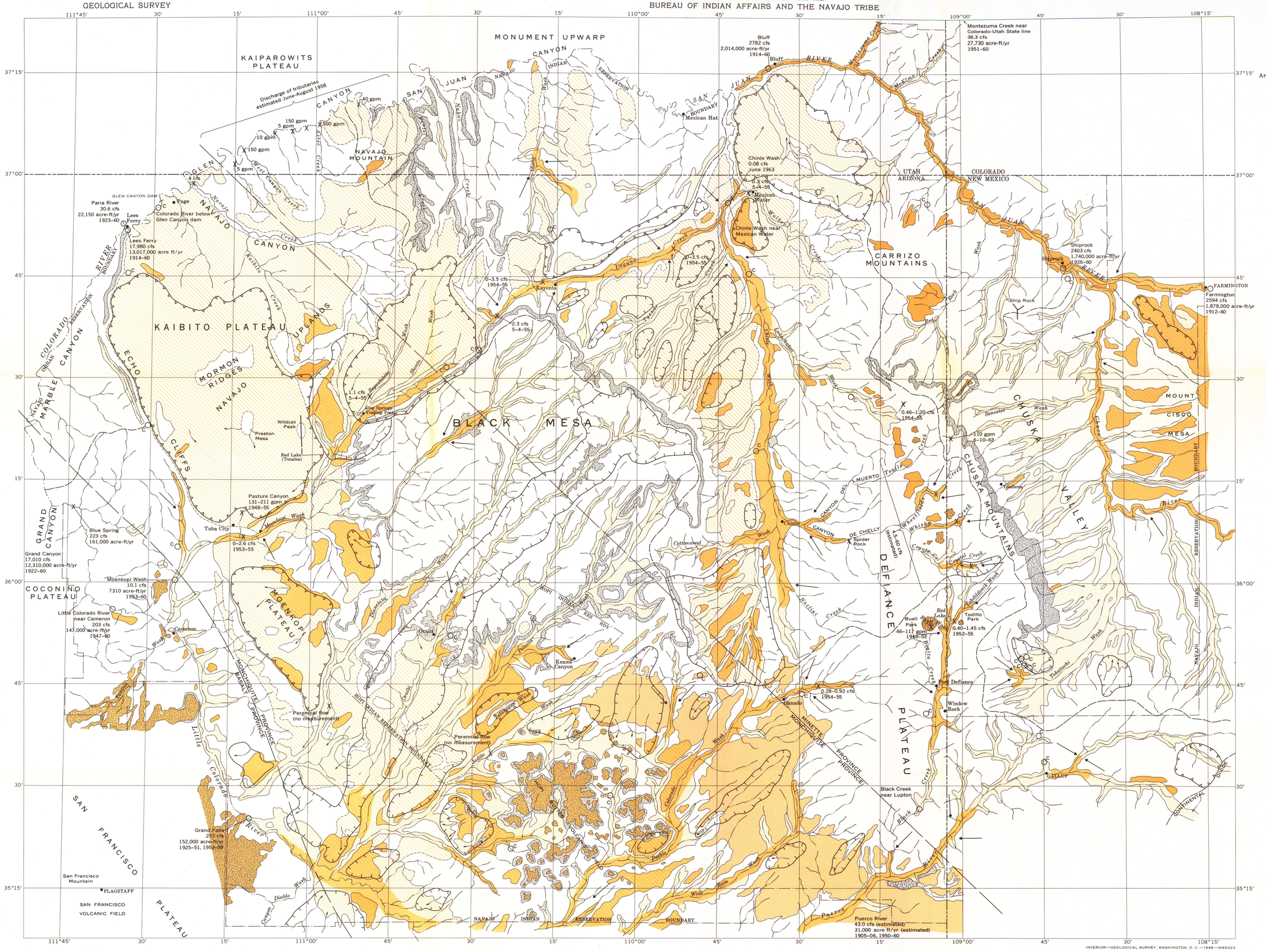
PREPARED IN COOPERATION WITH THE
BUREAU OF INDIAN AFFAIRS AND THE NAVAJO TRIBE



Base compiled from uncontrolled aerial photograph mosaics by the Bureau of Indian Affairs, during the 1930's. Later modifications by the U.S. Geological Survey

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1968—W65423

Surficial deposits and drainage divides by M. E. Cooley, 1955; outcrops of volcanic rocks from plate 1

EXPLANATION

SURFICIAL DEPOSITS

- Area where the alluvium is water bearing
- Area where the alluvium generally is not water bearing
- Eolian deposits
- Eolian and terrace deposits undifferentiated
- Terrace deposits
- Landslide deposits
- Terrace deposits, eolian deposits, and upper member of the Pliocene Bidachochi Formation undifferentiated
- Volcanic rocks

Contact
Dashed where inferred

Boundary of volcanic provinces

Dike

Area where the alluvium is recharged from other aquifers

Area of external drainage only during time of high streamflow

Area of no external drainage

Drainage divide

2403 cfs
1,740,000 acre-ft/yr
1926–60

Stream-gaging station
Showing mean discharge

C

Crest-stage gage

150 gpm

Perennial flow
Number indicates measurement or estimate of discharge in gallons per minute, gpm *or cubic feet per second,* cfs

Perennial stream

Ephemeral stream

MAP SHOWING SURFICIAL DEPOSITS, VOLCANIC PROVINCES, INTERNALLY DRAINED AREAS, STREAMFLOW DATA, AND OCCURRENCE OF WATER IN THE ALLUVIUM IN THE NAVAJO AND HOPI INDIAN RESERVATIONS, ARIZONA, NEW MEXICO, AND UTAH

SCALE 1:500 000

10 0 10 20 30 40 50 MILES

10 0 10 20 30 40 50 KILOMETERS