

CORRELATION OF SEED HARDNESS AND SEED COAT COLOR IN *GLYCYRRHIZA URALENSIS* FISCH. (FABACEAE)

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In population-based sample of *Glycyrrhiza uralensis* investigation it was determined that there is clear linkage between seed hardness and spectral properties of seed surface. Distinct colored seeds (subdivided for two groups – “olive” and “light brown”) differ by features in reflection spectra range 450 – 950 nm as well as by swelling dynamics during germination and by hard seeds percentage. In standard germination mode in “olive” group very high percentage (91.8%) of hard seeds detected. Majority of “light brown” seeds swell within three days with hard seeds percentage less than 11.1%. Revealed *Glycyrrhiza uralensis* seeds shell coloring differentiation could be used for intentional division of the seeds into fractions with various hard seeds content. It is important for methods of presowing treatment development and for high viability seeds fraction separation.

Key words: seed hardness, licorice seeds, surface reflection spectrum, seed coat color, *Glycyrrhiza uralensis*.

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