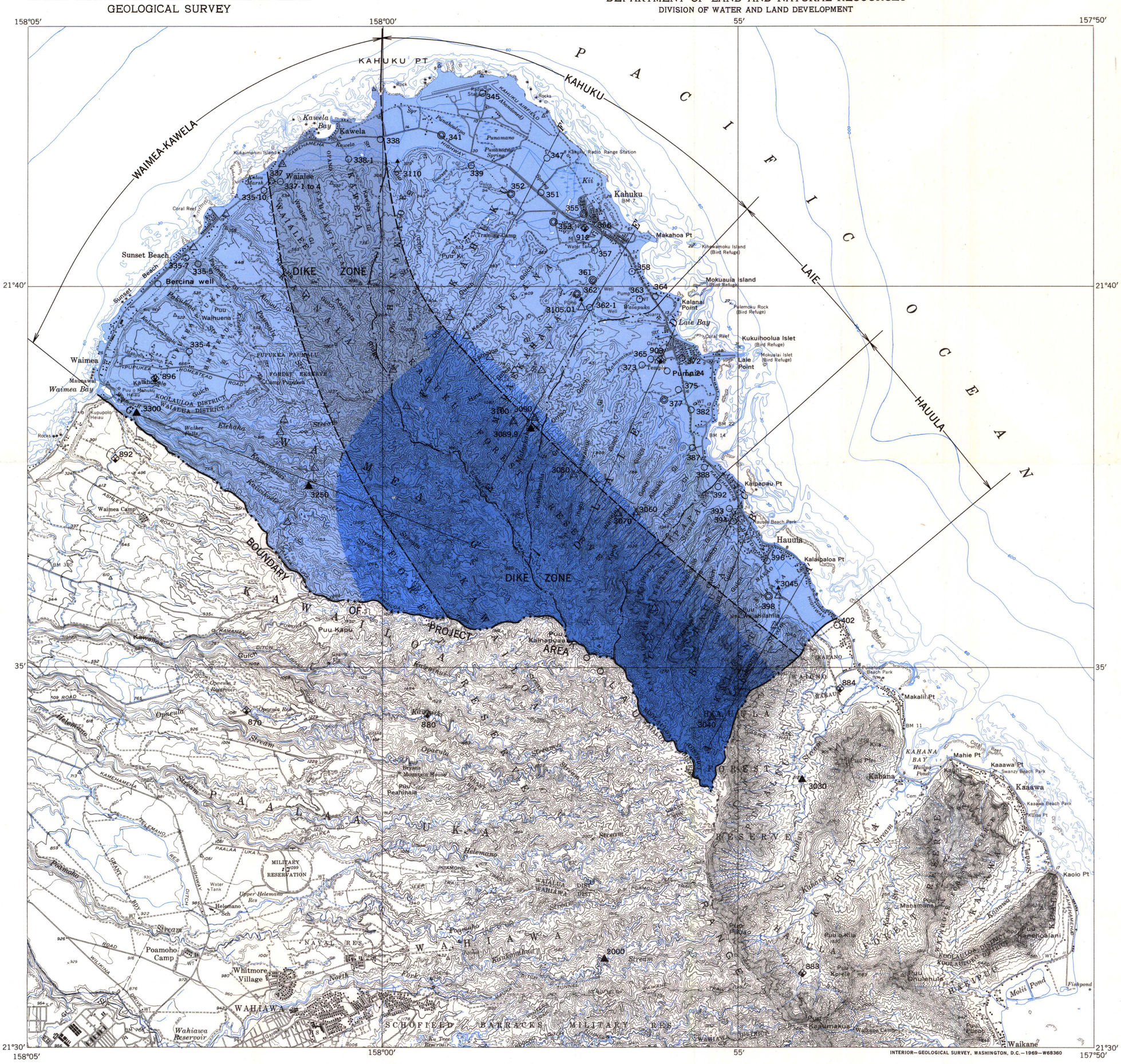
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

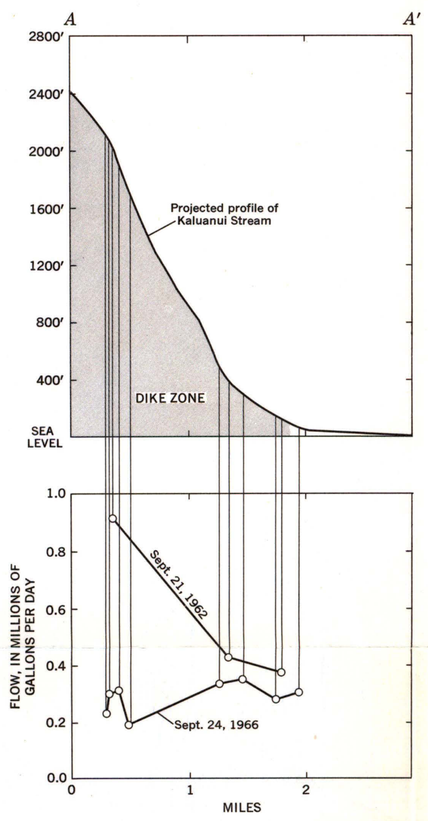
PREPARED IN COOPERATION WITH THE
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

WATER-SUPPLY PAPER 1874
PLATE 1

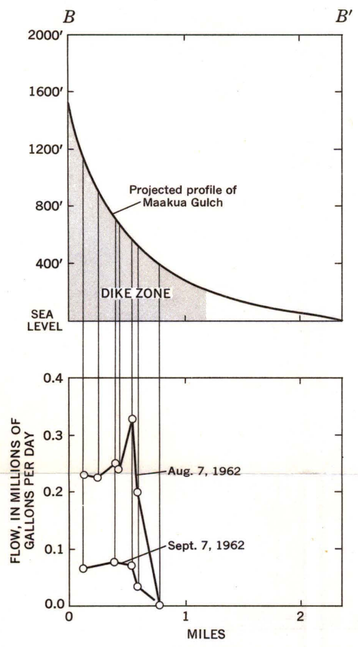


EXPLANATION

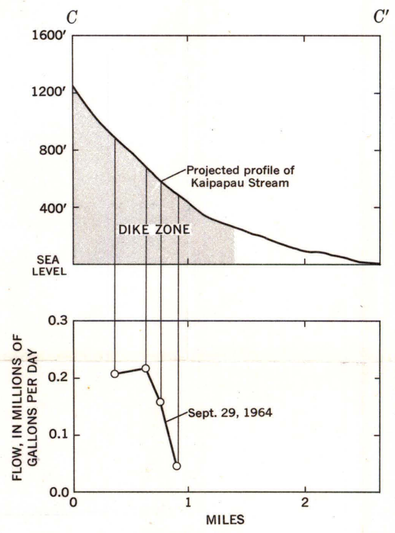
- Area where streams are perennial
- Area where streams lose most of their perennial flow by infiltration
- Area where streams are dry or intermittent
- 356 — Well and number
- 352 — Battery of wells at pumping plant and number
- 896 — Rain gage and number
- 3300 — Gaging station and number
- 3060 — Discontinued gaging station and number
- 3110 — Crest-stage gage and number
- Miscellaneous-measurement site
- Drainage divide
- Boundary of dike zone
- LAIE — Project subarea (*Includes drainage area outlined*)



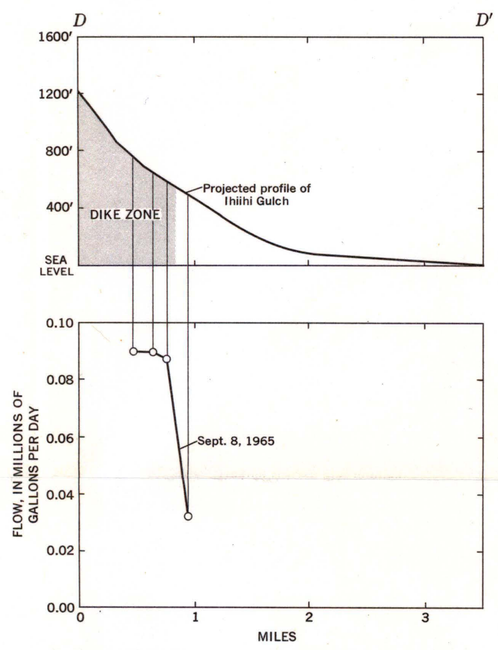
KALUANUI STREAM IS A LOSING STREAM WHEN DIKE-WATER LEVELS ARE AT DEPTH, AS THEY WERE IN SEPTEMBER 1962. MEASUREMENTS IN SEPTEMBER 1966 SUGGEST THAT LEVELS WERE SO HIGH THAT THE STREAM GAINED IN PART OF THE DIKE ZONE



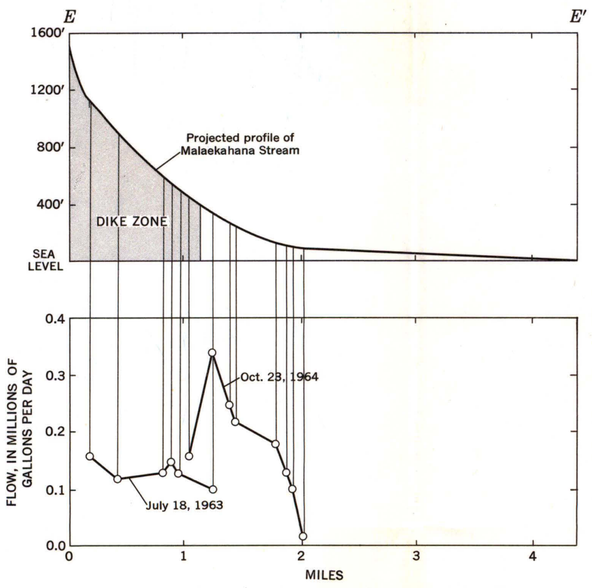
THE STREAM IN MAAKUA GULCH IS A LOSING STREAM BELOW AN ALTITUDE OF 600 FEET. DIKE-WATER LEVELS ARE AT OR NEAR THE SURFACE BETWEEN ALTITUDES OF 600 AND 800 FEET



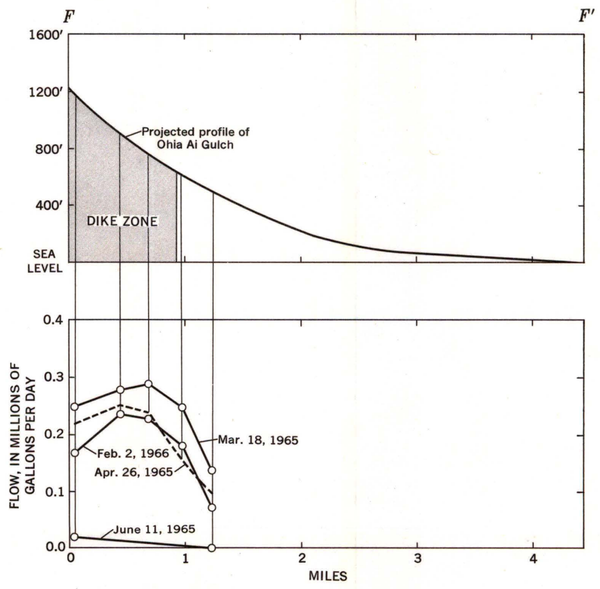
KAIPAPAU STREAM IS A LOSING STREAM BELOW AN ALTITUDE OF 700 FEET



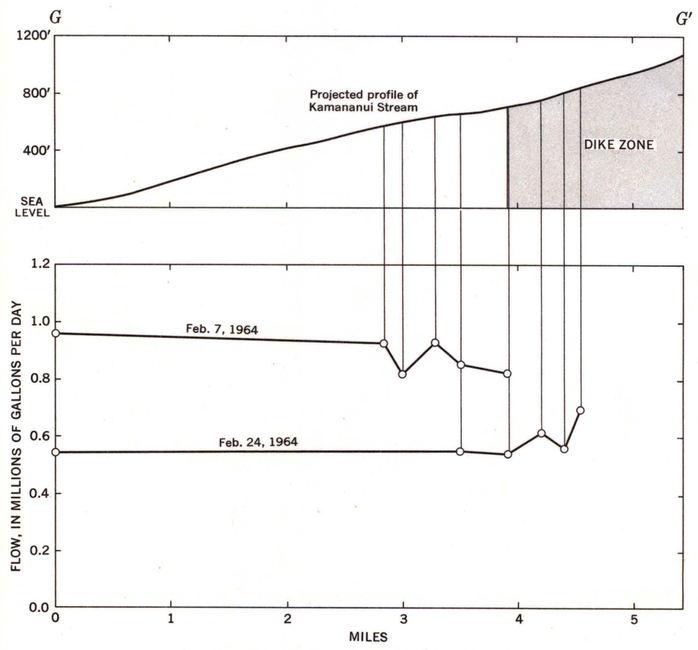
THE STREAM IN IHIIHI GULCH IS A LOSING STREAM BELOW AN ALTITUDE OF 600 FEET



MALAEKAHANA STREAM IS A LOSING STREAM BELOW AN ALTITUDE OF 400 FEET. DIKE-WATER LEVELS ARE AT OR NEAR THE SURFACE AT TIMES BETWEEN ALTITUDES OF 400 AND 600 FEET



THE STREAM IN OHIA AI GULCH IS A LOSING STREAM BELOW AN ALTITUDE OF 800 FEET. DIKE-WATER LEVELS ARE AT OR NEAR THE SURFACE BETWEEN ALTITUDES OF 800 AND 1,000 FEET



KAMANANUI STREAM IS PROBABLY A LOSING STREAM BELOW AN ALTITUDE OF 800 FEET. STREAM CHANNEL OUTSIDE OF DIKE ZONE CUTS THICK LAVA FLOWS, WHICH PROBABLY ACCOUNTS FOR POOR INFILTRATION OF STREAMFLOW

HYDROLOGIC MAP OF THE KAHUKU AREA, OAHU, HAWAII