

INTRODUCTION

The SCS Hydrology Manual is intended primarily for Soil Conservation Service (SCS) engineers and technicians in carrying out SCS responsibilities in soil and water conservation and flood prevention.

The Soil Conservation Service basic hydrology concepts, such as the rainfall-runoff relationship, are used in this manual. This manual provides methods and techniques of estimating the parameters that affect peak discharges for watersheds.

This manual contains some new techniques that were developed by SCS personnel to meet specific needs of SCS. Well-known techniques from other sources are included, where necessary, to illustrate special applications to watershed-project planning, evaluation, and design. Hydrologic theory is held to the minimum necessary to show the development of methods not readily available elsewhere. References to hydrologic literature that provide additional theory, data, discussion, or details of a method are included.

Many of the hydrologic problems in N.D. have been evaluated with alternative solutions. Descriptive material is kept to a minimum.