

• • , • • • ,

	90	120
	30	60
	90	120

3 : 1- - 300 200+ 2- - 500 250.

0-40

46,5 / , 28,8 / (. . 38%),

35,1 / . , 51,9 -

20,

41,0 /

[1 – 6].

2 5

1983-1987 .

10,5-

13,5 / , -9,7-12,5 /

: (),

(70), ()

1 – 57%: 1 –

(0,05-0,20%).

2, 3 –

, 4 – , 5 –

, 6 – , 7 –

2 – , 5 – , 6 – 71,4%: 1 –

0,10-0,35%.

0-20 20-40

, 2-4 – , 5 – , 6 – , 7 –

3 – 85,7%: 1 –

, 2-4 – , 5 – , 6,7 –

86%

720 2.

0,80-2,05 /

N

(),

3,73 /

34% . . ,

(18% . .)

2 52%.

3 , 30%

(

1.

(0,81-0,92 / 2),

(1)

0,92-0,99 / 2,

0,97 0,67

11,29 8,79 / 2

1.

	N, 1-	N, 2-
: 1-	30	60
2-	60	90
3-	90	120
	120	150
	30	60
	90	120

2 5

- 10,93 10,52 / 2.

-11,4-12,0 / 2.

22,68 / 2,

0,60-1,40,

- 23,9 / 2. 2 5

- 2,0-

3,32 / 2.

2.

, /

(1983-1987)

N , 1-

N , 2-

1

3,39 4,45 1,06 5,03 1,64

1,63 2,85 1,22 3,81 2,18

22,90 33,30 10,40 42,70 19,80

2,50 3,67 1,17 4,29 1,79

31,33 43,70 12,37 55,70 12,00

3,13 4,16 1,03 4,44 1,31

1 1,52 2,16 0,63 2,51 0,99

2

2,81 4,41 1,60 4,96 2,15

1,55 2,97 1,42 3,76 2,21

1,31 2,59 1,28 3,26 1,95

0,81 1,09 0,28 1,33 0,52

2,15 3,49 1,34 4,20 2,05

1,65 2,63 0,98 3,73 2,08

1 1,35 2,30 0,95 2,84 1,49

3

2,61 3,74 1,13 4,71 2,10

1,36 2,50 1,14 3,30 1,24

1,13 2,29 1,16 3,12 1,99

1,47 2,97 0,80 3,64 2,17

1,41 2,89 1,48 3,69 2,28

1,24 2,80 1,56 3,38 2,14

1 1,32 2,46 1,14 3,12 1,80

86%

57%

1,31 / ,

1- - 2,10,

- 2,45 / .

1,14 / .

(86%)

1,24; 2,45 3,35 / ,

1,21, 2- - 2,11 /

150,

- 30 60,

- 90 / .

(300 200 / . .)

3 .

2,58-3,38 / .

4

1.

1976. 238.- 73-78. 2.

1975. -131 . 4.

1982.- 19.- 49-53. 5.

1980.- 34 . 6.

2003. -148 .

EFFICIENCY OF MINERAL FERTILIZERS IN CROP ROTATIONS WITH DIFFERENT CONTENTS OF CEREAL CROPS

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The development of fertilizing systems and the determination of rational application rates of fertilizers were based on the consideration of both natural soil fertility and contents of essential nutrients accumulated during the cultivation of separate crops. Studies were performed on crop rotations with different contents of cereal crops.

Keywords: content of cereals, mineral fertilizers, nitrogen, phosphorus, potassium, crop rotation, unfertilized and fertilized soils.