

12. Makovkina L. N. *Irrigation regimes and fertilization doses to obtain the planned yield of onions on light chestnut soils of the Volga-Don interfluve*. Abstract of Ph.D. diss. Volgograd, 2009. 23 p. (in Russian).
13. Donguzova Yu. V. *Buckwheat irrigation regime in stubble crops on light chestnut soils of the Volga-Don interfluve*. Abstract of Ph.D. diss. Volgograd, 2009. 23 p. (in Russian).
14. Masharova O. V. *Regime of irrigation and fertilization of eggplants during sprinkler irrigation on light chestnut soils of the Volga-Don interfluve*. Abstract of Ph.D. diss. Volgograd, 2011. 23 p. (in Russian).
15. Shentseva E. V. *Improvement of agricultural technology for growing eggplant with drip irrigation using tunnel shelters for early production*. Abstract of Ph.D. diss. Saratov, 2012. 22 p. (in Russian).
16. Bogdanenko M. P. *Technology of cultivation of seedling onions with drip irrigation in the Lower Volga region*. Abstract of Ph.D. diss. Saratov, 2012. 23 p. (in Russian).
17. Valge A. M., Papushin E. A., Perekopskiy A. N. Mathematical modeling of cropping power of perennial grasses. *Vestnik Rossiiskoi akademii sel'skokhozyaistvennykh nauk* [Bulletin of the Russian Academy of Agricultural Sciences], 2013, no. 5, pp. 8-10 (in Russian).
18. Proshkin V. A. Simulation of the efficiency of mineral fertilizers on the basis of agrochemical soil properties. *Agrokimiya* [Agrochemistry], 2012, no. 7, pp. 16-27 (in Russian).
19. Semenenko N. N. *Peat-bog soils of Polesie: transformation and ways of effective use*. Minsk, Belaruskaya navuka Publ., 2015. 282 p. (in Russian).
20. Stepuro M. F. Application of methods of mathematical modelling in estimation of fertilizer systems and optimization of mineral nutrition of table beet. *Ovoshchevodstvo: sbornik nauchnykh trudov = Vegetable growing: collection of scientific papers*. Minsk, 2012, vol. 20, pp. 245-254 (in Russian).
21. Stepuro M. F. Use of mathematical simulation methods for optimization of carrots fertilizing system. *Kartofel' i ovoshchi = Potato and Vegetables*, 2013, no. 1, pp. 19-21 (in Russian).
22. Topazh A. G., Lekomtsev P. V., Pasyнков A. V., Pukhovskiy A. V. Abnormal forms of the response "fertilizer - productivity": field experiments and simulation analysis. *Izvestiya Timiryazevskoi sel'skokhozyaistvennoi akademii = Izvestiya of Timiryazev Agricultural Academy*, 2015, iss. 2, pp. 15-28 (in Russian).
23. Ushakova E. V. *Technological methods of cultivation of various varieties of soybeans with drip irrigation in arid conditions of the Lower Volga region*. Abstract of Ph.D. diss. Saratov, 2012. 23 p. (in Russian).
24. Shapovalov N. K., Soldat I. E. Mathematical modeling of the process on produtsionnym sugar beet. *Dostizheniya nauki i tekhniki APK = Achievements of Science and Technology of Agriculture*, 2013, no. 2, pp. 29-31 (in Russian).
25. Akulinina M. A. *Drip irrigation of cucumber in the dry steppe zone of light chestnut soils of the Lower Volga region*. Abstract of Ph.D. diss. Volgograd, 2010. 23 p. (in Russian).
26. Martynova A. A. *Improvement of agrotechnical methods of carrot cultivation on light chestnut soils of the Lower Volga region*. Abstract of Ph.D. diss. Volgograd, 2010. 19 p. (in Russian).
27. Vakhonin N. K. Conceptual bases of yield modeling in the decision-making system concerning water regime regulation. *Melioratsiya* [Land Reclamation], 2014, no. 2 (72), pp. 14-15 (in Russian).
28. Vakhonin N. K. Yield modeling in the system of precision farming. *Melioratsiya* [Land Reclamation], 2015, no. 1 (73), pp. 131-136 (in Russian).
29. Dmitrenko V. P. *Assessment of the influence of air temperature and precipitation on yield formation of the main grain crops*. Leningrad, Gidrometeoizdat Publ., 1979. 49 p. (in Russian).
30. Likhatchevich A. P. Mathematical simulation for improvement of reliability of evaluation of the field agronomic experiment results. *Vestsi Natsyyanal'nai akademii navuk Belarusi. Seryya agrarnykh navuk = Proceedings of the National Academy of Sciences of Belarus. Agrarian series*, 2018, vol. 56, no. 3, pp. 321-334 (in Russian). <https://doi.org/10.29235/1817-7204-2018-56-3-321-334>
31. Likhatchevich A. P. Modeling of effect of controlled environmental factors on crop yield. *Vestsi Natsyyanal'nai akademii navuk Belarusi. Seryya agrarnykh navuk = Proceedings of the National Academy of Sciences of Belarus. Agrarian series*, 2016, no. 4, pp. 65-78 (in Russian).

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