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**REPRODUCTIVE ABILITY OF REPAIR HEIFERS AND FIRST-CALF COWS OF SIMMENTAL BREED PRECARPATHIANS OF DIFFERENT LINES**

The analysis of reproductive ability of repair heifers and first-calf cows of the Simmental breed of Precarpathians of different linear affiliation in the breeding farm "Pchany-Denkovych" of Zhydachiv district Lviv region was carried out. According to the genetic data, the genealogical structure of experimental population is represented by descendants of three lines: Romulyus 929189864.75, Horror 809707945.79 and Redad 711620016.77. Retention conditions are binding. In particular, the following indicators were studied: live mass of repair heifers during first insemination, age of calving, index of insemination, fertility from the first insemination, duration of pregnancy, service period, dry period, vitality of newborn young animals. Also taken into account the difficulty degree of calving in the first-calf cows.

In result of our studies it was found that age calving of repair heifers ranged from 28 to 30 months, that is, somewhat prevailing norms for dairy cattle. The index of insemination was 1,63–1,71 units. At the same time, the highest data index was characterized by heifers from the line Redad 711620016.77. The fertility rate from the first insemination was the highest among animals from the Romulyus line 929189864.75 and was 69,06 %, which is higher than contemporaries of Horror 1,36 % and from the line Redad – 1,29 %

The duration of the service period exceeded the norm (90 days) in all animals, with the exception of descendants from the Redad line. In general, this indicator was within 96–130 days. The dry period between 1 and 2 calvings is optimal. The CRA of the first-calf cows was 0,75–0,79 %. The fertility index from the first insemination was the largest in cows from Romulyus line (72,3 %), in animals from Horror's line one was 70,8 %, from the Redad's line – 71,6 %. At fairly high live mass of calves at birth, calvings were in first-calf cows of Simmental breed mainly easily and without complications. During the research period, the three animals belonging to the Romulyus line noted cases of assistance at calvings but without complications. The quantity of such accidents between first-calf cows Horror's line were 6, and in animals Redad's line – 3. The heavy

calvings were in 2,0 % animals from 147 estimatel in line of Horror and 1,6 % from valued ones in Redad's line.