

SECTION II – CROPLAND INTERPRETATIONS

IRRIGATION DESIGN GROUPS (IDG)

INTRODUCTION

The soils in each series were evaluated and placed in 1 of 30 numbered groups called IDG. Soils having approximately equal intake rates, available water capacities, and available root zone depths were placed together. Some groups include soils with minor variations in intake rate, available water capacity, and permeability. If the variation is significant, it is noted in the IDG where the soil is listed. Soils generally considered non-irrigable are placed in lettered groups based on their limitation.

The grouping of soils is shown in the two listings that follow. The first list shows all the soils in alphabetical order by series with the appropriate IDG. Some soil series may be placed in two different IDGs, depending on surface texture. In those cases, the surface texture is in parenthesis after the soil series name.

The second listing is by IDG and gives the principal soils included in each of the 30 numbered groups. The intake family used to prepare design data is noted. Included is

a general description of the texture profiles, characteristics, and limitations of the soils in that group.

The estimated available water capacity for each soil group follows the description. The amounts of moisture are cumulative by one-foot increments of depth. In estimating available water capacity of the groups of soils in this irrigation guide, the predominant soil textures of the major soil horizons for soils in each irrigation group were used. Individual soils in the IDGs vary somewhat in total available water capacity because of minor differences in texture of the soil horizons.

The most common soils are listed below the available water capacities for each design group.

A description of the lettered non-irrigable soils groups follows the IDG descriptions.