

Definition of chemical indicators plant fodders of the Chuvash Republic

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Abstract

This review presents the results of a comprehensive study of various chemical indicators of plant feed for farm animals. By standard techniques photometric, titrimetric and gravimetric determined by ways the content of solid (GOST 31640-2012), crude fat (GOST 13496.15-97), a crude protein (GOST 13496.4-93), crude cellulose (GOST 31675-2012), crude ashes (GOST 26226-95), calcium (GOST 26570-95) and phosphorus (GOST 26657-97). As objects of vegetable fodder raw materials are considered wheat, maize, lucernous hay, scallow hay, rapeseed extraction cake, sunflower extraction cake, rapeseed cake, barley, peas, lucernous hay, corn silos, growing and/or prepared in the territory of Krasnoarmeysky, Vournashky and Chuvilsky regions, It has been revealed that rapeseed and sunflower extraction cake, as well as rapeseed cake, have an increased value of raw fat in the territory of the Vournar district compared to the rest of the Chuvashia region. According to the chemical indicator of dry matter, all fodders comply with the standards in Yadrin, Wournar and Civilsky districts; By the indicator of raw protein – most fodders comply with the standards in Civilsky, Krasnoarmeysky, Yadrin and Wournar districts; By the indicator of raw fiber – the samples from Civilsky district meet the standards, in Yadrin and Krasnoarmeysky district minor deviations were found, and in Cheboxary and Wournar districts the indicators do not fully correspond; By the indicator of raw fat - corresponds to the norms of Yadrin district, in Civilsky and Krasnoarmeysky districts minor deviations were found, and in Cheboxary and Wournar districts the indicators do not correspond to the norm; In terms of raw ash – in all areas the value is exceeded; Calcium content – in almost all areas there is an excess of the norm; In terms of phosphorus content – meets the standards of the Wournar district, in the Civilsky and Yadrin districts minor deviations were found, and in the Krasnoarmeysky and Cheboxar districts the indicators do not correspond. All of the areas studied by us, the best raw material indicators of plant feed in Yadrin and Civilsk districts of the Chuvash Republic.

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