UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
IDAHO DEPARTMENT OF HIGHWAYS,
THE IDAHO DEPARTMENT OF WATER ADMINISTRATION,
AND THE U.S. FOREST SERVICE

WATER RESOURCES INVESTIGATIONS 7-73

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Gaging-Station-Numbering System

Each gaging station and partial-record station has been assigned a number in downstream order in accordance with the permanent numbering system used by the Geological Survey. Numbers are assigned in a downstream direction along the main stream, and stations on tributaries between main-stream stations are numbered in the order they enter the main stream. A similar order is followed on other ranks of tributaries. The complete 8-digit number, such as 13038900 includes the part number "13" plus a 6-digit station number. Only the 6-digit station number is shown in this illustration.

Summary of regression equations by region for peak discharges in Idaho.

Region	Regression equation for Q_{10}	Standard error of estimate (percent)	Q_{25}/Q_{10} ratio	Q_{50}/Q_{10} ratio
1	$Q_{10} = 49.8\ A^{0.862}$	41	1.3	1.5
2	$Q_{10} = 66.5\ A^{0.801}{}_{F}{}^{-0.236}$	61	1.3	1.5
3	$Q_{10} = 3.81\ A^{0.875}{}_{F}{}^{-0.216}{}_{N}{}^{2.02}$	51	1.3	1.5
4	$Q_{10} = 43.4\ A^{0.857}{}_{F}{}^{-0.210}$	62	1.4	1.8
5	$Q_{10} = 13.0\ A^{0.918}$	61	1.3	1.5
6	$Q_{10} = 188\ A^{0.873}{}_{La}{}^{0.773}{}_{N}{}^{-1.82}$	41	1.2	1.3
7	$Q_{10} = 20.6\ A^{0.806}{}_{W}{}^{-1.05}$	59	1.2	1.4
8	$Q_{10} = 193\ A^{0.758}{}_{F}{}^{0.222}{}_{N}{}^{-4.25}$	45	1.4	1.7

EXPLANATION

A = Drainage area in square miles.
F = Percentage of forest cover plus 1 percent.
La = Percentage of area of lakes and ponds on the basin plus 1 percent.
N = Latitude of centroid of basin in degrees minus 40 degrees.
W = Longitude of centroid of basin in degrees minus 110 degrees.

EXPLANATION

Part 13
River basin boundary and number

Region boundary

4
Region number

Boundary of undefined area (hatchered area)

Known gaining stream reach

Known losing stream reach

Irrigated area

Gaging stations

▲128900
Active station and number

△303000
Discontinued station and number

■317200
Active crest-stage station and number

□312000
Discontinued crest-stage station and number

●172666
Active station and number operated by Agricultural Research Service

Parts and numbers are those permanently assigned in Geological Survey system and used in this report.

FIGURE 1.--MAP OF IDAHO SHOWING LOCATIONS OF GAGING STATIONS USED IN THE ANALYSES, REGIONS, AND SOME AREAS AND STREAMS FOR WHICH REGRESSION EQUATIONS DO NOT APPLY.

Base from U.S. Geological Survey
1:500,000