

气候变化对三江源区兴海县天然牧草的影响

郭连云,丁生祥,吴 让,谢卫东,薊尚玛

摘要:

根据青海省三江源区兴海县牧业气象站1999-2007年天然牧草数据和气候资料,分析了三江源区兴海县天然牧草生长发育与气象条件的关系,探讨了气候变化对兴海县牧草发育期、高度及产量形成的影响。结果表明:三江源区兴海县牧草返青期与日平均气温 $\geq 5\text{ }^{\circ}\text{C}$ 的初日相一致,黄枯期与日平均气温 $\geq 5\text{ }^{\circ}\text{C}$ 的终日相吻合;牧草返青期与黄枯期均提前,而且黄枯期的提前程度大于返青期;覆盖度每年以1.73个百分点的倾向率减小,而牧草高度以1.08 cm/a的线性趋势上升;在全球气候变暖的背景下,牧草生长季温度升高,加之进入21世纪以来该地区降水量逐渐增多,水热匹配较好,牧草产量增加。

关键词: 三江源; 气候变化; 天然牧草

Effect of climate change on the forages in natural grassland of Xinghai County in Three river headwaters region

GUO Lian yun, DING Sheng xiang, WU Rang, XIE Wei dong, JI Shang ma

Abstract:

Based on the forages and climate data from 1999 to 2007 collected by Xinghai Agricultural Weather Station in Three river headwaters region, the relationship between climate and forage growth and the impact of climate change on forage growth period, height and yield were studied. The results indicated that the forage re-greening date was as same as the date of the first day of $\geq 5\text{ }^{\circ}\text{C}$ daily average temperature and the forage withering date fitted with the date of $\geq 10\text{ }^{\circ}\text{C}$ daily average temperature. The dates of forage re-greening and withering were brought forward, and the withering date was brought forward in more extend. The vegetation coverage reduced at a rate of 1.73 percentage units and the forage height increased 1.08 cm per year. Under the global warming background, the temperature in growth season increased and the rainfall in this area increased as well, the forage yield increased because of better matching between water and heat conditions.

Keywords: Three river headwaters region climate change natural forage

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作者简介:

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