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**IMPACT OF TECHNOLOGICAL METHODS OF GROWING
ON QUALITY INDICATORS OF HAYFIELDS FORAGE
OF ALFALFA-CEREAL AGROPHYTOCENOSE**

The studies were carried out in two-factor experiment, where various processing methods of cultivation were studied by legume-grass mixtures that consisted of alfalfa, chaff eastern and smooth bromegrass.

Factor A – inoculation of bean seed component: 1) without inoculation; 2) with inoculation.

Factor B – fertilization: 1) Control; 2) $P_{60}K_{60}$; 3) $N_{60}P_{60}K_{60}$; 4) lignogumat; 5) $P_{60}K_{60}$ + lignogumat; 6) $N_{60}P_{60}K_{60}$ + lignogumat.

The studies were carried out according to generally accepted methods of scientific research in forage production and growing meadows. The sizes of the plots: sowing – 35 m²; accounting – 25 m², with four replicates.

Among of the studied technological methods of cultivation meadow agrophytocenoses, by all indicators regulated by Standard, the 1-st class corresponded to one variant without inoculation ($N_{60}P_{60}K_{60}$ + lignogumat) and two variants with inoculation ($N_{60}P_{60}K_{60}$ and $N_{60}P_{60}K_{60}$ + lignogumat).

In the second cutting, by all indicators of quality, three variants without inoculation and three variants with inoculation ($N_{60}P_{60}K_{60}$, $P_{60}K_{60}$ + lignogumat and $N_{60}P_{60}K_{60}$ + lignogumat) corresponded to the 1-st class quality.

In the third cutting all variants of experiment, except for control without fertilizers provided forage of the 1-st class.

Thus, comparing quality of hayfields feed with state standard DSTU 4674-2006 "Hay. Technical requirements ", it can be concluded that the highest indicators of quality in all marked cutting was variants where treated by ryzobofit alfalfa seeds were used, were complete fertilizer $N_{60}P_{60}K_{60}$ was into the surface and humic fertilizer with properties of lignogumat outroots.