

## **Some Results of Spectral Reflectance of Vegetation-Soil Associations in the Kherlen river basin Under RAISE Project**

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### **ABSTRACT**

This particular paper summarizes spectral reflectance measurement conducted in the Kherlen river basin within the RAISE project in June-October, 2003 and July, 2004. The objective of this research is to determine spectral reflectance of soil-vegetation systems, vegetation biomass of pastureland and to define NDVI value and to define the correlation between NDVI and plant - biomass.

In this paper we included results of ground measurement, conducted in Mongonmoryt, Baganuur, Kherlenbayan-Ulaan, Jargalkhaan, Darkhan and Ondor-Khaan sites in the Kherlen river basin.

Vegetation biomass measured by standard method and also by spectrophotometer. NDVI values has been derived from spectral reflectance measurement and compared with ground survey. Finally, regression equation derived between ground survey measurement and NDVI with correlation coefficients of 0.43-0.66. The study shows that it is needed to continue such measurements for longer period to get enough data which allows to conduct more detailed analysis.