```
100 <sup>2</sup>,
                                                                                                                                         300
                                                                                      0,5
                                                                                                                               (50 / ). -
                                                                                                                      (0,6
                                                                                                                                            200
                                                                                                                             2
                                                                                  1 .
                                                                                                                                         : 2007
                                                                          2008 .
                                                                                                                            , 2010 . –
                                                                                                                                     , 2009
                [4-7].
                                                                        2011 .
                                                                            2007-2011 .
                                                                                [1].
                              [2-3].
                                                                                               [8].
                                                                                           5-7
                                                                                                            - 1016-1035
                                                                                                                    945 944
      : 1. N_{30}P_{30} (
) –
              ; 2. N_{30}P_{30} +
                                                                             . 1).
                       ; 3. N_{30}P_{30} +
                                                                                                               0-30
                                                                                                               2007-2011
    ; 4. N_{30}P_{30} +
                                          ; 5. N_{30}P_{30} +
                                                                                                                  /( <sup>2</sup>/<sub>2</sub>· )
                                                                                                                   858
                                                                                                                                     48,9
            ; 6. N_{30}P_{30} +
                                                                                               7,1
                                                                                                                   920
                                                                                                                                     63,0
                                                                                                                   945
                                                                                                                                     70,8
                                                                             4
                                                                                               8,6
                                                                                                                   944
                                                                                                                                     65,7
                                                       ; 7.
                                                                             5
                                                                                               9,0
                                                                                                                  1016
                                                                                                                                     71,4
                                                                                              9,4
                                                                                                                                     78,1
                                                                                                                  1035
                                                                             6
                                                                                               9,3
                                                                                                                                     75,3
                                 2-5
                                                                 ),
6
                                                                                                                                            9,0-
                                                                                                  6,9
                                                                        9,4
                                                                                                  5-7
```

1•2012

, 0,18 0,22 / . N_{30} $_{30}$ + -71,4-78,1%. + 0,39 / . (.5) -2010 . 2011 2007 2008 2009 1,07 0,51 1,28 2,05 2,86 0,57 1,18 1,4-2,5 2,12 2,91 0,58 2-7 1,21 2,25 2,42 3,06 1,26 0,61 1,51 3,14 1,34 0,63 1,61 1,66 2,57 3,52 1,38 0,70 2,36 3,15 1,32 0,65 4-7 1,17 / 3, 1,25 / 3 (. 2). $N_{30\ 30}\ +$ 66% 58%

2007-2011

| | | - | $N-NO_3$ | 2 5 |
|---|------|-----|----------|------|
| | / 3, | , % | / | |
| 1 | 1,25 | 58 | 7,6 | 16,8 |
| 2 | 1,23 | 59 | 8,4 | 20,5 |
| 3 | 1,21 | 62 | 9,6 | 27,6 |
| 4 | 1,19 | 63 | 9,9 | 29,2 |
| 5 | 1,18 | 64 | 10,5 | 30,3 |
| 6 | 1,17 | 66 | 11,8 | 32,6 |
| 7 | 1,17 | 65 | 10,6 | 30,9 |

4-7

1,5-2

. ²/ (. 3). 5,6,7 **- 19,5**

24,6-27,6 . 2/ .

| 3. | | (| (2007-2011 .) | | | |
|----|--------|------|---------------------|---------------------|--|--|
| | - | | 1 | - | | |
| | , . 2/ | , / | (² ·)/ | /(² ·) | | |
| 1 | 19,5 | 6,31 | 1170 | 5,40 | | |
| 2 | 22,2 | 7,20 | 1332 | 5,41 | | |
| 3 | 22,9 | 7,46 | 1374 | 5,43 | | |
| 4 | 24,5 | 8,04 | 1470 | 5,47 | | |
| 5 | 25,2 | 8,47 | 1511 | 5,61 | | |
| 6 | 27,6 | 9,60 | 1656 | 5,80 | | |
| 7 | 24,6 | 8,80 | 1476 | 5,97 | | |

 $N_{30\ 30} - 1,44$ / (. 2) 1,62 1,74 0,30 20,8 1,83 27,1 36,8 1,97

(. 6) - 0,53 / ,36,8%.

0,38 / , 26,4%. - 534 / , 72,4%. -68,2%, (. 7)

. 2.

: $N_{30}P_{30}$ + . 3.

, 1986. – 416 . 2. , 1984. – 127 . *3*. , 1990.–190 . *4*.

. – 2008. – 8 (46). – .16-20. 5. // XXI. - 2001. -

 $N_{30\ 30}$

EFFECT OF DIFFERENT FERTILIZERS ON SOIL FENTILITY AND BUCKWEAT YIELD IN THE CENTRAL VOLGA REGION

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The effect of different fertilizers on the yielding capacity of buckwheat in the forest-steppe zone of the Central Volga region was assessed. It was shown that the organo-mineral fertilizing system allowed obtaining the highest yield of buckwheat and the best physical parameters of grain, and the biologized fertilizing system ensured the best biochemical composition of grain and sustained the soil fertility. Keywords: buckwheat, leached chernozem, organo-mineral fertilizers, biopreparations, biologized fertilizing system, crop yield, grain quality.

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