

12-5-96

MAPLE DUNES

SBI SECTION 23 DA = 45.0 AC = 0.0703 SQ. MI.

SOIL TYPES

Vb VAUGHAN 70%
Eb ELANDER 5%
Mb MILAN 5%
HYDROLOGIC GROUP B (ALL SUBBASINS)

CN EXISTING CONDITION = 81.0 CULTIVATED W/OUT CONSERVATION TREATMENT

S = 1000 / 81 - 10 = 2.35

LENGTH = 3400' SLOPE = 50' = 1.47%

LAG = (3400^4 \* 3.35^1.7) / (1900 \* 1.47^1.5) = 0.108 HR

SBI SECTION 24 DA = 56.0 AC = 0.875 SQ. MI.

CN = 81.0 EXISTING

LENGTH = 2800' SLOPE = 15' = 0.54%

LAG = (2800^4 \* 3.35^1.7) / (1900 \* 0.54^1.5) = 0.90 HR

SBI SEC 25 AND 26 DA = 43.0 AC = 0.1297 SQ. MI.

CN = 81.0 EXISTING

LENGTH = 5000' S = 50' = 1.0%

LAG = (5000^4 \* 3.35^1.7) / (1900 \* 1.0^1.5) = 1.12 HR

POUND STORAGE

ELEV AREA STORAGE

130.5 1.33 AC 0

136.0 3.00 AC 11.9 AC FT

DISCHARGE STRUCTURE - WEIR

SECTION 24 DEVELOPED

Table with columns: REMID LOTS, COMMERCIAL, OPEN SPACE, POUND, CU, AREA, and COMPOSITE CU.

PERCENT IMPERVIOUS

Table with columns: RESIDENTIAL, COMMERCIAL, POUND, OPEN, % AREA, and IMP.

DEVELOPED LAG TIME

LAG = 0.47 \* [0.55 / (1 + 0.55)]^0.5 \* 3.85 - 0.57 = 0.27 HR

FLOOD HYDROGRAPH PACKAGE (HBC-1)
U.S. ARMY CORPS OF ENGINEERS
HYDROLOGIC ENGINEERING CENTER
609 SECOND STREET
DAVIS, CALIFORNIA 95616
(916) 551-1748

Grid of asterisks representing a map or data points.

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HBC-1 KNOWN AS HCL (JAN 73), HECIG, HECID, AND HECIN.
THE DEFINITIONS OF VARIABLES -RIMP- AND -RTOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.

MAPLE DUNES
6 HR - Q100 STORM
AFTER DEVELOPMENT OF MAPLE DUNES
11.9 AC FT STORAGE AVAILABLE W POUND 130.5 NWS TO 136.0
FILE: MAPLE1

HBC-1 INPUT PAGE 1. Table with columns: LINE, ID, and input parameters for MAPLE DUNES.

U.S. ARMY CORPS OF ENGINEERS
HYDROLOGIC ENGINEERING CENTER
609 SECOND STREET
DAVIS, CALIFORNIA 95616
(916) 551-1748
Maple Dunes
Pound Storage - Maple Dunes Developed
FILE: MAPLE 1
OUTPUT CONTROL VARIABLES
HYDROGRAPH TIME DATA
ENGLISH UNITS

OUTPUT CONTROL VARIABLES
IPRINT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCALE 0 HYDROGRAPH PLOT SCALE
IPRICE 0 PUNCH COMPUTED HYDROGRAPH
IOUT 21 SAVE HYDROGRAPH ON THIS UNIT
ISAV1 1 FIRST ORIGINATE PUNCHED OR SAVED
ISAV2 181 LAST ORIGINATE PUNCHED OR SAVED
TIMINT 0.033 TIME INTERVAL IN HOURS

OUTPUT CONTROL VARIABLES
IPRINT 5 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCALE 0 HYDROGRAPH PLOT SCALE
IPRICE 0 PUNCH COMPUTED HYDROGRAPH
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