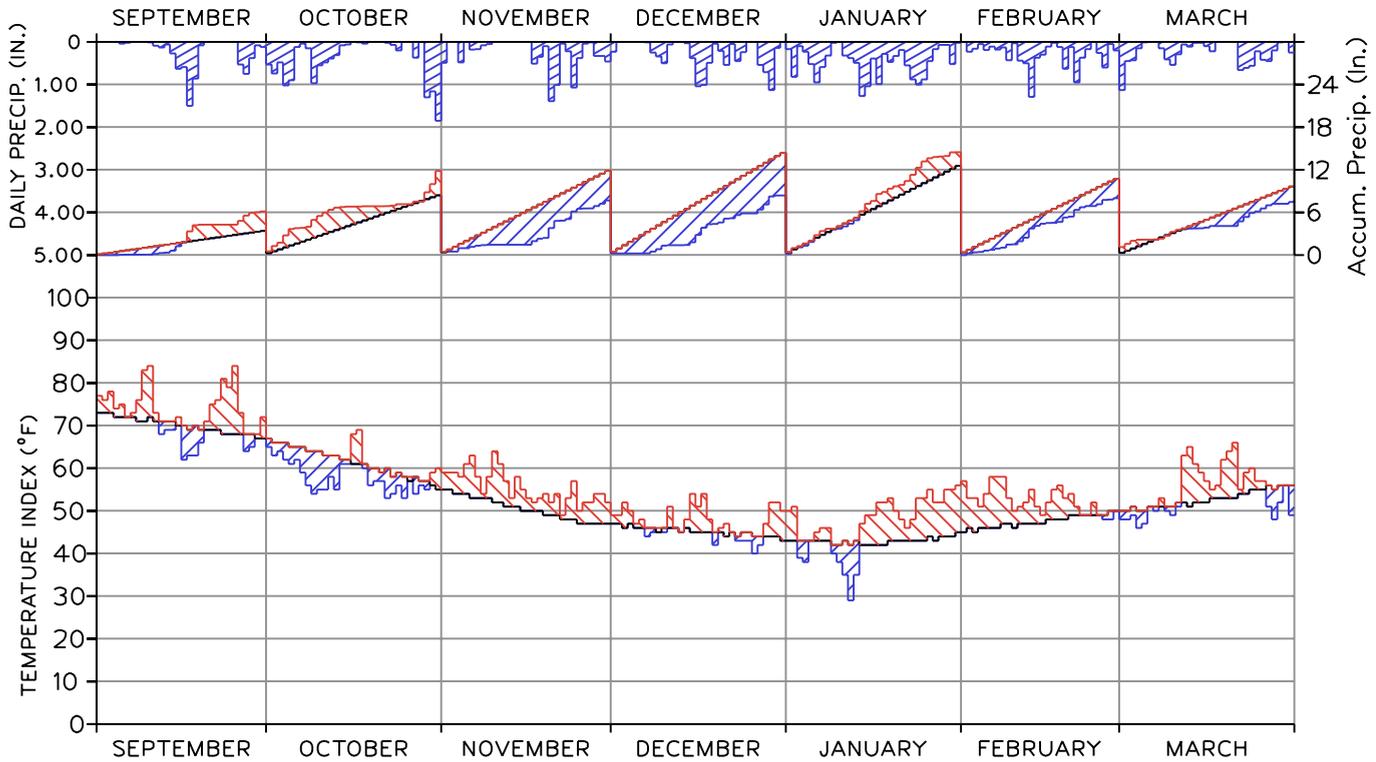
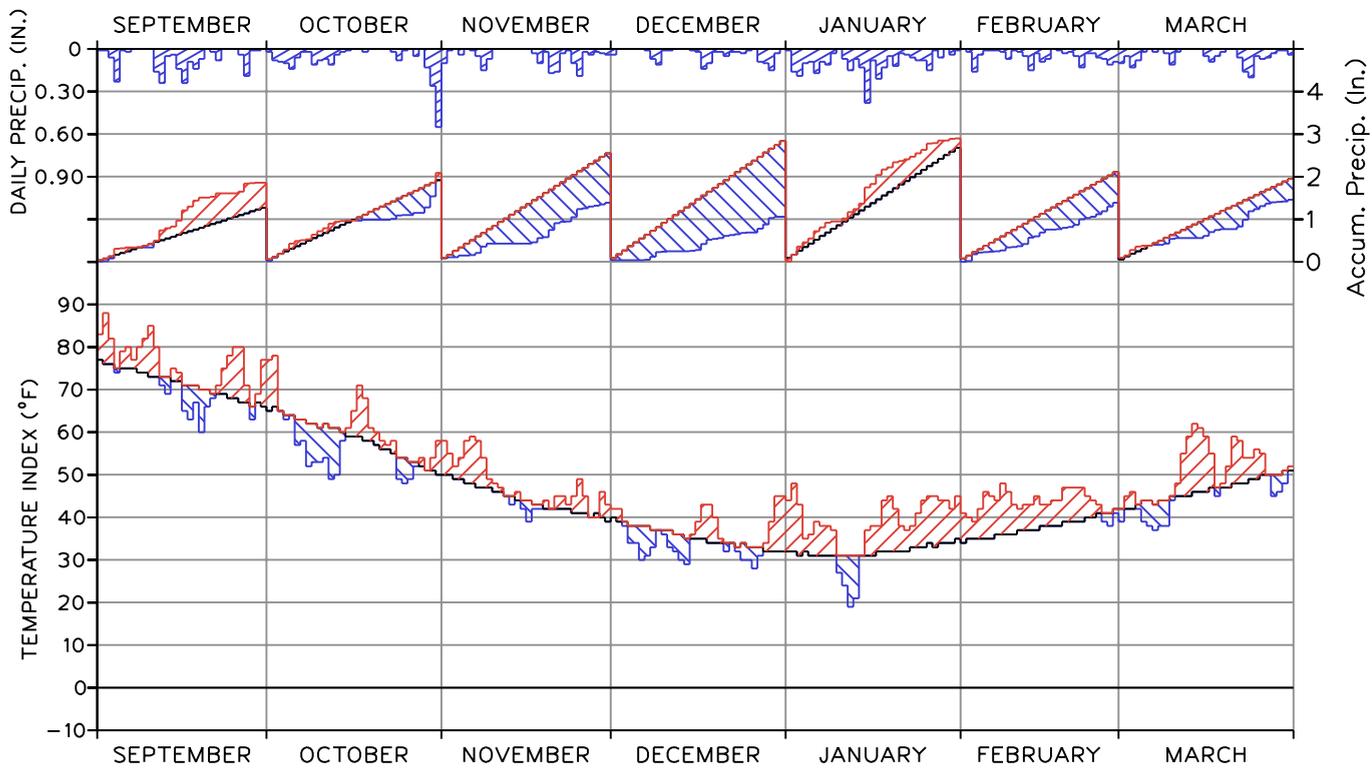


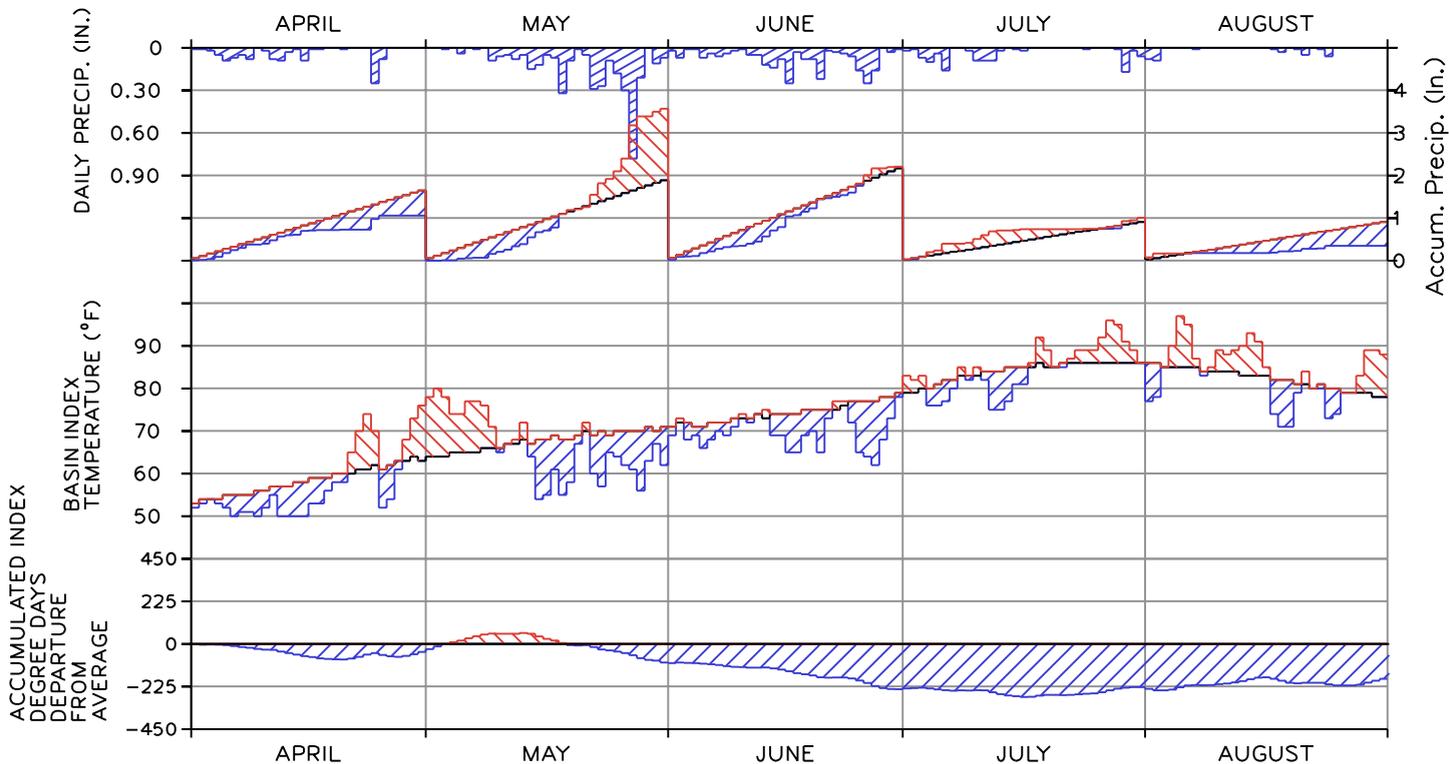
WINTER SEASON CHART 1
 TEMPERATURE AND PRECIPITATION INDEX 1997-1998
 WESTERN WASHINGTON



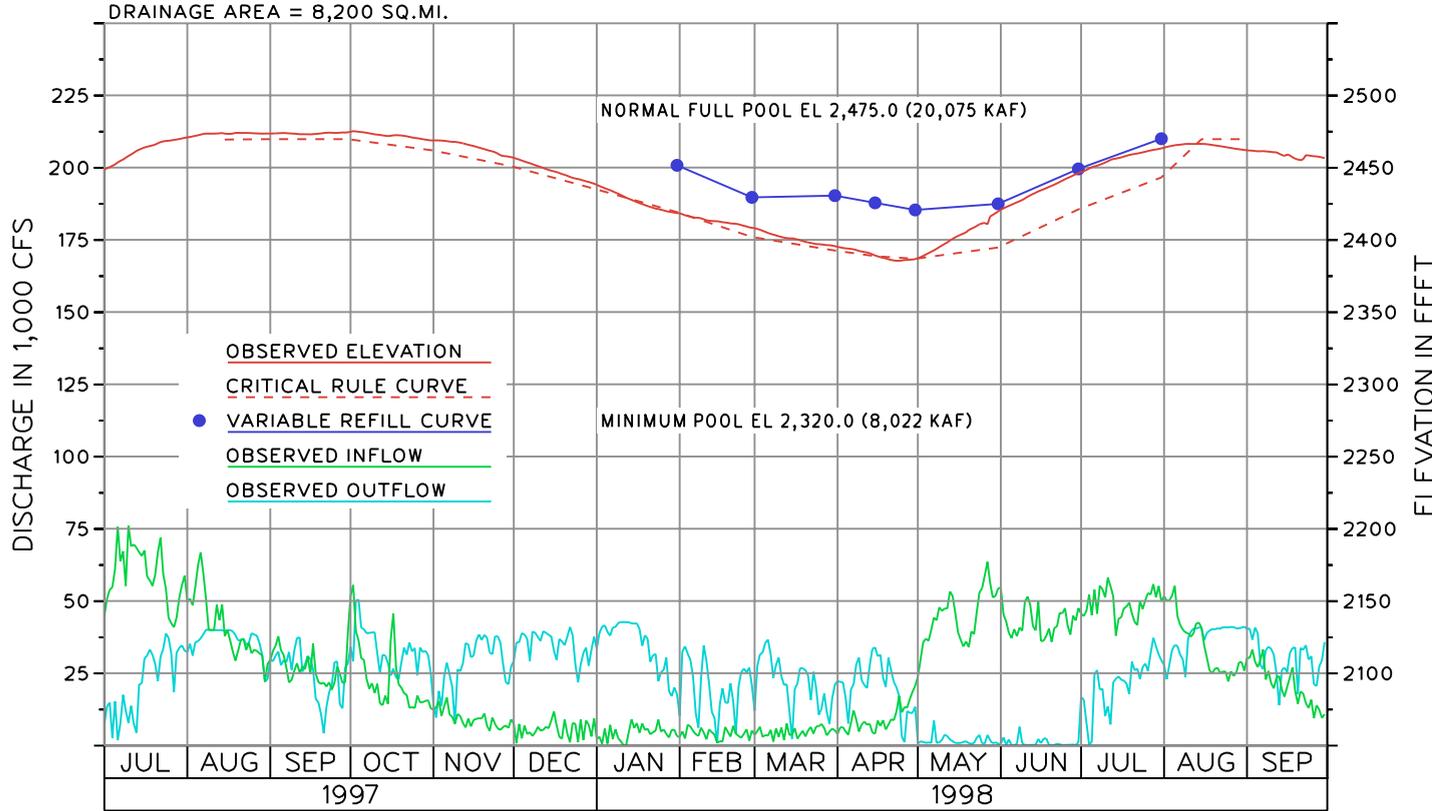
WINTER SEASON CHART 2
 TEMPERATURE AND PRECIPITATION INDEX 1997-1998
 WESTERN OREGON



WINTER SEASON CHART 3
 TEMPERATURE AND PRECIPITATION INDEX 1997-1998
 COLUMBIA RIVER BASIN ABOVE THE DALLES, OR

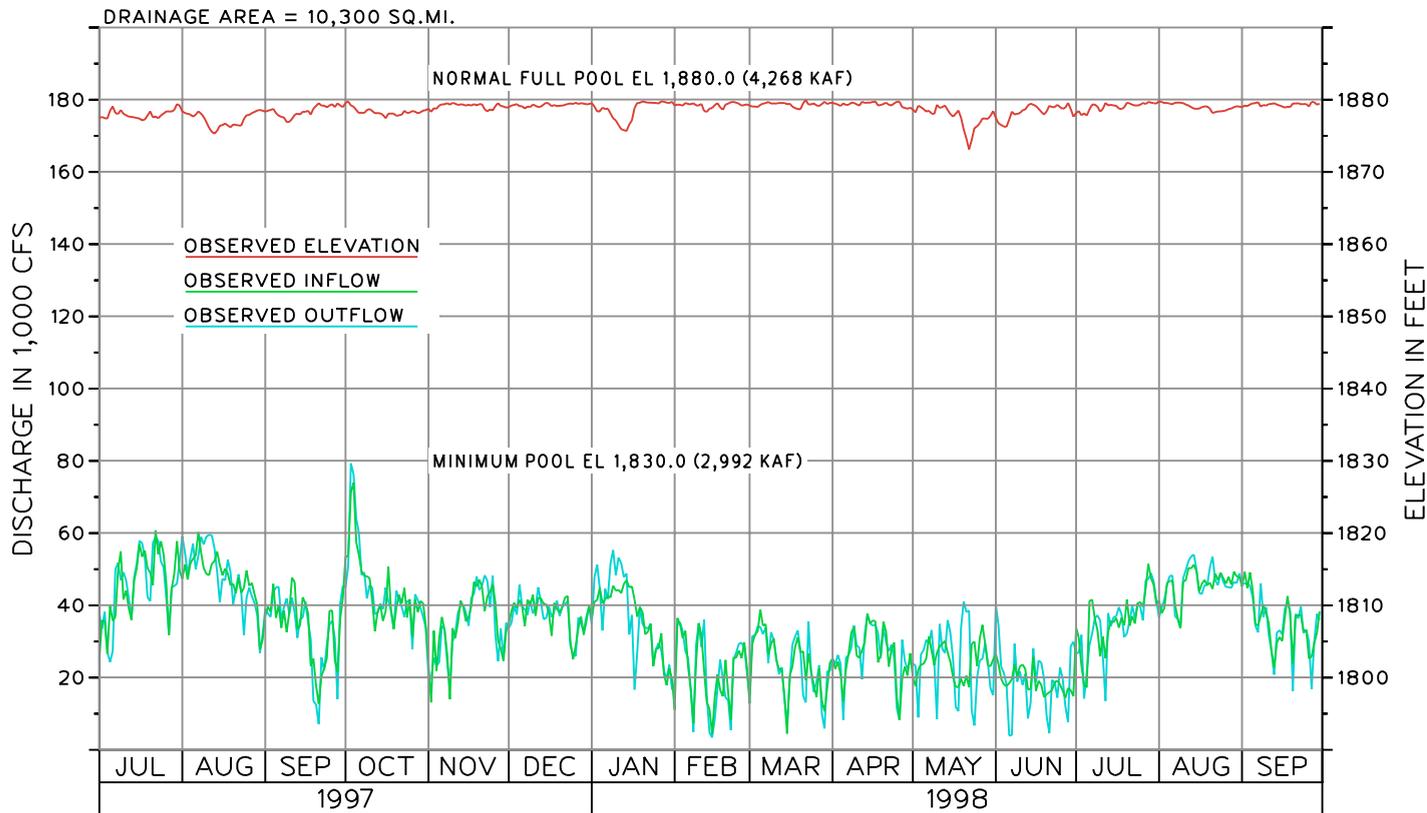


1998 SNOWMELT SEASON CHART 4
 TEMPERATURE AND PRECIPITATION INDEX
 COLUMBIA RIVER BASIN ABOVE THE DALLES, OR



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 COLUMBIA RIVER AT MICA PROJECT, BRITISH COLUMBIA

Chart 5



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 COLUMBIA RIVER AT REVELSTOKE PROJECT, BRITISH COLUMBIA

Chart 6

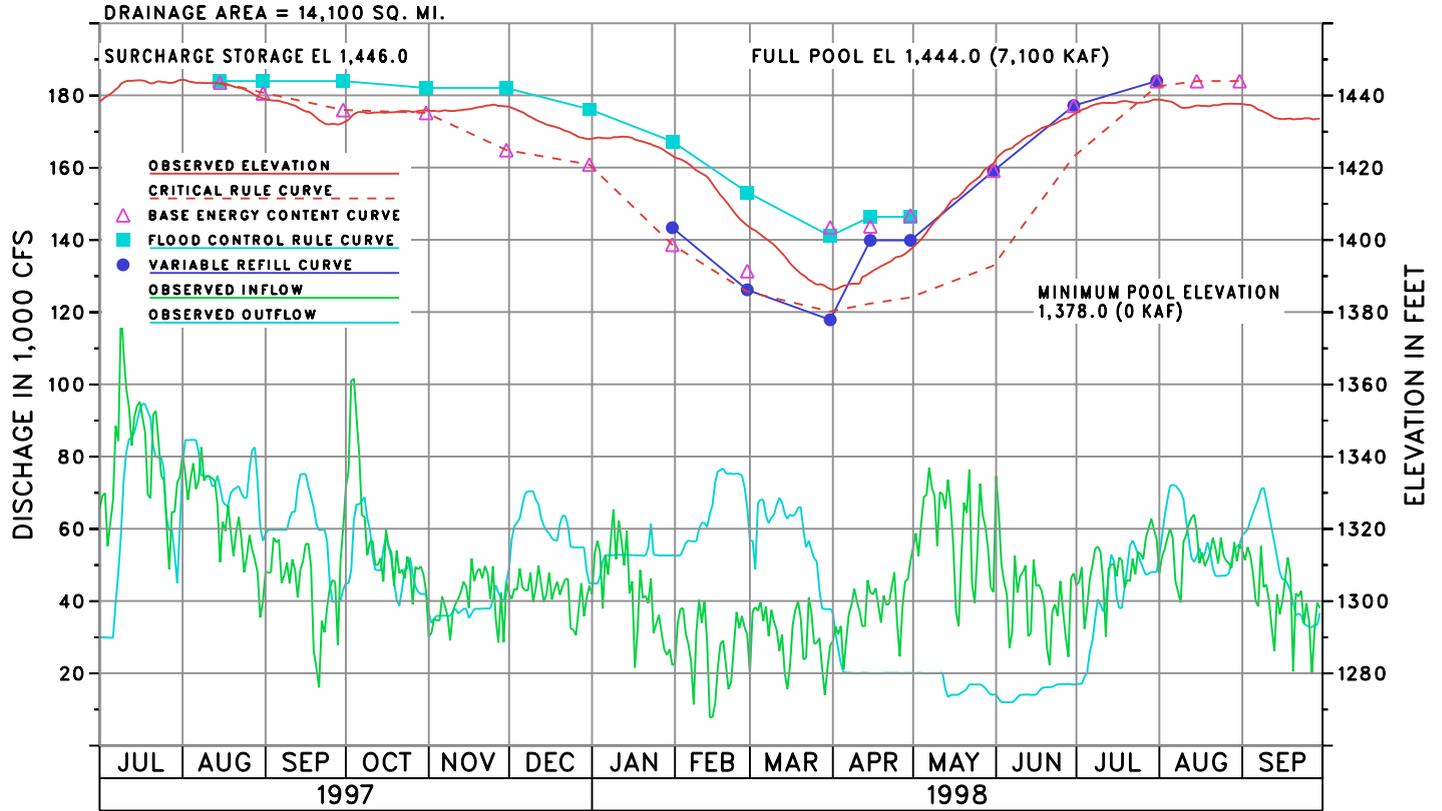


Chart 7

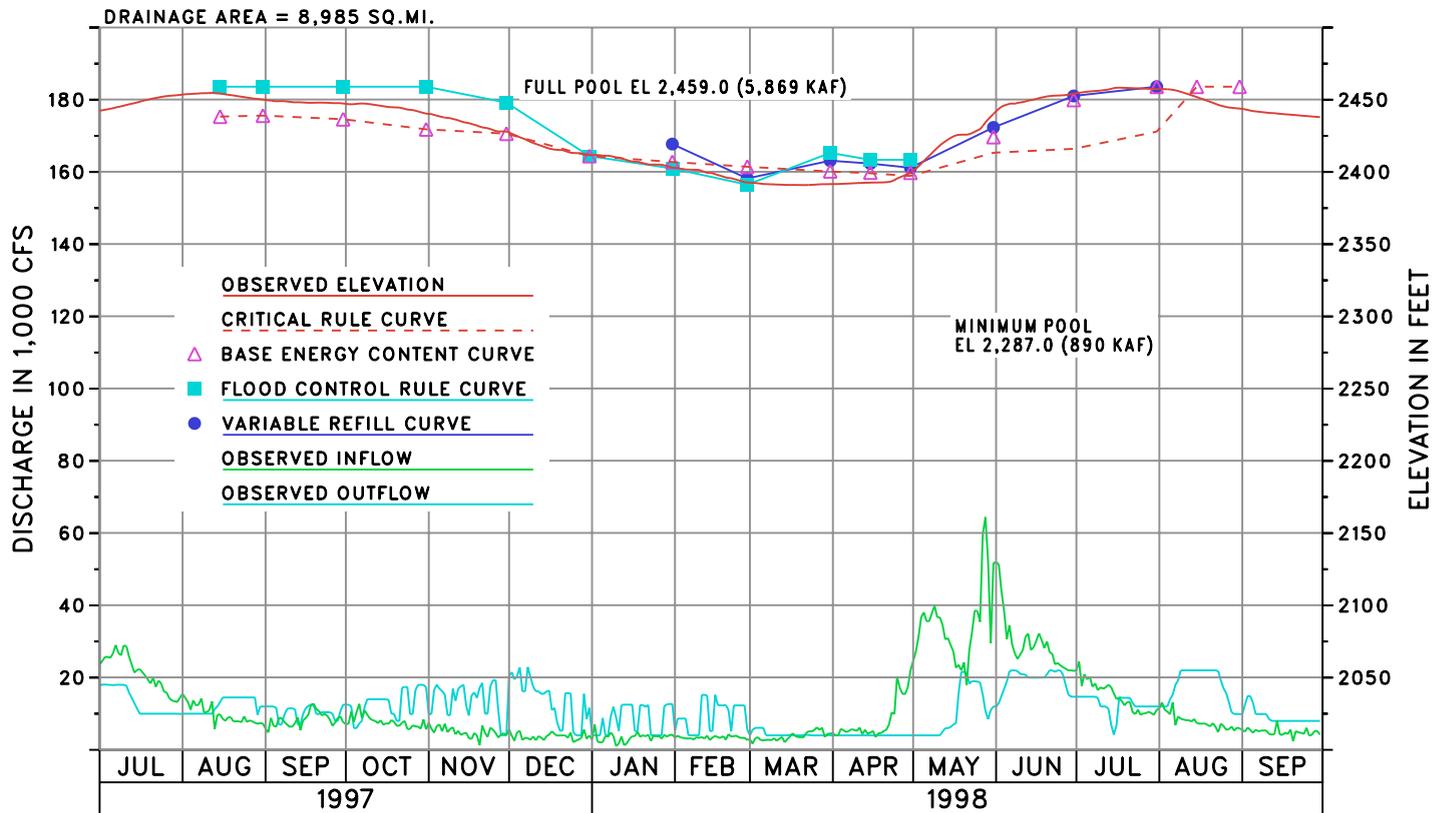
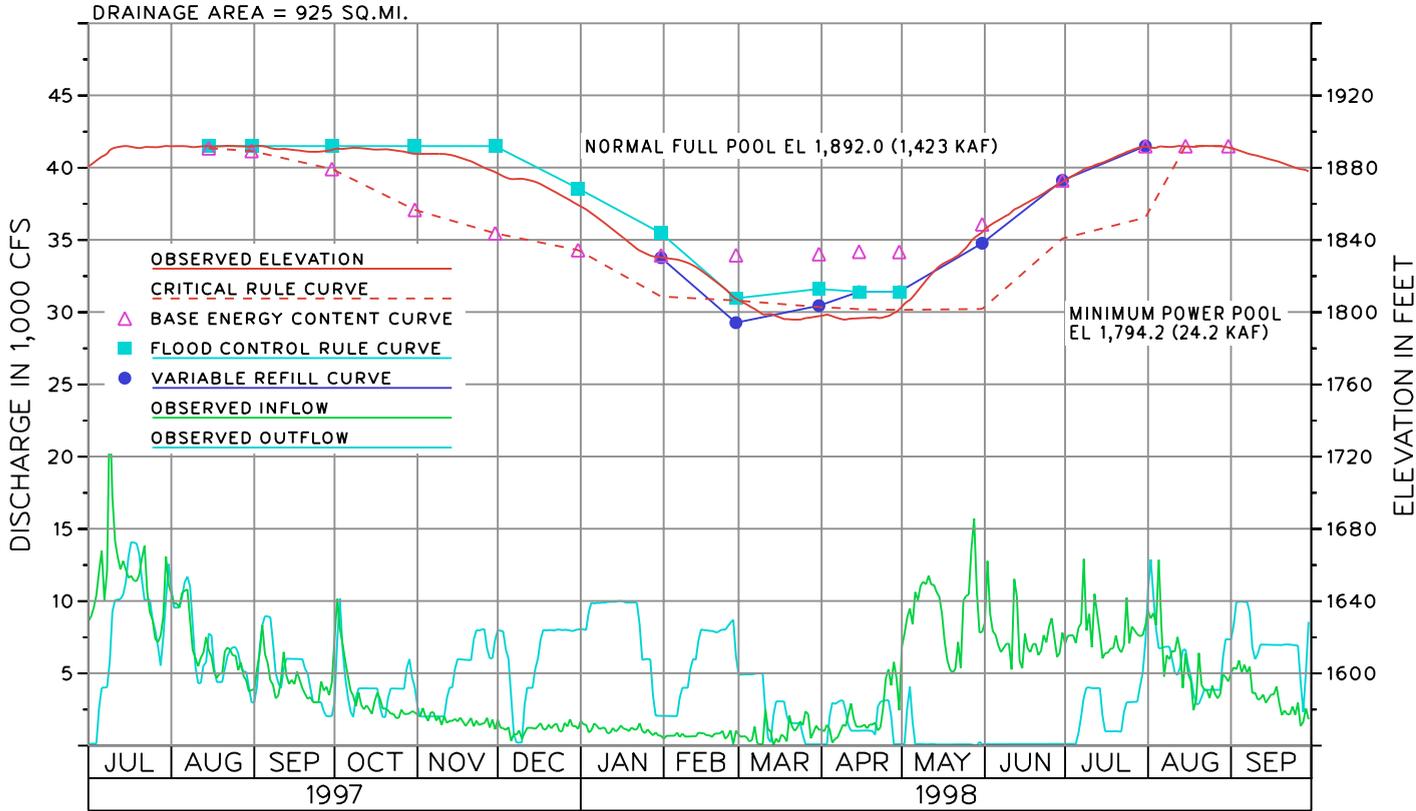
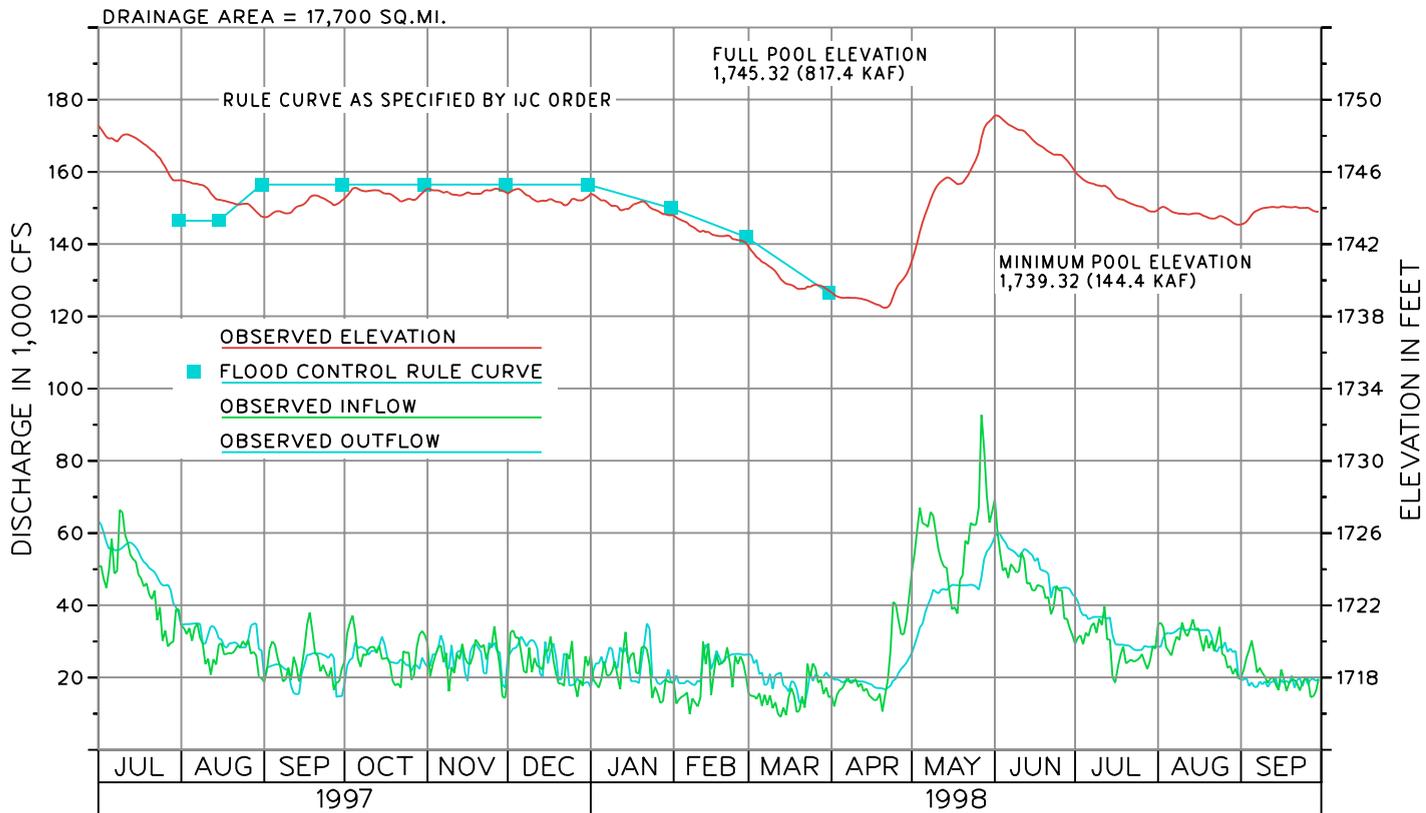


Chart 8



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 DUNCAN RIVER AT DUNCAN PROJECT, BRITISH COLUMBIA

Chart 9



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 KOOTENAY RIVER AT KOOTENAY LAKE, BRITISH COLUMBIA

Chart 10

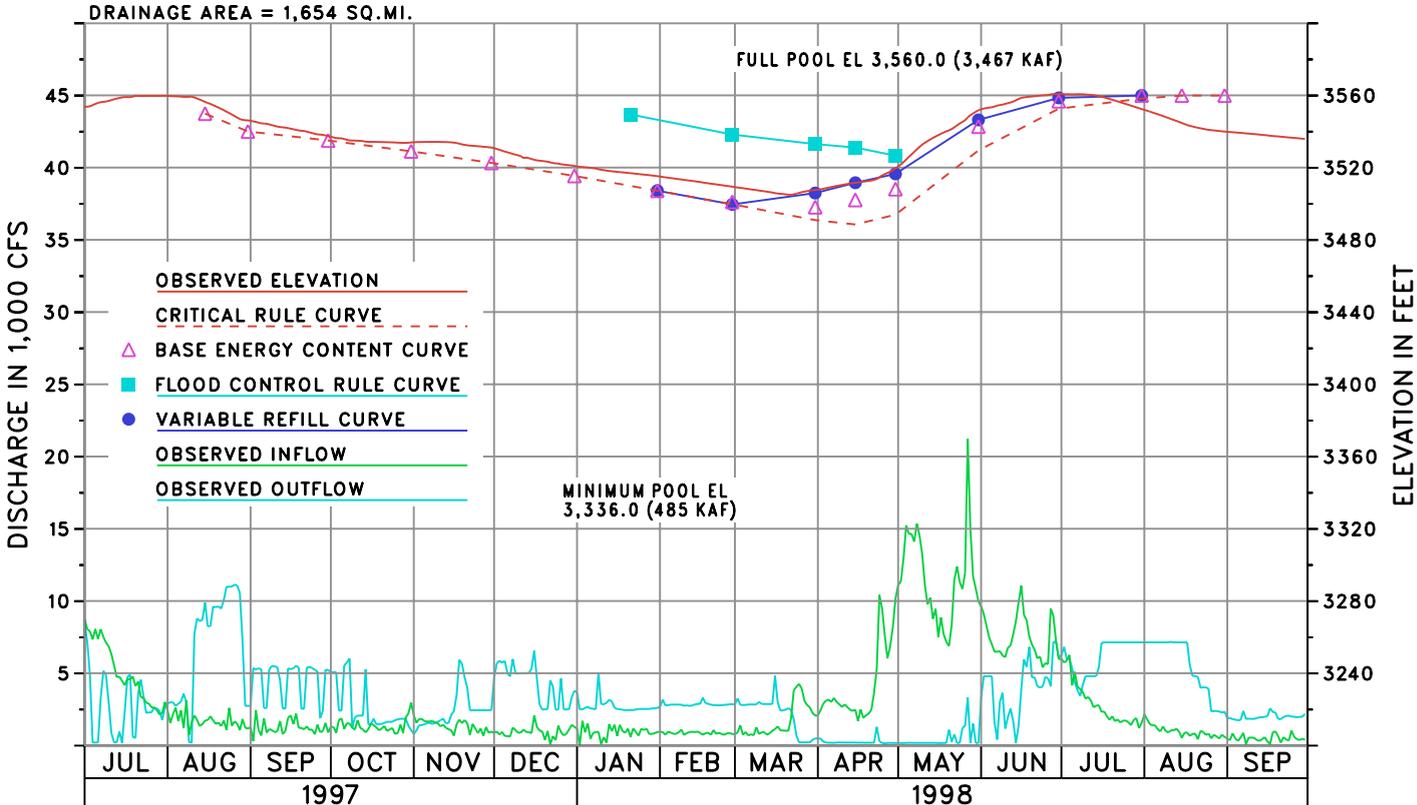


Chart 11

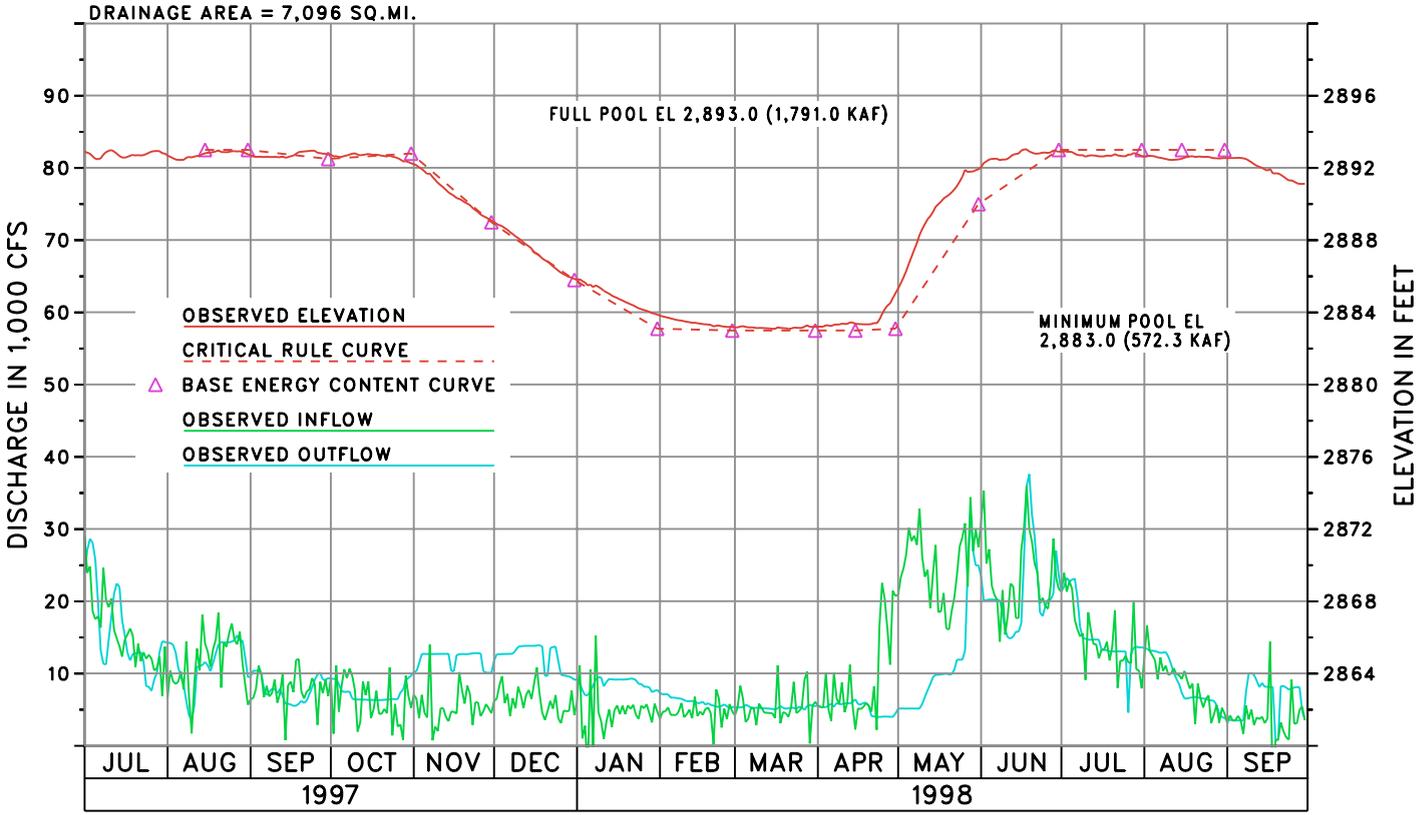
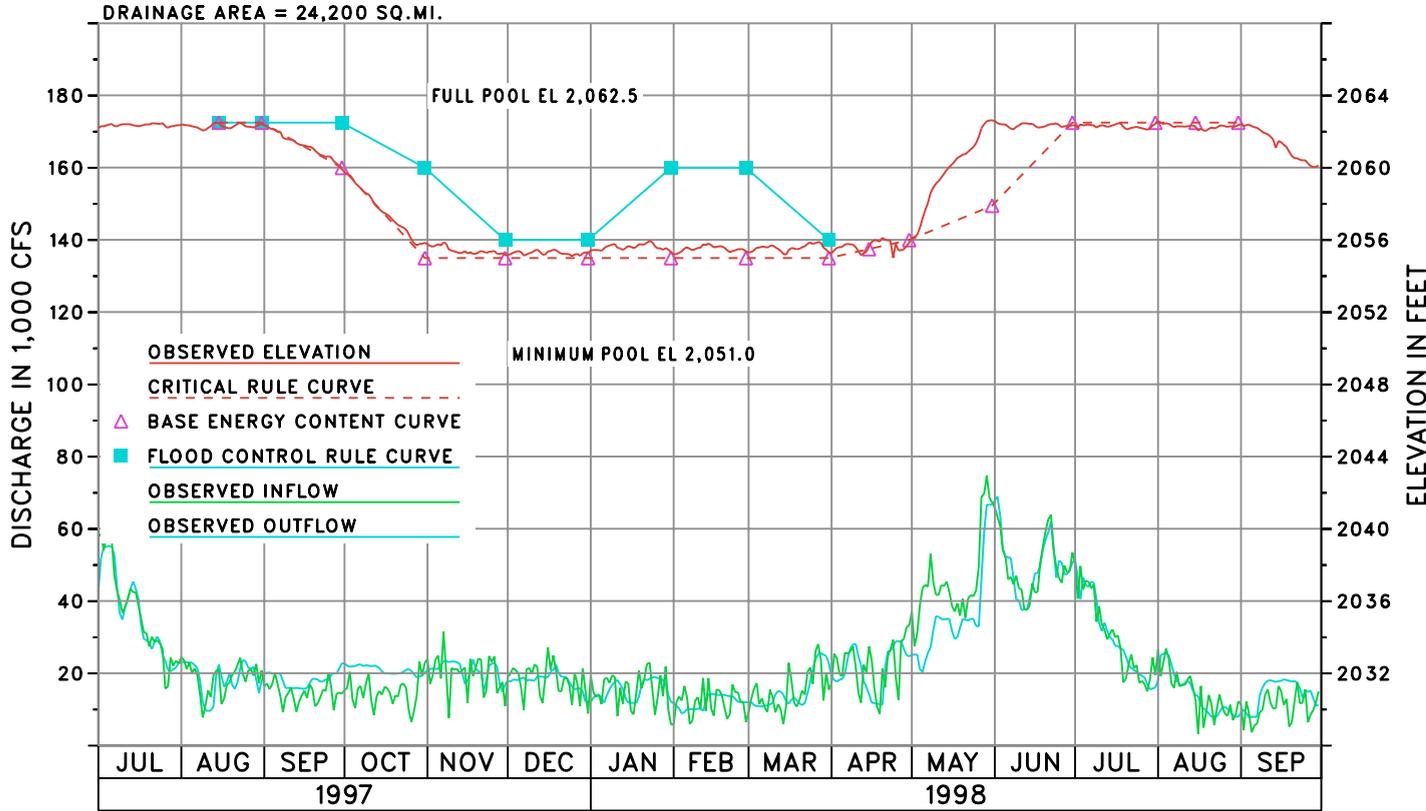
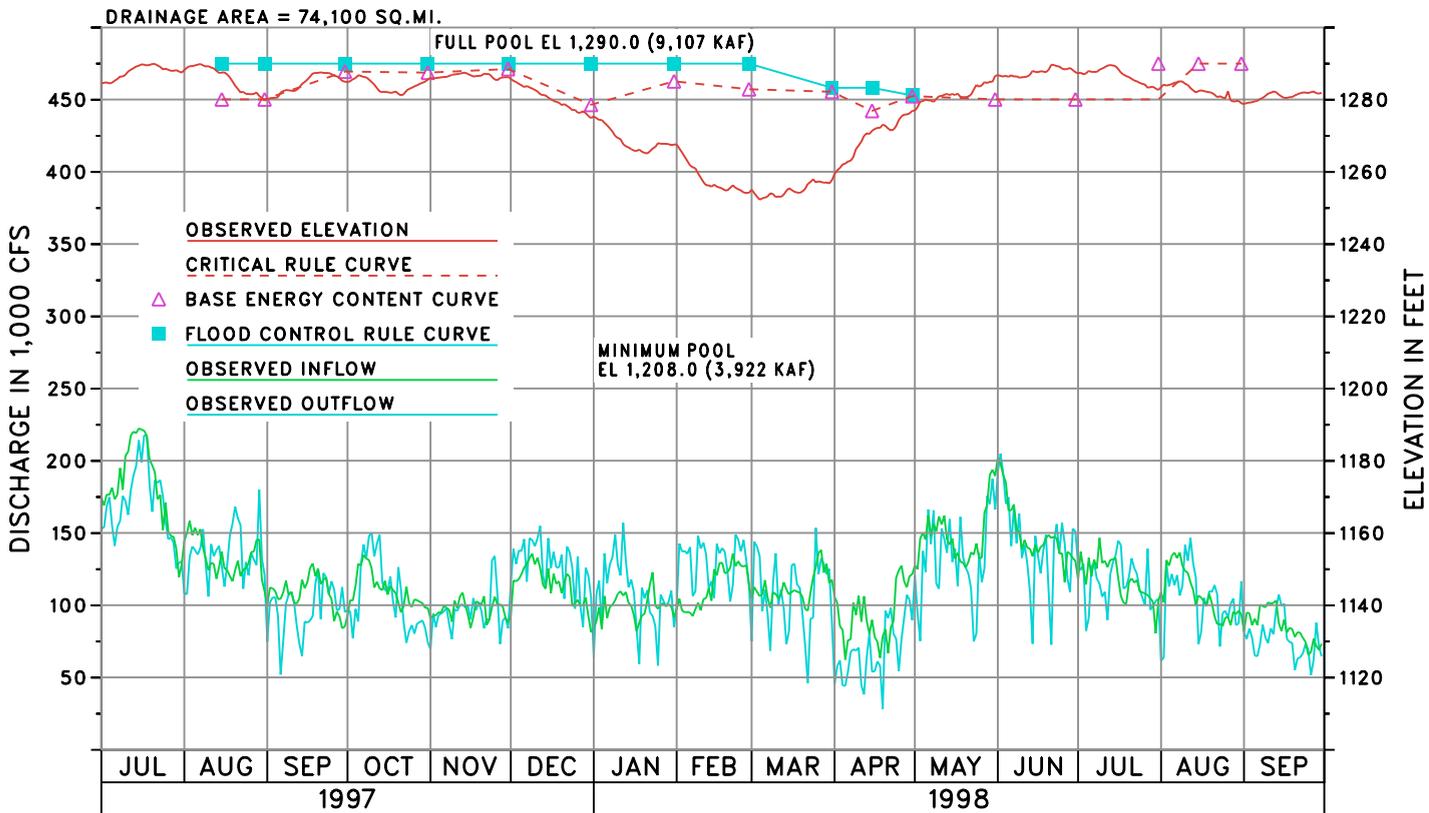


Chart 12



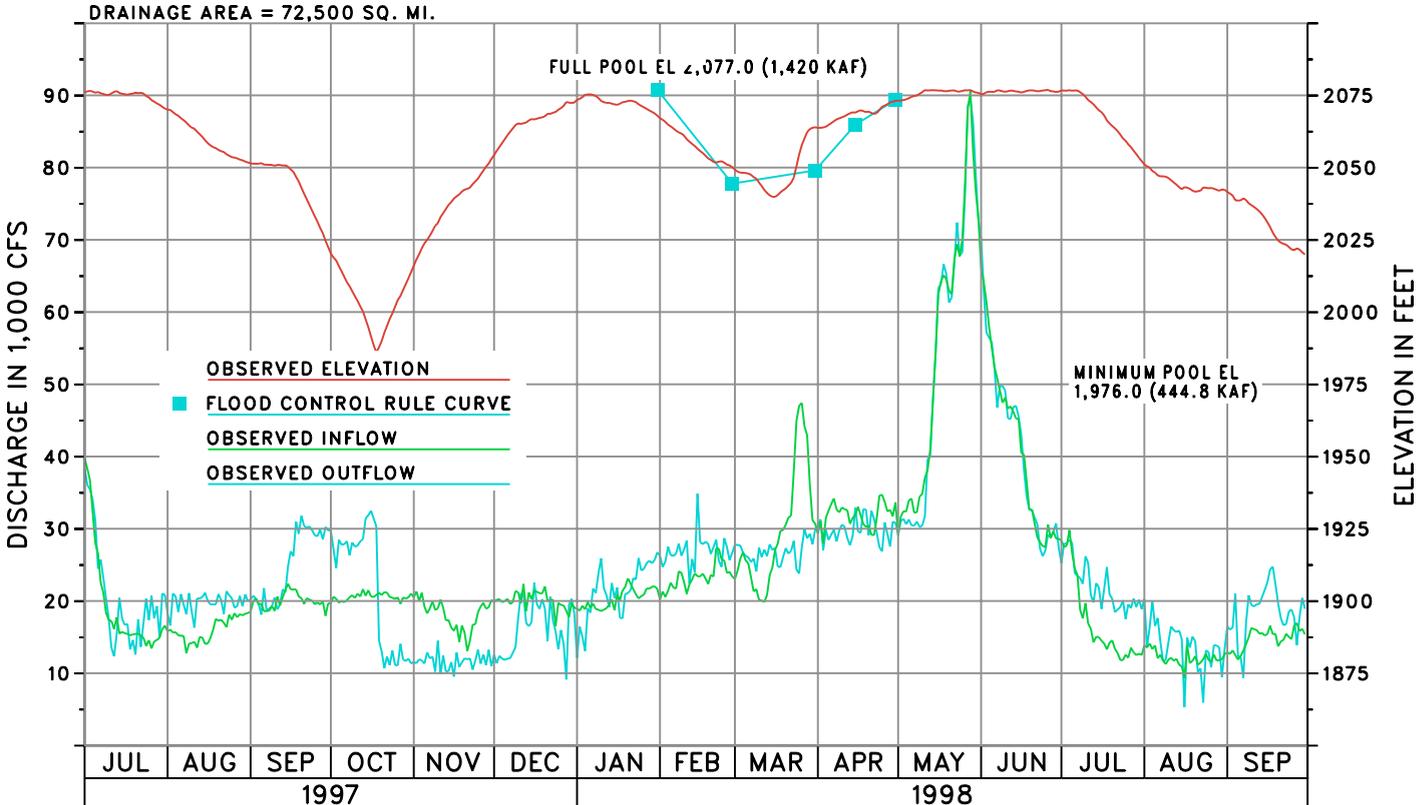
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 PEND OREILLE RIVER AT PEND OREILLE LAKE, IDAHO

Chart 13



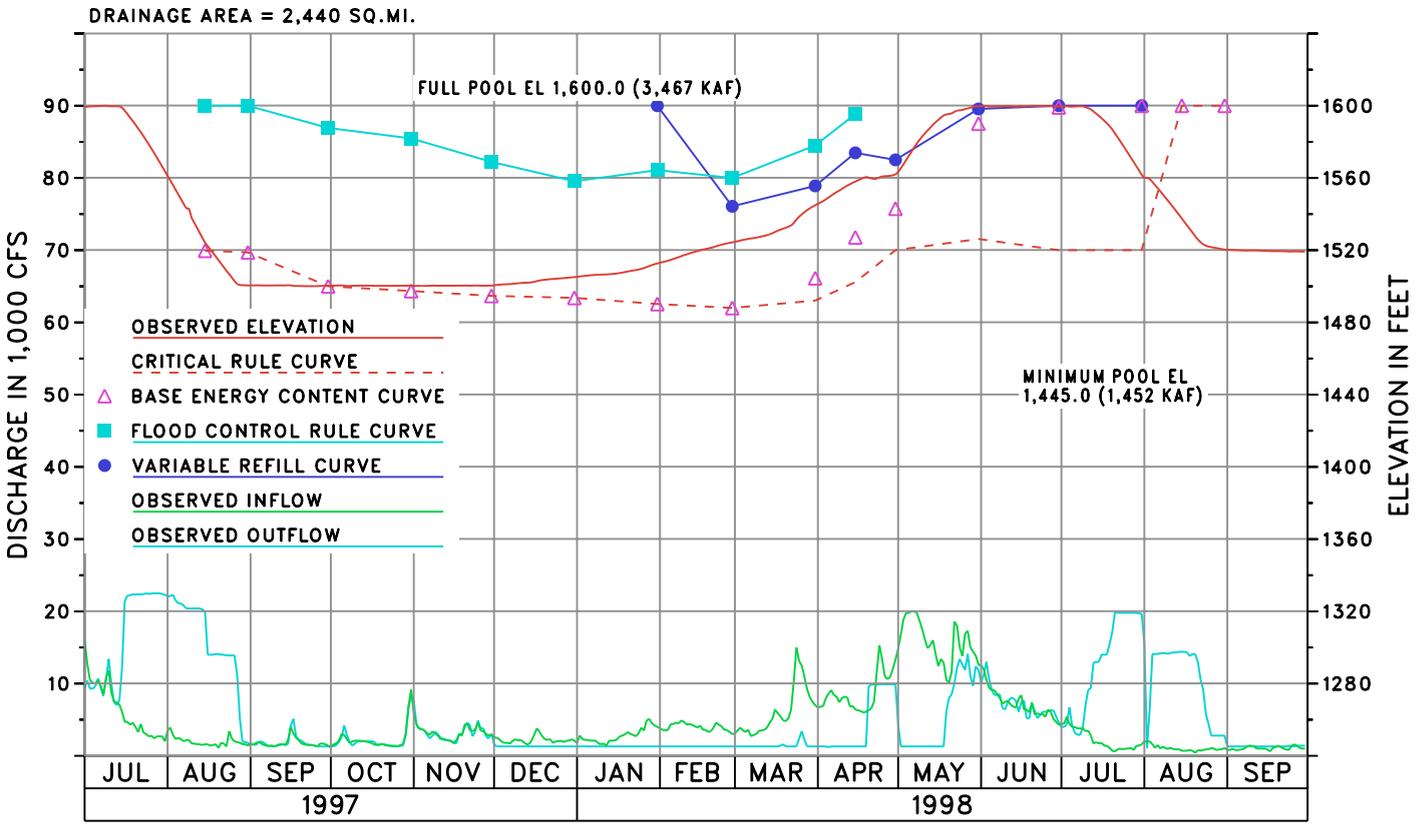
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 COLUMBIA RIVER AT GRAND COULEE PROJECT, WASHINGTON

Chart 14



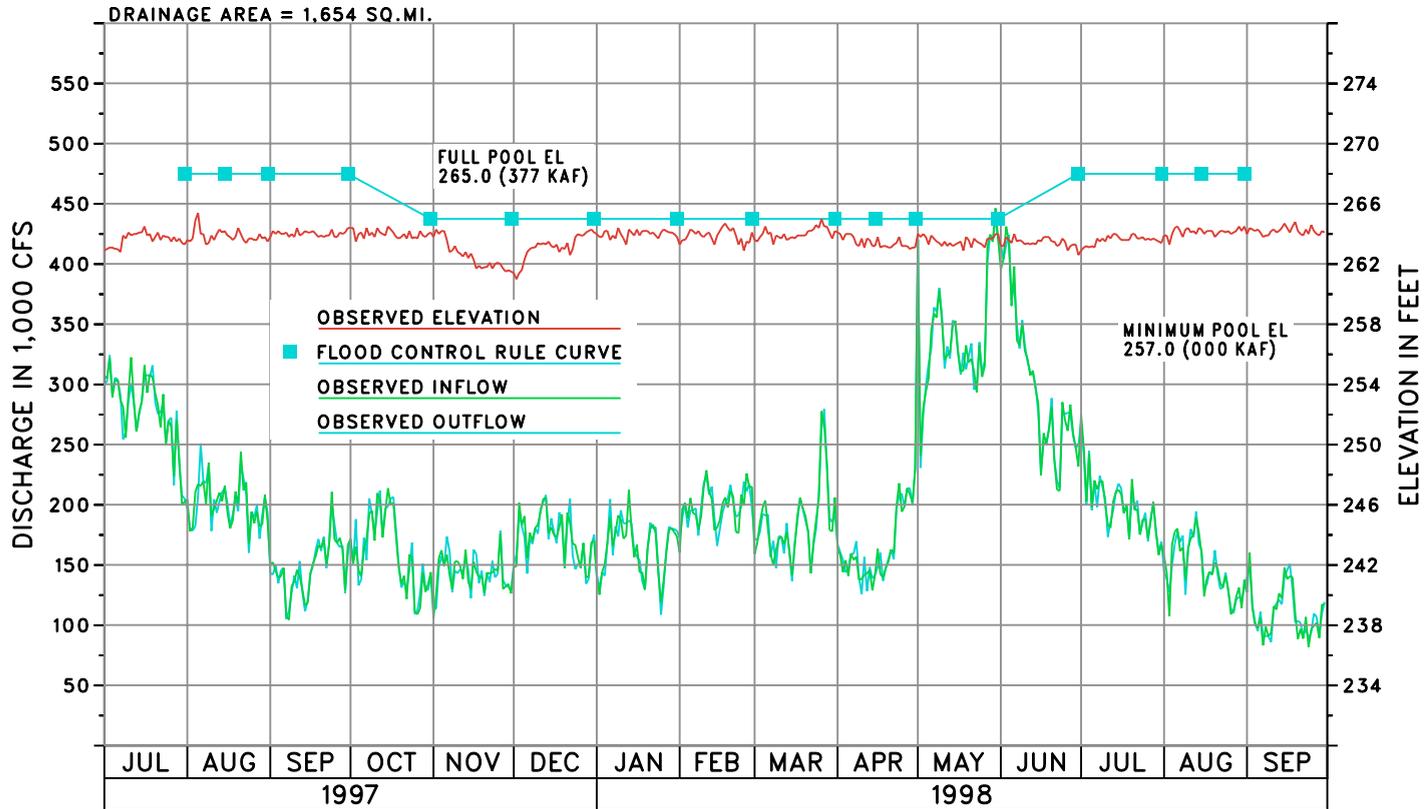
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SNAKE RIVER AT BROWNLEE PROJECT, IDAHO - OREGON

Chart 15



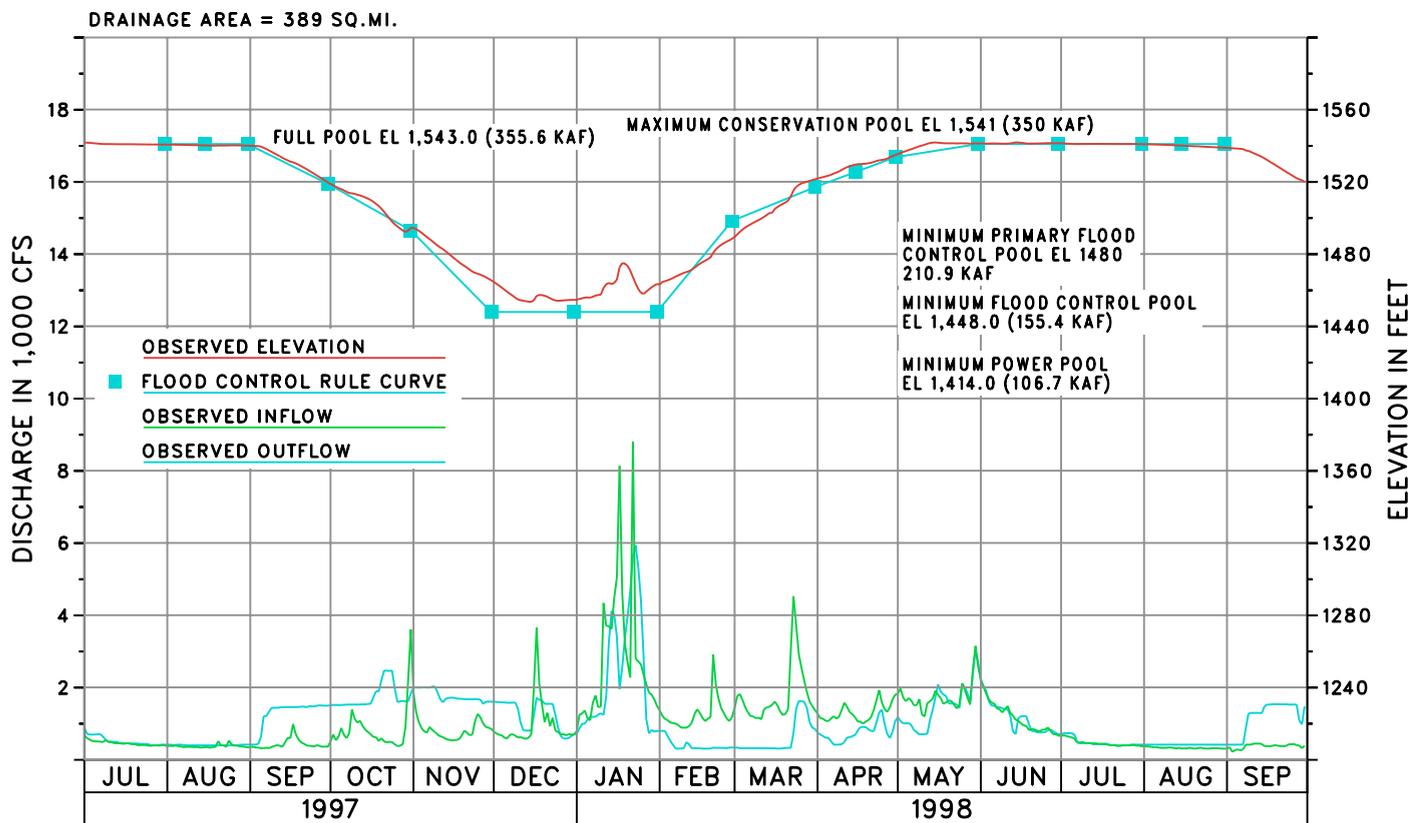
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 NORTH FORK CLEARWATER RIVER AT DWORSHAK PROJECT, IDAHO

Chart 16



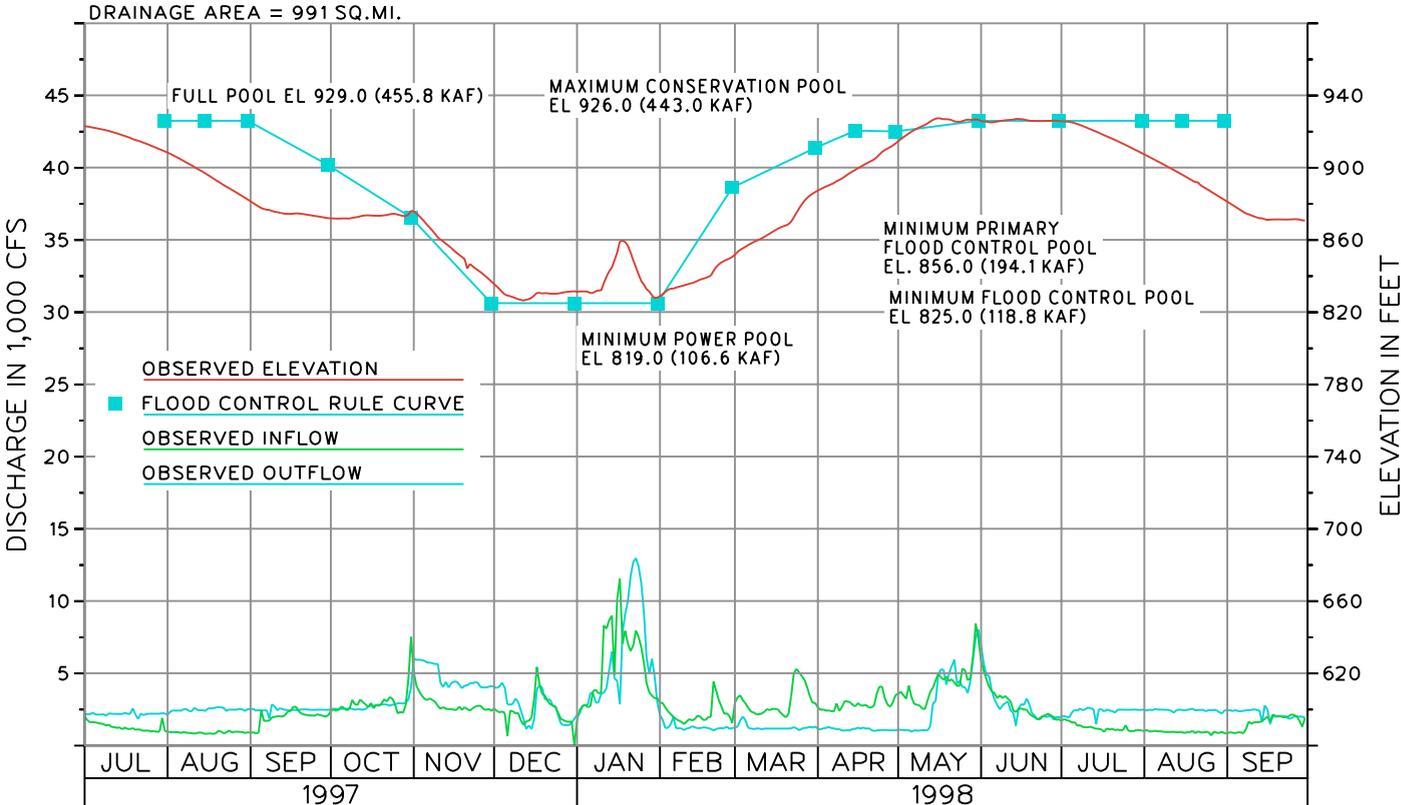
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 COLUMBIA RIVER AT JOHN DAY PROJECT, OREGON - WASHINGTON

Chart 17



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 MIDDLE FORK WILLAMETTE RIVER AT HILLS CREEK PROJECT, OREGON

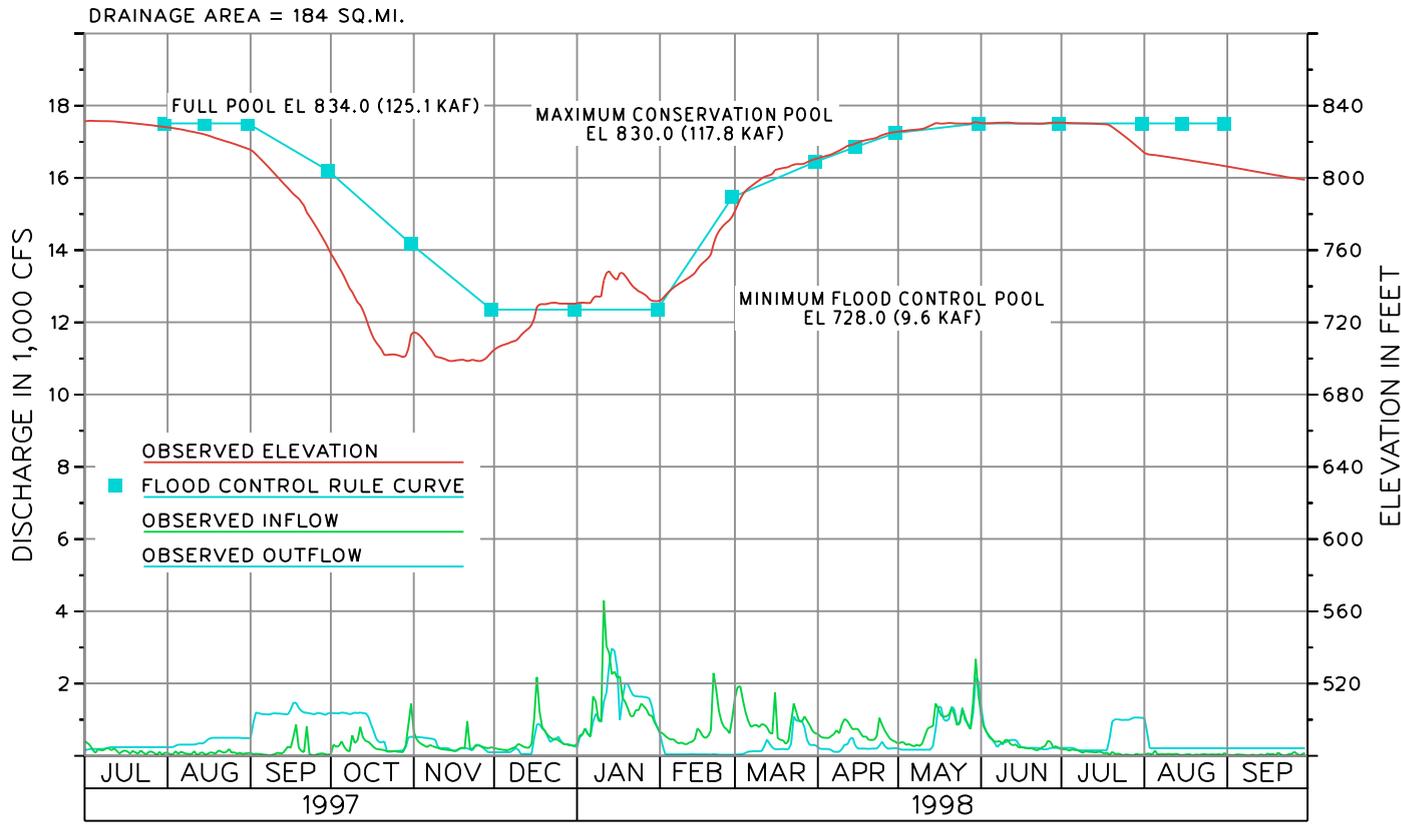
Chart 18



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998

MIDDLE FORK WILLAMETTE RIVER AT LOOKOUT POINT PROJECT, OREGON

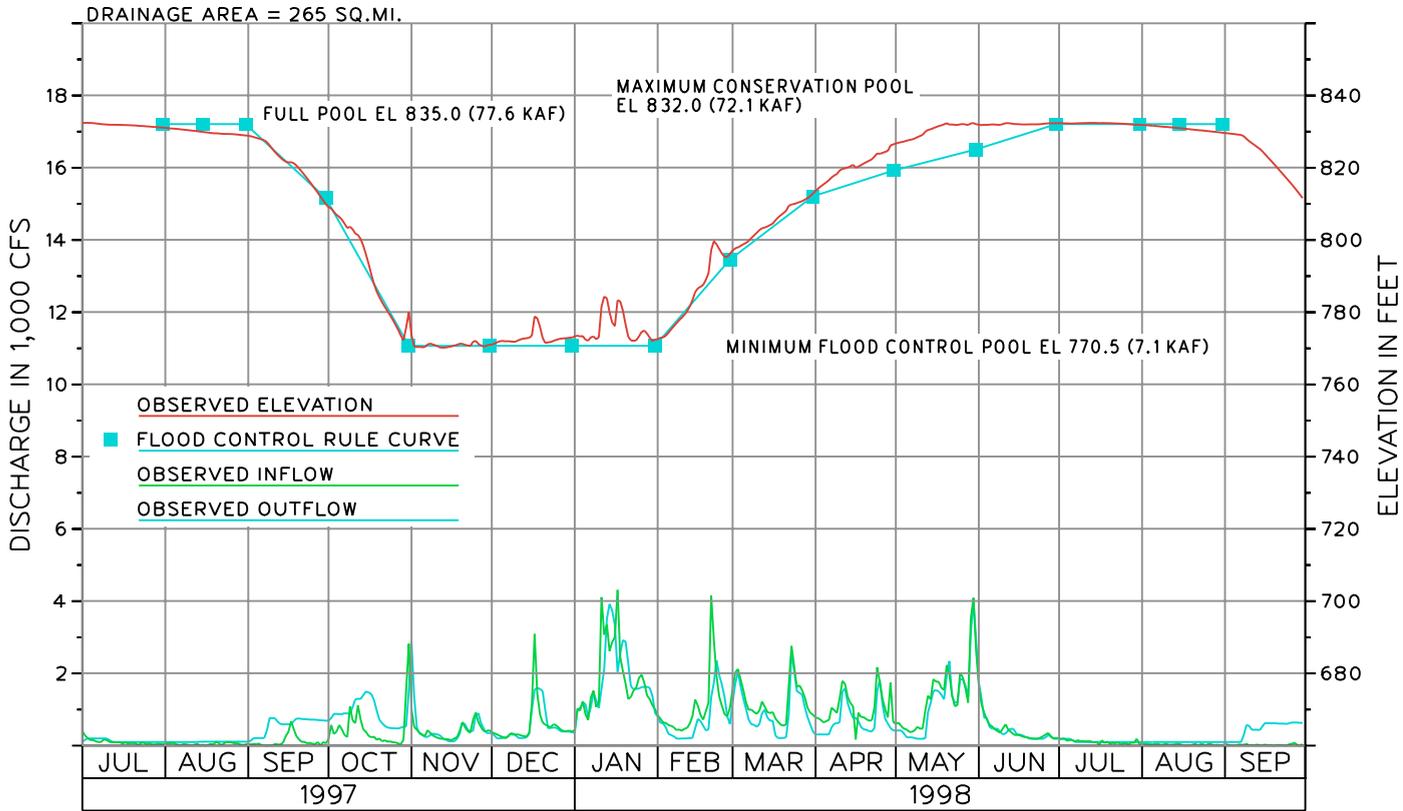
Chart 19



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998

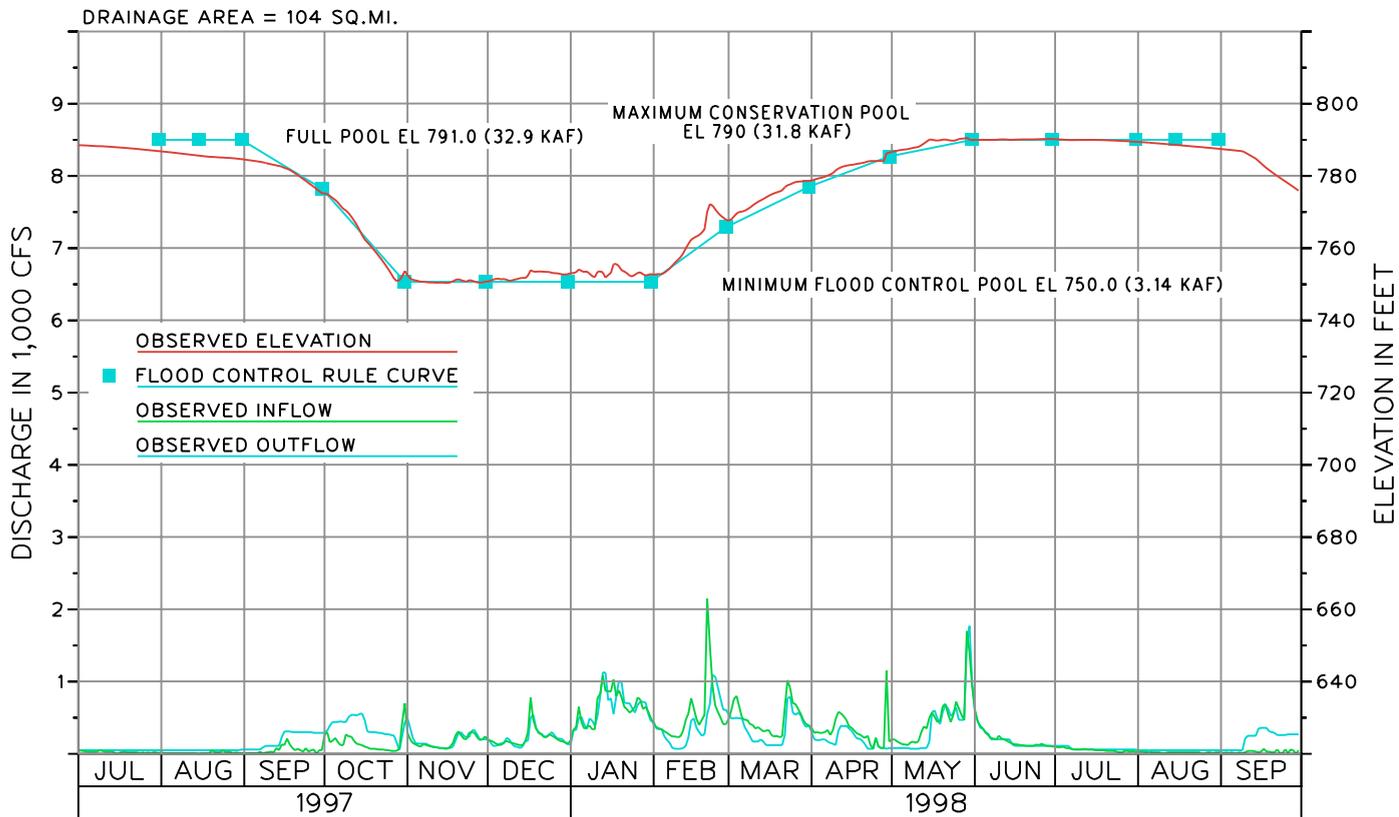
FALL CREEK AT FALL CREEK PROJECT, OREGON

Chart 20



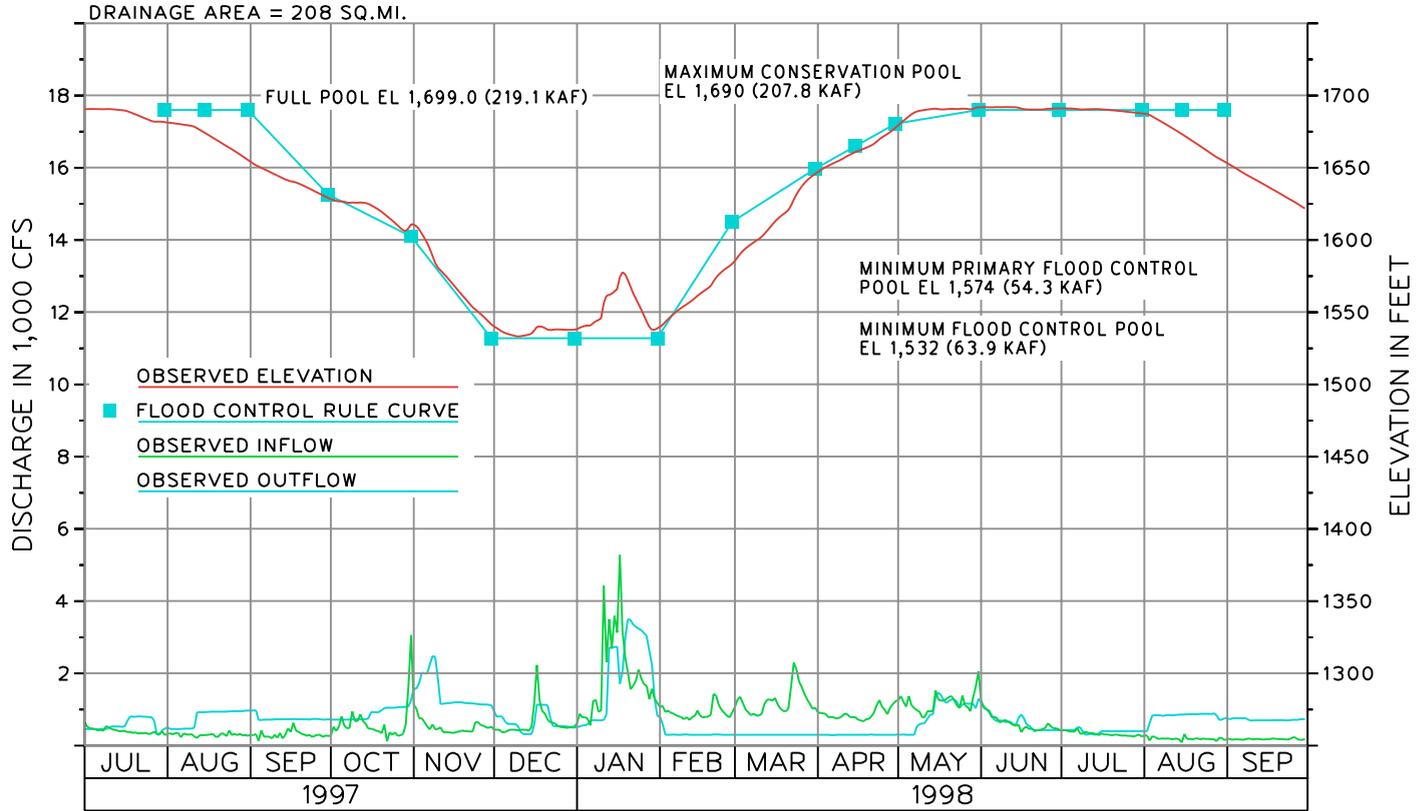
**STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
ROW RIVER AT DORENA PROJECT, OREGON**

Chart 21



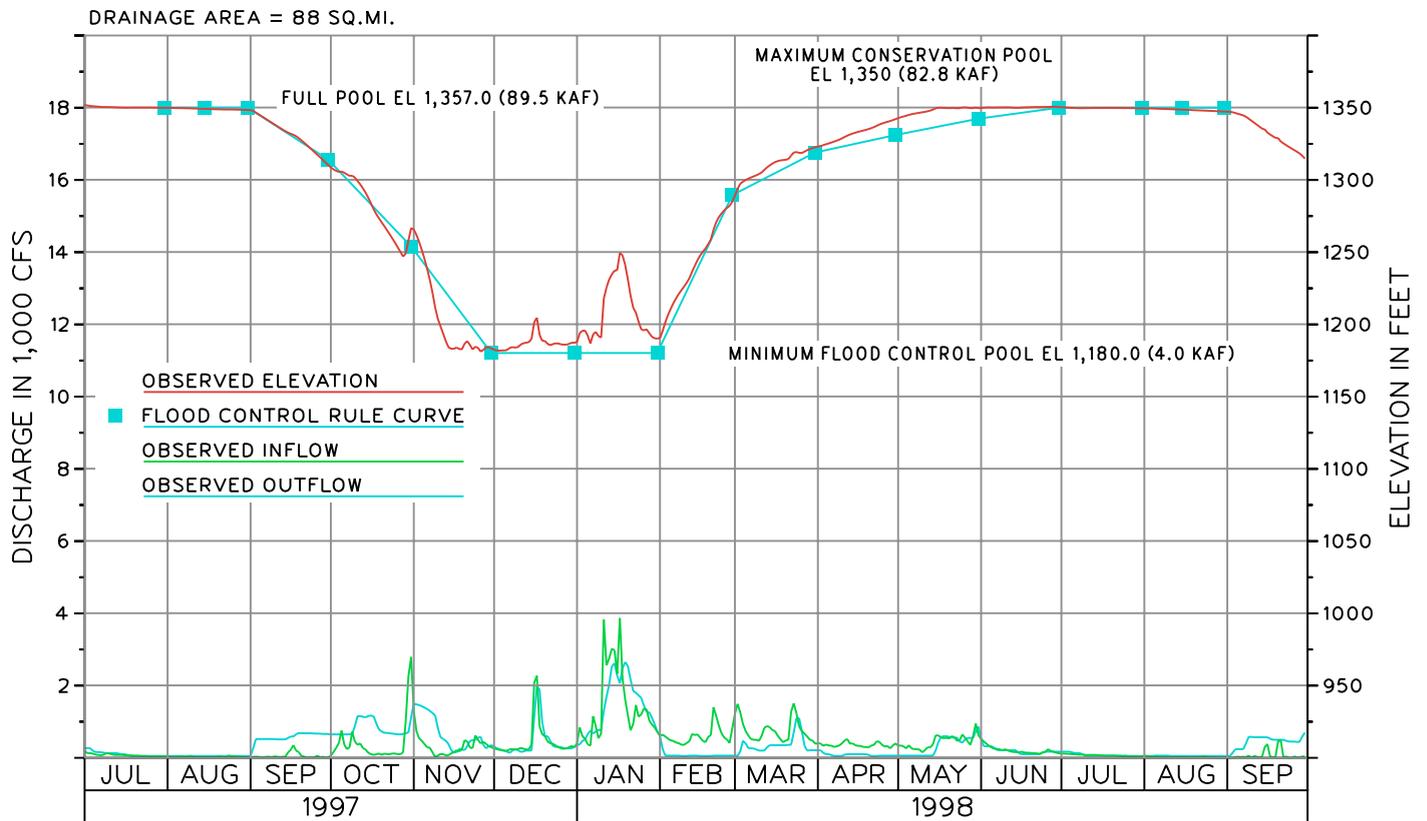
**STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
COAST FORK WILLAMETTE RIVER AT COTTAGE GROVE PROJECT, OREGON**

Chart 22



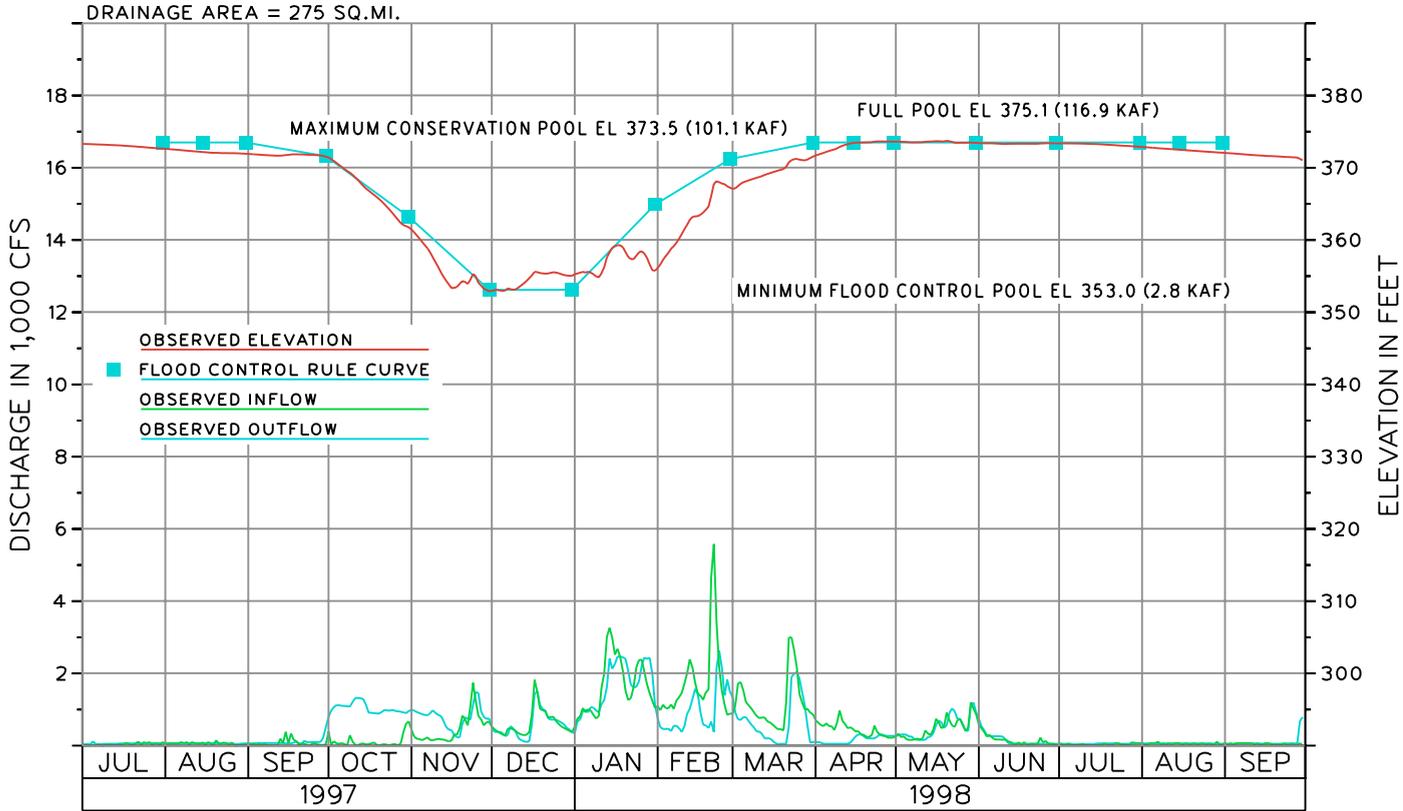
**STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SOUTH FORK MCKENZIE RIVER AT COUGAR PROJECT, OREGON**

Chart 23



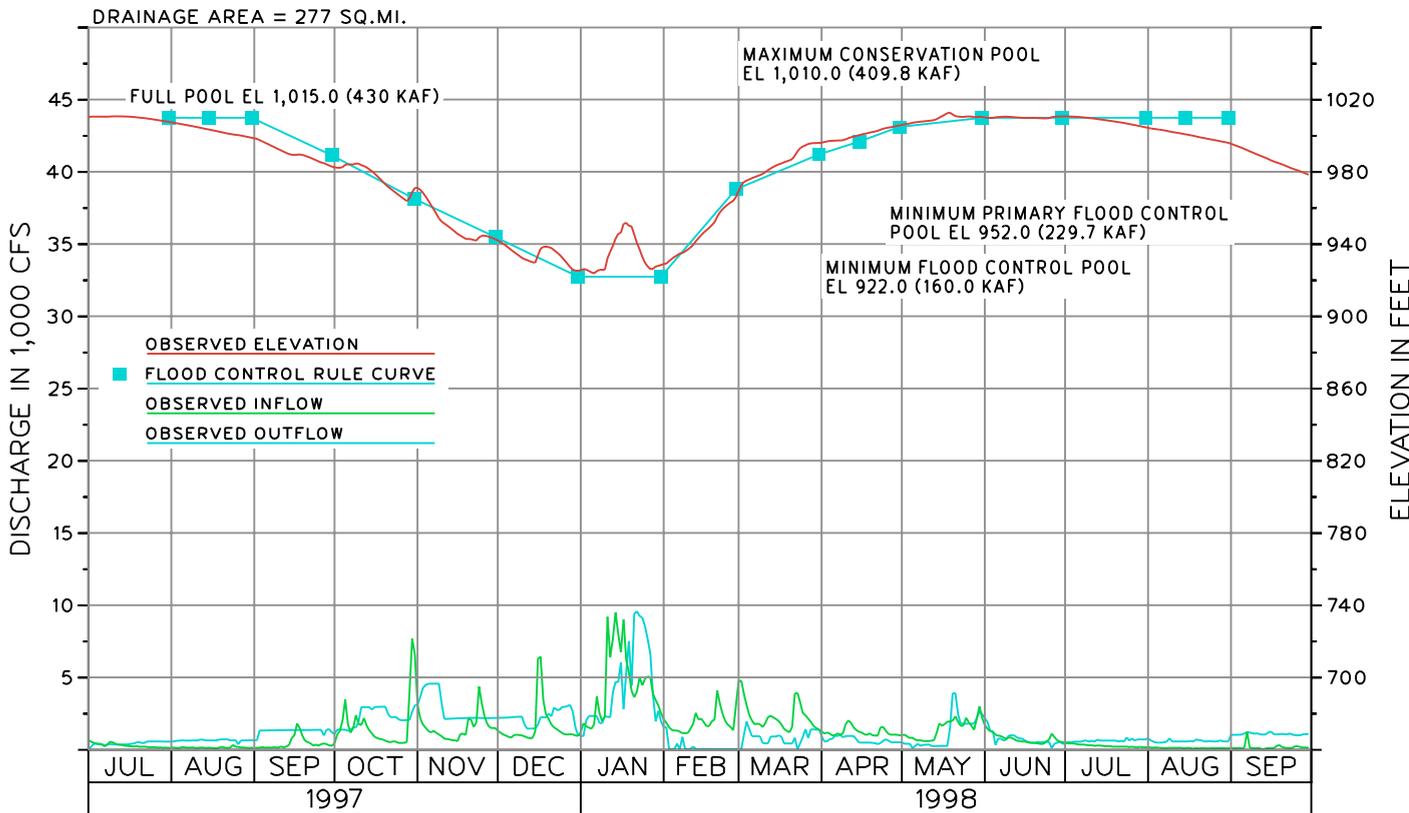
**STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 BLUE RIVER AT BLUE RIVER PROJECT, OREGON**

Chart 24



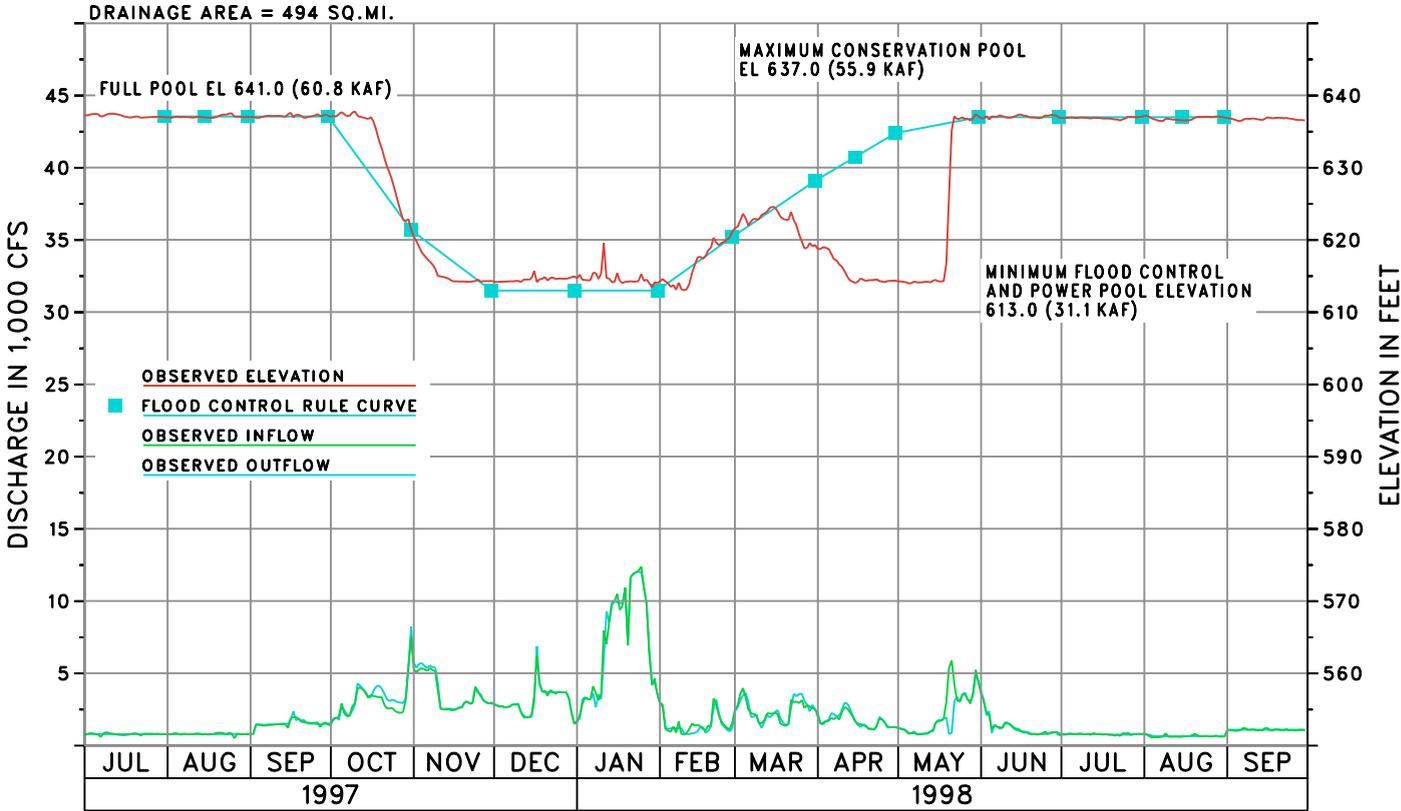
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 LONG TOM RIVER AT FERN RIDGE PROJECT, OREGON

Chart 25



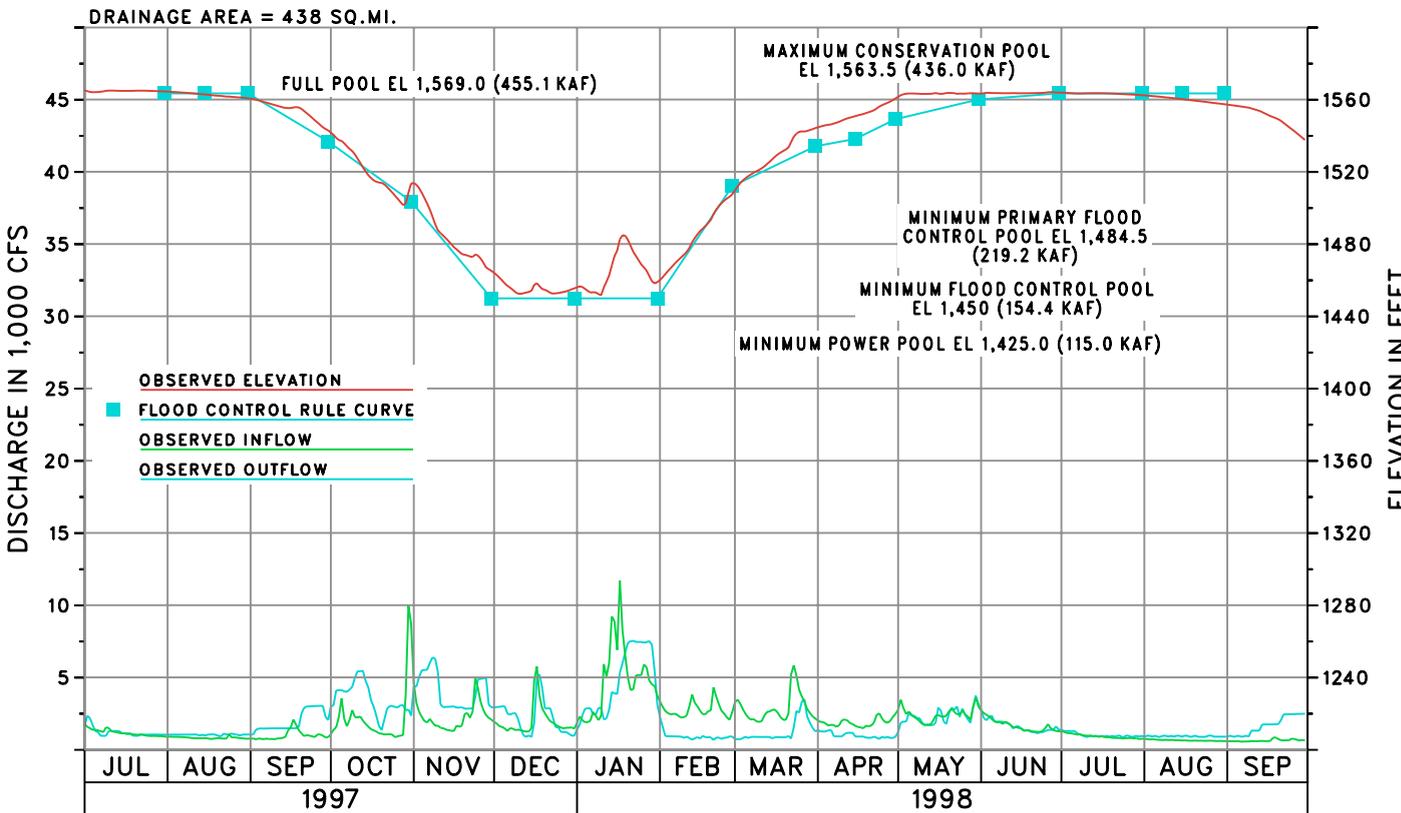
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 MIDDLE SANTIAM RIVER AT GREEN PETER PROJECT, OREGON

Chart 26



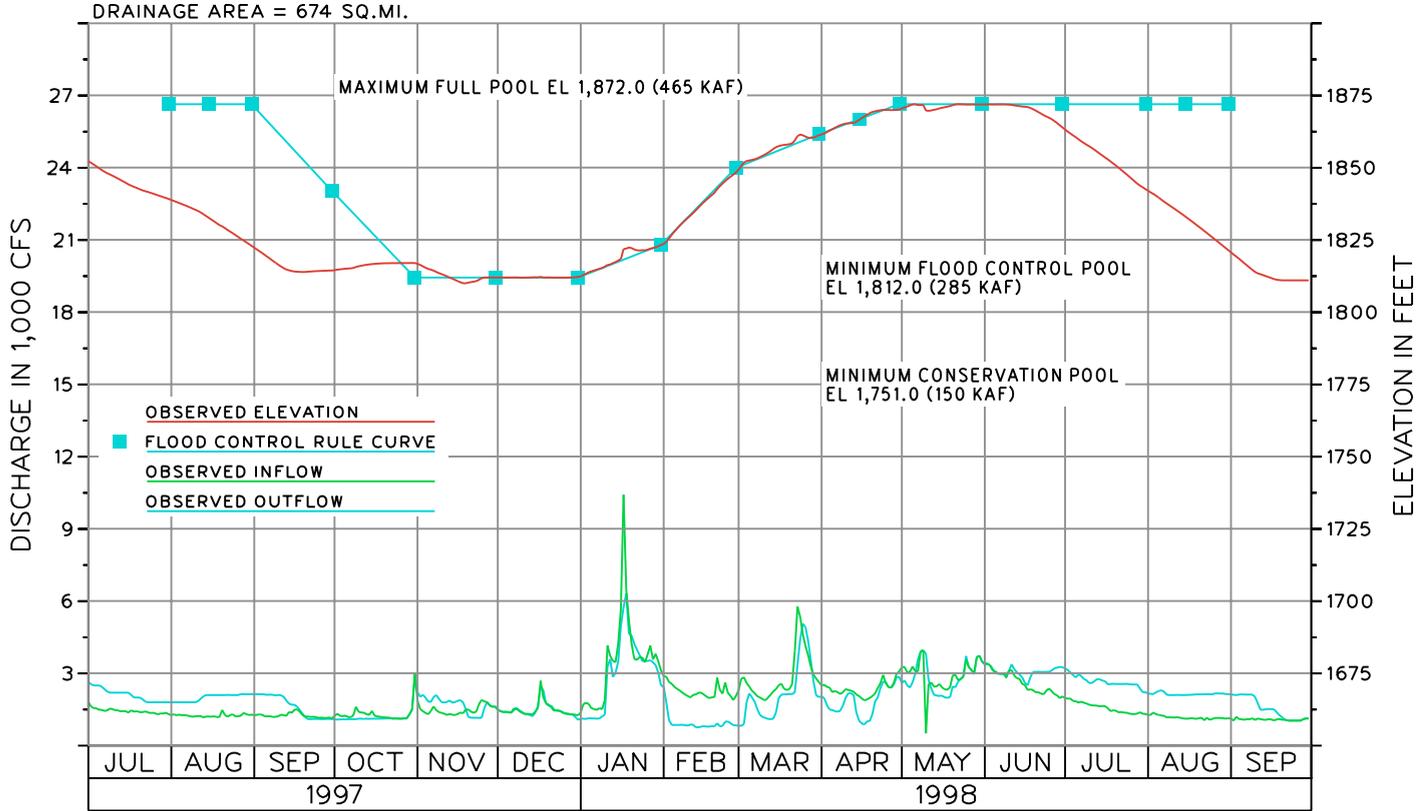
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SOUTH SANTIAM RIVER AT FOSTER PROJECT, OREGON

Chart 27



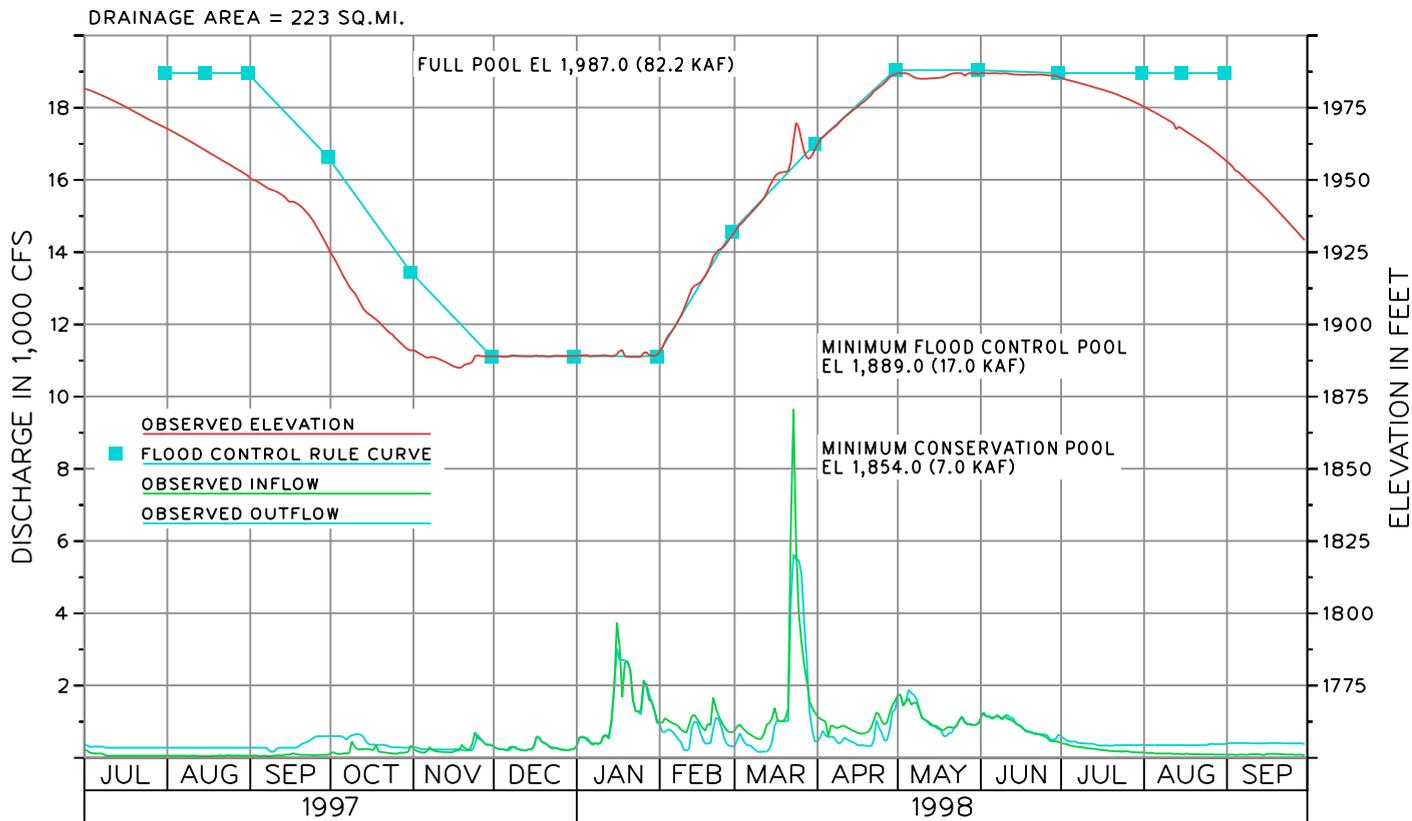
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 NORTH SANTIAM RIVER AT DETROIT PROJECT, OREGON

Chart 28



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 ROGUE RIVER AT LOST CREEK PROJECT, OREGON

Chart 29

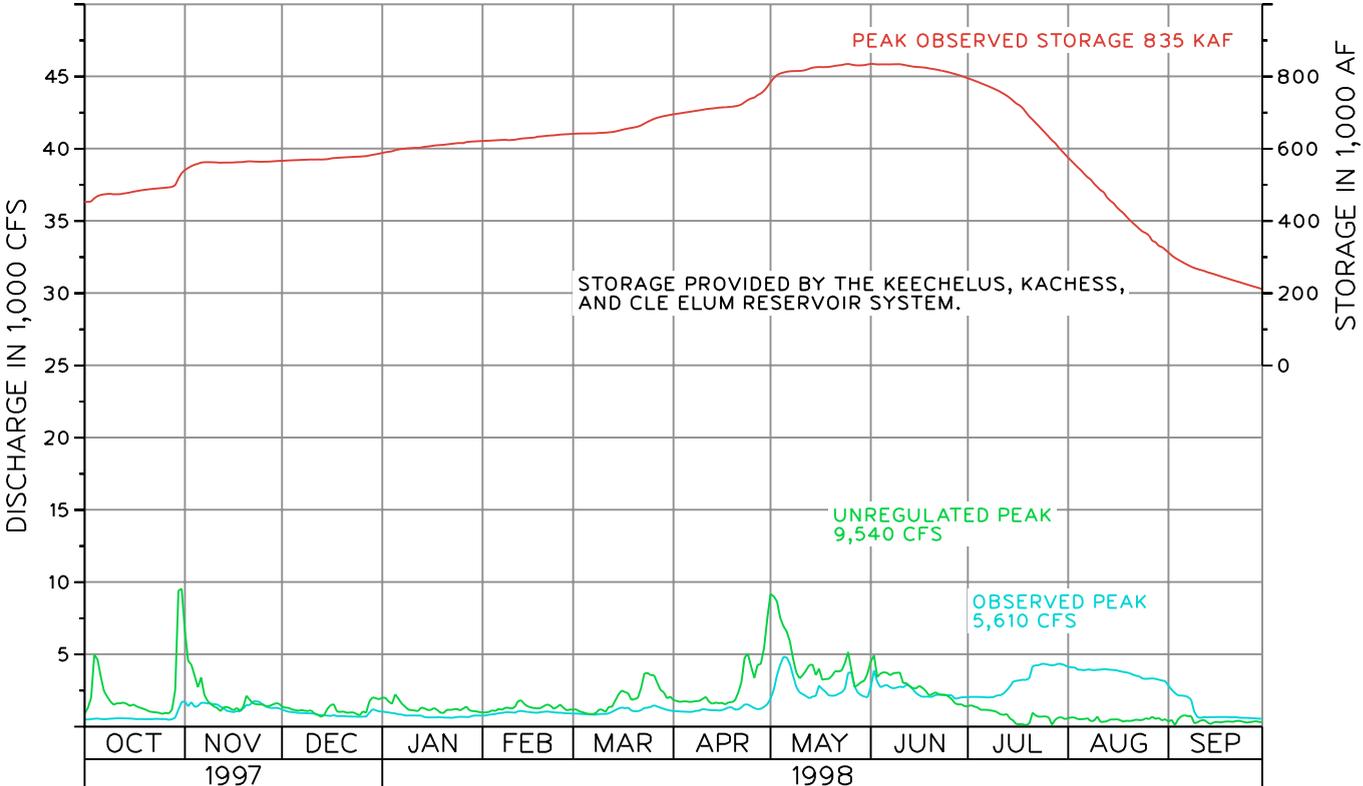


STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 APPLAGATE RIVER AT APPLAGATE PROJECT, OREGON

Chart 30

DRAINAGE AREA = 495 SQ.MI.

ACTIVE CAPACITY 834 KAF

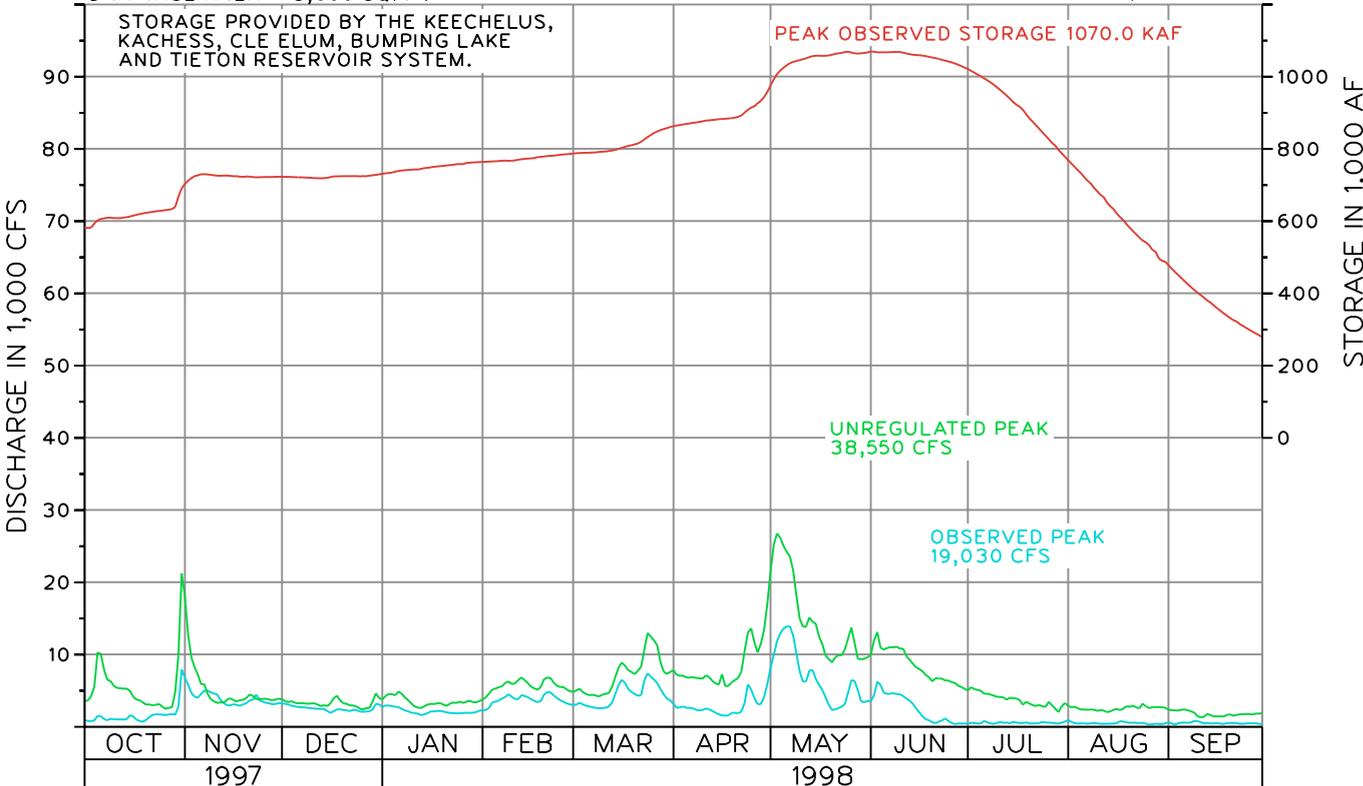


**STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
YAKIMA RIVER AT CLE ELUM, WASHINGTON**

Chart 31

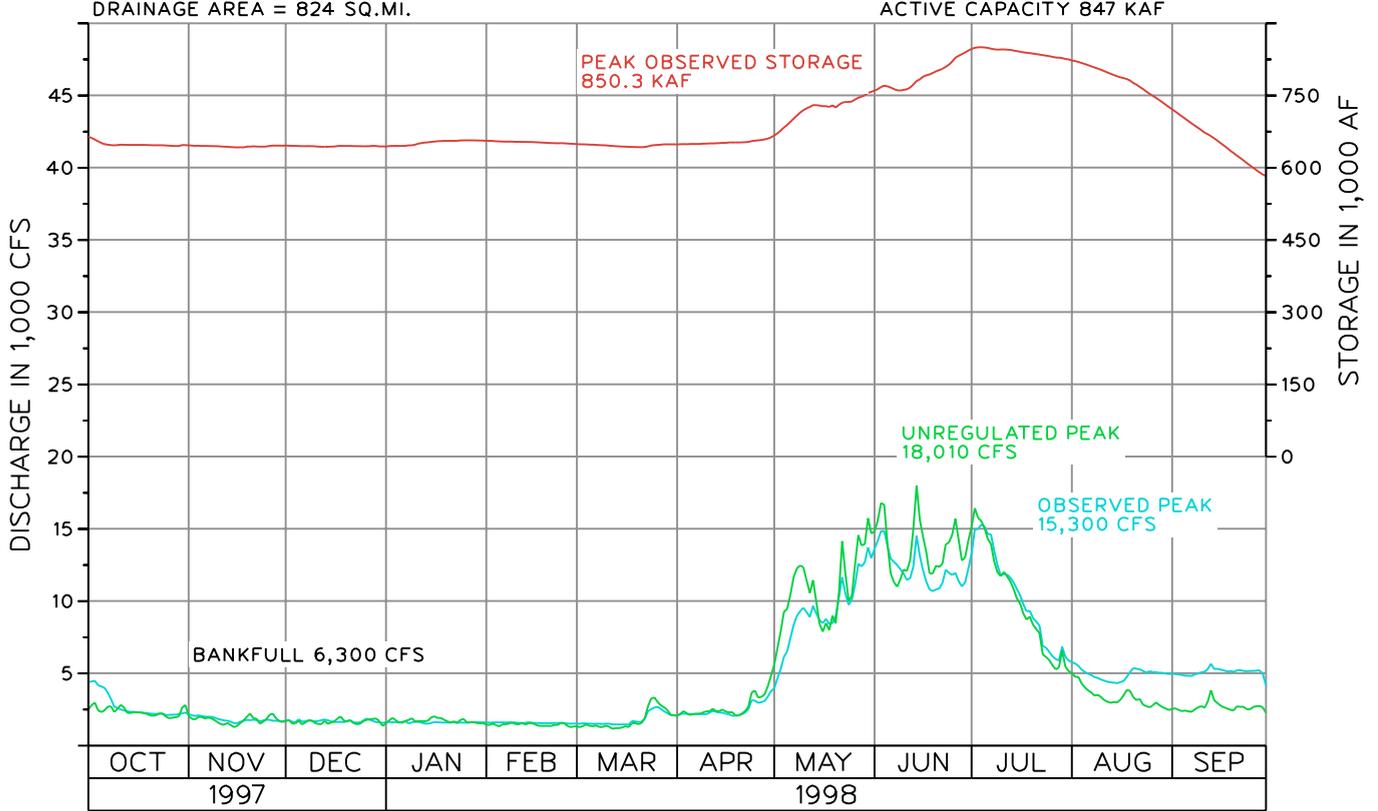
DRAINAGE AREA = 3,660 SQ.MI.

ACTIVE CAPACITY 1,066 KAF



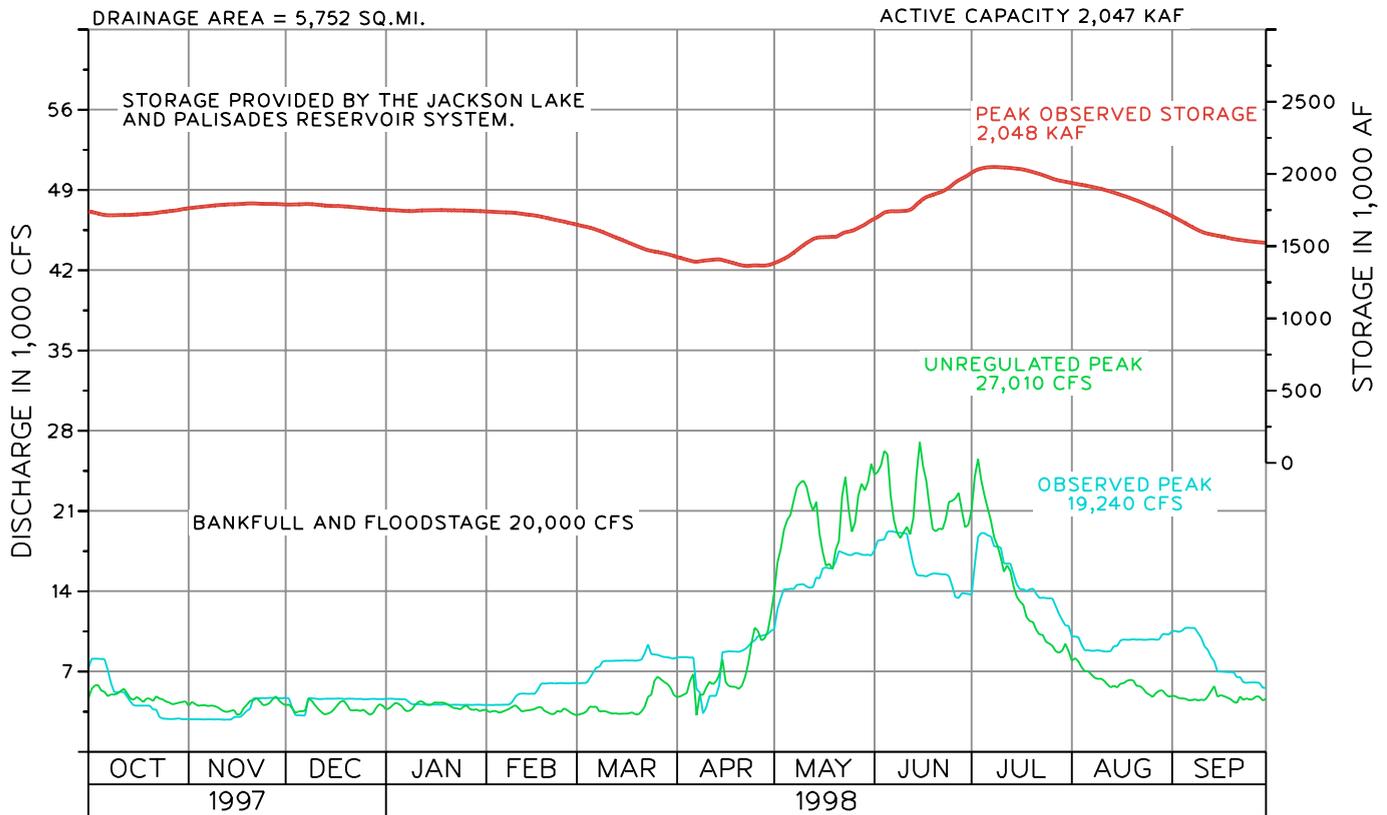
**STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
YAKIMA RIVER AT PARKER, WASHINGTON**

Chart 32



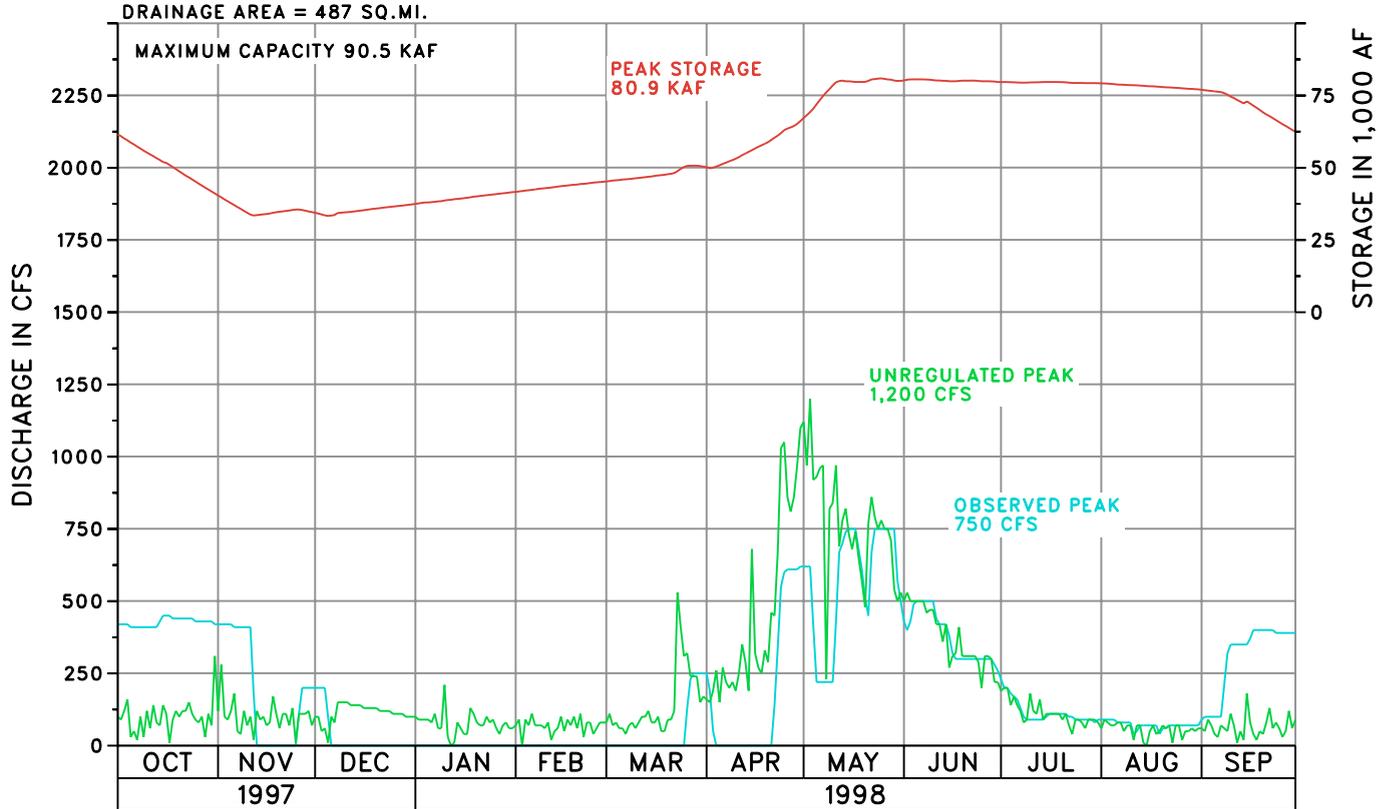
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SNAKE RIVER AT JACKSON LAKE, WYOMING

Chart 33



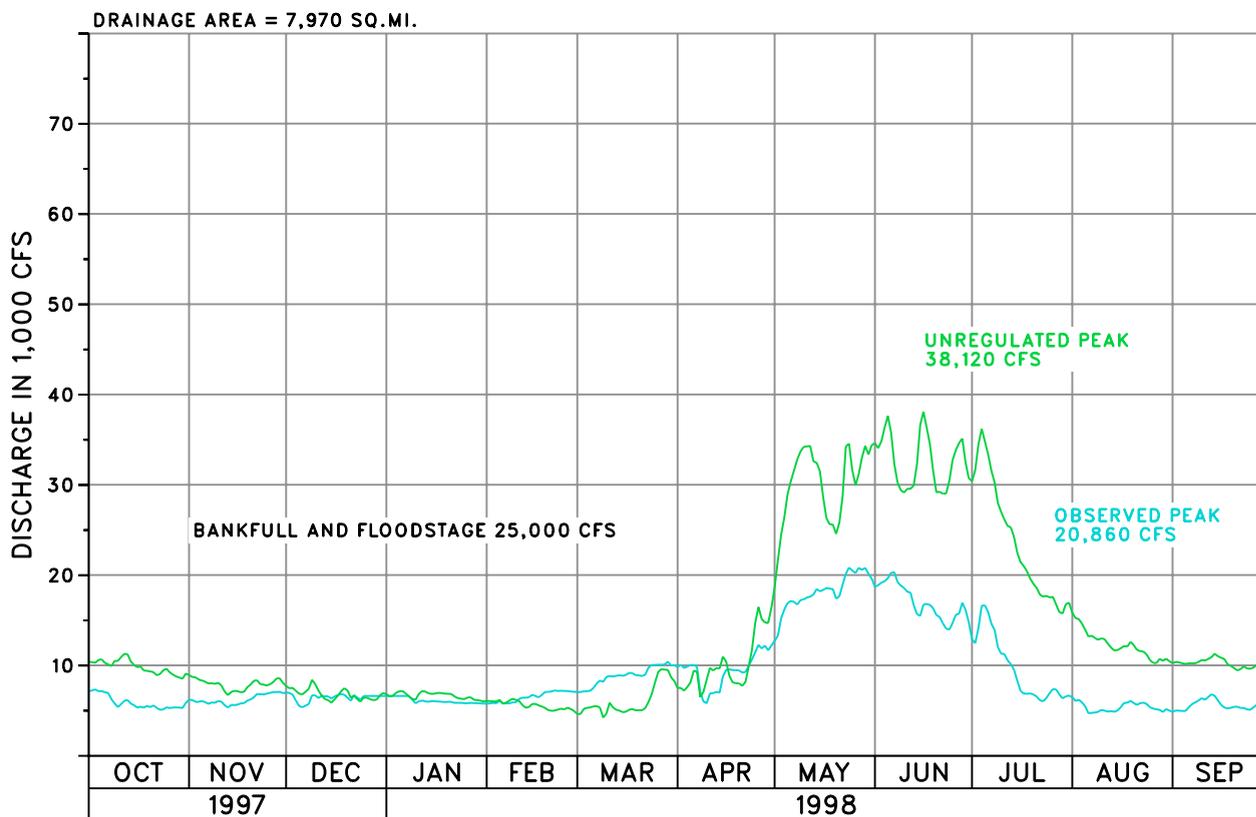
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SNAKE RIVER NEAR HEISE, IDAHO

Chart 34



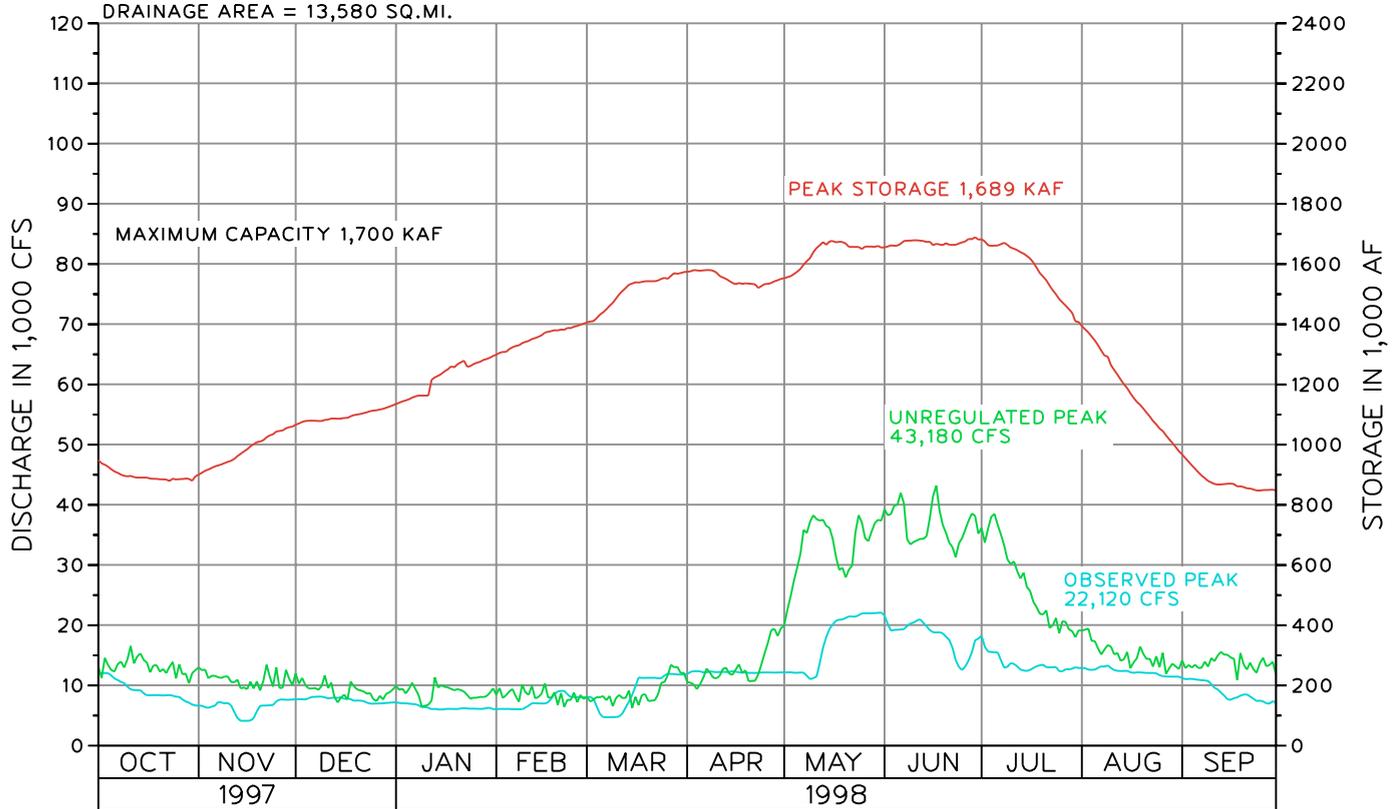
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 WILLOW CREEK AT RIRIE, IDAHO

Chart 35



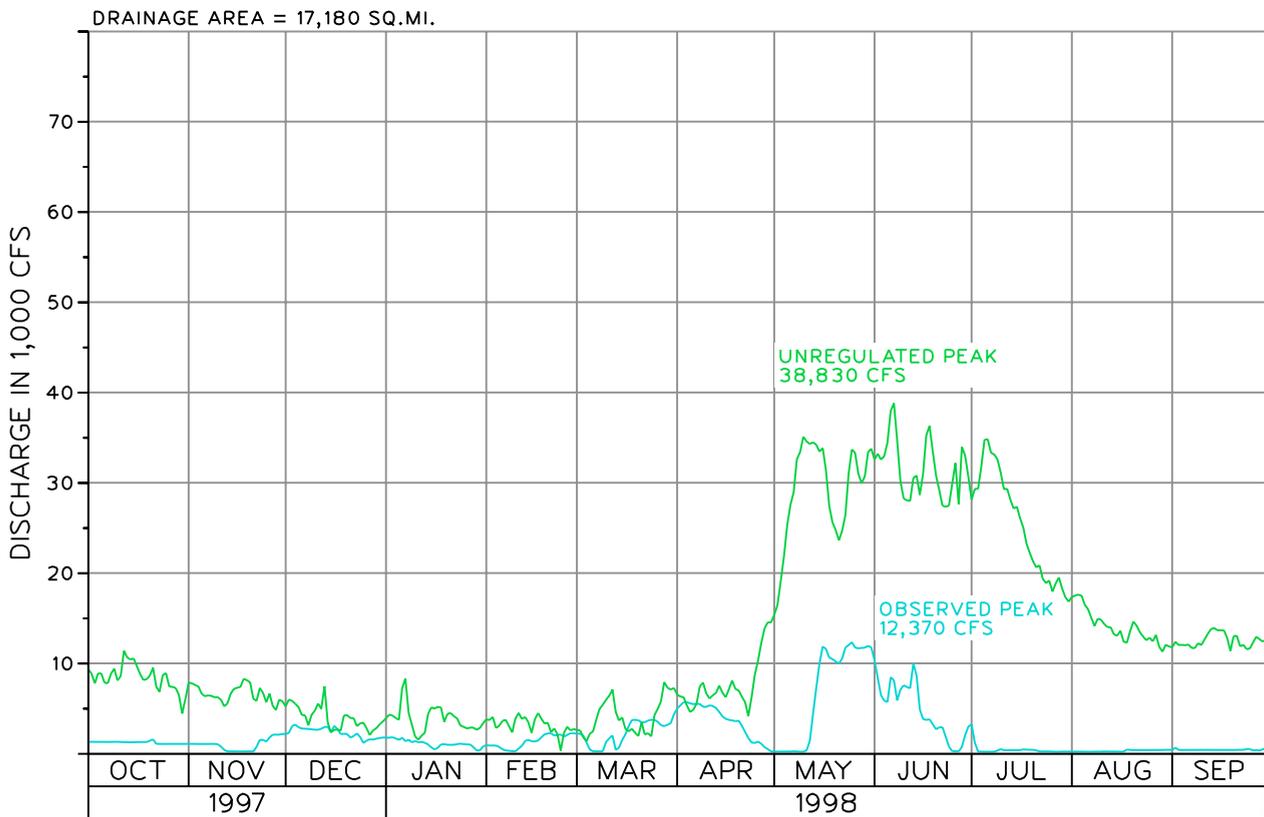
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SNAKE RIVER NEAR SHELLEY, IDAHO

Chart 36



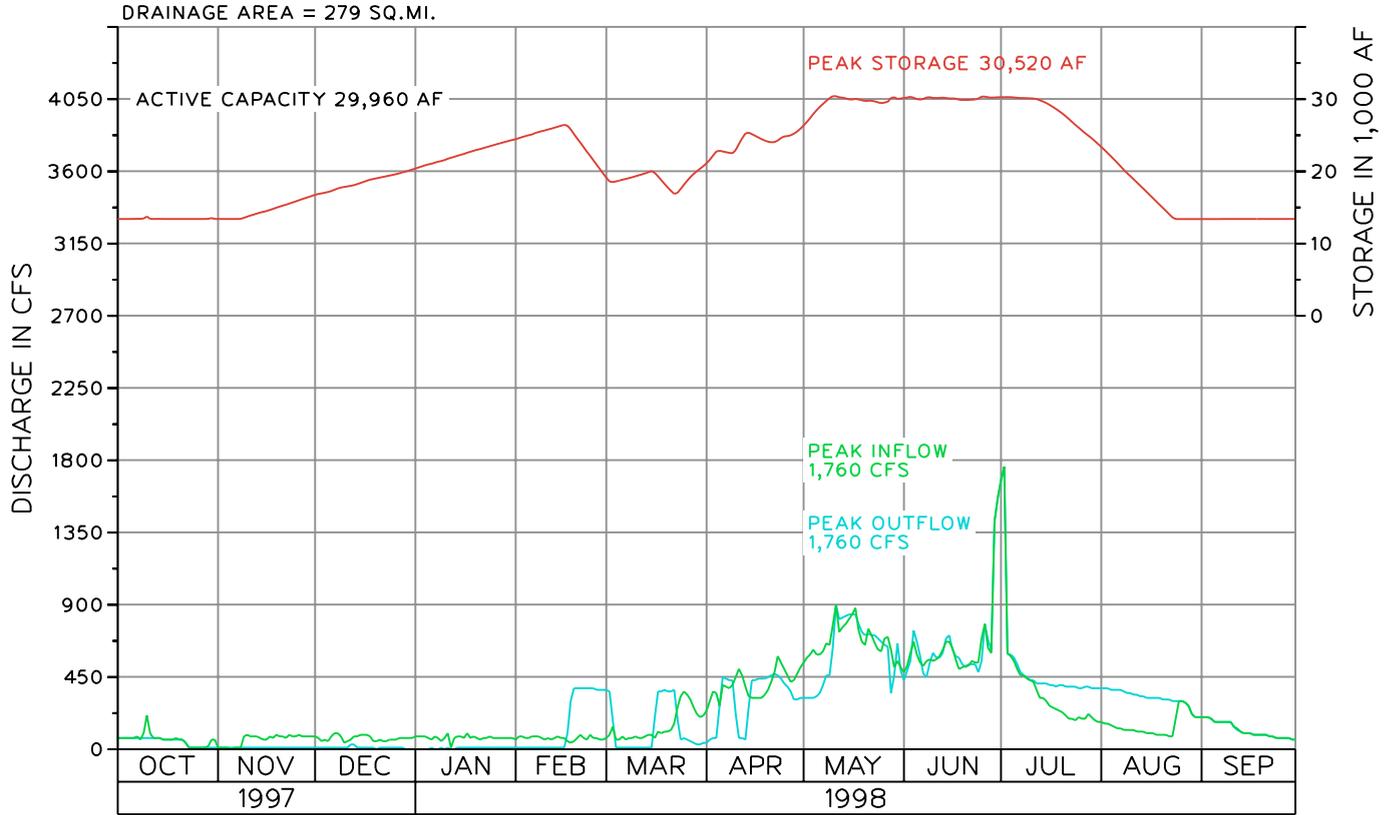
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SNAKE RIVER AT AMERICAN FALLS, IDAHO

Chart 37



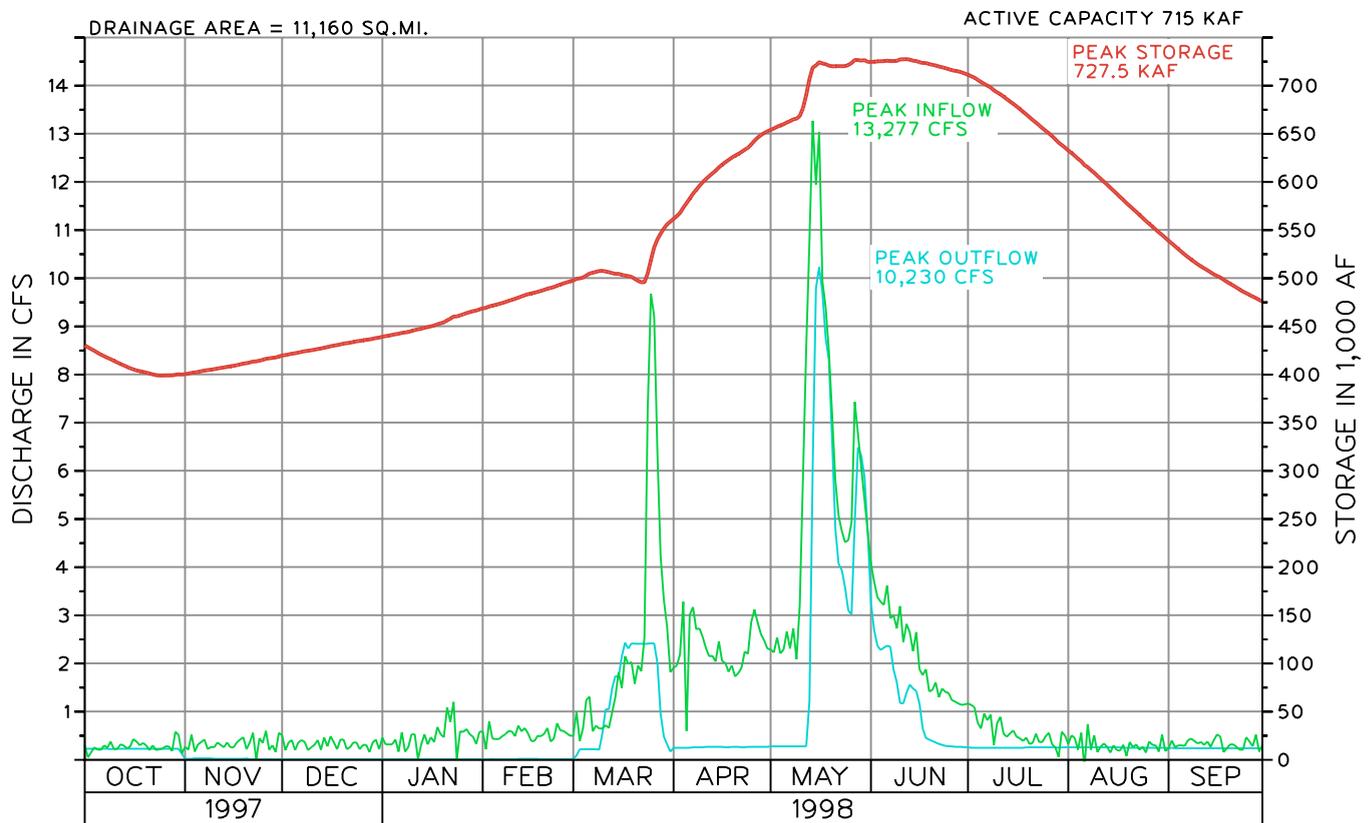
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SNAKE RIVER AT MILNER, IDAHO

Chart 38



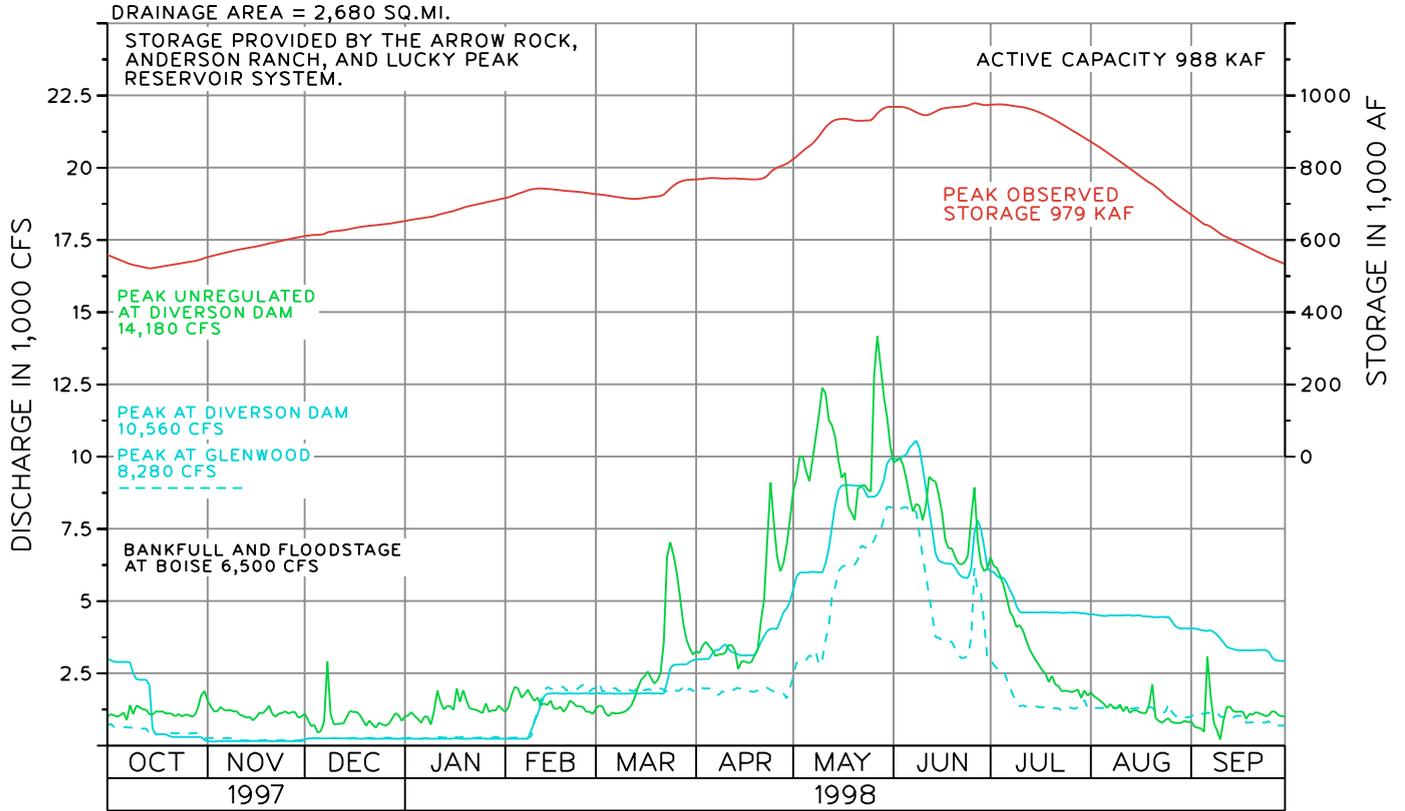
**STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
LITTLE WOOD RIVER AT LITTLE WOOD PROJECT, IDAHO**

Chart 39



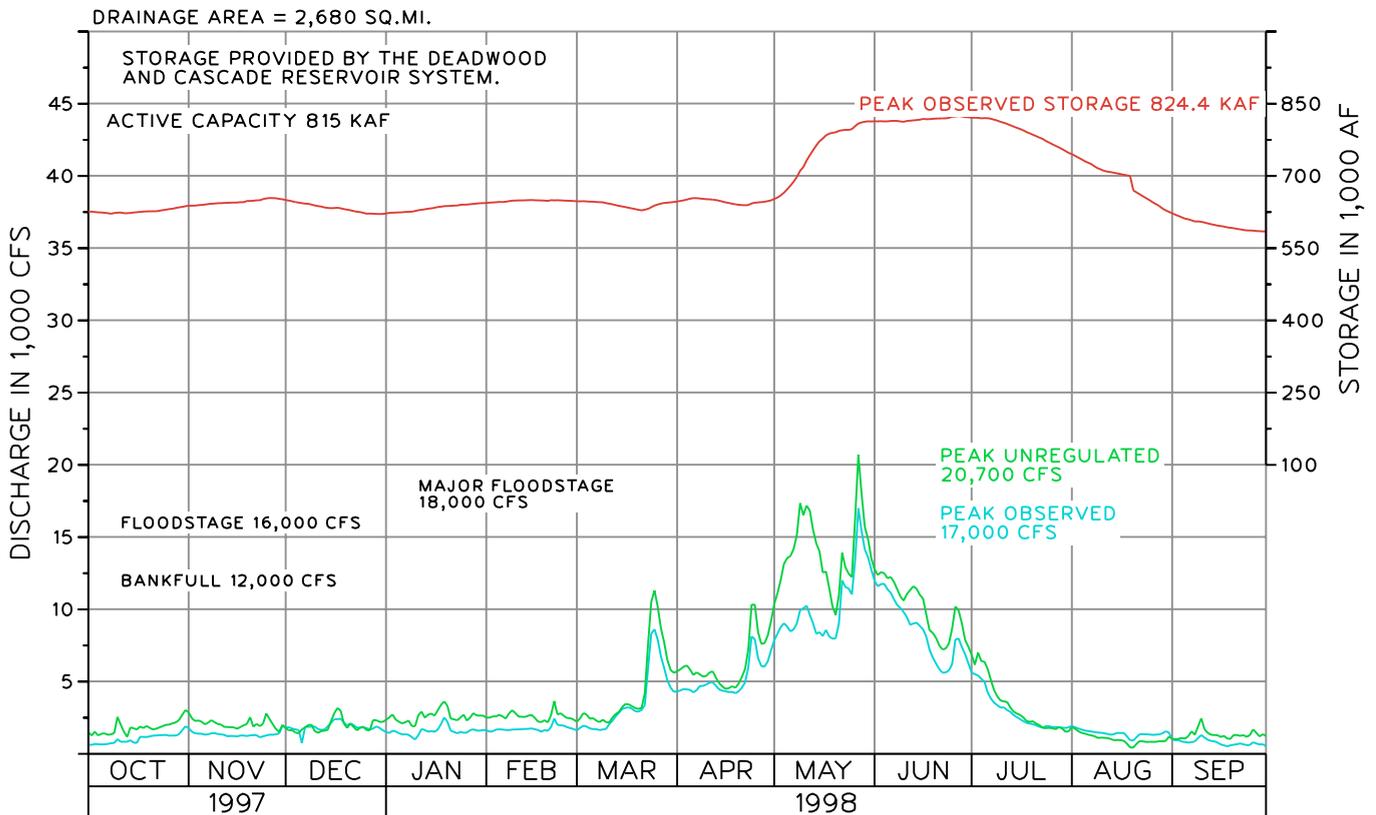
**STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
OWYHEE RIVER AT OWYHEE DAM, OREGON**

Chart 40



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
BOISE RIVER AT AND NEAR BOISE, IDAHO

Chart 41



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
PAYETTE RIVER NEAR EMMETT, IDAHO

Chart 42



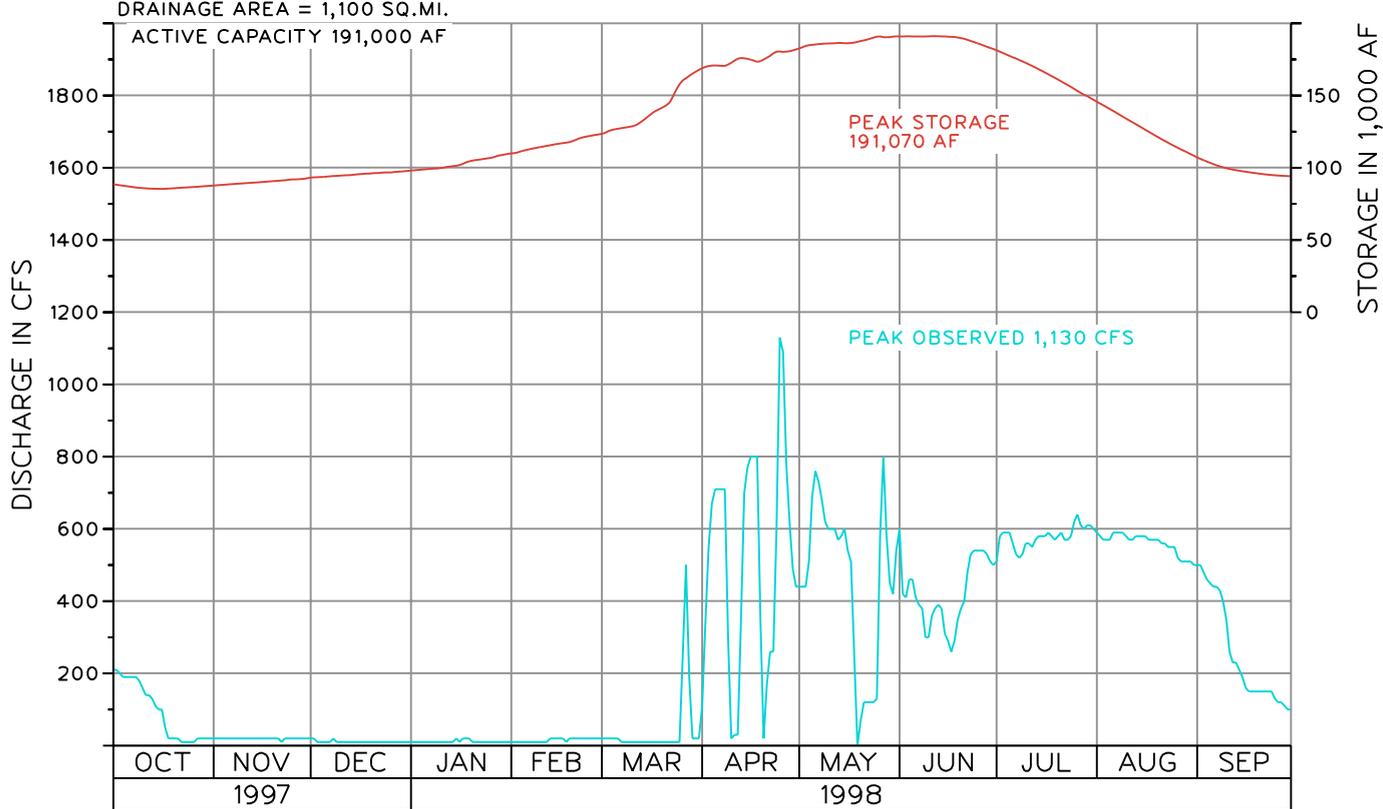
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 NORTH FORK MALHEUR RIVER AT AGENCY VALLEY PROJECT, OREGON

Chart 43



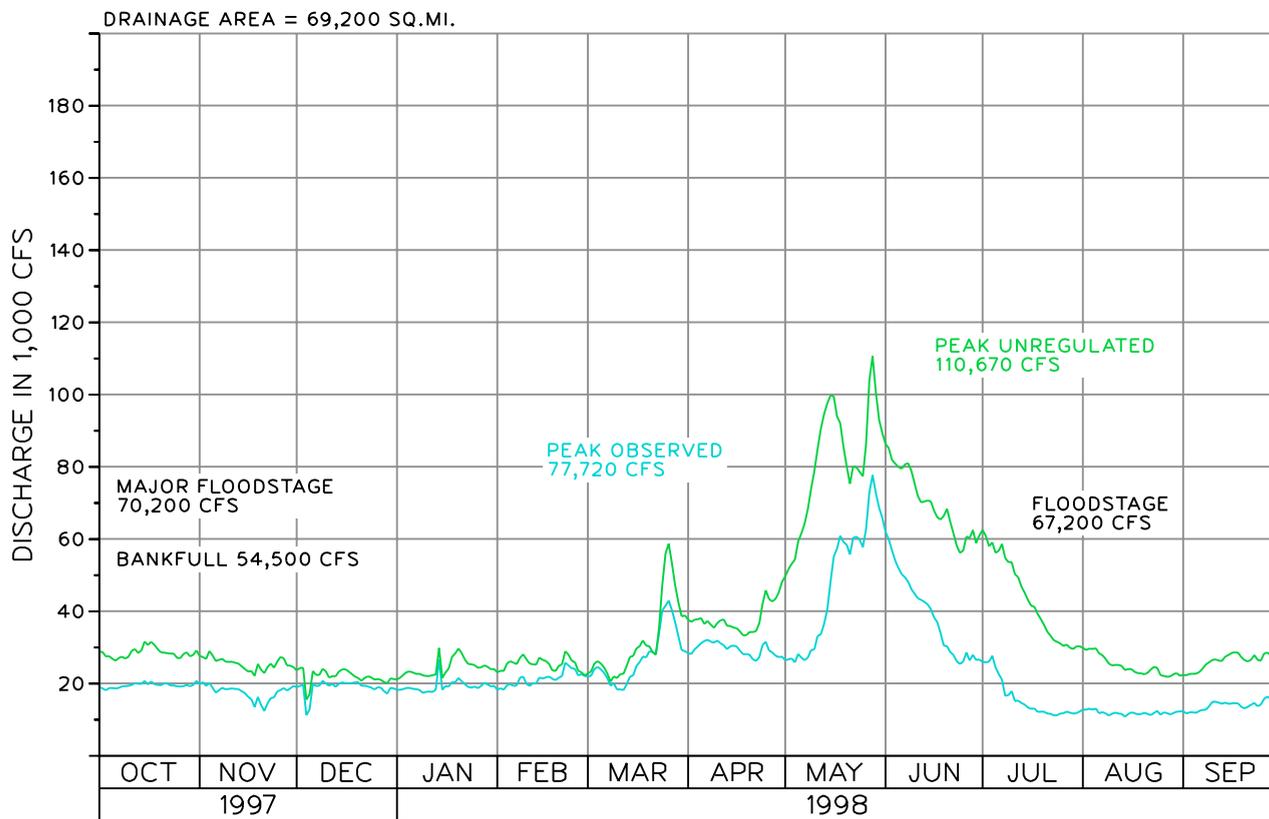
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 BULLY CREEK AT BULLY CREEK PROJECT, OREGON

Chart 44



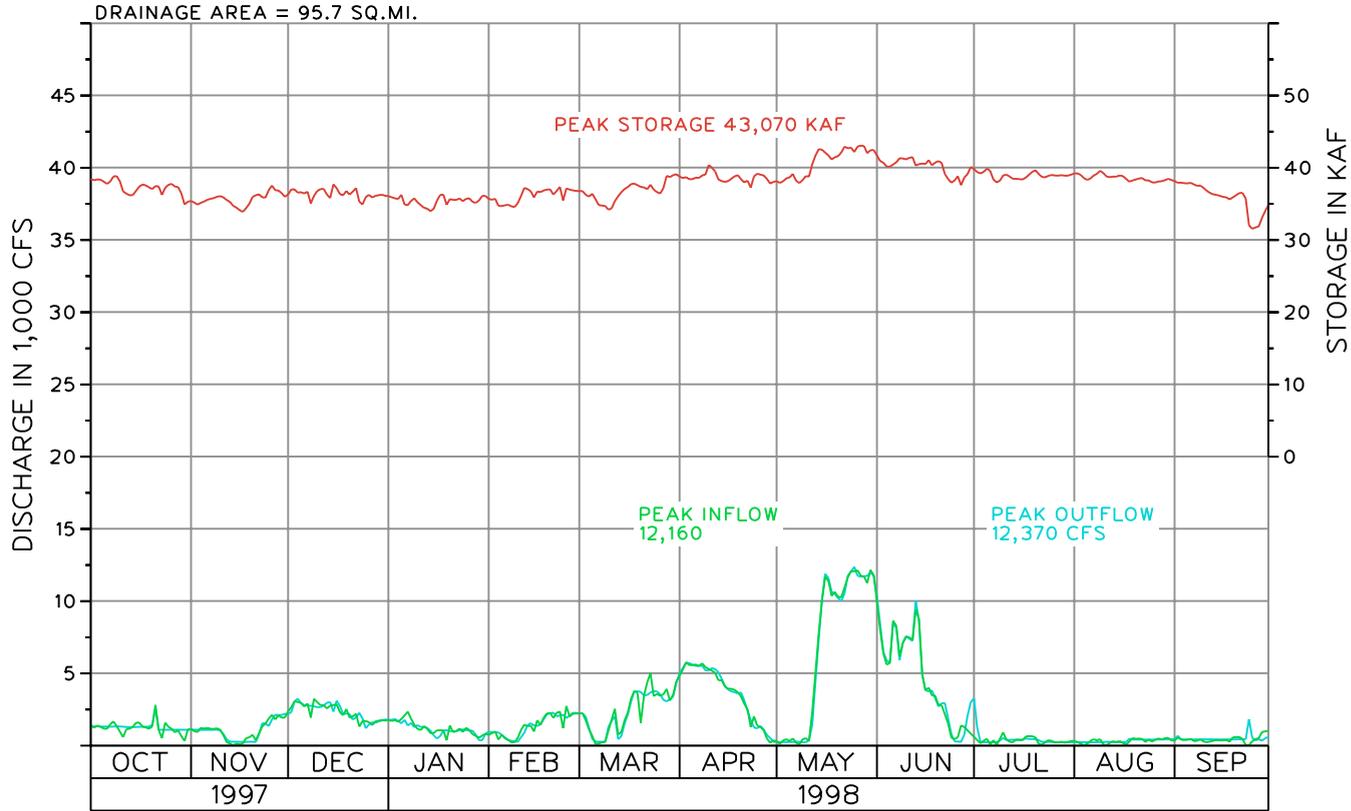
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
MIDDLE FORK MALHEUR RIVER AT WARM SPRINGS PROJECT, OREGON

Chart 45



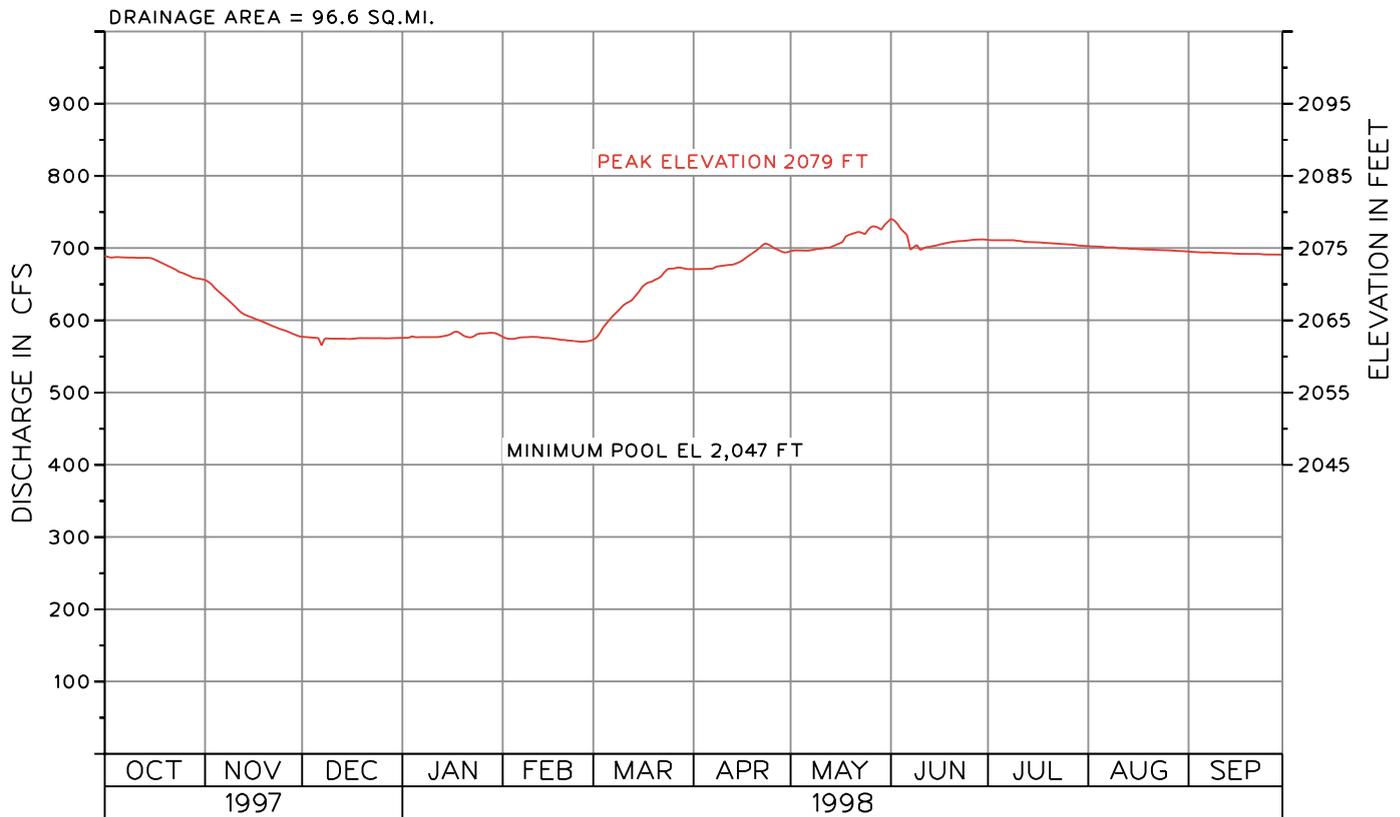
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
SNAKE RIVER AT WEISER, IDAHO

Chart 46



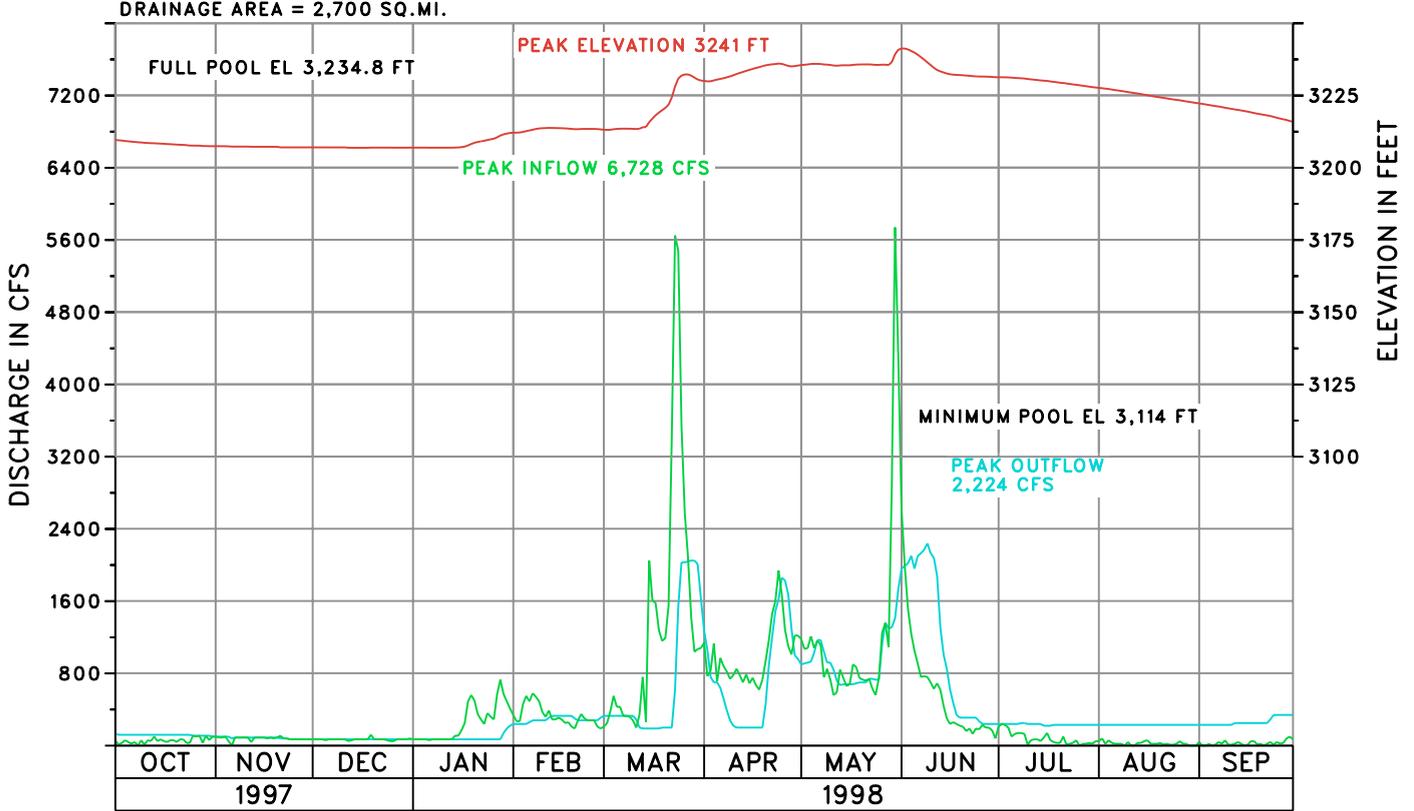
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
MILL CREEK AT MILL CREEK PROJECT, WASHINGTON

Chart 47



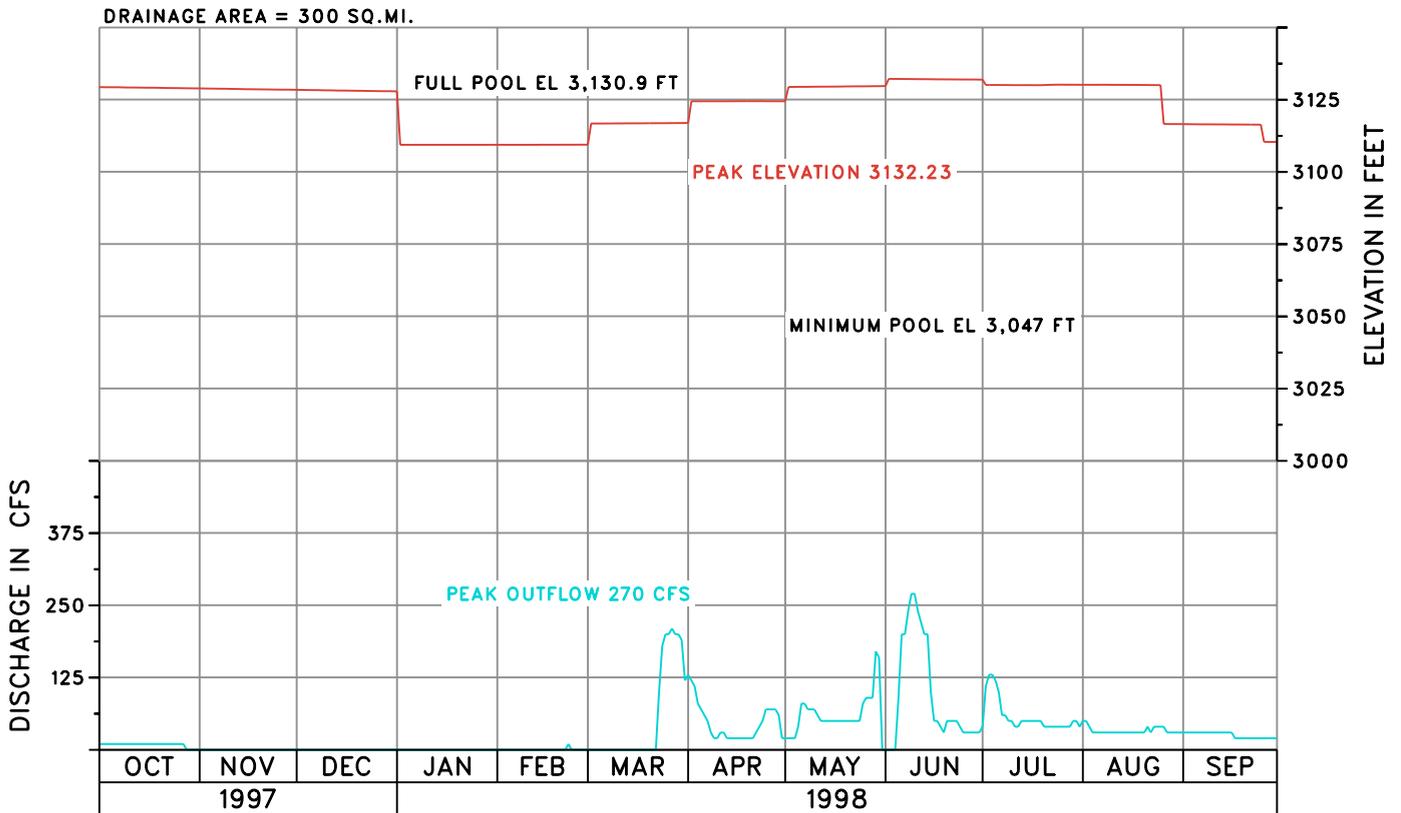
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
WILLOW CREEK AT WILLOW CREEK PROJECT, OREGON

Chart 48



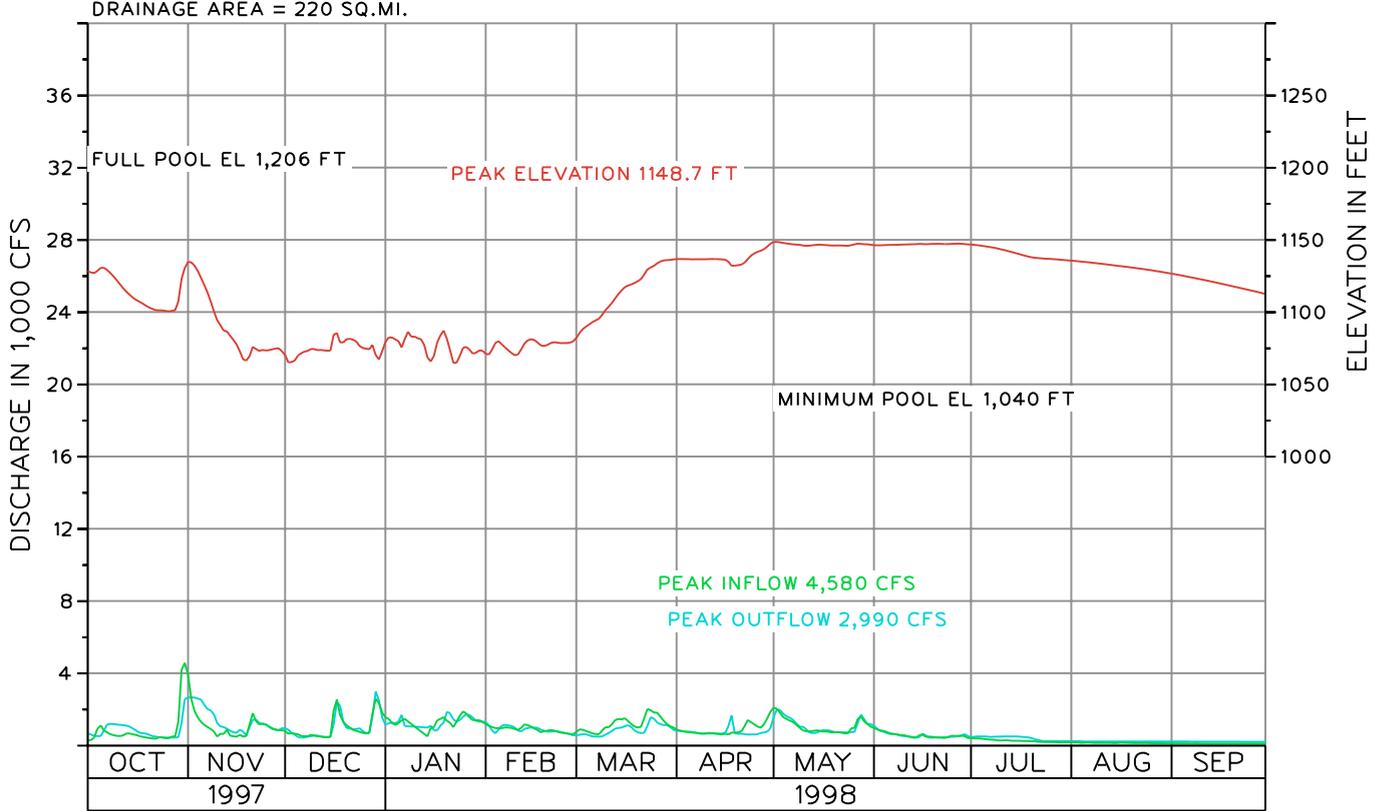
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
CROOKED RIVER AT PRINEVILLE PROJECT, OREGON

Chart 49



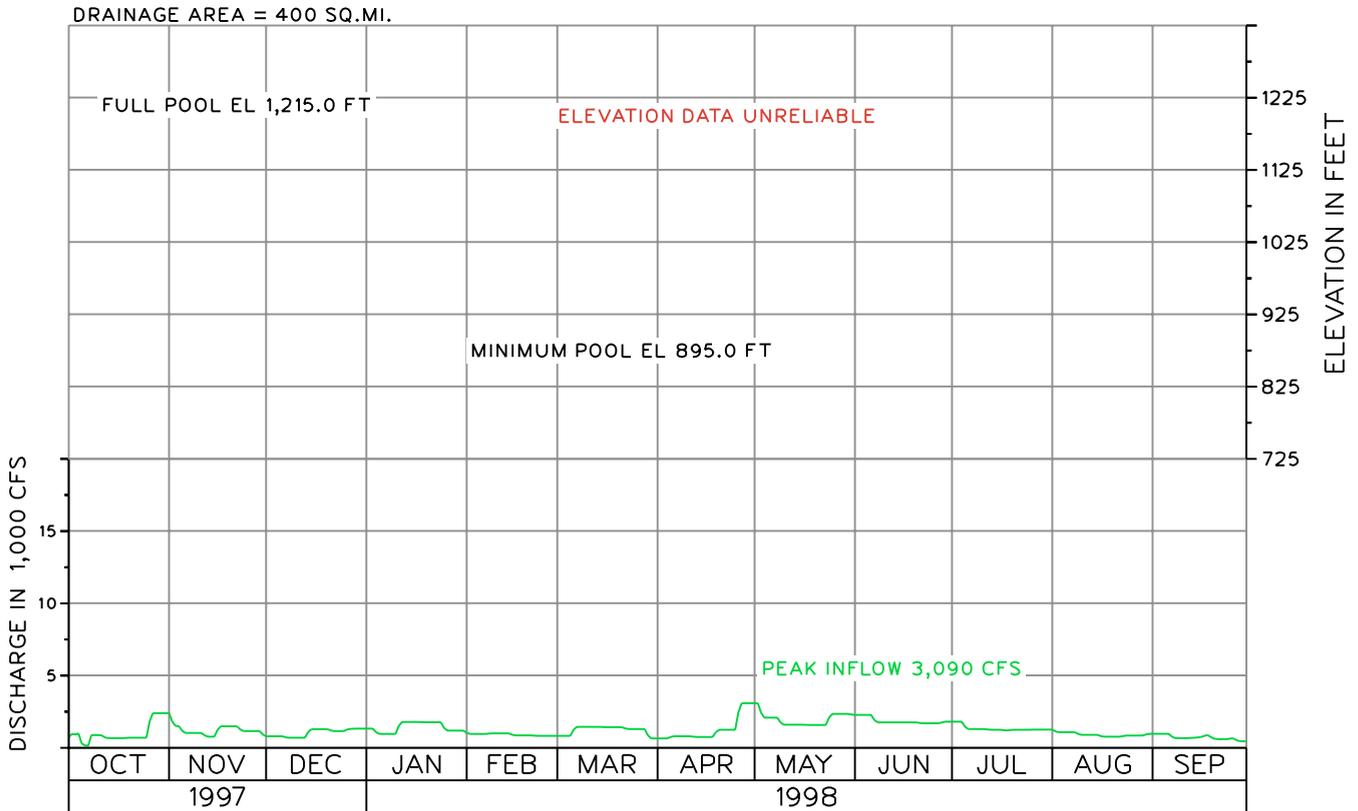
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
OCHOCO RIVER AT OCHOCO PROJECT, OREGON

Chart 50



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 GREEN RIVER AT HOWARD A. HANSON PROJECT, WASHINGTON

Chart 51



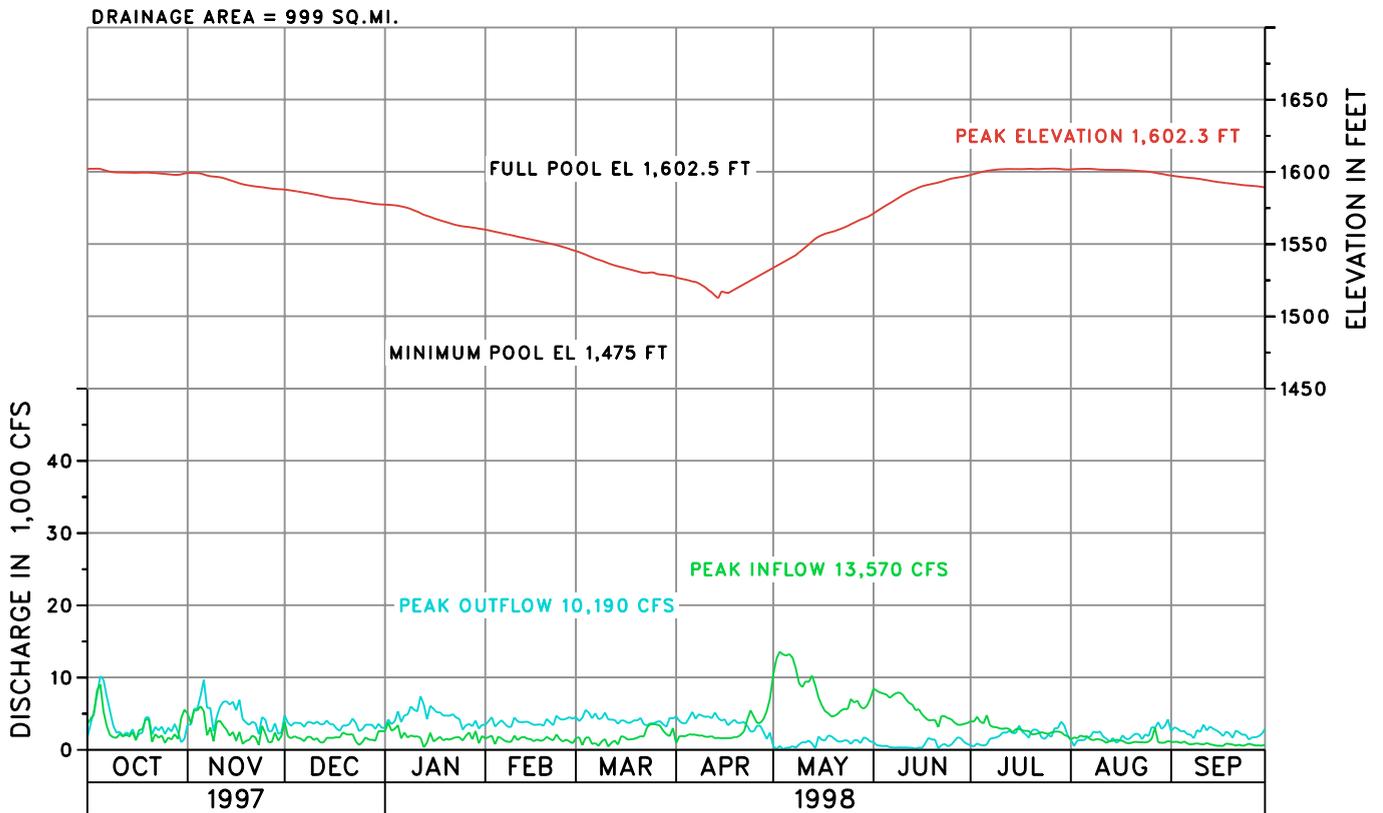
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 WHITE RIVER AT MUD MOUNTAIN PROJECT, WASHINGTON

Chart 52



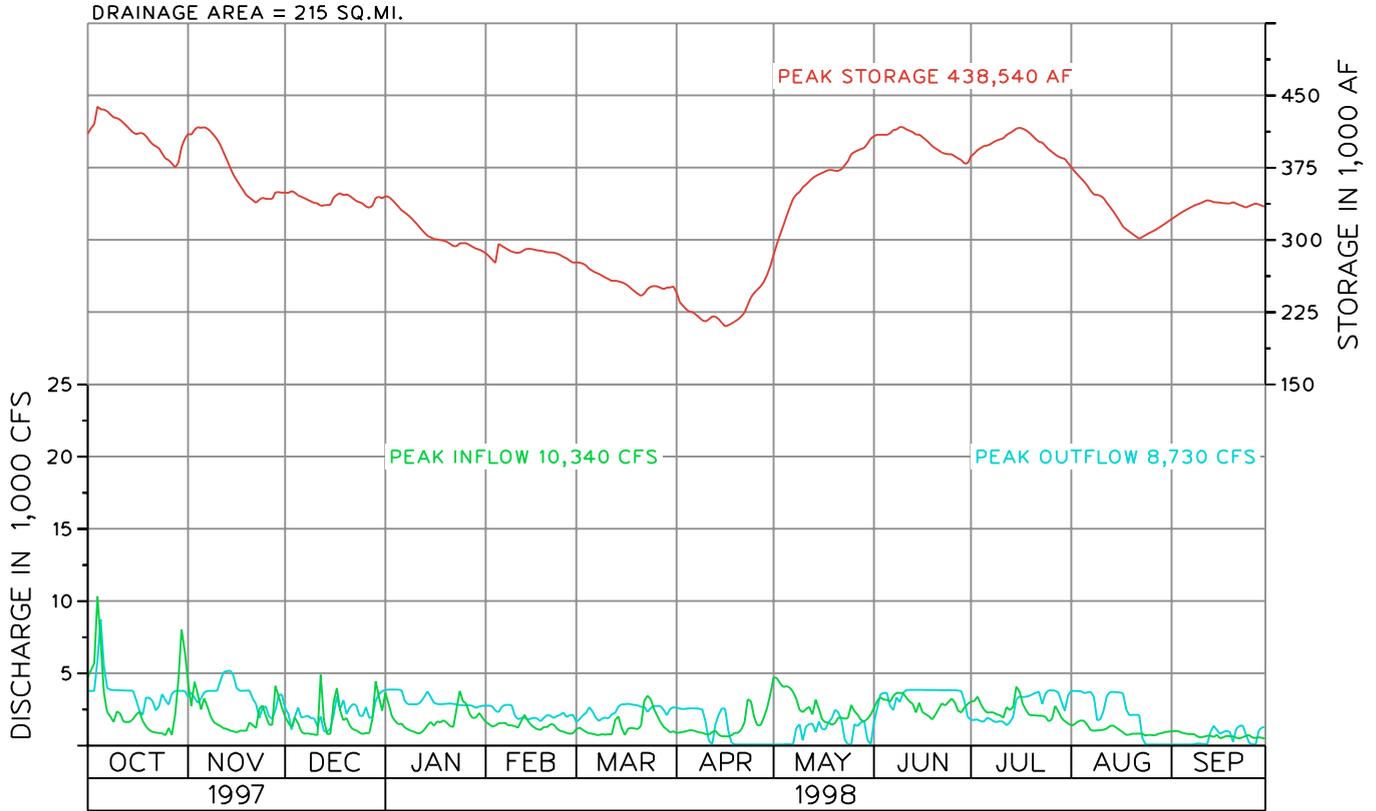
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 WYNOOCHEE RIVER AT WYNOOCHEE PROJECT, WASHINGTON

Chart 53



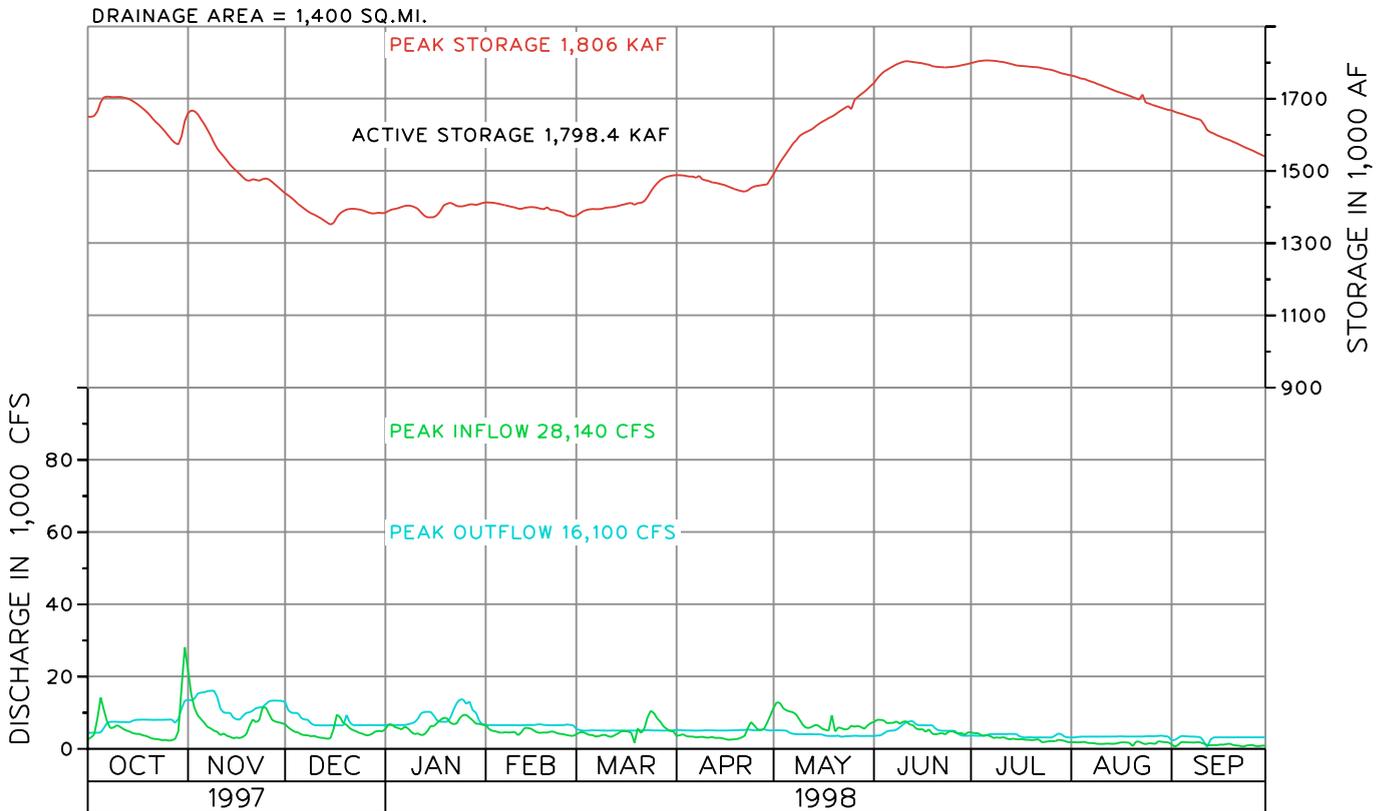
STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
 SKAGIT RIVER AT ROSS PROJECT, WASHINGTON

Chart 54



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998
BAKER RIVER AT UPPER BAKER PROJECT, OREGON

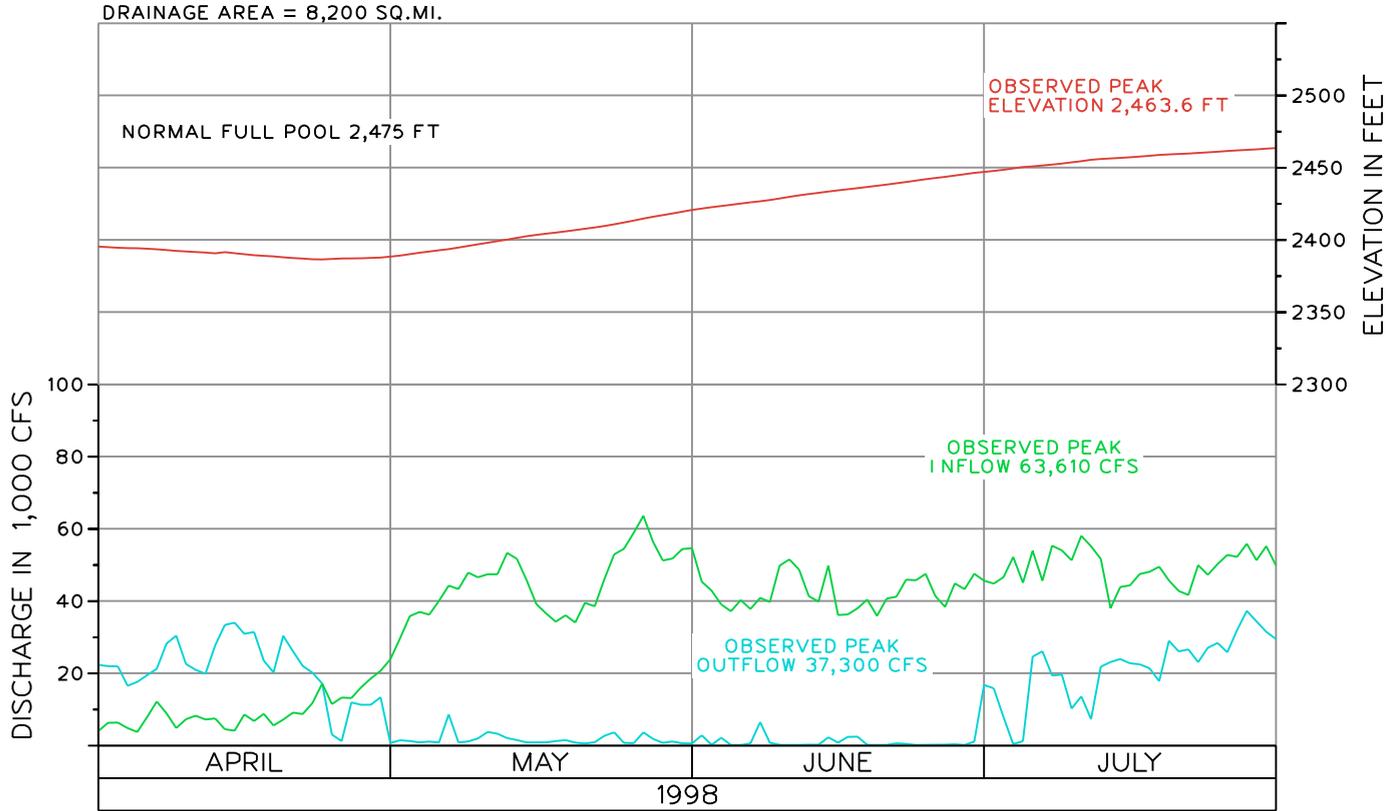
Chart 55



STORAGE AND STREAMFLOW HYDROGRAPHS 1997 - 1998

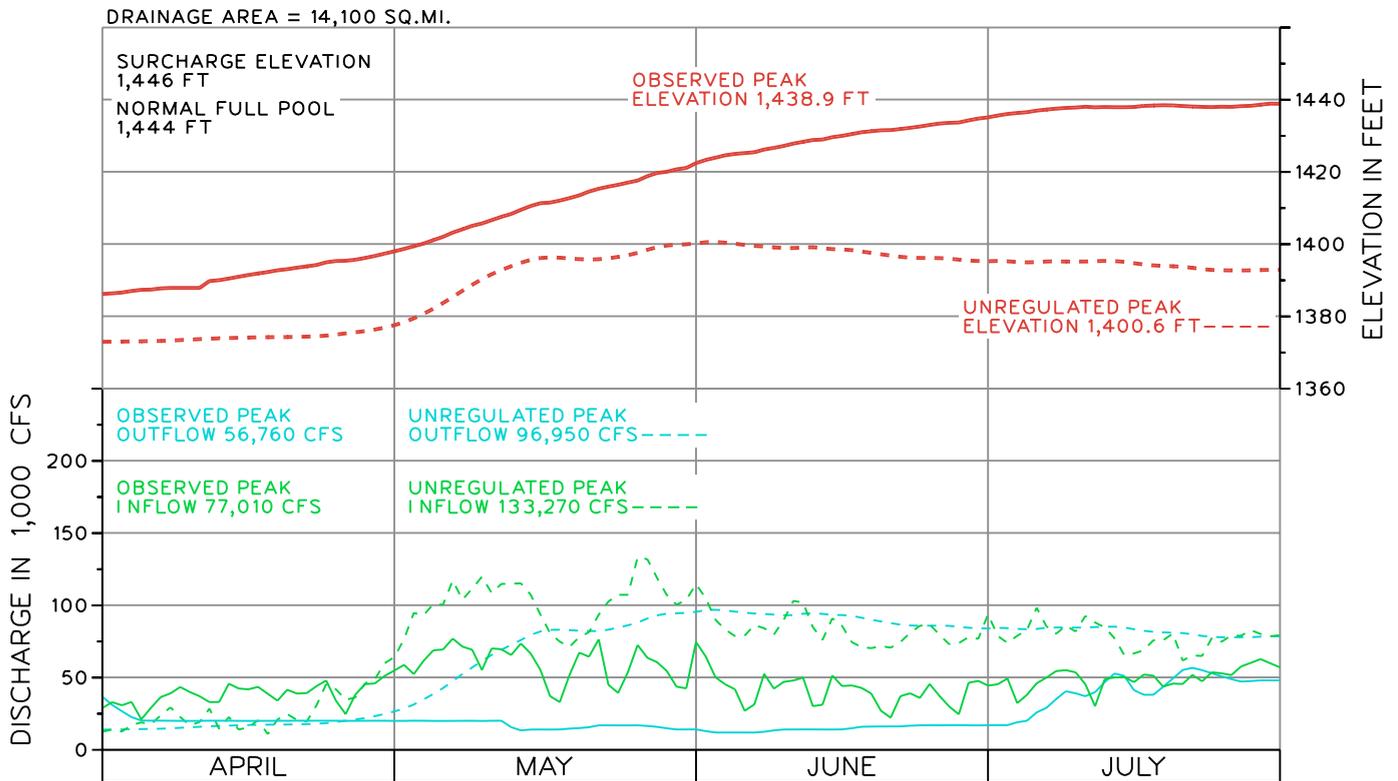
COWLITZ RIVER AT MAYFIELD/MOSSYROCK PROJECTS, WASHINGTON

Chart 56



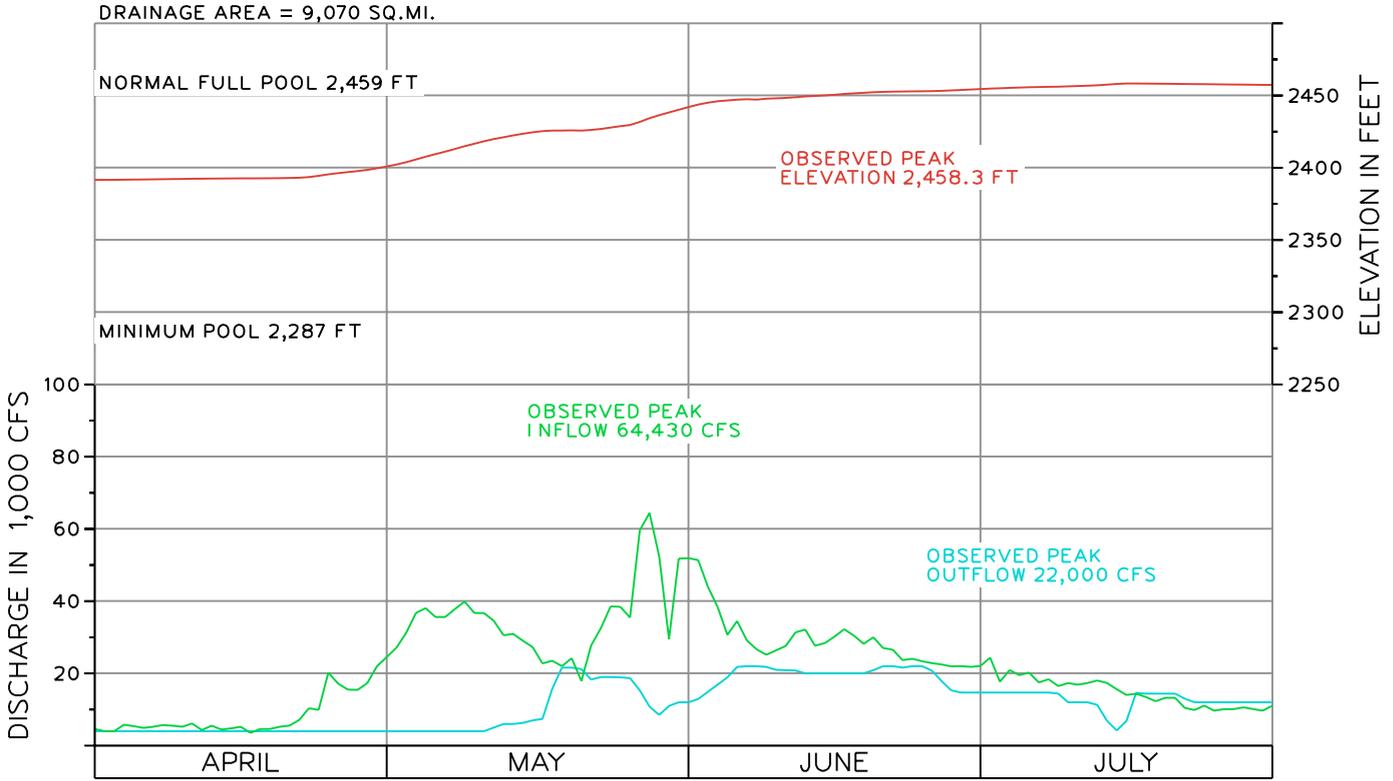
**1998 FLOOD REGULATION
COLUMBIA RIVER AT MICA PROJECT, BRITISH COLUMBIA**

Chart 57



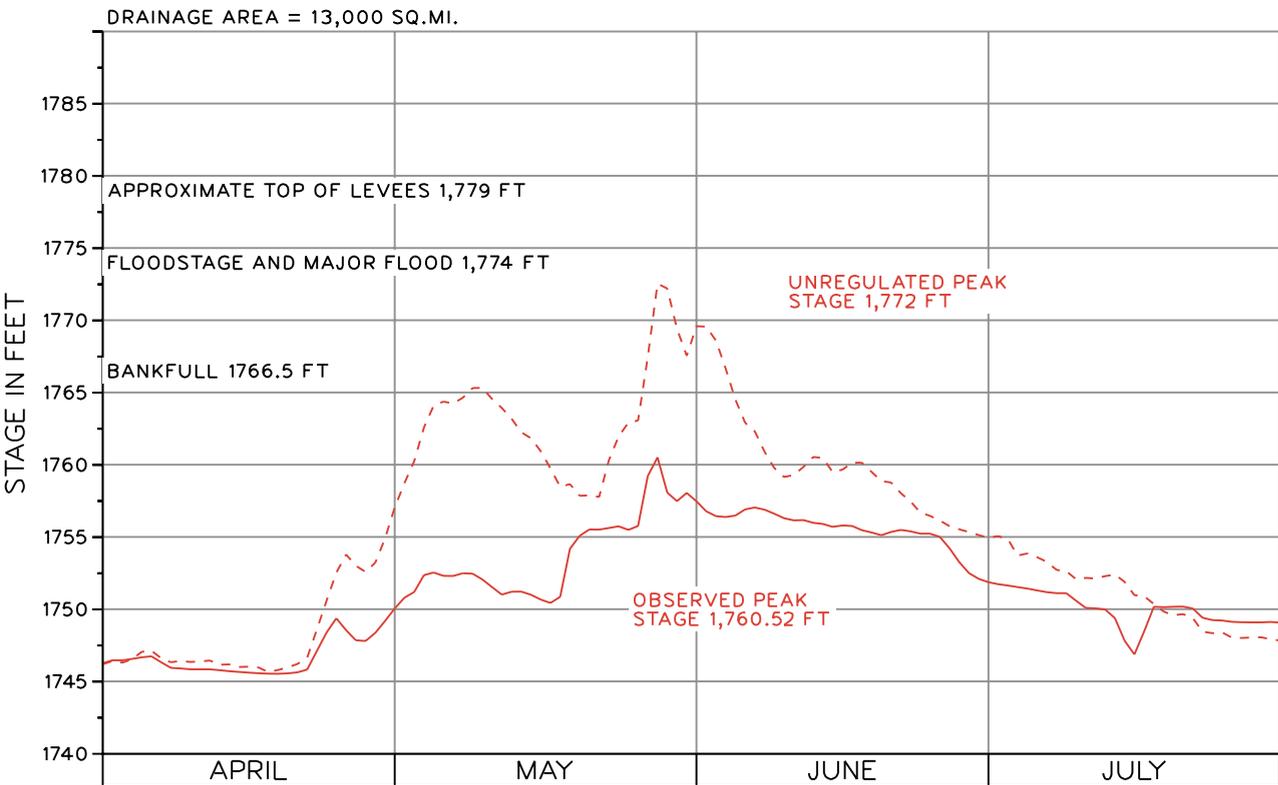
**1998 FLOOD REGULATION
COLUMBIA RIVER AT ARROW PROJECT, BRITISH COLUMBIA**

Chart 58



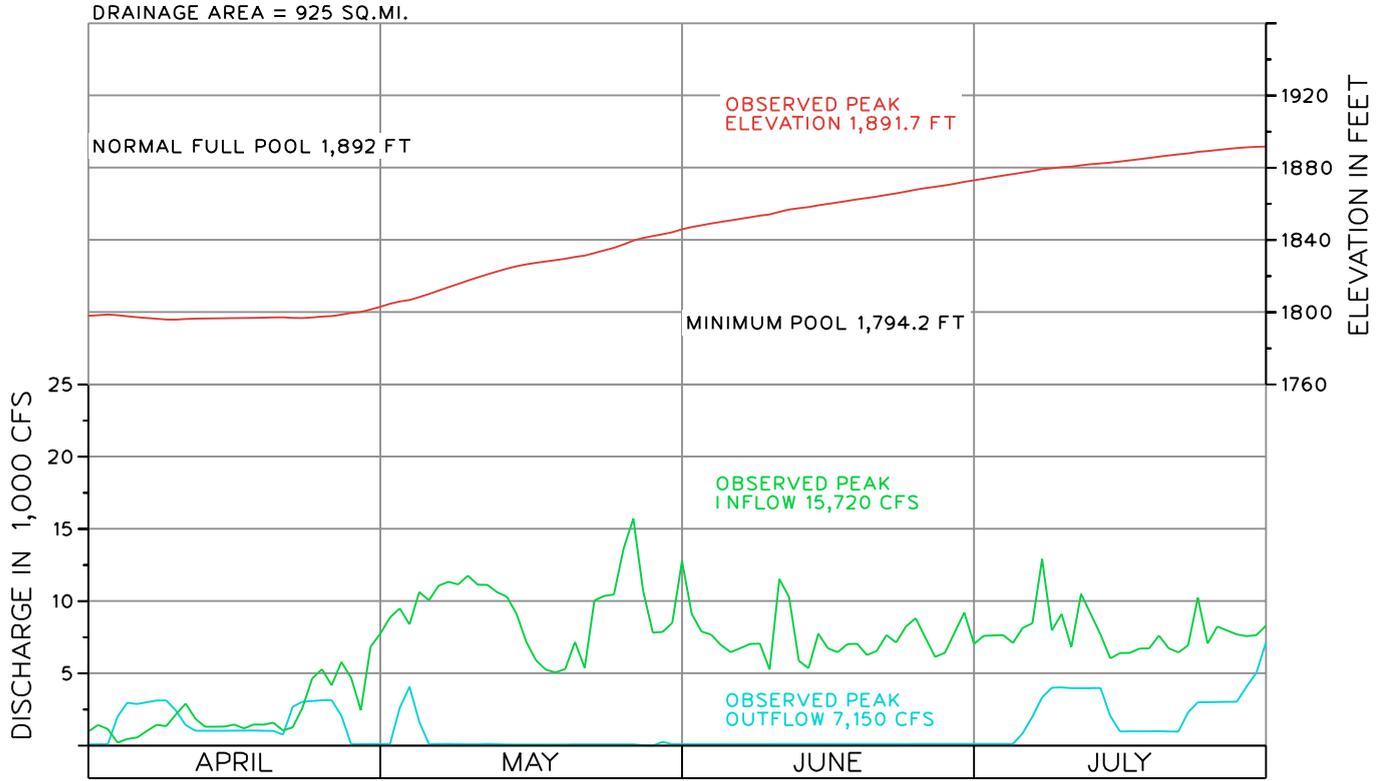
**1998 FLOOD REGULATION
KOOTENAI RIVER AT LIBBY PROJECT, MONTANA**

Chart 59



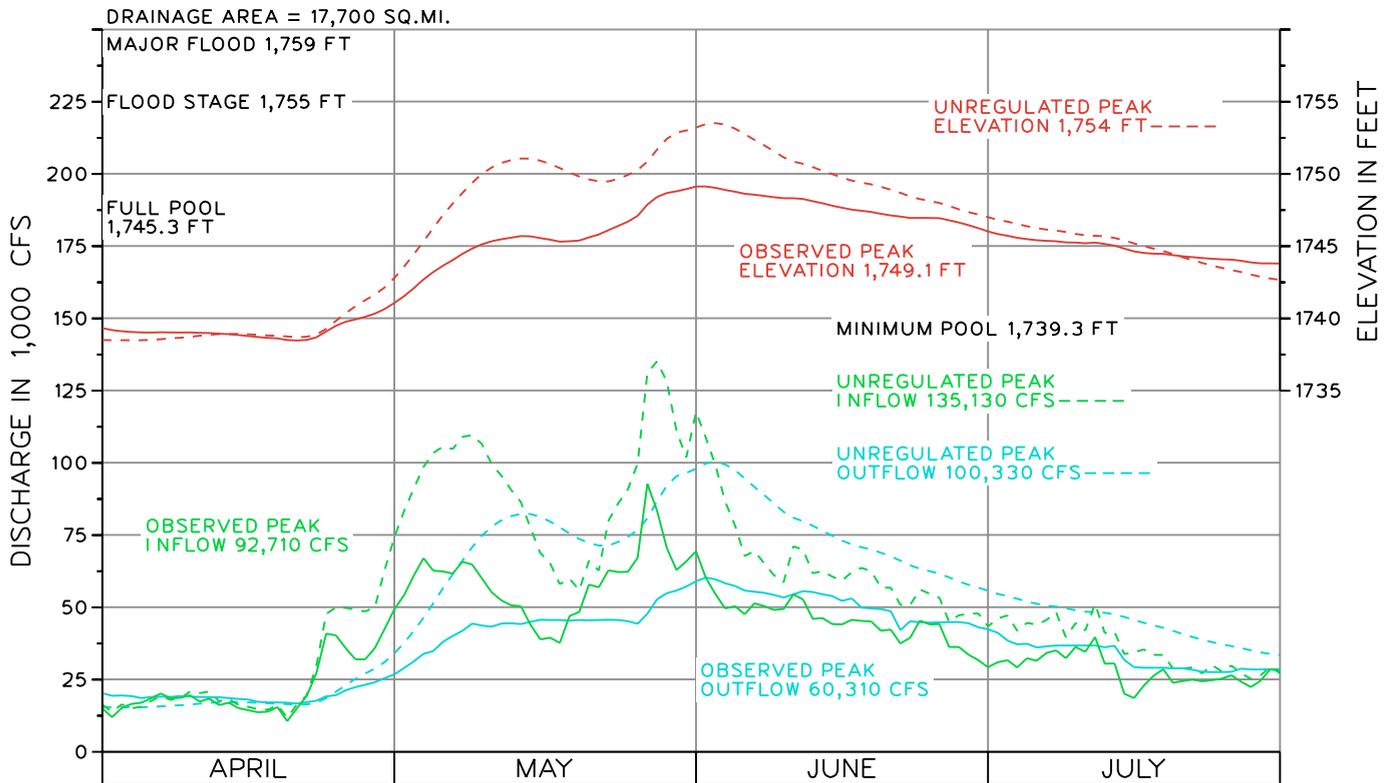
**1998 FLOOD REGULATION
KOOTENAI RIVER AT BONNERS FERRY, IDAHO**

Chart 60



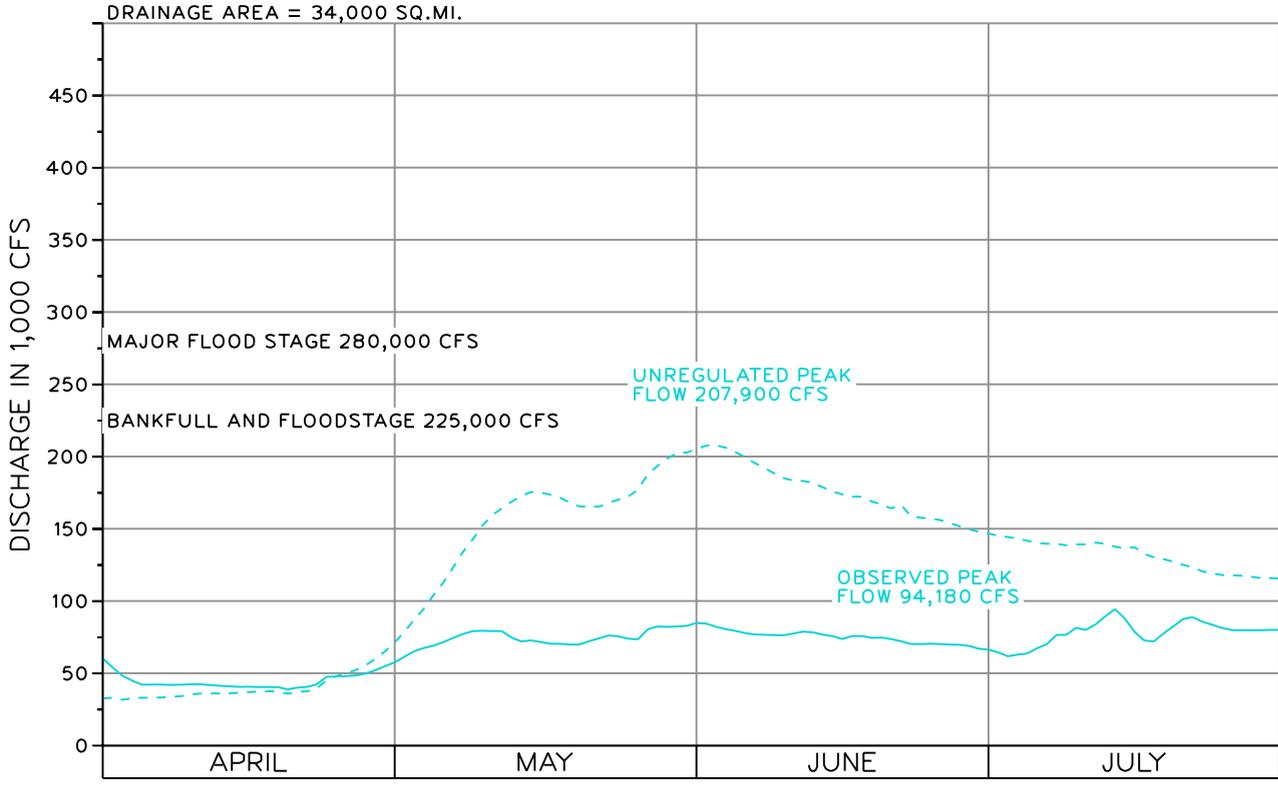
1998 FLOOD REGULATION
DUNCAN RIVER AT DUNCAN PROJECT, BRITISH COLUMBIA

Chart 61



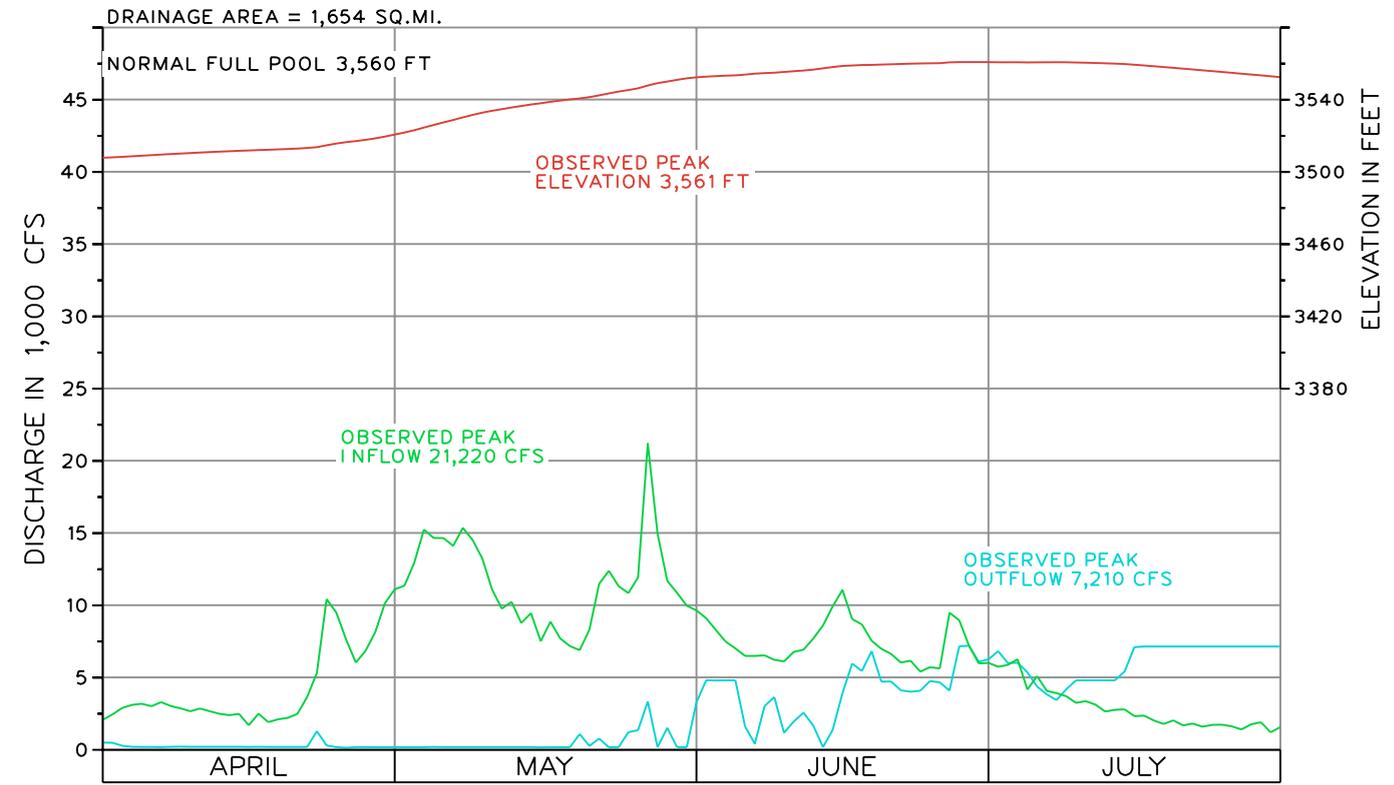
1998 FLOOD REGULATION
KOOTENAY RIVER AT KOOTENAY LAKE, BRITISH COLUMBIA

Chart 62



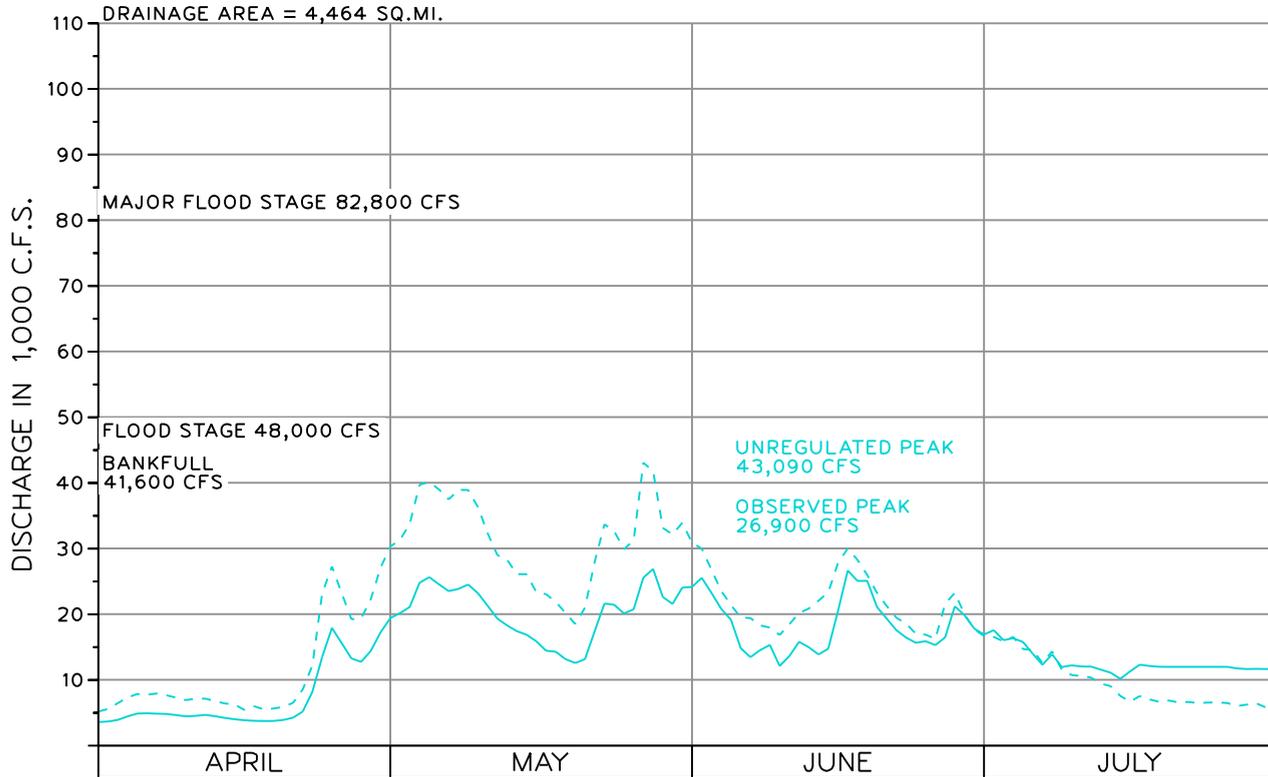
1998 FLOOD REGULATION
COLUMBIA RIVER AT BIRCHBANK, BRITISH COLUMBIA

Chart 63



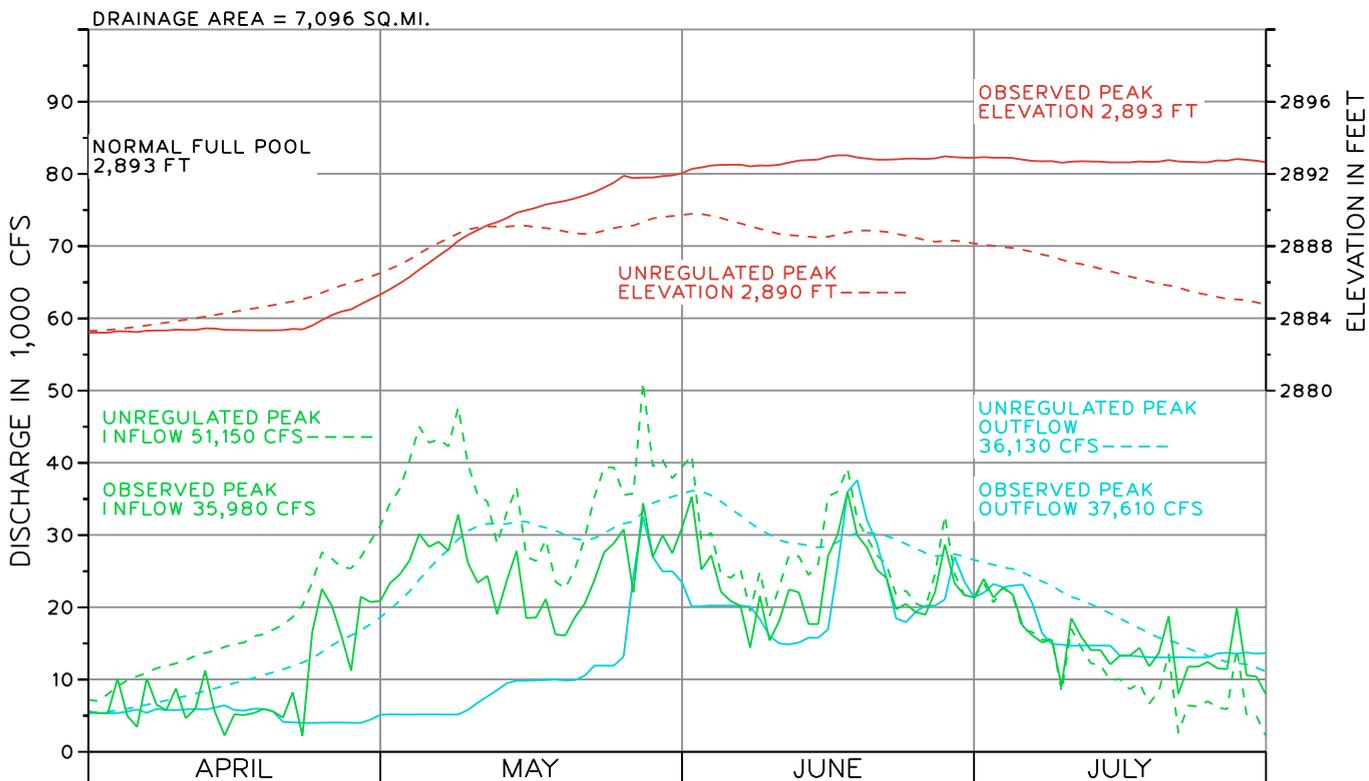
1998 FLOOD REGULATION
SOUTH FORK FLATHEAD RIVER AT HUNGRY HORSE, MONTANA

Chart 64



1998 FLOOD REGULATION
 FLATHEAD RIVER AT COLUMBIA FALLS, MONTANA

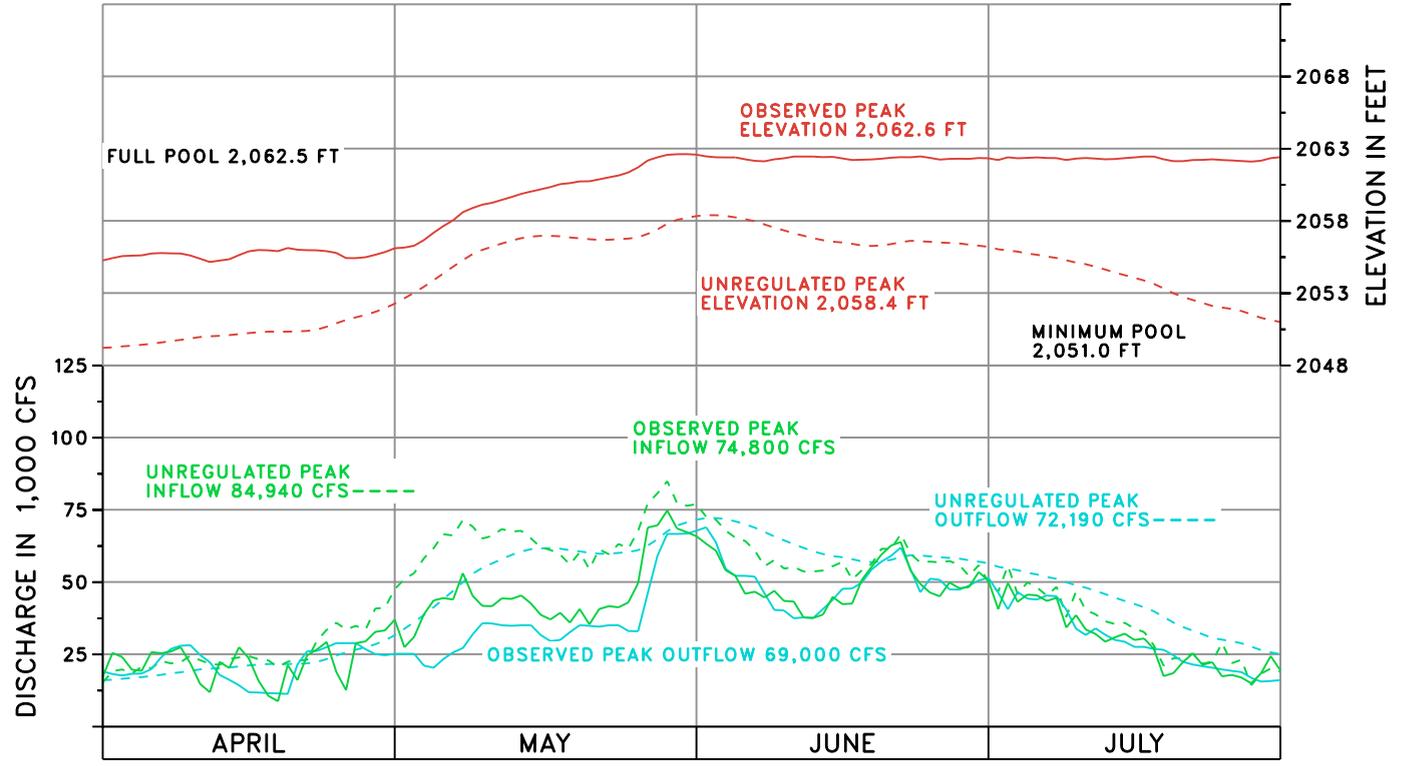
Chart 65



1998 FLOOD REGULATION
 FLATHEAD RIVER AT FLATHEAD LAKE, MONTANA

Chart 66

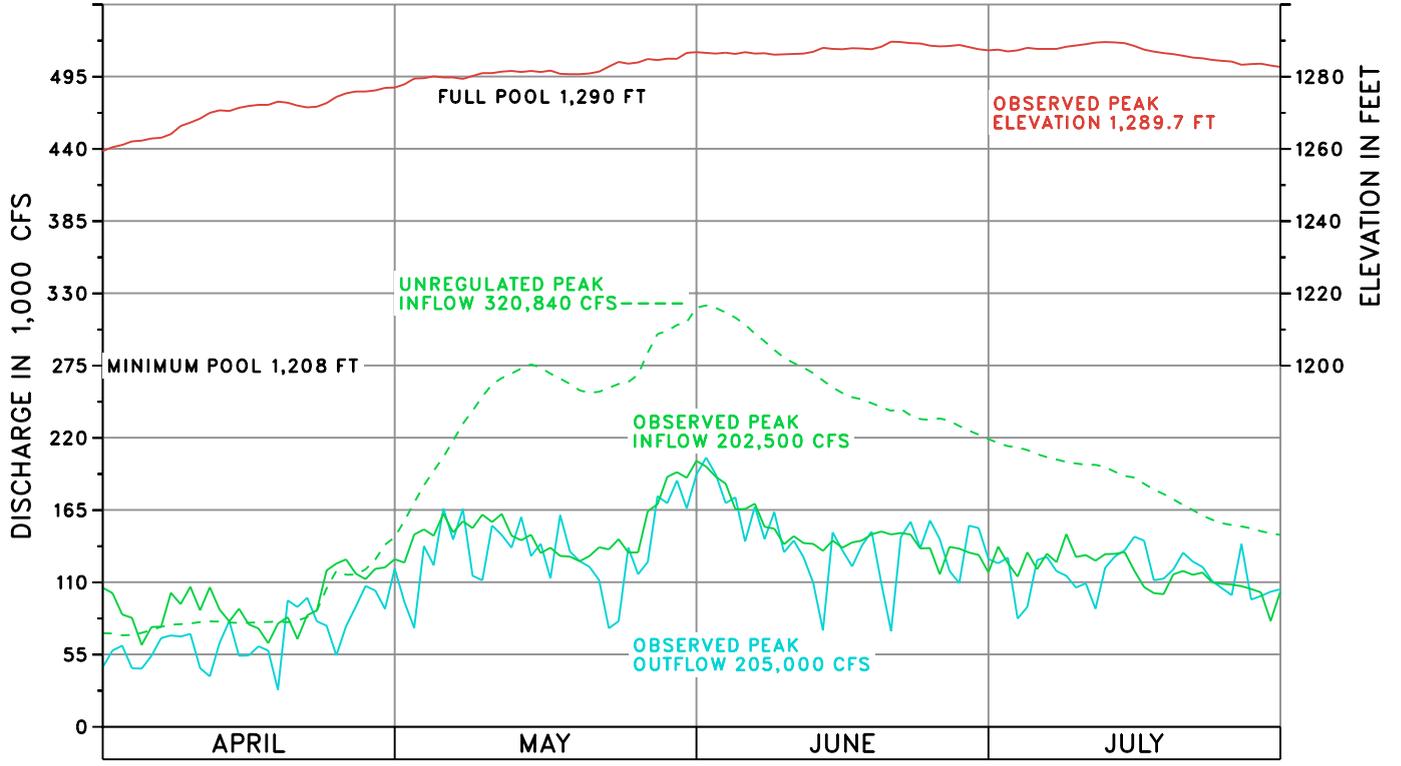
DRAINAGE AREA = 24,200 SQ. MI.



1998 FLOOD REGULATION
PEND OREILLE RIVER AT PEND OREILLE LAKE, IDAHO

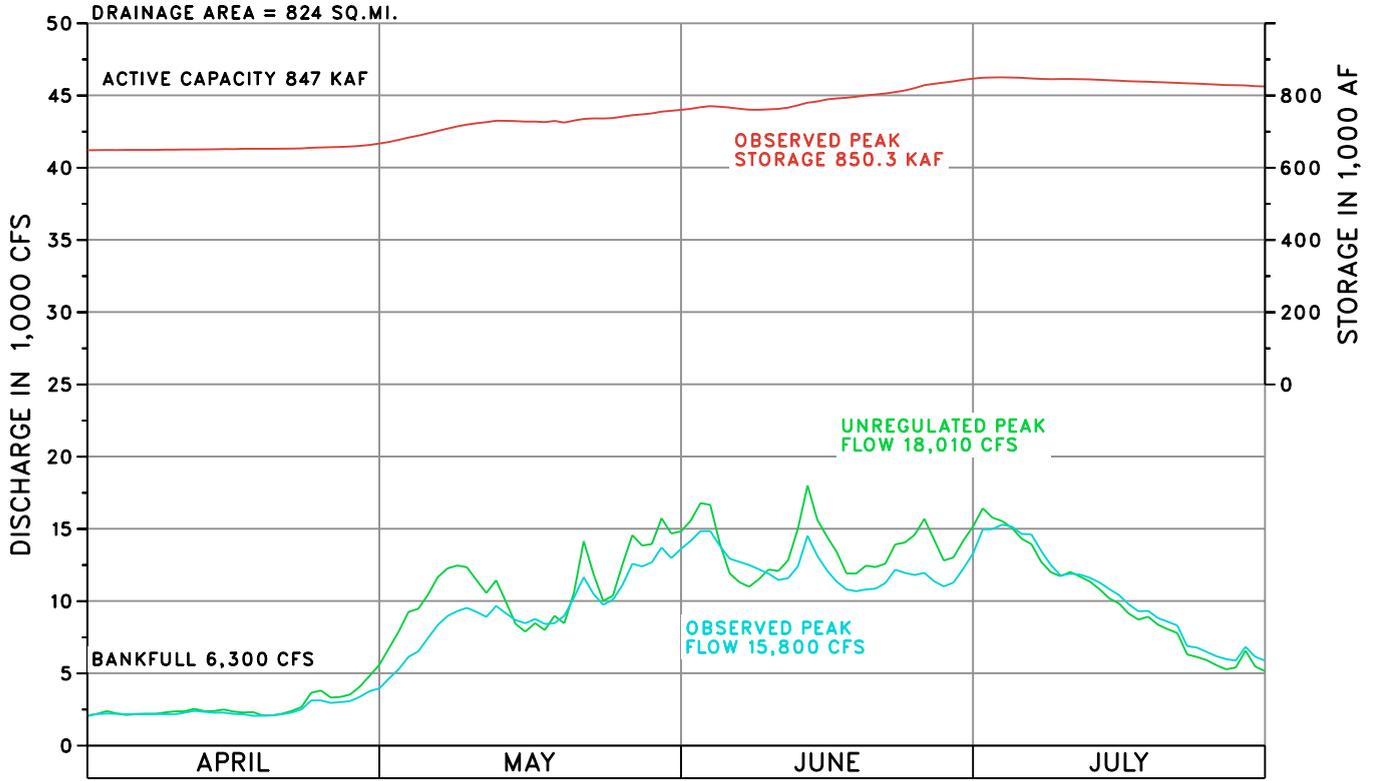
Chart 67

DRAINAGE AREA = 74,100 SQ. MI.



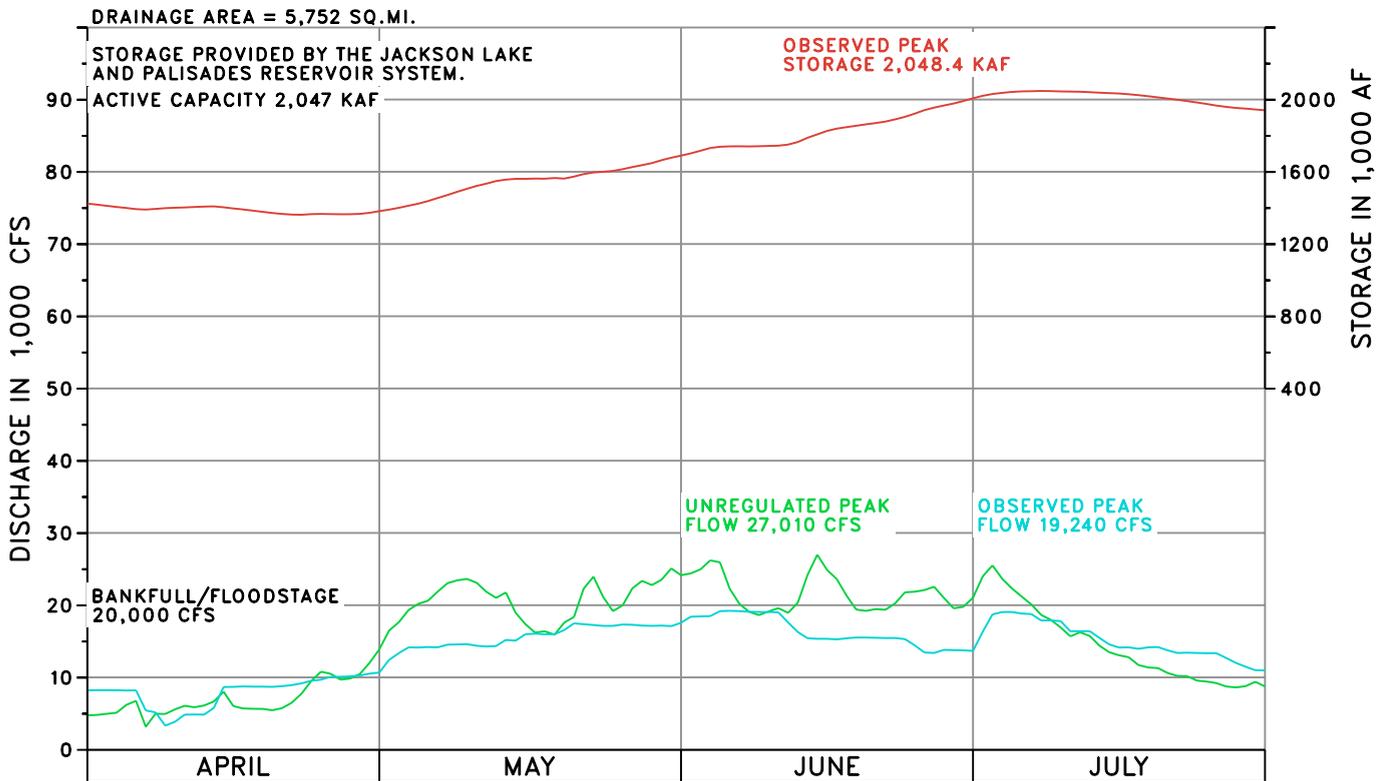
1998 FLOOD REGULATION
COLUMBIA RIVER AT GRAND COULEE PROJECT, WASHINGTON

Chart 68



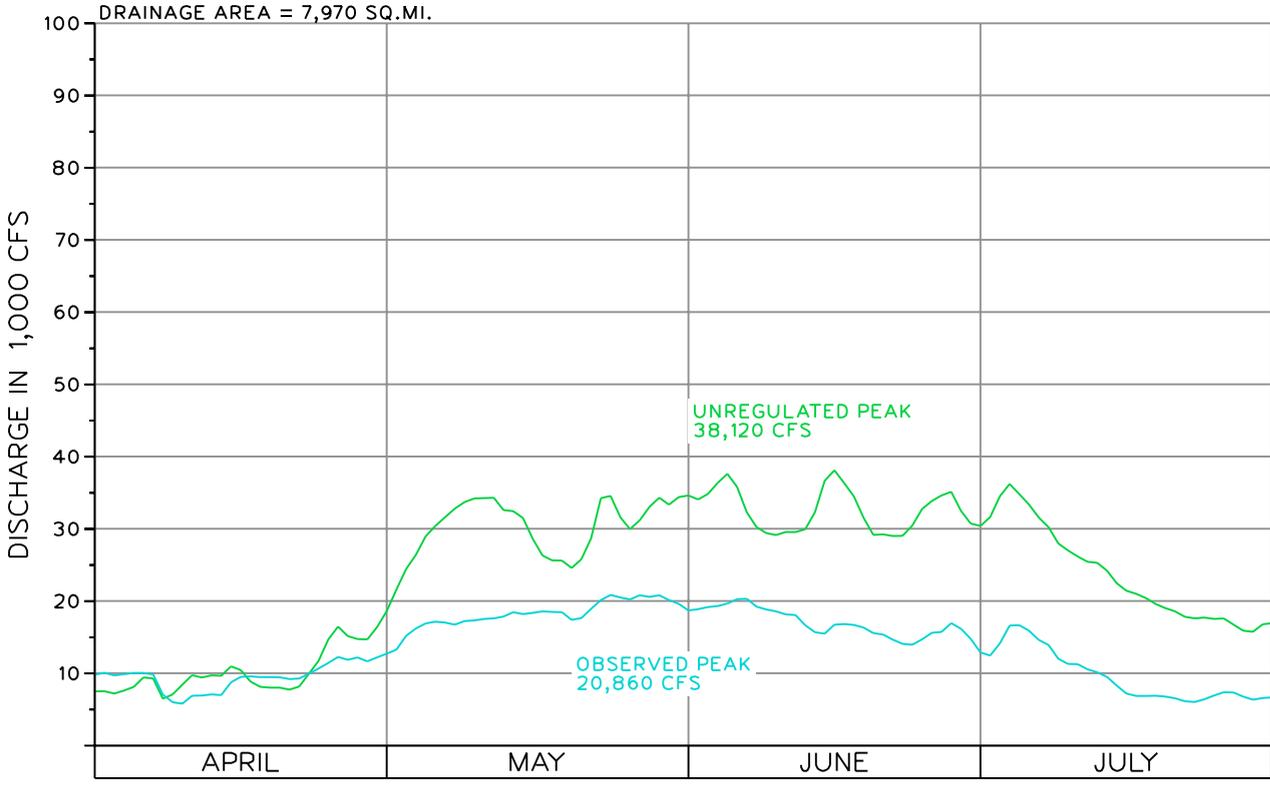
1998 FLOOD REGULATION
 SNAKE RIVER BELOW JACKSON LAKE, WYOMING

Chart 69



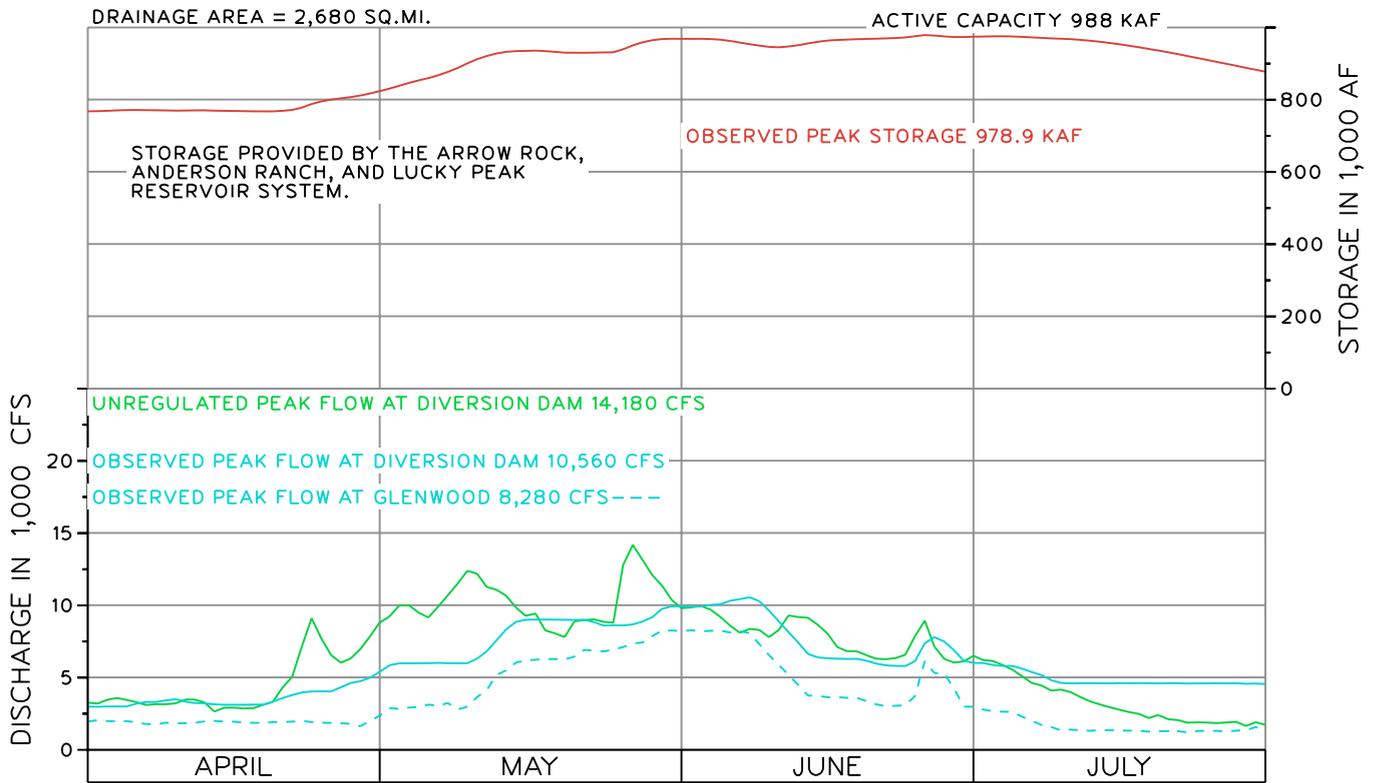
1998 FLOOD REGULATION
 SNAKE RIVER NEAR HEISE, IDAHO

Chart 70



1998 FLOOD REGULATION
SNAKE RIVER NEAR SHELLEY, IDAHO

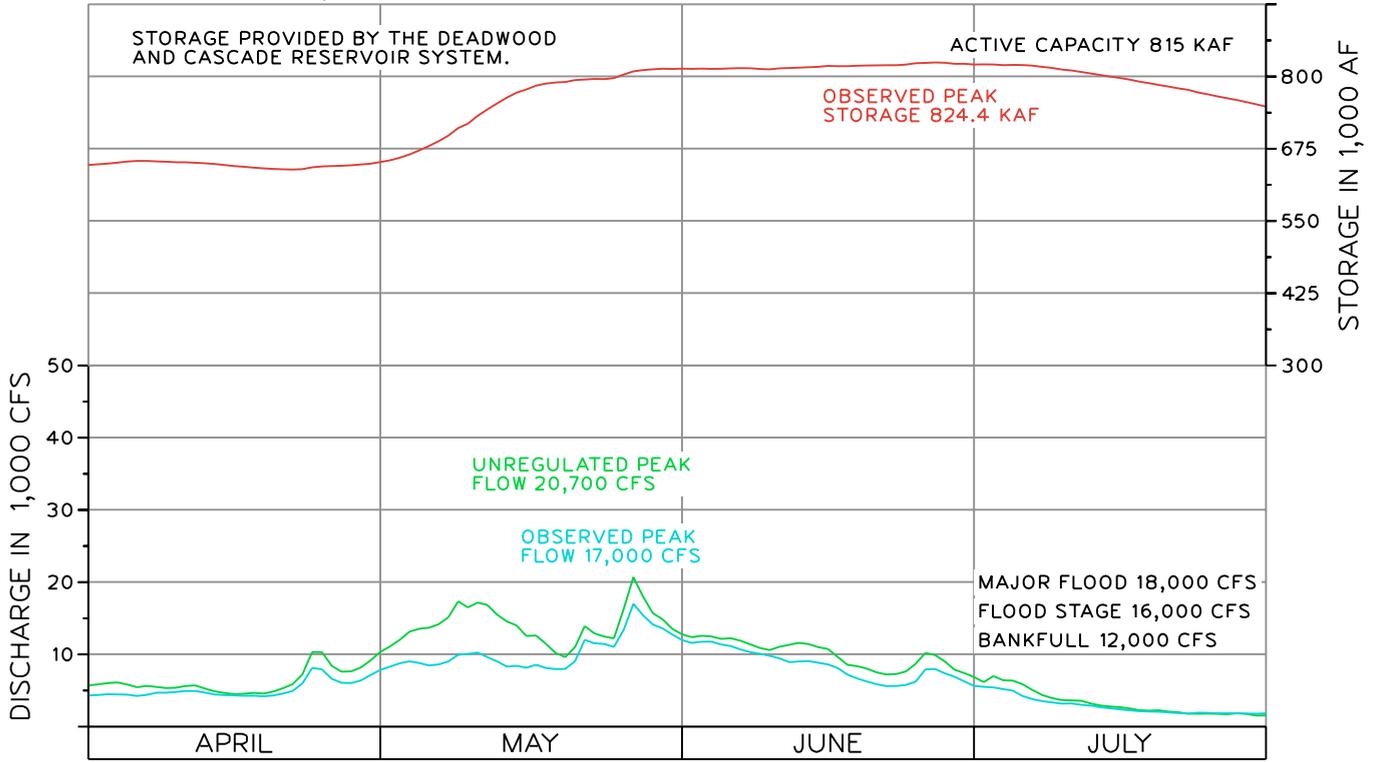
Chart 71



1998 FLOOD REGULATION
BOISE RIVER AT AND NEAR BOISE, IDAHO

Chart 72

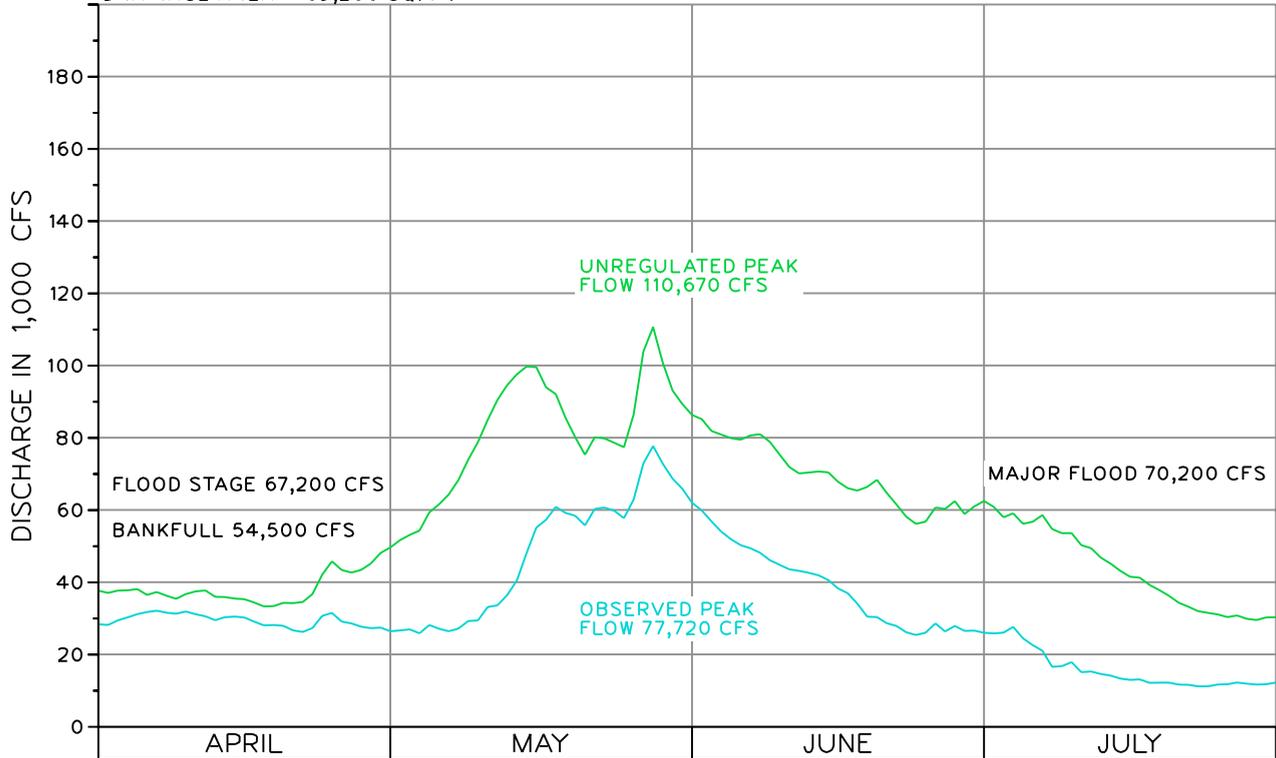
DRAINAGE AREA = 26,80 SQ.MI.



1998 FLOOD REGULATION
PAYETTE RIVER NEAR EMMETT, IDAHO

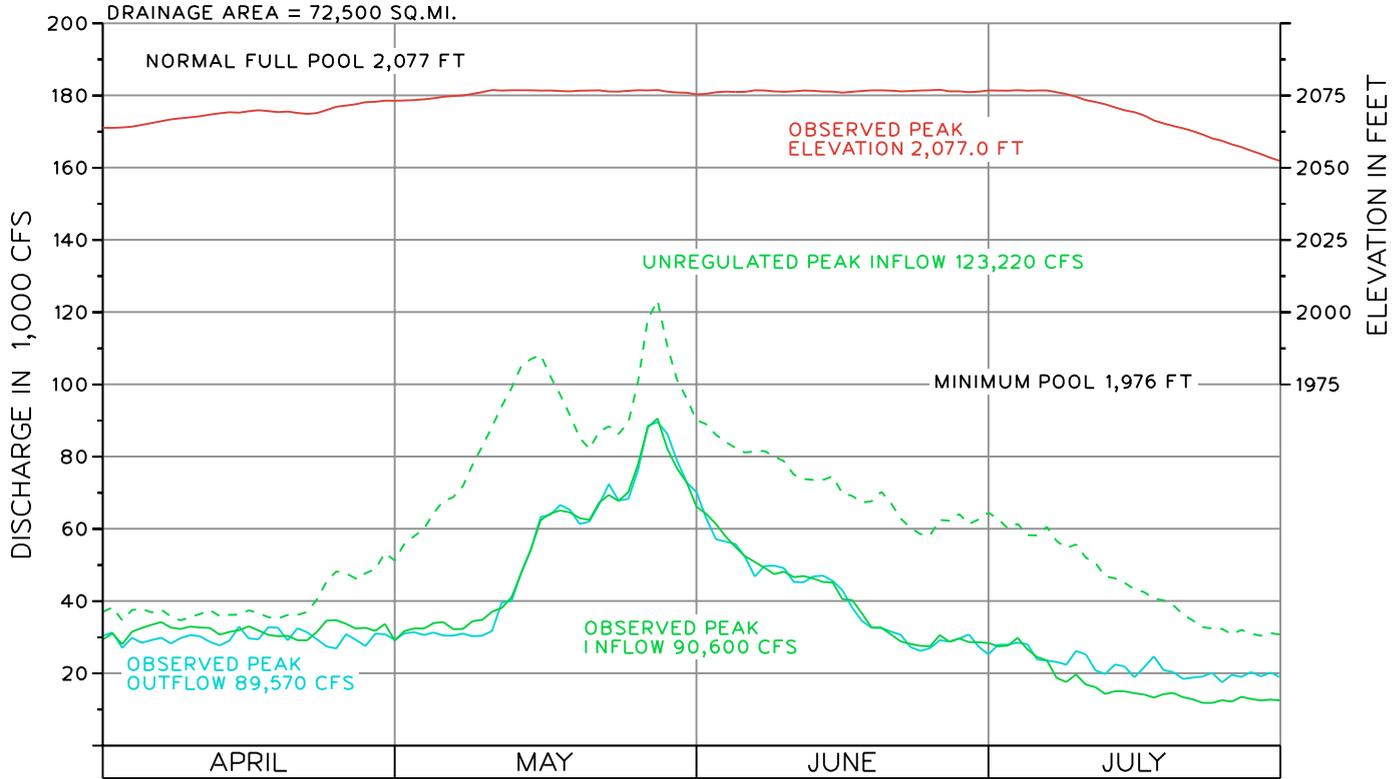
Chart 73

DRAINAGE AREA = 69,200 SQ.MI.



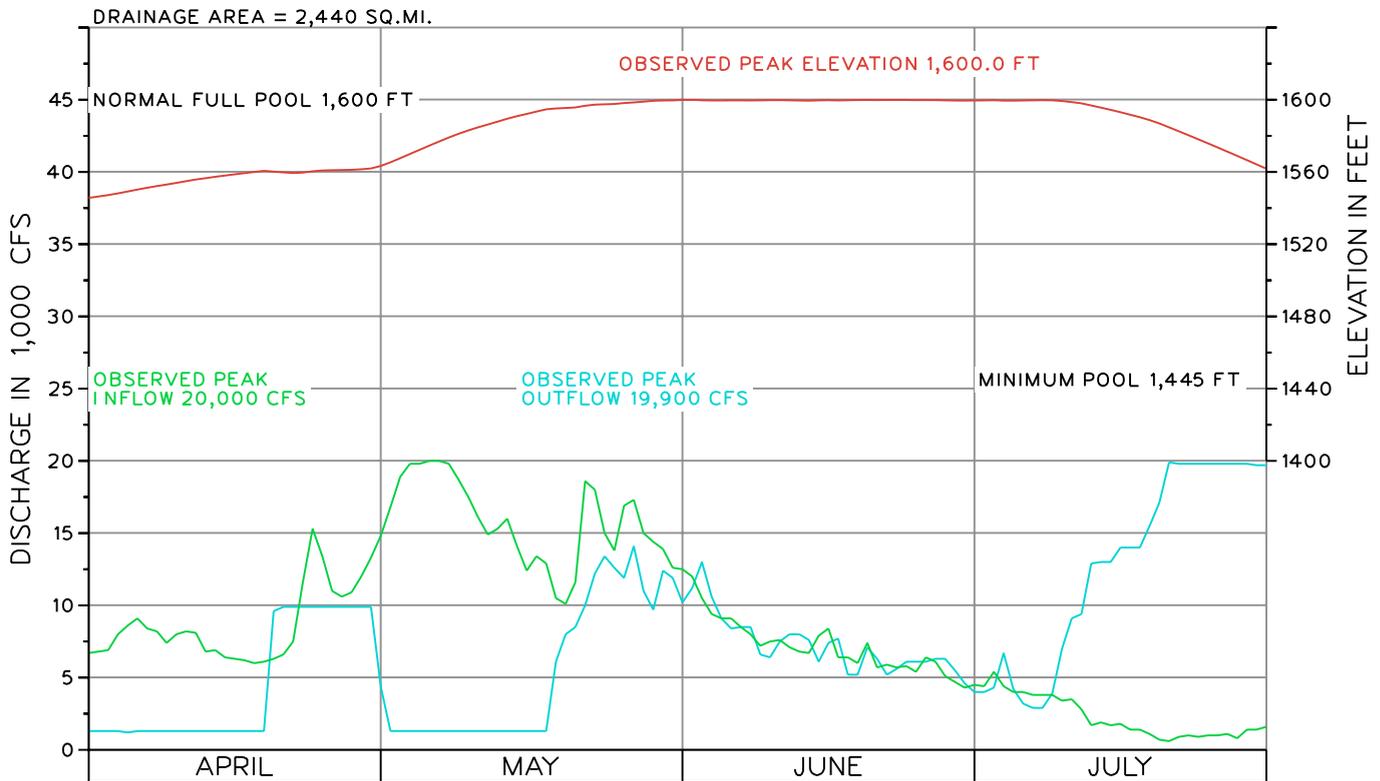
1998 FLOOD REGULATION
SNAKE RIVER AT WEISER, IDAHO

Chart 74



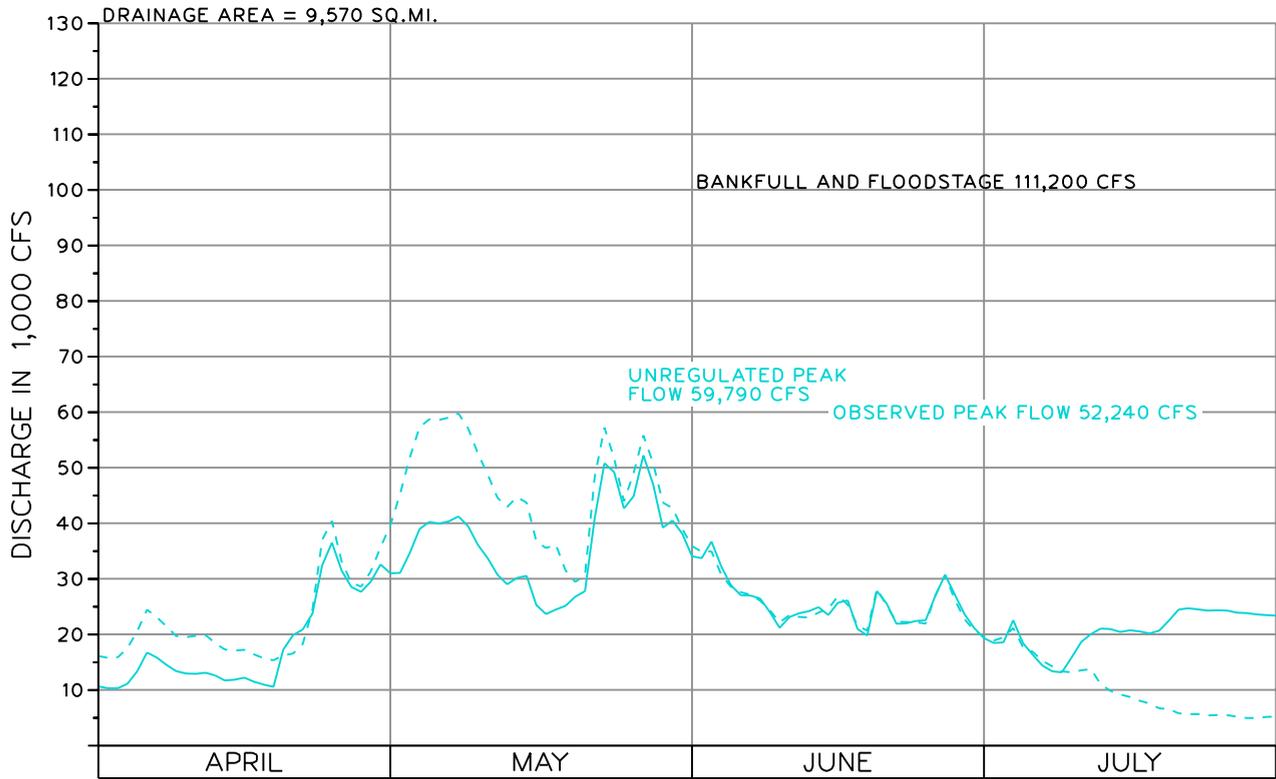
**1998 FLOOD REGULATION
SNAKE RIVER AT BROWNLEE PROJECT, IDAHO-OREGON**

Chart 75



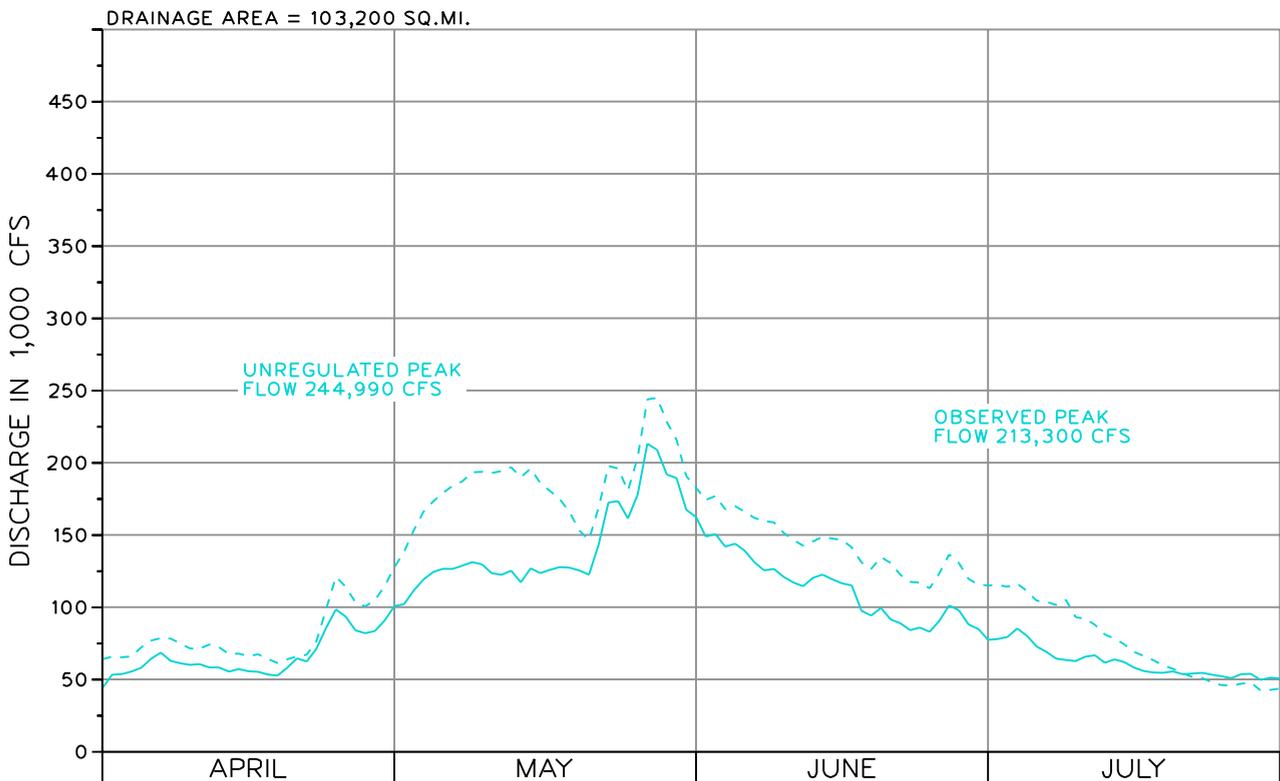
**1998 FLOOD REGULATION
NORTH FORK CLEARWATER RIVER AT DWORSHAK PROJECT, IDAHO**

Chart 76



1998 FLOOD REGULATION
CLEARWATER RIVER AT SPALDING, IDAHO

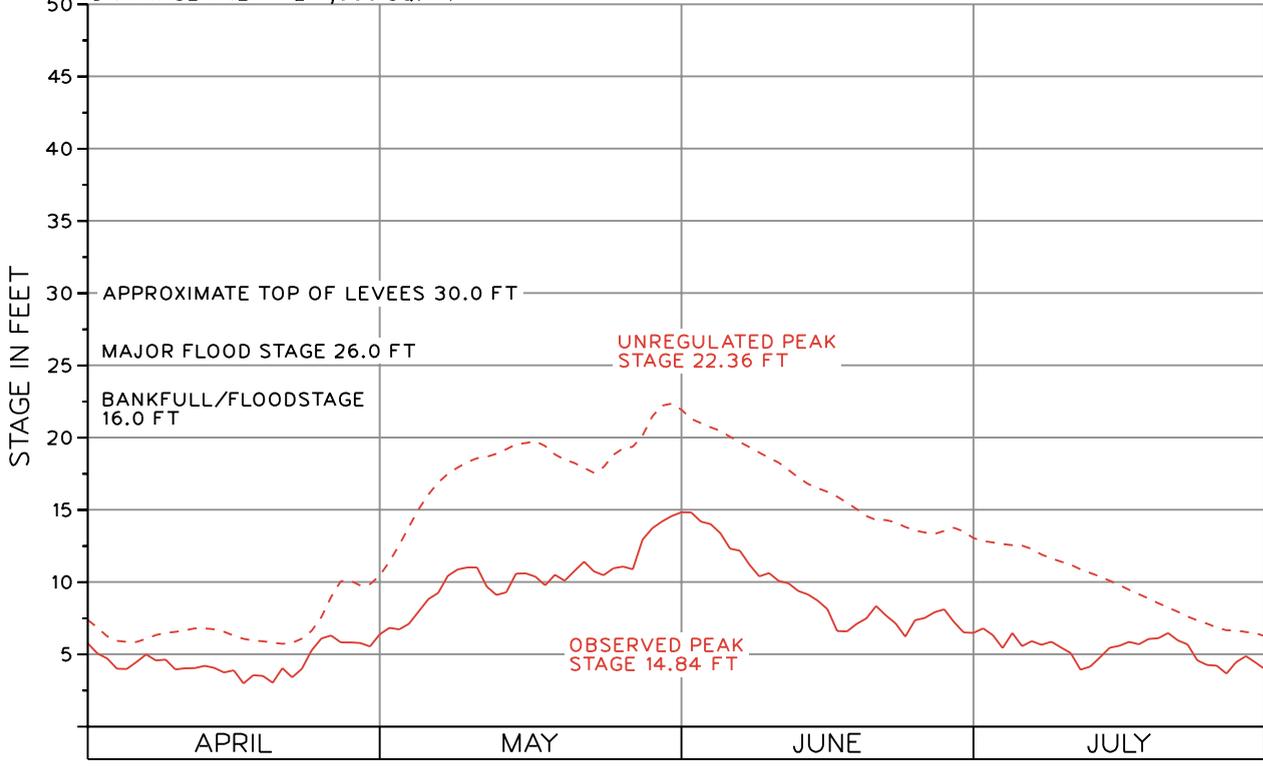
Chart 77



1998 FLOOD REGULATION
SNAKE RIVER BELOW LOWER GRANITE DAM, WASHINGTON

Chart 78

DRAINAGE AREA = 241,000 SQ.MI.



**1998 FLOOD REGULATION
COLUMBIA RIVER AT VANCOUVER, WASHINGTON**

Chart 79

1998 FLOOD REGULATION Columbia River at The Dalles

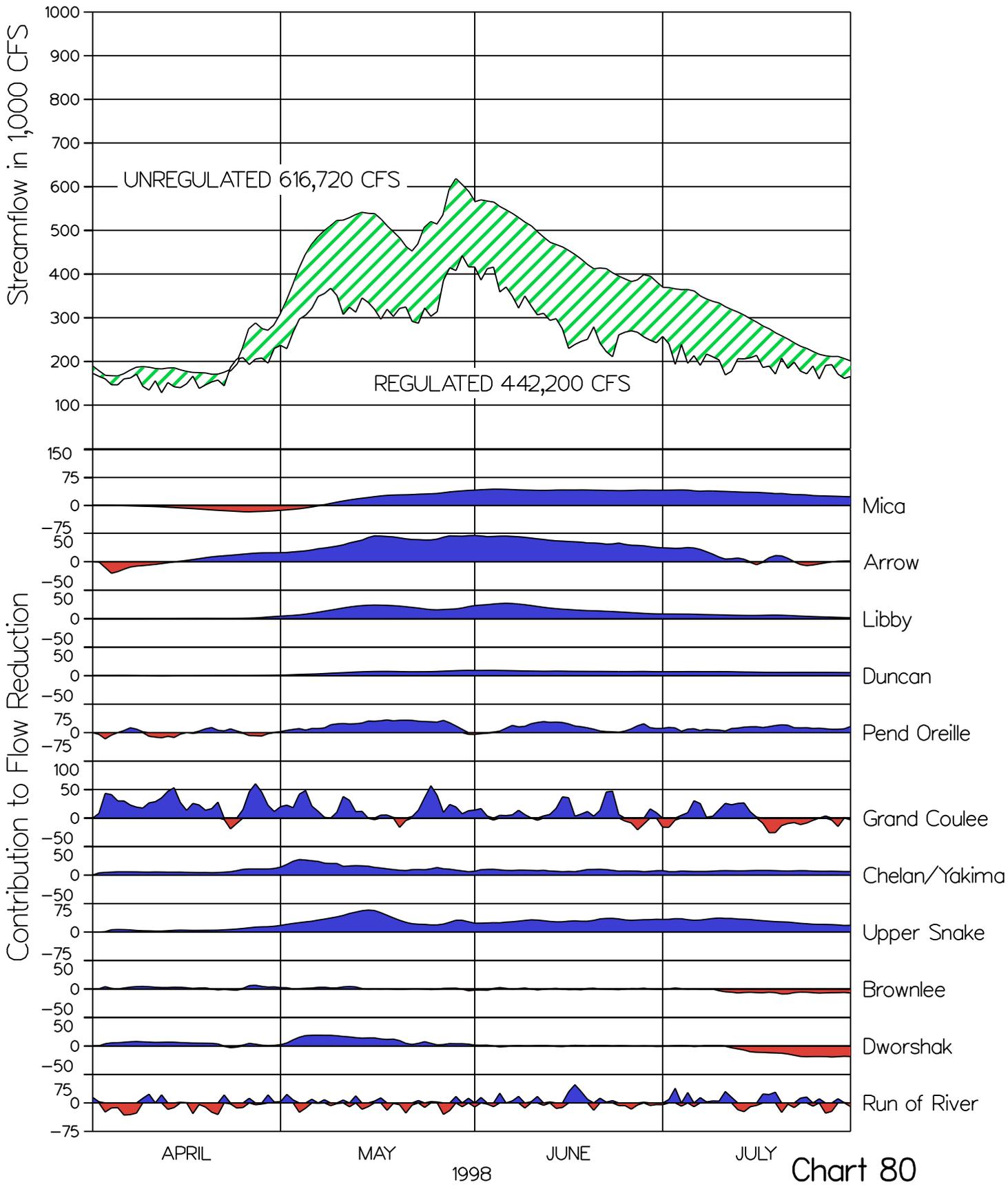
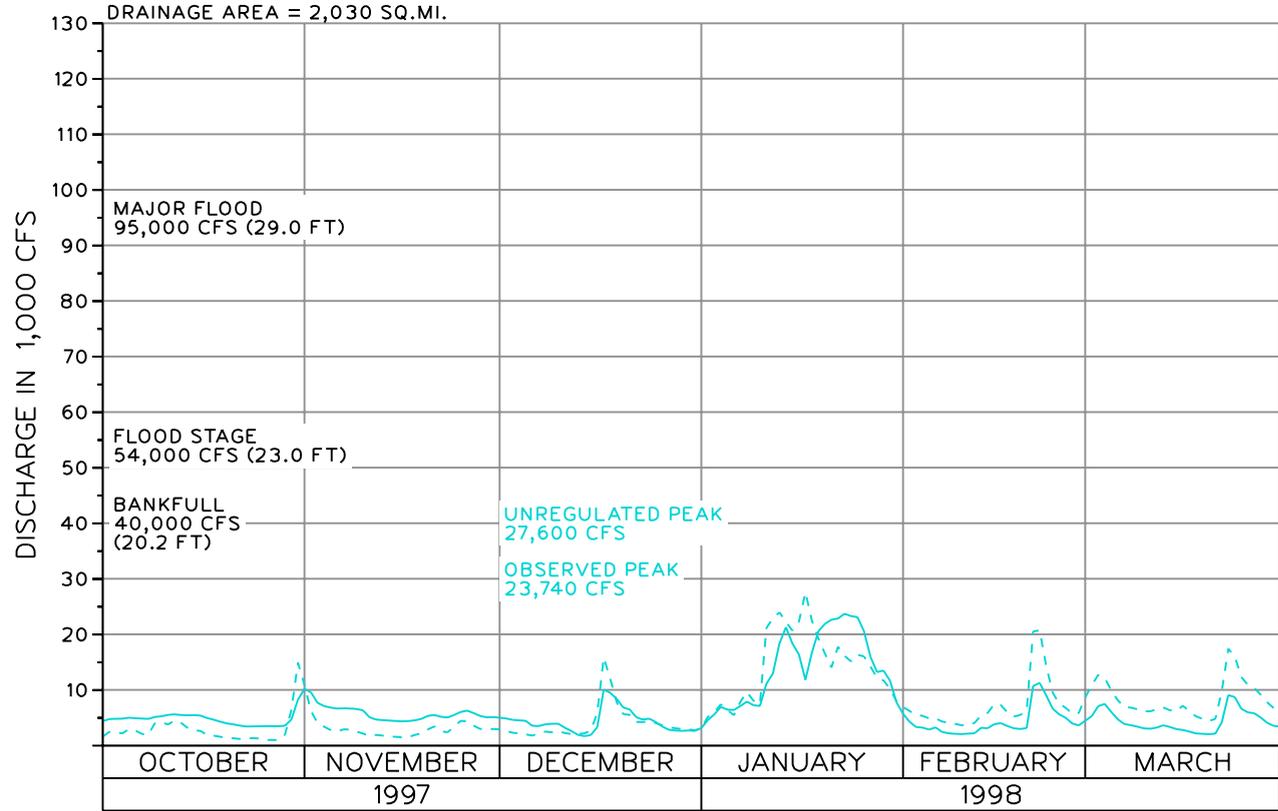
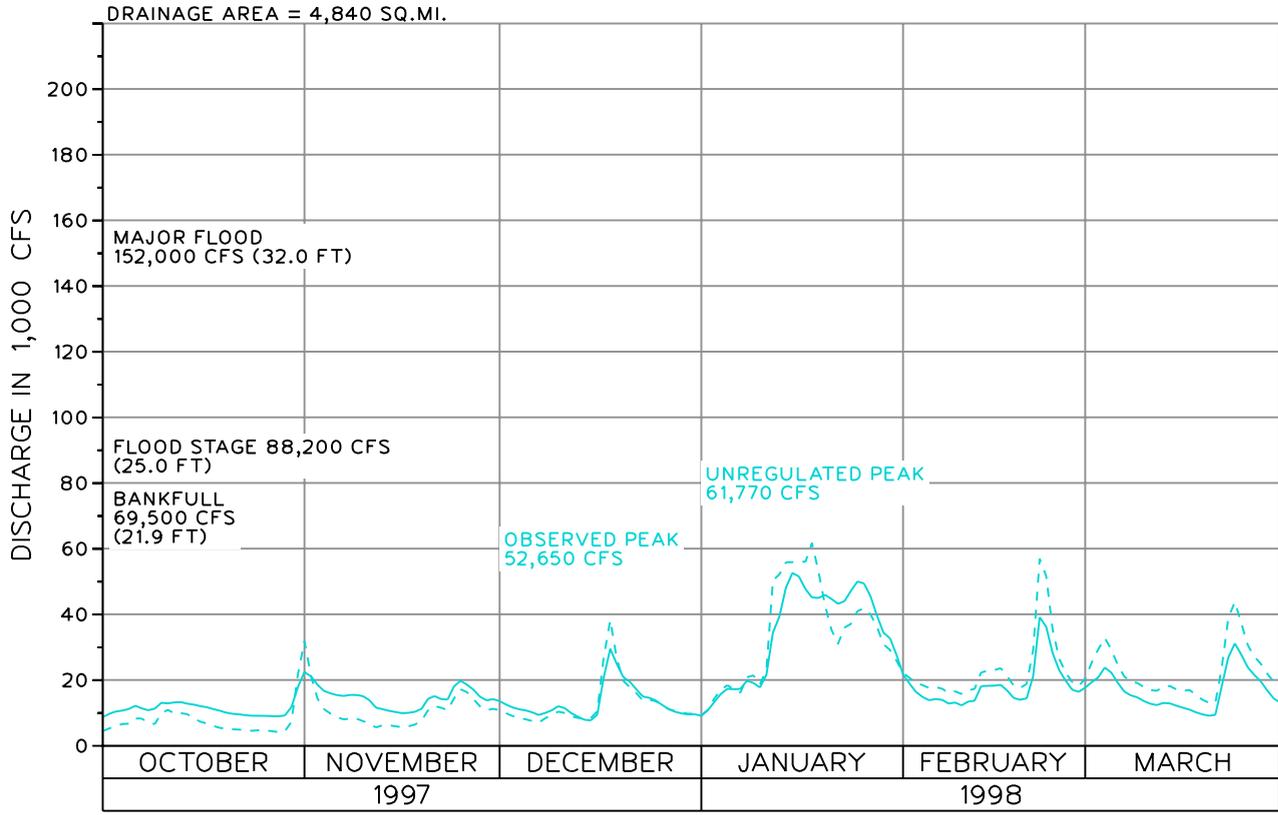


Chart 80



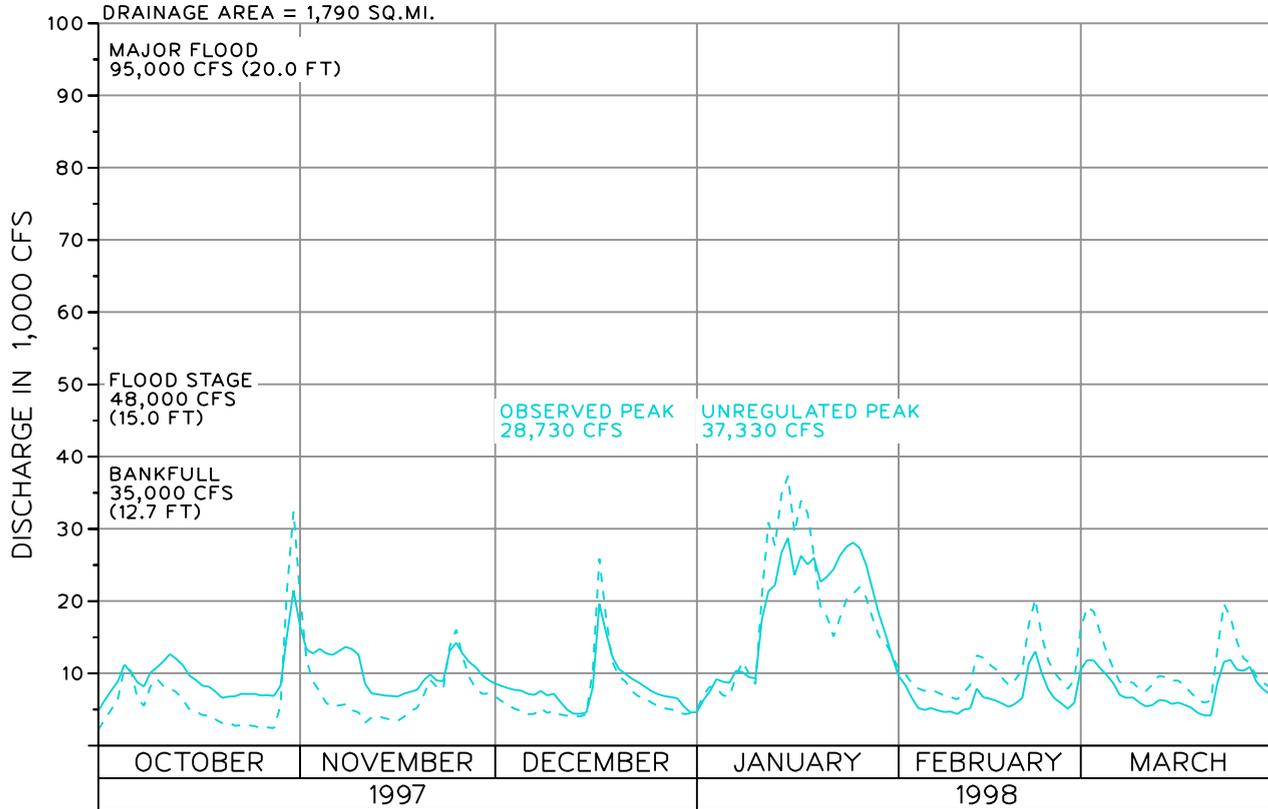
1997/98 FLOOD REGULATION
WILLAMETTE RIVER AT EUGENE, OREGON

Chart 81



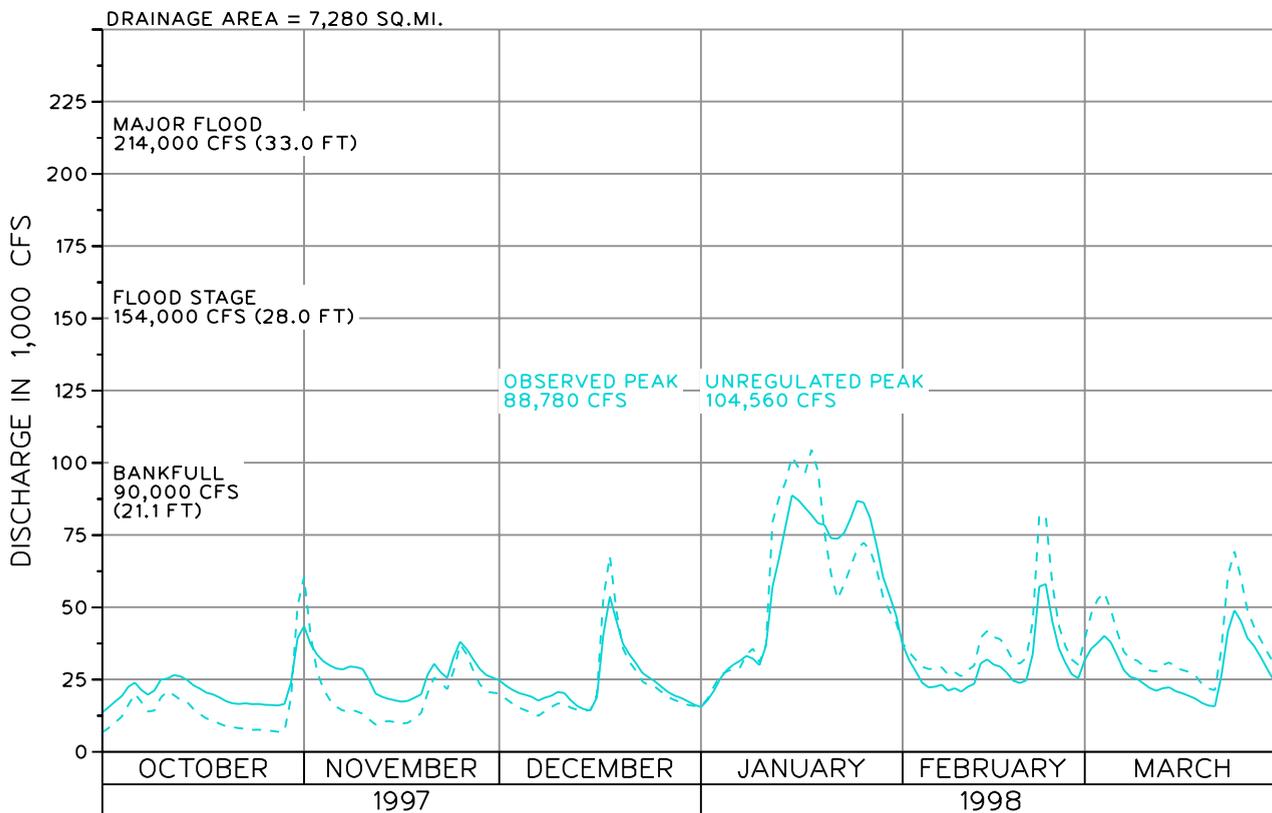
1997/98 FLOOD REGULATION
WILLAMETTE RIVER AT ALBANY, OREGON

Chart 82



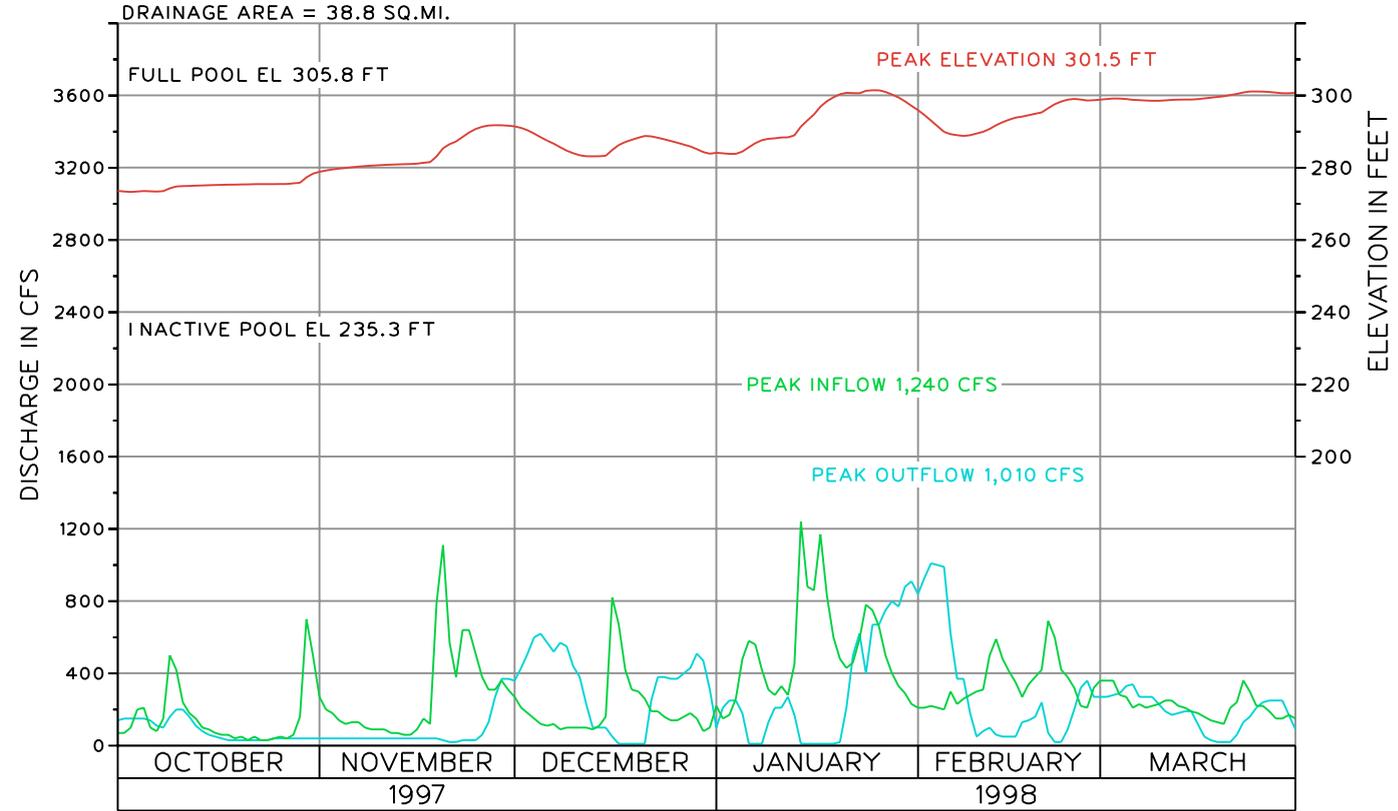
1997/98 FLOOD REGULATION
SANTIAM RIVER AT JEFFERSON, OREGON

Chart 83



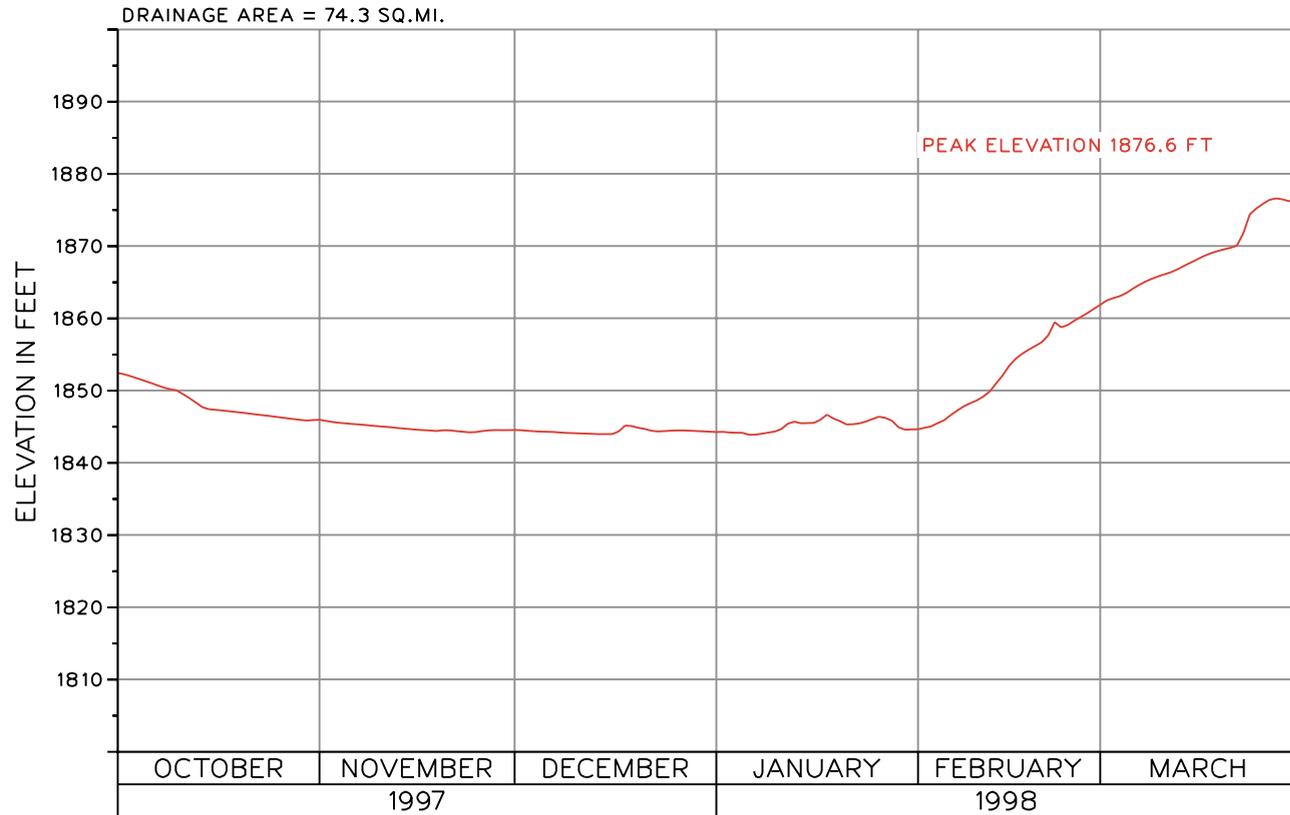
1997/98 FLOOD REGULATION
WILLAMETTE RIVER AT SALEM, OREGON

Chart 84



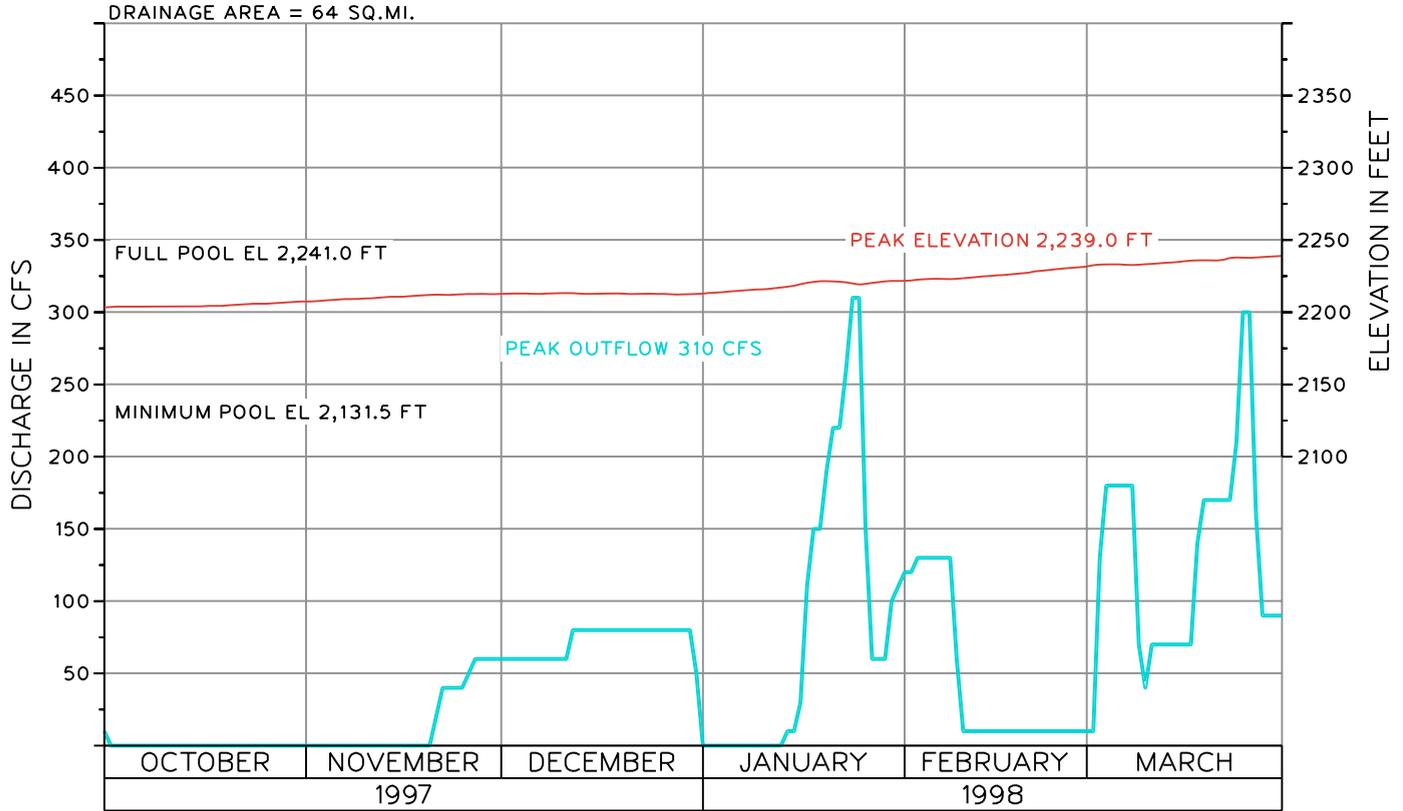
1997/98 FLOOD REGULATION
 SCOGGINS DAM & HENRY HAGG LAKE NEAR GASTON, OREGON

Chart 85



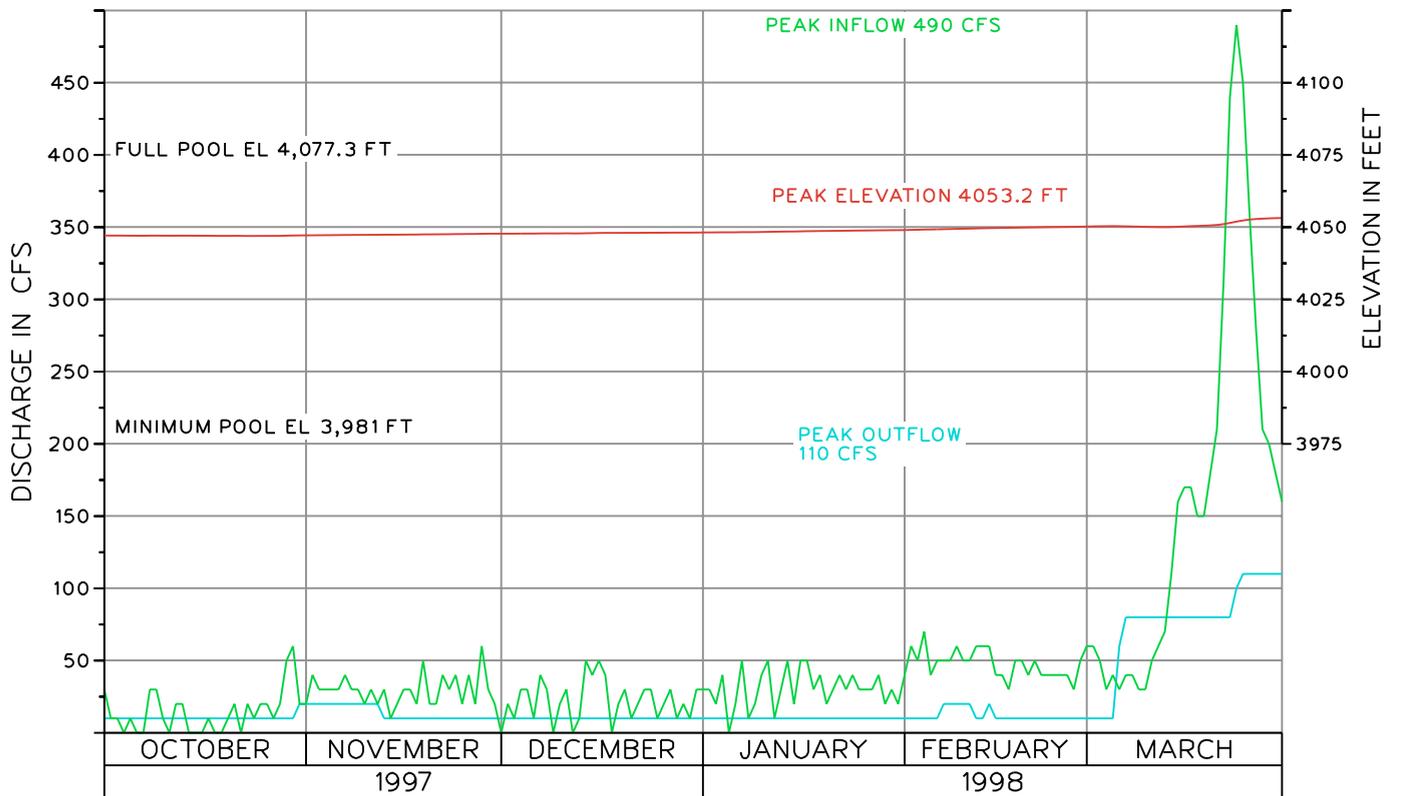
1997/98 FLOOD REGULATION
 GALESVILLE RESERVOIR NEAR AZALEA, OREGON

Chart 86



1997/98 FLOOD REGULATION
EMIGRANT DAM & RESERVOIR NEAR TALENT, OREGON

Chart 87



1997/98 FLOOD REGULATION
MASON DAM & PHILLIPS LAKE NEAR BAKER, OR

Chart 88

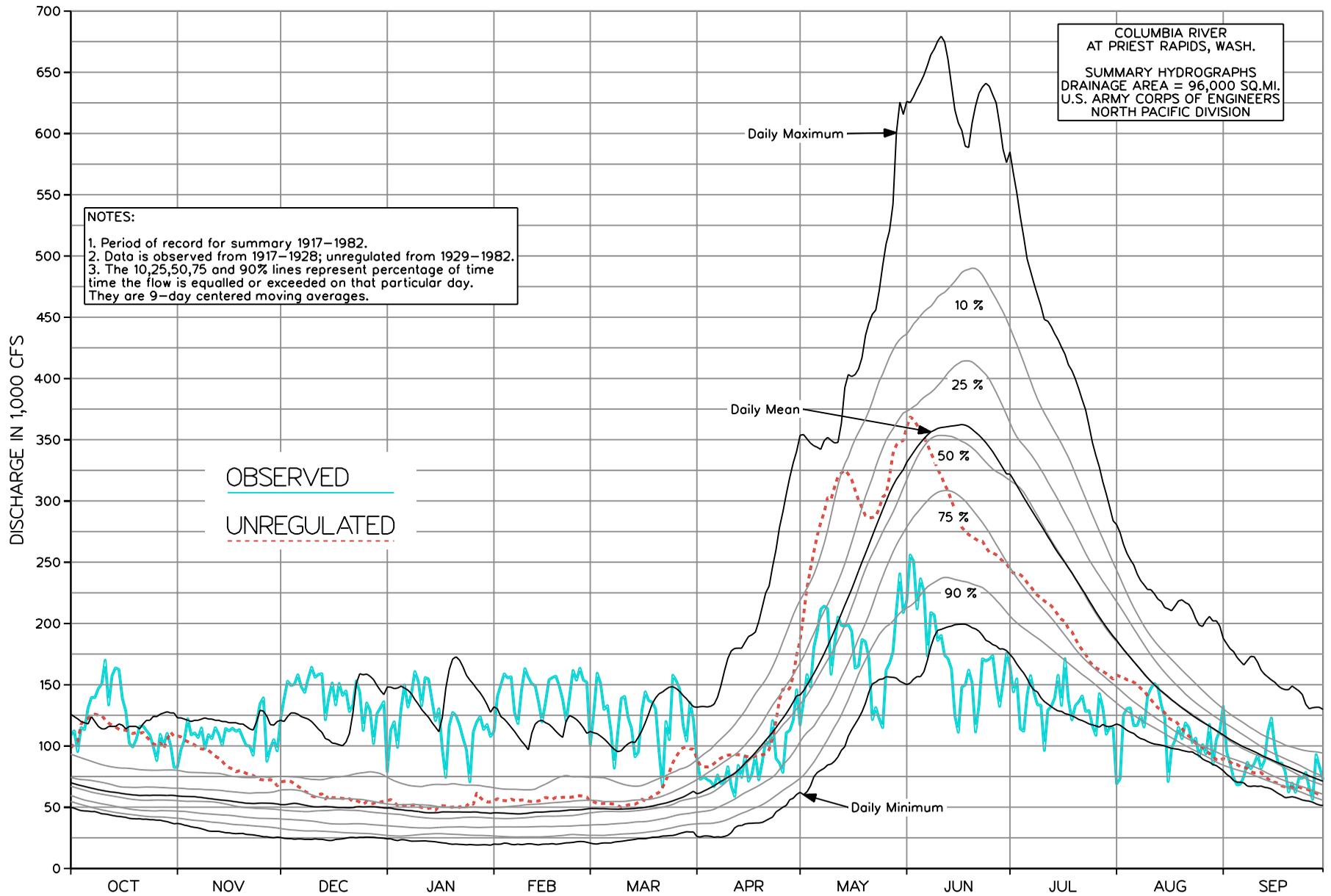


CHART NO. 89

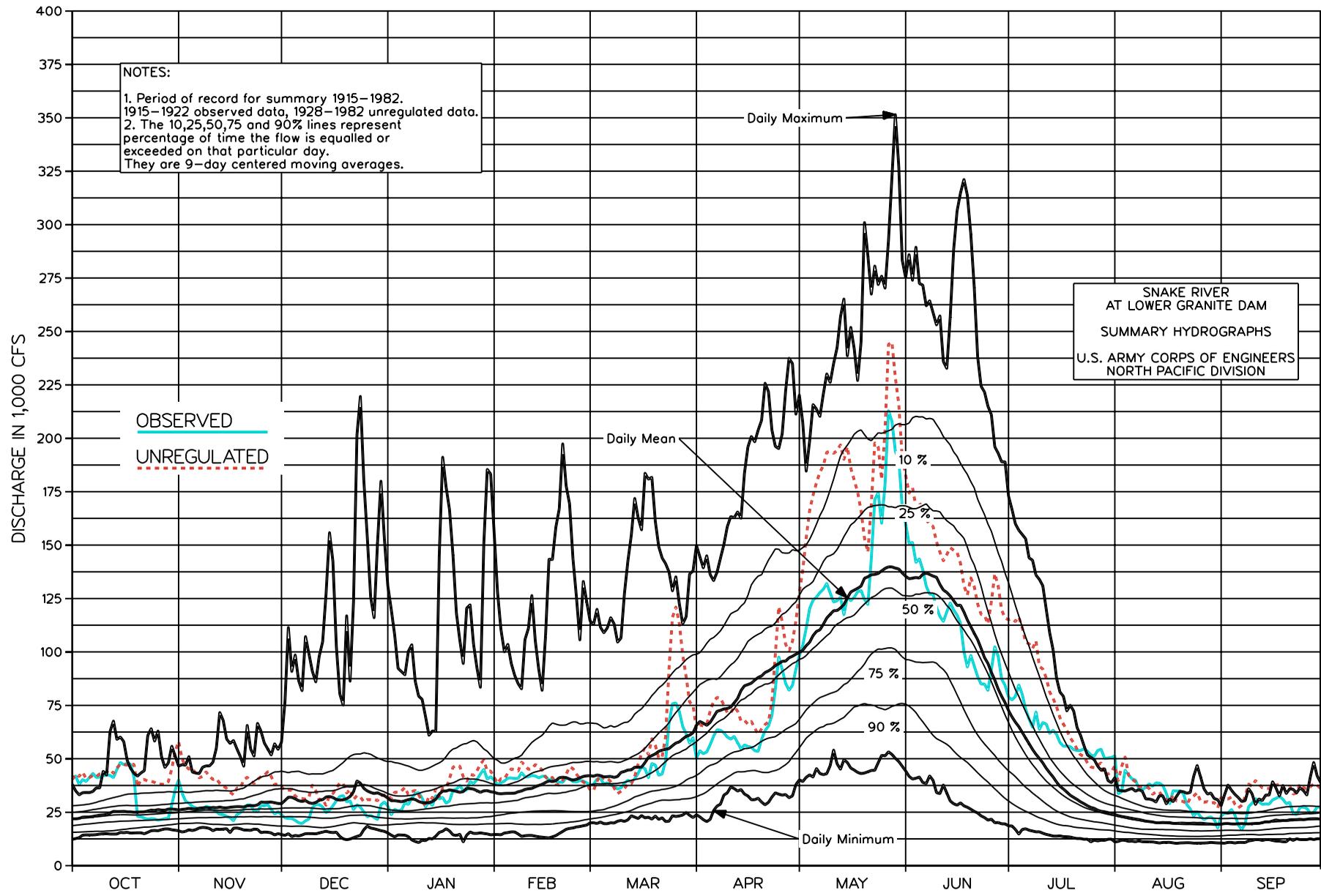


CHART NO. 90

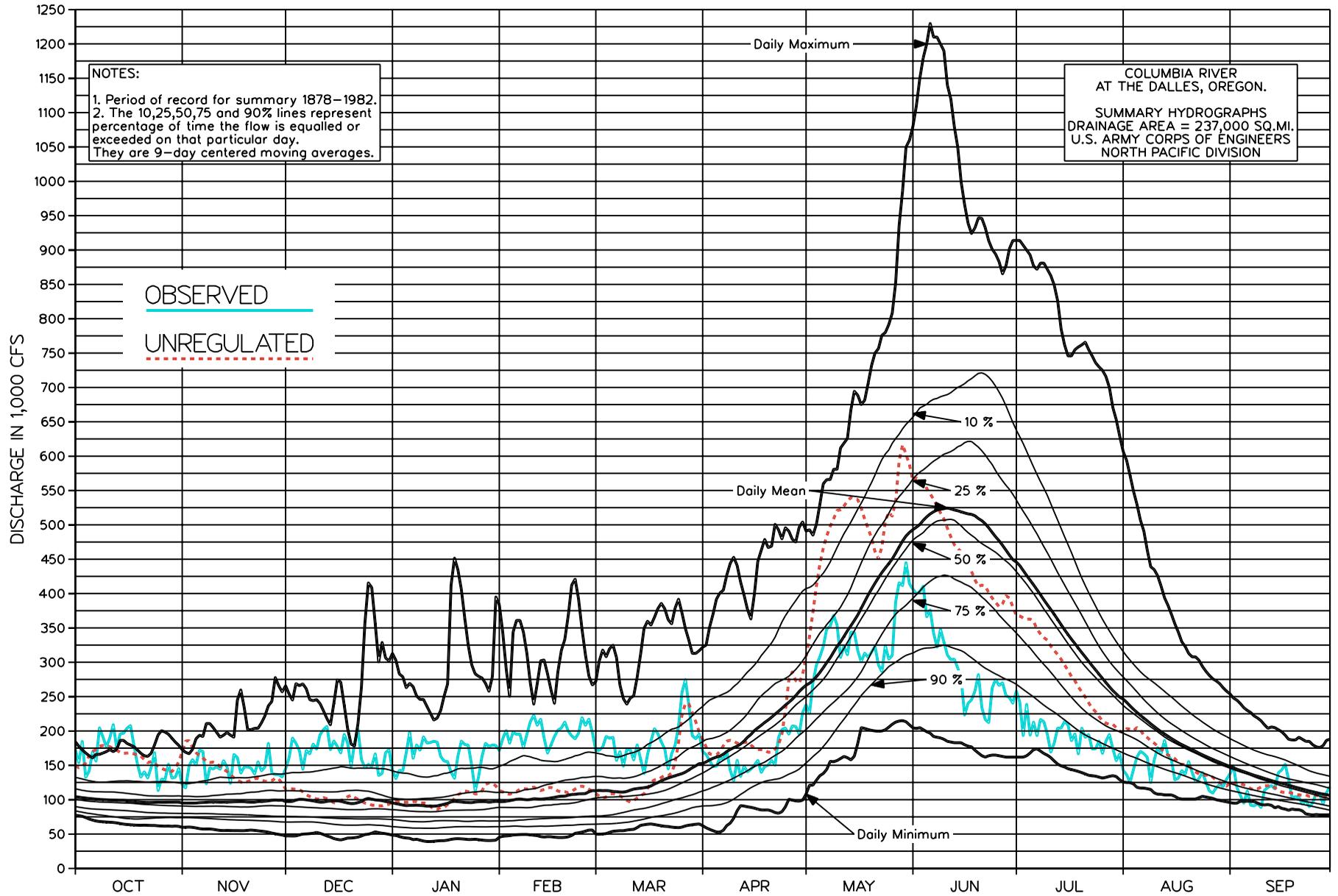


CHART NO. 91

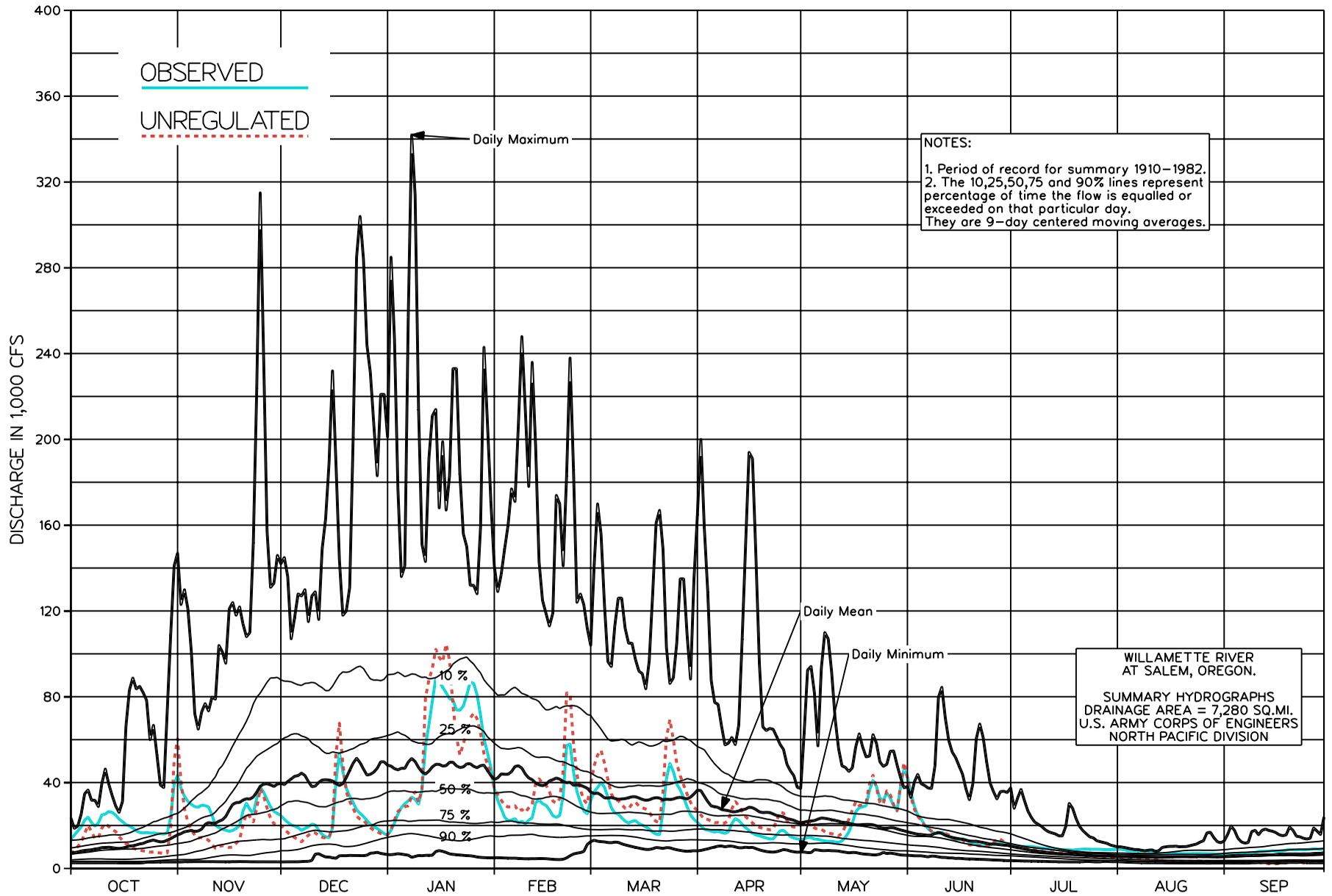


CHART NO. 92