

河流型水牛与沼泽型水牛杂交后代(2n=49) 染色体遗传与繁殖力的研究 Studies of Chromosomal Heredity and Fertility of Progenies (2n=49) Crossed between River and Swamp Buffalo

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摘要 通过2n=50和2n=49两种核型三品种杂交水牛繁殖记录分析和其中2n=49三品种杂交水牛联合会复合体及其精子染色体研究, 结果表明, 后者虽然公母都是可育的, 由于它产生两种正常配子 (n=24, n=25) 和两种异常配子 (n=24+1, n=25-1), 自群繁殖导致其子代染色体多态性 (2n=50, 2n=49和2n=48); 其异常配子, 与正常配子结合, 则产生非整倍性, 致其繁殖力降低, 表现为情期配种受胎率降低12.3%; 年受胎率降低6.4%; 产仔间隔长97.6天; 终生(11岁)产仔数减少1.33~1.54头。

Abstract: After analysis of reproduction records of two types of karyotypes (2n=50 & 2n=49) of triple crossbred buffaloes (TCB) and studies of synaptonemal complex and sperm chromosome of 2n=49 TCB, the results showed that 2 sorts of normal gametes (n=24 and n=25) and 2 sorts of abnormal gametes (n=24+1 and n=25-1) were produced in 2n=49 TCB. Thus, both male and female of 2n=49 TCB are reproducibile, and chromosomal polymorphysim (2n=50, 2n=49 & 2n=48) occurred in the progenies after intermating. But its fertility decreased because of aneuploidy combined between normal and abnormal gametes. Compared with 2n=50 TCB, the conception rates for individual inseminations and for whole year reduced 12.3% and 6.4%, calving interval were prolonged by 97.6 days, and calf numbers in its lifetime (up to 11-year old) were lower by approximate 1.5 calves, respectively.

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