# CURRENT STATE AND CONSERVATION PERSPECTIVES OF THE NARROW ENDEMIC *ALLIUM TATYANAE* IN NAMANGAN REGION

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***Abstract:*** *Allium tatyanae F.O. Khass. & F. Karim. is a narrow endemic geophyte of the Fergana Valley. This article presents the results of field monitoring conducted in the Namangan region. The species was recorded in the Yangiqo'rg'on (O'ng'or-tepa) and Chortoq (Arbag'ish) districts, inhabiting stony-gravelly soils in the adyr zone at altitudes of 1000–1300 m a.s.l. The main threats identified are intensive grazing and habitat degradation. Based on the field data, recommendations for its conservation and inclusion in the Red Data Book are proposed.*

***Аннотация:*** *Allium tatyanae F.O. Khass. & F. Karim. — узкоэндемичный геофит Ферганской долины. В статье представлены результаты полевого мониторинга, проведенного в Наманганской области. Вид отмечен в Янгикурганском (Унгор-тепа) и Чартакском (Арбагиш) районах, произрастает на каменисто-щебнистых почвах в зоне адыров на высотах 1000–1300 м н.у.м. Основными выявленными угрозами являются интенсивный выпас скота и деградация среды обитания. На основе полевых данных предложены рекомендации по его сохранению и включению в Красную книгу.*

***Keywords:*** *Allium tatyanae, Amaryllidaceae, endemism, Namangan region, conservation, adyrs.*

**Introduction:**

The genus *Allium* L. is significant in the flora of Central Asia. *Allium tatyanae* was described relatively recently and is known from limited locations in the northern Fergana Valley. Understanding its population status is crucial for its conservation.

**Ecological Characteristics:**

The species is adapted to the semi-arid conditions of the adyr belt. It prefers erosion-prone slopes with skeletal soils. Phenologically, it flowers in spring, utilizing the brief moisture availability.

**Threat Assessment:**

Field observations in 2023-2024 indicated that the populations in Yangiqo'rg'on and Chortoq are under pressure from livestock grazing. The accessibility of these low-mountain areas makes them prime targets for agricultural use, leading to habitat loss.

**Conservation Measures:** It is essential to monitor the existing populations and control grazing during the flowering and fruiting periods. Establishment of micro-reserves in sites like Arbag'ish would ensure the survival of this species.

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