

NED UNIVERSITY JOURNAL OF RESEARCH

SOIL-MOISTURE CHARACTERISTICS OF PAVEMENT SUBGRADES AND SUBBASES

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Volume: **1**

No: **2**

Pages: **13-26**

Date: **July 1994**

Abstract:

The soil-moisture characteristics for various pavement subgrade soils and subbases is presented. This relationship is basic to the modeling of unsaturated flow in soils and data for pavement layers are typically not available. This research study has resulted in the development of a database which can be used in drainage evaluation of subgrade soils and subbases. Laboratory testing procedures for determining suction-moisture content relationship is described in detail. The experimental results are used to calibrate the parameters of two widely used moisture infiltration models for application in pavement subgrades and subbases. Fitted values show good correlation with measured values.

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