
1		2,85	2,73	2,98	2,85
N ₃₀ P ₃₀ (2)		3,16	2,81	3,08	3,02
		3,57	2,94	3,24	3,25
		3,60	3,17	3,46	3,41
		3,54	2,91	3,22	3,22
2		3,87	2,96	3,25	3,23
N ₉₀ P ₆₀ (3)		4,22	3,73	4,28	4,08
		4,41	4,09	4,57	4,36
		4,59	4,39	4,71	4,56
		4,53	3,95	4,60	4,36
3		4,44	4,04	4,54	4,34

(0,44-1,25 /) -
 1,4-2,9 (0,53-0,92) %
 30 / 0,9-2,4 (0,38-0,74) 0,7-1,8 (0,35-0,85) %
 29,8-35,2 %.

N₉₀P₆₀.

2008-2011 . 2,90-4,36 (2,88-4,36) / ; 0,35-1,11 (0,34-1,14) /

3.

	2008-2011				
	()				(⁰⁵ = 0,11)
1	2,65	2,90	2,97	2,88	2,85
2	3,02	3,25	3,41	3,22	3,23
3	4,08	4,36	4,56	4,36	4,34
(⁰⁵ = 0,13)	3,25	3,50	3,65	3,49	

⁰⁵ = 0,22

1.

2.

3.

//

WINTER WHEAT YIELD AND GRAIN QUALITY AT THE USE OF BINORAM, BIOSIL, AND BISHOFIT WITH MINERAL FERTILIZERS

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The integrated effect of Binoram, Biosil, and Bishofit applied in combination with ammonium-phosphorus fertilizers on the yield and the grain quality of winter wheat grown on light chestnut soils of Kalmykia was studied.

Key words: winter wheat, light chestnut soils, Binoram, Biosil, Bishofit, yield, fertilizer application rate, grain quality.