

COMPONENT COMPOSITION OF *AMARANTHUS CAUDATUS* AND *A. PANICULATUS* (AMARANTHACEAE) SEEDS (THE KOMI REPUBLIC)

© *G. A. Volkova, T. I. Shirshova, * I. V. Beshley, N. V. Matistov, K. G. Ufimtsev*

Institute of biology of Komi scientific center Ural Division of RAS, Syktyvkar, Russia

*E-mail: shirshova@ib.komisc.ru

SUMMARY

The paper presents the results of studies of the chemical composition of *Amaranthus caudatus* L. and *A. paniculatus* L. from the collection of the Botanical garden of the Institute of biology, Komi scientific center, UD RAS. It is shown that 8.1 % of total lipids and 6.4 % of neutral lipids are accumulated in the seeds of *A. paniculatus* and 5.3 % of neutral lipids are accumulated in *A. caudatus* introduced in the Republic of Komi. Neutral lipids of *A. paniculatus* and *A. caudatus* contain 3.6 and 2.4 % of squalene, respectively. Oleic acid (33.0 %) and linoleic acid (26.5 %) dominate in seeds of *A. paniculatus*. Arginine (25.1 %) is the most abundant amino acid in seeds of *A. paniculatus*.

Key words: *Amaranthus caudatus*, *A. paniculatus*, neutral lipids, squalene, higher fatty acids, amino acids, the Komi Republic.