: 633.18:631.67.5

```
1,33 / ,
                                                                                         7,2-8,2.
                                                                                                                                1,7 / ,
                                                                                [3],
                                                                                                   3 (st),
                                                                                 (
                                                                                            ), N_{80}P_{60}
                                                                      4,\!0 \quad / \quad , \ N_{120}P_{90}
                                                                                                                           5,0 / ;
                                             XX .
                                                                                                             75-80% 80-85%
                                                                                                        50 <sup>2</sup>,
                  23,8-25,7
- 7,2-8,1
                                               3,5-4,0 / ),
                                                                              10
                                                                            500.
                                                                                                                   I-II
             [1, 6].
                                                                                     15
                                                                                                                   5,5
                                                                                                                                   40-60
                                                                                                                                 (40-60
                           2200-4500
                                                                     N_{15-25},
                              (8-25
                                                                                                           (N_{25-35})
                                         [2, 5].
                                                                                                          10-11-
                                                                            2009 .
                                                                                          2010 . – 184,3° .
25-27 ,
                                                                              178,4°,
                                                                                                            , 2010 . 565,6° . 22
                                                                                         2009 . 586,9°,
                                                                                                                 2009 . 578,6°,
                                                                      2010 . 573,2 °.
                                                                                                                         100-120
                                                                                                      -3400\text{-}3600^{\circ} .
                                                                                2009 .
                                            [2, 4, 5].
                                                                                            N_{120}P_{90}
                                                                                         80-85%
                                                                                                 48
                                                                                                        59%.
                                                       2009 .
                                                                      60,5
                                                                              75,2 .
                                                                                                                     (80,2)
                                                                                    80-85%
               1,3 1,6%,
                                                                                                                                  2009-
                                  7,8-8,1,
        - 1,35-1,4 / <sup>3</sup>.
                                                                      2010 .,
                 0-1,0 0,248-0,451%.
                                                                                               3
                                                                                                                               2010 .,
5,
                                                                                                                                , 3 -
                                                                      2009 .
                                                                              4,67 /
```

32 6•2011

```
80-85%
                                                       N_{120}P_{90},
        - 4,99 /
                                                                                                                                                 0,83
                                                                                                                           (r)
   75-80%
                                                                  2,27
                                                                               0,87.
2,93
                   0,52-0,89 /
                                                                   N_{80}P_{60}
                                                  N_{120}P_{90}.
      1,27-1,51 /
                                          75-80
                                                     80-85%
                                                                               r = 0.54 - 0.61.
                                                          0,44-0,59 /
                                                    N_{120}P_{90} - 0,\!69\text{-}0,\!78
               N_{80}P_{60} - 0,61-0,69,
                                                                                           2009
                                             , / ,
                                                                                               96,2
                                                                                                             75-80%
                                                                                                                                             11
                                                                                                                                        3/
                                                                                                                                4150
                                         2009 .
                                                     2010 .
                                                                               80-85%
                                                                                                                                        5500
                     , %
                                                                                                                                                      15
                                                                               2010 .
                                                                                                          500
                                          2,65
                                                       2,52
                                                                   2,58
                                                      2,28
                                                                   2,34
                                          2,40
                75-80
                                                                                                                          3/ ,
                                                                                        80-85%
                                                                                                                   7500
                                                                                                                                                 75-80%
                                          2,30
                                                       2,25
                                                                   2,27
                                                                                   -5750 ^{3}/
                                          3,05
                                                       2,81
                                                                   2,93
                                          3,18
                                                                   3,12
2,83
2,71
                                                       3,06
          )
                                          2,89
                                                      2,76
                80-85
                                          2,73
                                                       2,69
                                                                                                    5 /
                                          3,64
                                                       3,39
                                                                   3,52
                                                                                                                                 80-85%
                                           3,42
                                                                   3,32
                                                                                                                               N_{120}P_{90};
                                                       3,17
                                                                   3,23
                                          3,30
                                                                                                  -5,5
                75-80
                                          3,17
                                                       3,12
                                                                   3,14
                                                                   3,45
                                          3,54
                                                       3,37
  N_{80}P_{60}
                                          4,09
                                                       3,85
                                                                   3,97
                                                                                                                                 6500
                                                                                           5
                                          3,93
                                                       3,77
                                                                   3,85
                80-85
                                                                                                 15312,5
                                          3,78
                                                       3,71
                                                                   3,75
                                                       4,03
                                                                   4,14
                                          4.24
                                          4,02
                                                       3,77
                                                                   3,89
                                                                                                     . 17-18. 2.
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                                          3,99
                                                       3,72
                                                                   3,85
                                                                                                                 , 1972.- 87 . 3.
                75-80
                                          3,78
                                                       3,56
                                                                   3,67
                                                                                                                         , 1985. - 352 . 4.
                                                       4,13
                                                                   4,20
                                          4,27
 N_{120}P_{90} \\
                                          4,82
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                                          4,75
                                                       4,43
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                                                                                   , 1995. –
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                80-85
                                                       4,25
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                                          4.47
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                                          0,11
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                                                      0,07
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                                          0,08
                                                       0,05
                                                                   0,03
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CULTIVATION OF RICE UNDER SPRINKLER IRRIGATION IN THE DESERT ZONE OF KALMYKIA

0,12

0,27

0,19

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On the basis of long-term stationary studies, a technology was developed for the cultivation of low-water-consuming rice under periodic irrigation; optimal irrigation rates and mineral fertilizer application rates were determined.

Keywords: low-water-consuming rice, irrigation, sprinkler irrigation, fertilizers, crop yields.

6•2011