

SOME ECOLOGICAL AND BIOLOGICAL BASES OF TECHNOLOGY OF SOY GROWING IN THE CONDITIONS OF THE STEPPE ZONE OF THE KBR

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The influence of the timing and methods of sowing two soybean varieties (Vilana, Select 301) on the grain yield in the steppe zone of the KBR was studied. The technical and economic efficiency of various care methods has been determined, preserving from losses up to 3.5-8.5 c / ha of seeds of the crop with a high degree of suppression of the weed-field community - up to: 60.3-86.6% in quantity and 81.2 -91.0% by weight for harvesting grain products. The advantage of using herbicides has been proven: Panthers with a reduced application rate of 1.0 l / ha in the phase of 3-5 leaves of the crop against the background of applying the soil preparation Gezagard in 2.5 l / ha before sowing for cultivation compared to high doses (1, 5 and 3.5 l / ha, respectively) of their use.

Key words: field experience, cost structure, varietal characteristics, adaptive cultivation technology, weed control, sowing dates, ordinary sowing method.

REFERENCES

1. Dosphehov B.A. *Metodika polevogo opyta. Izdaniye 5-ye, dopolnennoye i pererabotannoye* [Methodology of field experience. 5th edition, supplemented and revised]. M.: Agropromizdat, 1985. 351 p.
2. Tarchokov H.Sh. *Osobennosti metodiki agrotekhnologicheskikh priyemov vzdelyvaniya soi. ISKH KBNTS RAN* [Features of the methodology of agrotechnological methods of soybean cultivation. Institute of Agriculture of the KBSC RAS]. Nalchik: Print Center Publishing House, 2019. 67 p.
3. *Metodika provedeniya polevykh agrotekhnologicheskikh opytov s maslichnymi kul'turami. Izdaniye vtoroye, pererabotannoye i dopolnennoye. Pod obshchey redaktsiyey V.M. Lukomtsa* [The methodology of field agrotechnological experiments with oilseeds. Second edition, revised and enlarged. Under the general editorship of V.M. Lukomets]. Krasnodar, 2010. 327 p.
4. Tarchokov H.S., Kagermazova Z.M. *Soya v adaptivno-landshaftnom zemledelii predgornoy zony Kabardino-Balkarii* [Soy in adaptive landscape farming of the foothill zone of Kabardino-Balkaria]. Nalchik: Polygraph Service and T, 2013. 39 p.
5. Baranov V.F., Kochegura A.V., Lukomets V.M. *Soya na Kubani* [Soy in the Kuban]. Krasnodar, 2009. 321 p.
6. Tarchokov H.S., Bzhinaev F.Kh. *«Izuchit' adaptivnost' perspektivnykh sortov osnovnykh zernobobovykh kul'tur v resursosberegayushchikh tekhnologiyakh proizvodstva sel'khozproduksii v KBR». Otchet o NIR; FGANU «Tsentri informatsionnykh tekhnologiy i sistem organov ispolnitel'noy vlasti»* ["To study the adaptability of promising varieties of major leguminous crops

in resource-saving technologies for agricultural production in the KBR.” Research report; FSASE "Center for Information Technologies and Systems of Executive Authorities". M., 2015.

10 sec № ГП 0740-2015-0005. Inv. Number 11.

7. Kiryushin V.I. *Ekologizatsiya zemledeliya i tekhnologicheskaya politika* [Greening of agriculture and technological policy]. M.: Publishing house of the Moscow Agricultural Academy named after K.A. Timiryazev, 2009. 473 p.

8. Kiryushin V.I. *Teoriya adaptivno-landshaftnogo zemledeliya i proyektirovaniye agrolandshaftov* [The theory of adaptive landscape farming and the design of agrolandscapes]. M.: Kolos, 2011. 443 p.