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WATER SUPPLY OUTLOOK FOR OREGON



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**OREGON STATE UNIVERSITY and STATE ENGINEER
of OREGON**

AS OF
JAN. 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,
Alaska snow course.*

S.C.S. PHOTO A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

JANUARY 8, 1974

Issued by

KENNETH E. GRANT
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

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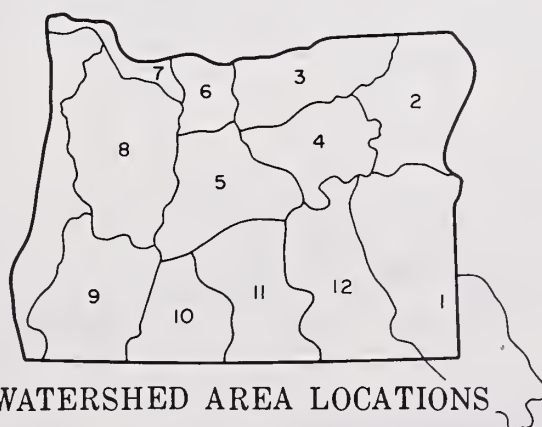
CHRIS L. WHEELER
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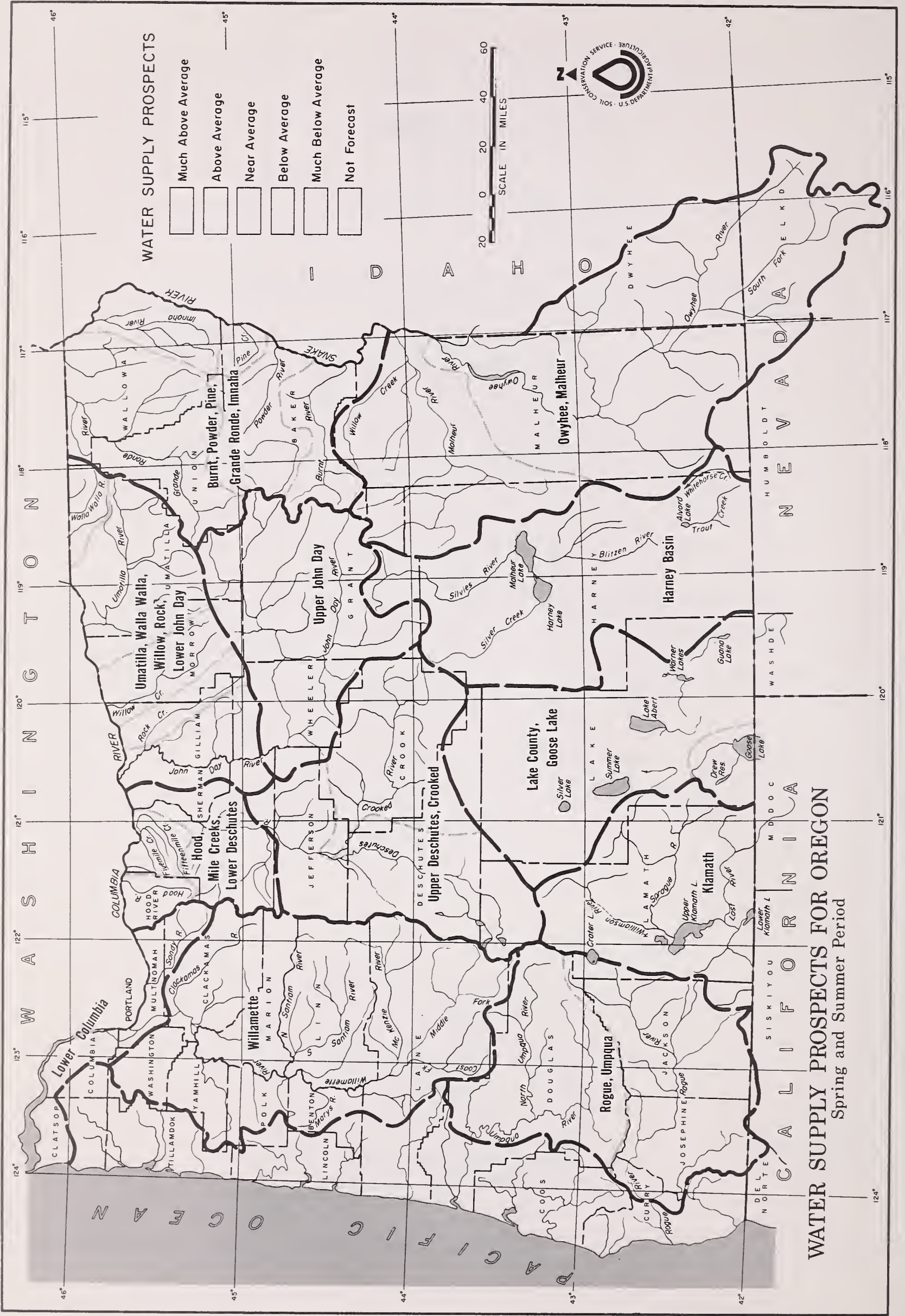
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WATER SUPPLY PROSPECTS FOR OREGON
Spring and Summer Period

WATER SUPPLY OUTLOOK for OREGON

JANUARY 1, 1974

Excellent water supplies are in prospect for most Oregon water users next spring and summer. The mountain snowpack is nearly double the normal for January 1 over most of the state. Reservoir storage is above average in most locations and streamflow has been excellent for the past several months.

SNOW COVER

The snowpack in Oregon is around 200% of average over almost the entire state. Exceptions are Lake County, Eastern Klamath County, and the Crooked River area, which are near average to slightly above. An area in the Blue Mountains near Pendleton has a snow cover 300% of average.

SOIL MOISTURE

Soil moisture conditions around the state are generally well above average. Exceptions, again, being the areas of Lake and Eastern Klamath Counties where soils are somewhat drier than usual. This excellent condition will be of benefit when the snowpack starts melting in the spring.

PRECIPITATION

The precipitation in Oregon over the past three months has been excellent. Amounts have generally been 1 1/2 to 2 times the normal for this period. The only exception, again, being South Central and Southeastern Oregon where these amounts have been 120 to 150% of average.

RESERVOIR STORAGE

Twenty-seven of Oregon's major irrigation reservoirs are storing in excess of 1,800,000 acre feet for January 1. This is 114% of the 1958-72 average. Most reservoir levels are above normal with a few minor exceptions.

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STREAMFLOW

Streamflow for the water year to date (Oct-Dec.) has generally been much above average due to the heavy precipitation.

Representative streamflow for this period is as follows:

<u>STREAM</u>	<u>October-December Flow % Avg., 1958-72</u>
Owyhee Net Inflow	97
Chewaucan near Paisley	187
John Day at Service Creek	335
Grande Ronde at La Grande	288
Willamette, Middle Fork below N. Fk.	200
Umpqua near Elkton	241
Rogue at Raygold	192
Klamath Lake net Inflow	138

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.



WATER SUPPLY OUTLOOK

OWYHEE, MALHEUR WATERSHEDS

OREGON

as of

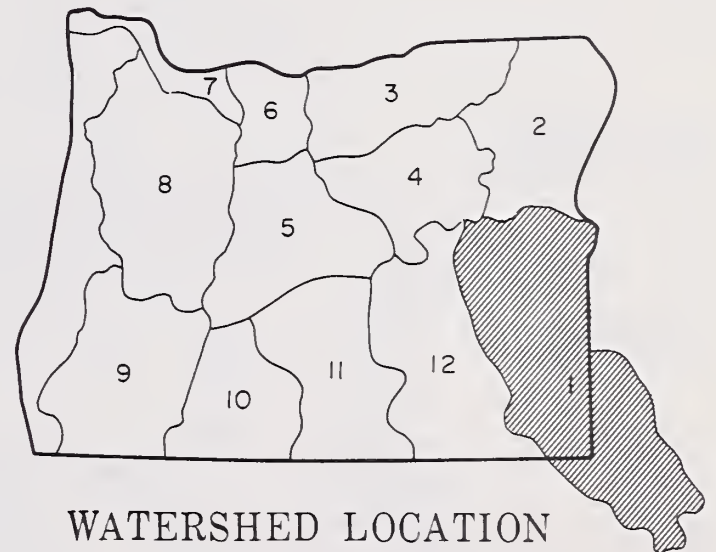
JANUARY 1, 1974

GENERAL OUTLOOK

THE GENERAL WATER SUPPLY OUTLOOK FOR THE OWYHEE, MALHEUR WATERSHEDS IS AVERAGE TO ABOVE AVERAGE FOR THIS COMING SEASON'S USE. RESERVOIR STORAGE IS ABOVE NORMAL ON THE OWYHEE AND ABOUT 60% OF AVERAGE ON THE MALHEUR. ALTHOUGH STORED SUPPLIES ARE SOMEWHAT SHORT ON THE MALHEUR, THE SNOWPACK IS TWICE NORMAL AND SHOULD SUPPLY GOOD INFLOWS TO THE RESERVOIRS COME SPRING. THE SNOW COVER ON THE OWYHEE IS ALSO 200% OF AVERAGE. SOIL MOISTURE IS ABOUT NORMAL ON THE UPPER OWYHEE AND 125% OF AVERAGE ON THE MALHEUR. PRECIPITATION FOR THE PAST THREE MONTHS HAS BEEN RUNNING WELL ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek Bully Creek Cow Creek Jordan Creek Jordan Valley Irrig. Dist. McDermitt Creek Oregon Canyon Creek Owyhee Project Succor Creek Tenmile Creek Vale-Oregon Irrig. Dist. Warmsprings Irrig. Dist. Willow Creek (Reservoired)	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year Average ⁱ
Bully Creek at Warm Springs	c			
Jordan Creek above Lone Tree Creek	c			
Malheur near Drewsey				
Malheur, North Fork at Beulah	c			
Owyhee Reservoir net Inflow	c			

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome		Forecasts begin in the February 1 report which will be issued about February 8, 1974.	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Antelope	70.0	2.8	1.9	6.2 ^m
Beulah Reservoir	60.0	18.8	23.5	17.8
Bully Creek	30.0	8.9	5.6	10.4 ^m
Owyhee	715.0	435.4	512.9	363.2
Warm Springs	191.0	29.7	88.4	65.6

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Malheur River	2	190	125
Owyhee River	3	115	90

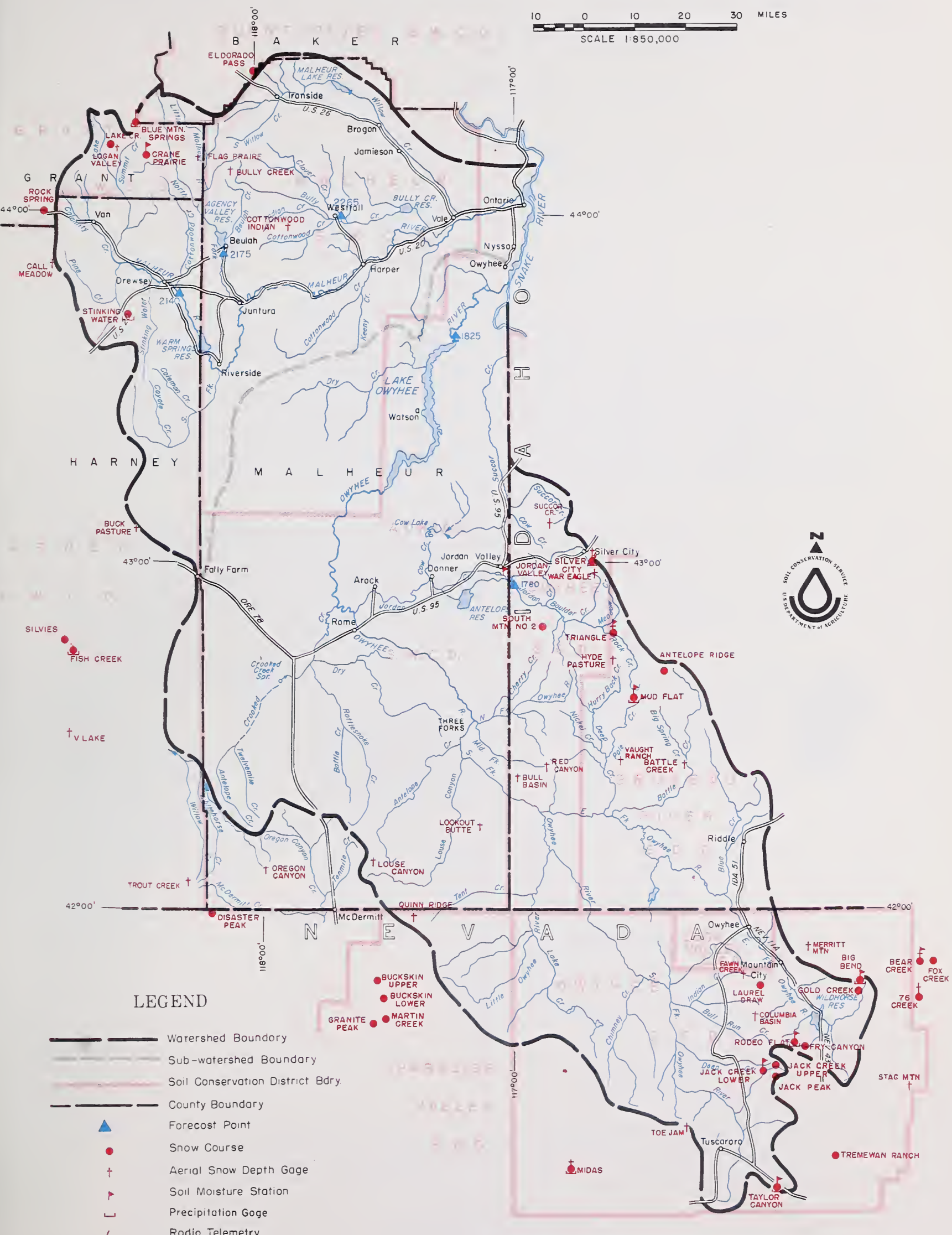
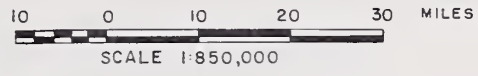
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Jordan Creek	2	400	250
Malheur River	4	225	205
Owyhee River	4	185	210

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from P&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

OWYHEE, MALHEUR WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station
- Precipitation Gage
- Radio Telemetry

WATER SUPPLY OUTLOOK

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

OREGON

as of

JANUARY 1, 1974

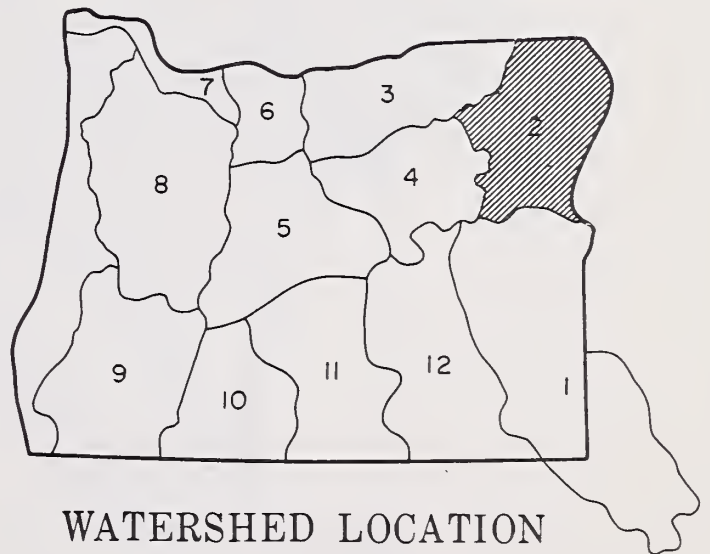
GENERAL OUTLOOK

AVERAGE TO ABOVE AVERAGE WATER SUPPLIES SHOULD BE AVAILABLE IN THE BURNT, POWDER, AND GRANDE RONDE VALLEYS THIS NEXT SPRING AND SUMMER. THE WINTER SNOWPACK, AS MEASURED JANUARY 1, IS EXCELLENT-- TWICE NORMAL ON THE GRANDE RONDE AND POWDER DRAINAGES AND TWO AND ONE-HALF TIMES NORMAL ON THE BURNT. PRECIPITATION THE PAST 3 MONTHS HAS BEEN NEARLY DOUBLE THE USUAL AMOUNTS. SOIL MOISTURE IS VERY GOOD AS A RESULT OF ALL THE HEAVY RAINFALL. RESERVOIR STORAGE IS NEAR THE AVERAGE FOR JANUARY 1. STREAMFLOW ON THE GRANDE RONDE AT LA GRANDE FOR THE OCTOBER-DECEMBER PERIOD WAS 290% OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope Baker Valley Big Creek Clover Cr. (nr. N. Powder) Cove Durkee Eagle Valley Elgin Enterprise-Joseph Hereford-Bridgeport Imnaha River LaGrande-Island City Lostine-Wallowa No. Powder River-Wolf Creek Pine Valley Powder River-Elk Creek Summerville Sumpter Valley Union-Hot Lake Unity	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Bear near Wallowa	c				
Burnt near Hereford	c				
Catherine near Union	c				
Eagle Creek above Skull Creek	c				
Grande Ronde at La Grande	c				
Hurricane near Joseph	c				
Imnaha at Imnaha	c				
Lostine near Lostine	c				
Powder near Sumpter	c				
Wallowa, East Fork near Joseph	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Phillips Lake	73.5	19.9	44.5	- -
Thief Valley	17.4	17.4	17.4	14.4 ^m
Unity	25.2	10.2	7.9	7.7
Wallowa Lake	37.5	10.3	12.9	19.9

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

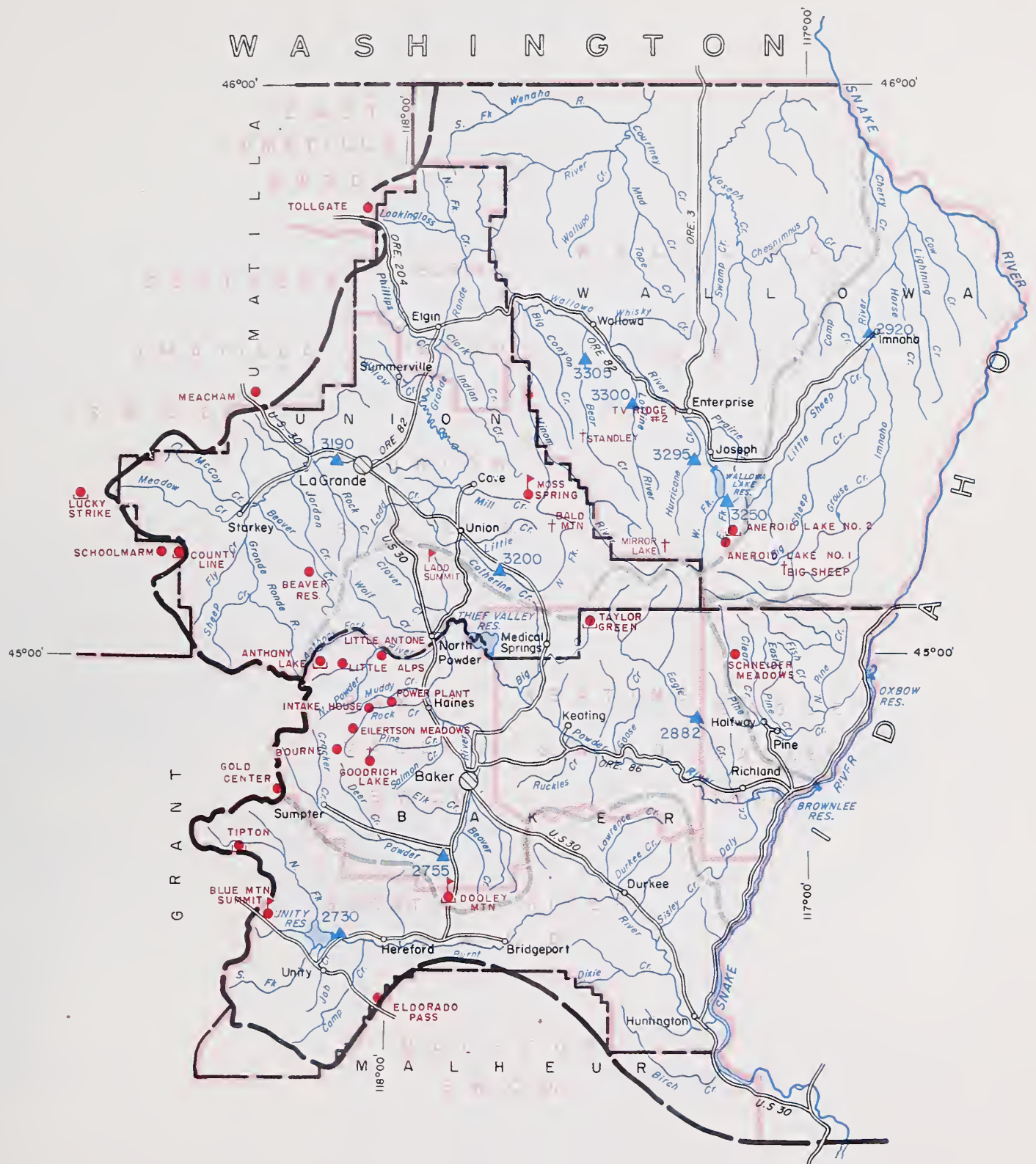
RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Burnt River	3	320	245
Grande Ronde River above La Grande	4	645	200
Powder River	2	340	190
Wallowa, Imnaha, Catherine Creek	-	-	-

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Burnt, Powder Grande Ronde, Catherine Creek, Imnaha River	2	140	125
	2	115	110

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Soil Moisture Station
- Aerial Snow Depth Gage
- Precipitation Gage

WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK,
LOWER JOHN DAY WATERSHEDS
OREGON

as of

JANUARY 1, 1974

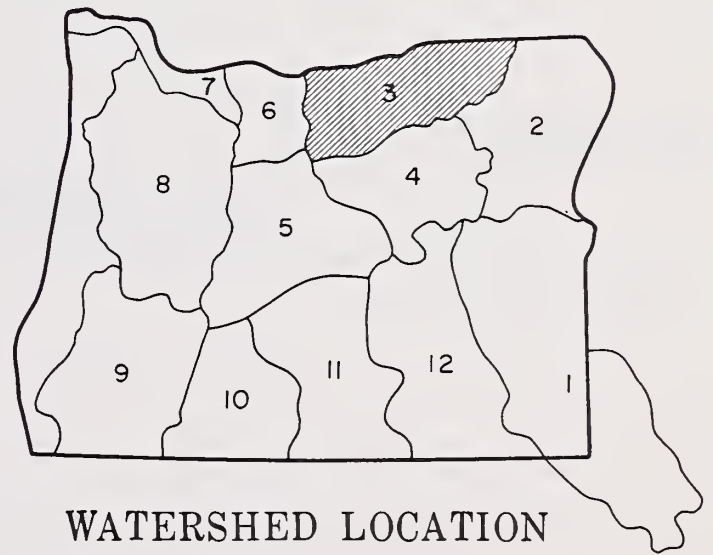
GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR UMATILLA COUNTY WATER USERS THIS NEXT SPRING AND SUMMER. THE SNOWPACK IS NOT AS HEAVY AS IN 1972 BUT IS STILL 300% OF AVERAGE. SOILS UNDER THE SNOWPACK ARE IN A NORMAL CONDITION AS FAR AS MOISTURE IS CONCERNED FOR THIS TIME OF YEAR. PRECIPITATION FOR THE PAST THREE MONTHS HAS BEEN 150 TO 200% OF AVERAGE. RESERVOIRED WATER SUPPLIES IN COLD SPRINGS AND MCKAY ARE VERY GOOD FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fork	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	
Walla Walla River, So. Fork		
Walla Walla River, Main		
Walla Walla River, Little		
Couse Creek		
Dry Creek		
Pine Creek		
Umatilla River, Main		
Wildhorse Creek		
Umatilla R. (Cold Springs Reservoir)		
Umatilla R. (McKay Res.)		
McKay Creek		
Birch Creek		
Butter Creek		
Willow Creek		
Rhea Creek		
Rock Creek (John Day Tributary)		



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Birch Creek at Rieth	c				
Butter Creek near Pine City	c				
McKay near Pilot Rock	c				
Umatilla near Gibbon	c				
Umatilla at Pendleton	c				
Walla Walla, South Fork near Milton	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton		Forecasts begin in the February 1 report which will be issued about February 8, 1974.	

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Cold Springs	50.0	24.1	4.3	21.6
McKay	73.8	35.8	15.1	18.3

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

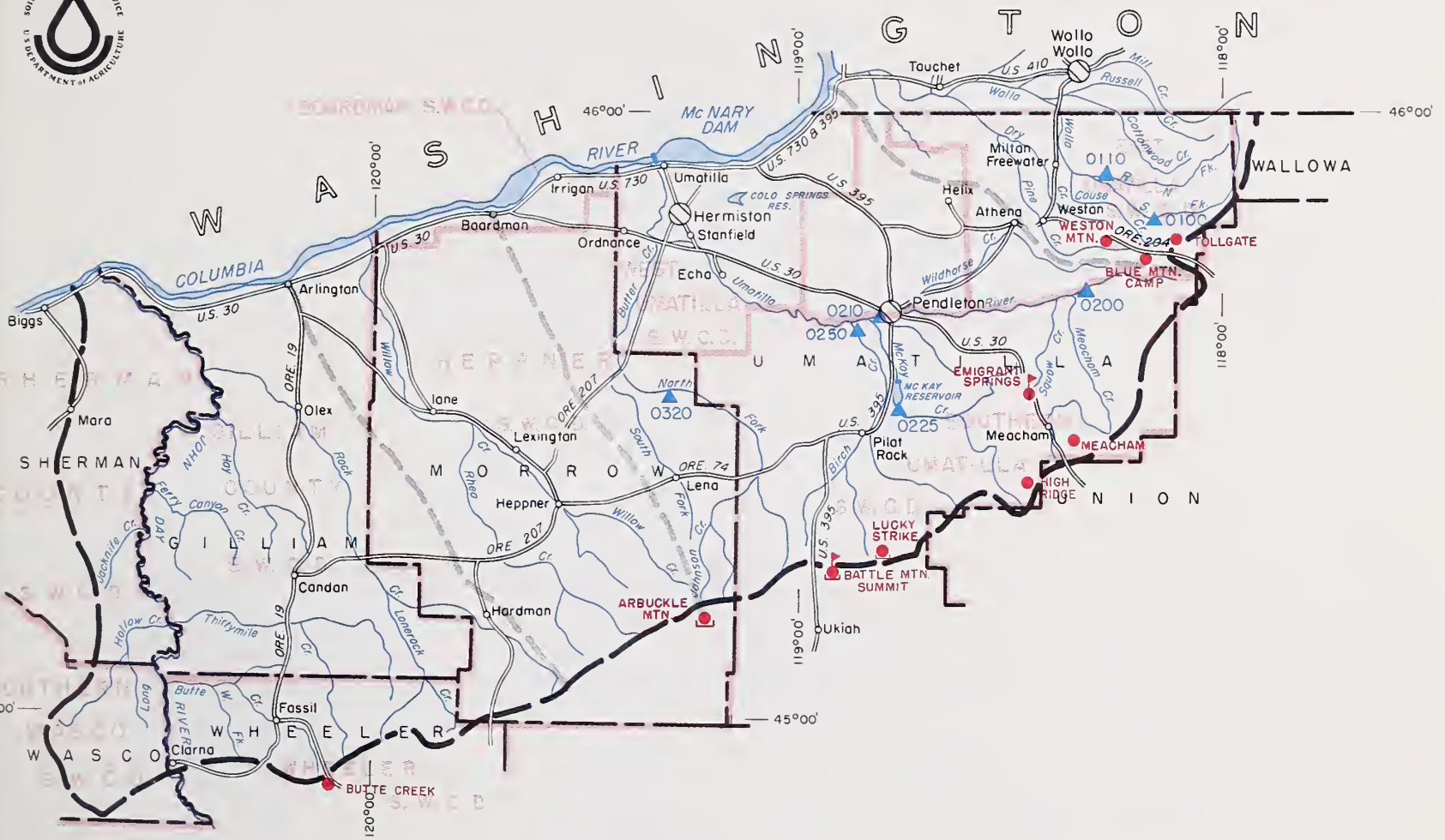
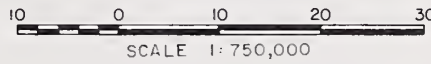
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Umatilla, Walla Walla, McKay Creek	3	110	100

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
McKay Creek	2	2915	305
Umatilla River	3	600	295
Walla Walla River	2	470	305

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Soil Moisture Station
- Precipitation Gage

WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

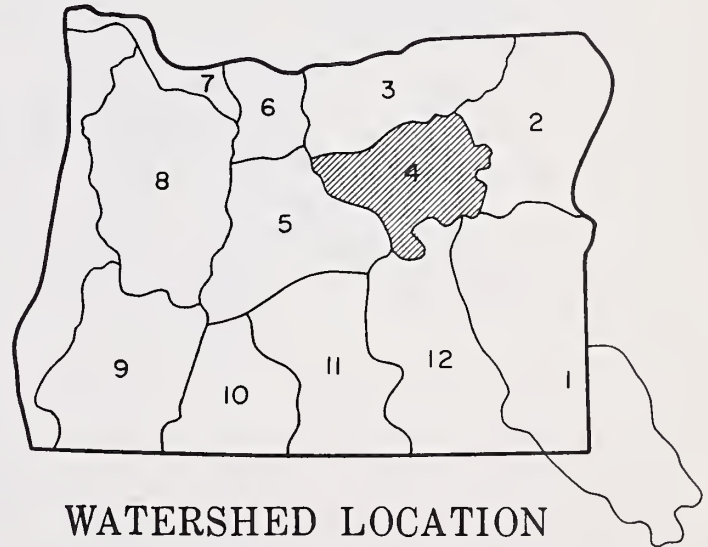
as of
JANUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE UPPER JOHN DAY BASIN IS EXCELLENT. THE SNOWPACK IS 215% OF AVERAGE FOR JANUARY 1. PRECIPITATION FOR THE PAST THREE MONTHS HAS BEEN 1 1/2 TIMES NORMAL. STREAMFLOW ON THE JOHN DAY AT SERVICE CREEK HAS BEEN 3 TIMES NORMAL FOR THE OCTOBER-DECEMBER PERIOD. ALL CONDITIONS INDICATE VERY GOOD WATER SUPPLIES FOR THE COMING SEASON.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek Beech Creek-Fox-Long Cr. Bridge-Mountain Creeks Camas Creek Cherry Creek Indian-Pine Creeks John Day River, Main Fork John Day River, Mid. Fork John Day River, N. Fork John Day River, S. Fork Monument-Kimberly Strawberry Creek	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Camas Creek near Ukiah	c				
John Day at Prairie City	c				
John Day, Middle Fork at Ritter	c				
John Day, North Fork at Monument	c				
Strawberry near Prairie City	c				
NOTE: FORECASTS BEGIN ON FEB. 1, 1974.					

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
John Day above Dayville	5	140	140
John Day, North Fork	c		

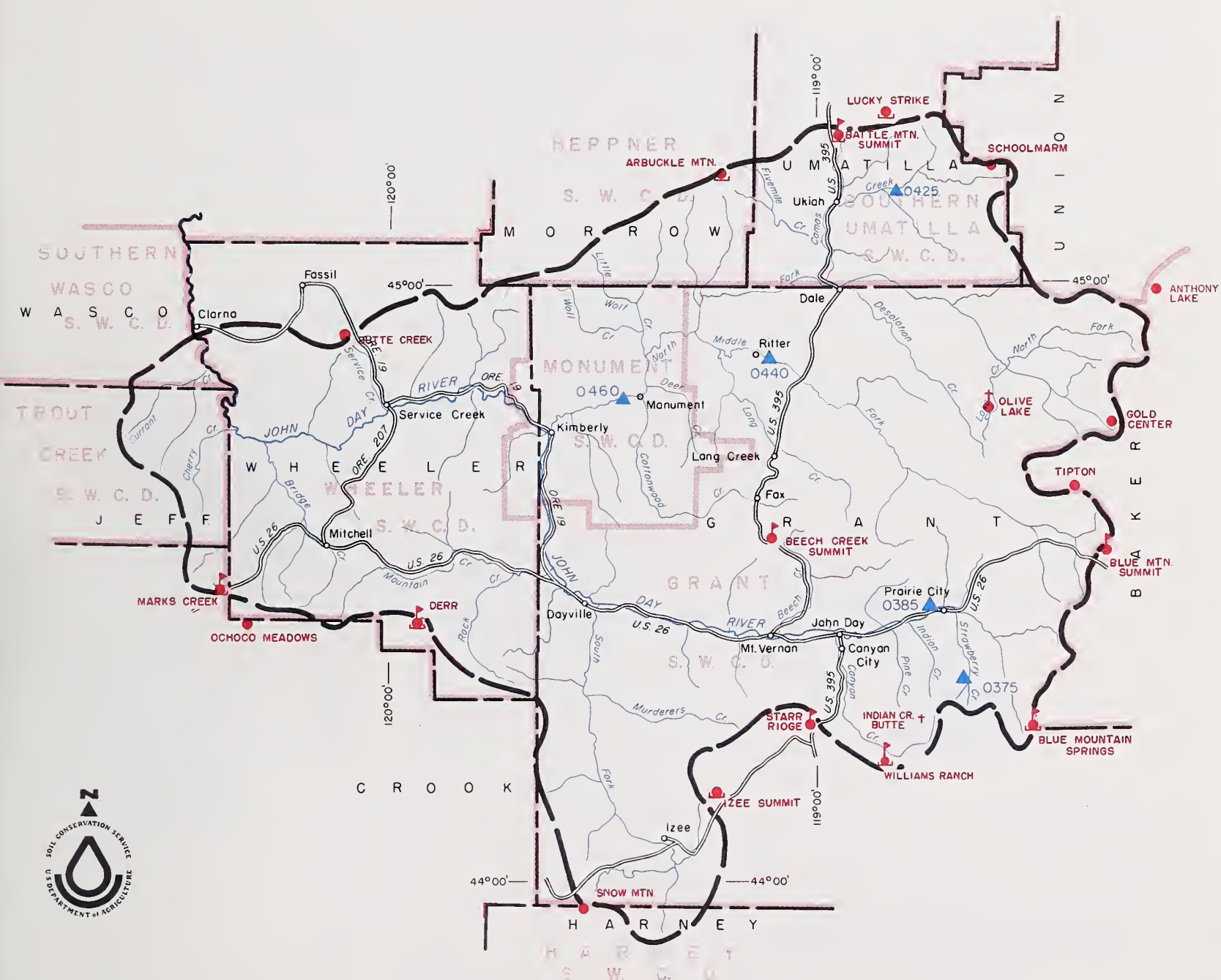
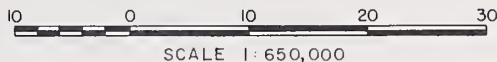
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
John Day, North Fork	3	315	215
John Day abv. Dayville	3	260	215

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

UPPER JOHN DAY WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
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- Snow Course
- Soil Moisture Station
- Aerial Snow Depth Gage
- Precipitation Gage
- Radio Telemetry

WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS

OREGON

as of

JANUARY 1, 1974

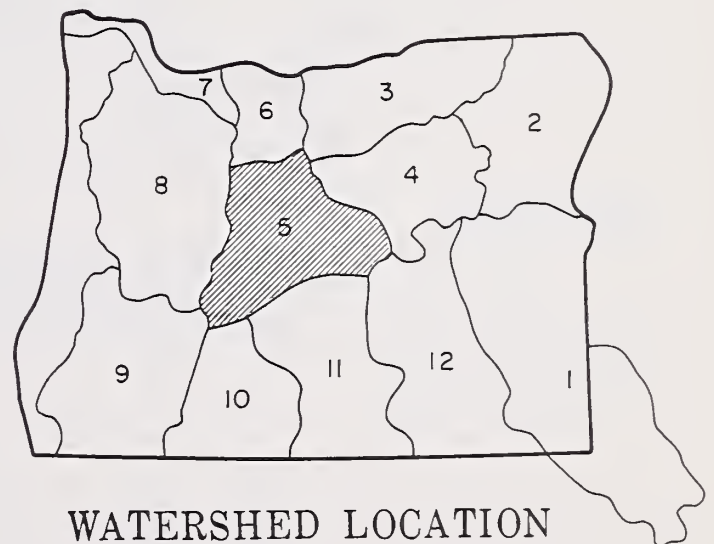
GENERAL OUTLOOK

ABOVE AVERAGE WATER SUPPLIES ARE THE PROSPECT FOR CENTRAL OREGON COUNTIES THIS NEXT SUMMER. STORAGE IN THE FIVE DESCHUTES RESERVOIRS IS NEAR AVERAGE FOR JANUARY 1. THE MOUNTAIN SNOWPACK IS EXCELLENT AND RANGES FROM 125% OF AVERAGE ON THE CROOKED-CHOCO DRAINAGE UP TO 180% OF NORMAL ON THE LITTLE DESCHUTES, AND 220% ON THE DESCHUTES ABOVE WICKIUP RESERVOIR. PRECIPITATION DURING THE PAST 3 MONTHS HAS ALSO BEEN VERY GOOD, NEARLY 1 1/2 TIMES THE NORMAL.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation Dist. Bear Creek Beaver Creek Camp Creek Central Ore. Irrig. Dist. Crooked River Deschutes River Hay-Trout Creeks Lone Pine Irrig. Dist. Mill Creek North Unit Irrig. Dist. Ochoco Creek Sisters Irrigation Dist. Snow Creek Irrig. Dist. Squaw Creek Irrig. Dist. Swalley Ditch Tumalo Project Walker Basin Irrig. Dist.	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



U.S.D.A. SOIL CONSERVATION SERVICE
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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average <i>i</i>	
Beaver Creek near Paulina	c				
Crane Prairie Reservoir total inflow	c				
Crescent at Crescent Lake	c				
Crooked near Post	c				
Deschutes at Benham Falls	c				
Deschutes below Snow Creek	c				
Deschutes, Little near La Pine	c				
Ochoco Reservoir net Inflow	c				
Odell near Crescent	c				
Squaw near Sisters	c				
Tumalo near Bend	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow			
Crooked R. near Post			
Deschutes at Bend			
Little Deschutes near La Pine			

Forecasts begin in the February 1 report which will be issued about February 8, 1974.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <i>i</i>
Crane Prairie	55.3	31.3	51.0	38.1
Crescent Lake	86.9	68.2	76.3	42.2
Ochoco	47.5	18.0	25.0	17.5
Prineville	153.0	91.5	106.1	98.5 ^m
Wickiup	200.0	101.5	177.6	121.2

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <i>i</i>
Crooked R., Upper Deschutes River	1	130	130

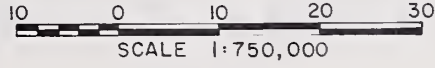
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <i>i</i>
Crooked, Ochoco	1	-	126
Deschutes abv. Wickiup	1	335	225
Little Deschutes	2	335	185
Tumalo & Squaw Creeks	2	360	210

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

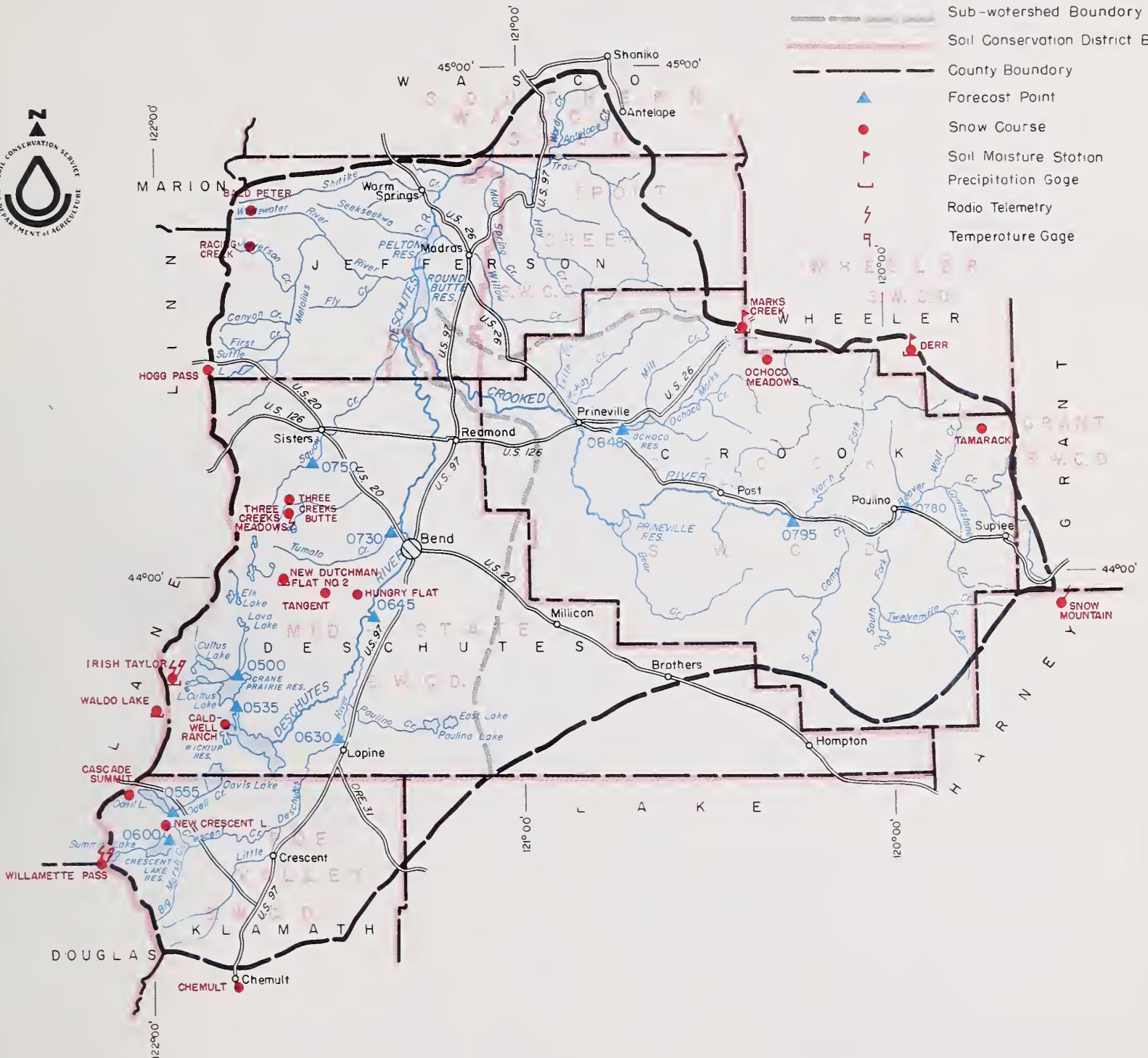
UPPER DESCHUTES, CROOKED WATERSHEDS



SCALE 1:1,500,000

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Soil Moisture Station
- Precipitation Gage
- Radio Telemetry
- Temperature Gage



WATER SUPPLY OUTLOOK

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

as of
JANUARY 1, 1974

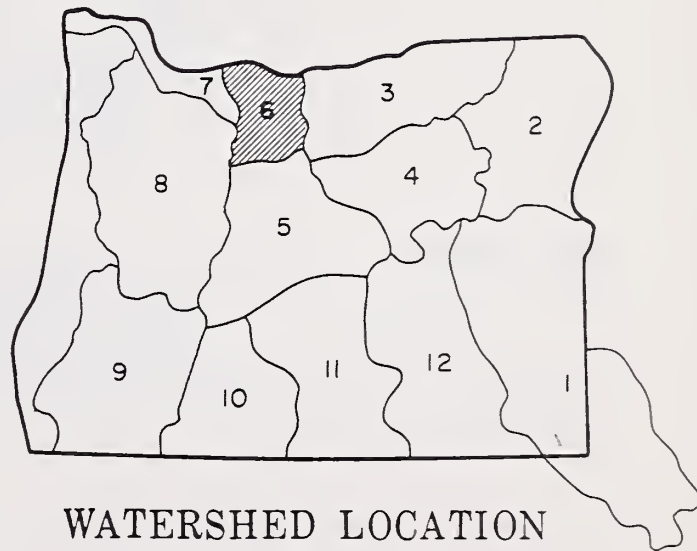
GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR HOOD RIVER AND WASCO COUNTIES. THE SNOWPACK IS MUCH ABOVE AVERAGE, ALMOST TWICE THE NORMAL FOR JANUARY 1. PRECIPITATION DURING THE PAST THREE MONTHS WAS 150 TO 200 PERCENT OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek) Badger Creek Dee Irrigation Dist. East Fork Irrig. Dist. Farmers Irrigation Dist. Hood River Irrig. Dist. Juniper Flat Middle Fork Irrig. Dist. Mile Creeks Mill Creek Mount Hood Irrig. Dist. Rock-Gate-Threemile Crs. Tygh Creek White River	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



U.S.D.A. SOIL CONSERVATION SERVICE
 OREGON STATE UNIVERSITY..... OREGON STATE ENGINEER

Report prepared by
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 1218 S.W. WASHINGTON ST.
 PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average i	
Hood River near Tucker Bridge Hood, West Fork near Dee White below Tygh Valley	c				
	c				
	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow		Forecasts begin in the February 1 report which will be issued about February 8, 1974.	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Clear Lake (Wasco)	11.9	1.0	7.2	1.5

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Hood River, Mile Creeks	1	100	-

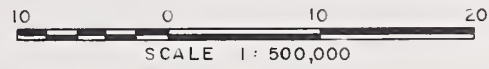
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Hood River	4	515	170
Mile Creeks	-	-	-
White River	3	440	195

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station
- Precipitation Gage
- Temperature Gage
- Radio Telemetry

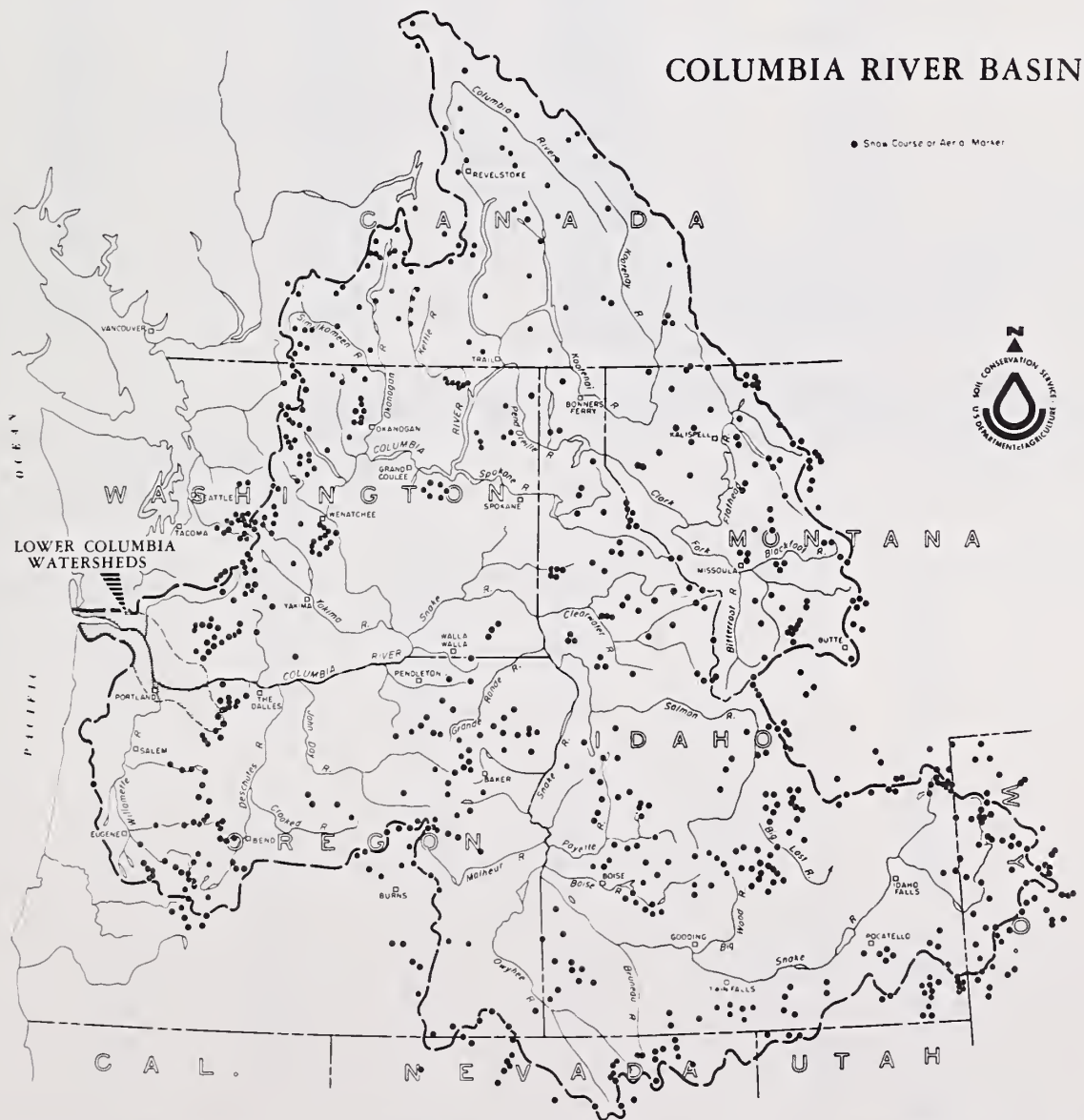
WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

as of

JANUARY 1, 1974

GENERAL OUTLOOK

WATER SUPPLIES ALONG THE COLUMBIA THIS NEXT SPRING AND SUMMER SHOULD BE ABOVE AVERAGE. EARLY SEASON SNOW SURVEYS INDICATE AN AVERAGE TO WELL ABOVE AVERAGE SNOWPACK IN THE BASIN. HEAVIEST AMOUNTS OF SNOW COVER THE TRIBUTARY STREAMS IN OREGON, WASHINGTON SOUTH CENTRAL IDAHO AND THE UPPER OWYHEE IN NEVADA. IN THESE AREAS IT RANGES GENERALLY FROM 160 TO 200% OF AVERAGE WITH AN AREA IN NORTHEASTERN OREGON 3 TIMES THE NORMAL. NEAR AVERAGE TO SLIGHTLY BELOW AVERAGE SNOW COVER EXISTS IN SOUTHWESTERN AND NORTHERN IDAHO, WESTERN MONTANA, AND WYOMING. CANADIAN TRIBUTARIES HAVE A SNOWPACK GENERALLY ABOVE AVERAGE.



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PORTLAND, OREGON 97205

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁽ⁱ⁾
Sandy River	2	395	190

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁽ⁱ⁾
Columbia at The Dalles ^(d)	c				
Sandy River near Marmot	c		NOTE: FORECASTS BEGIN ON FEB. 1, 1974.		

HISTORICAL DATA (Columbia River at The Dalles)

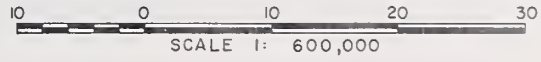
YEAR	STREAMFLOW ^(d) (1,000 A.F.)			PEAK ^(e) (1,000 c.f.s)	DATE
	APR. — SEPT.	APR. — JUNE	MAY — JUNE		
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu.)	FLOW AT THE DALLES (1,000 c.f.s)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USSR records.

LOWER COLUMBIA WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- River Miles
- Snow Course
- Temperature
- Radio Telemetry
- Forecast Point

WATER SUPPLY OUTLOOK

WILLAMETTE WATERSHEDS

OREGON

as of

JANUARY 1, 1974

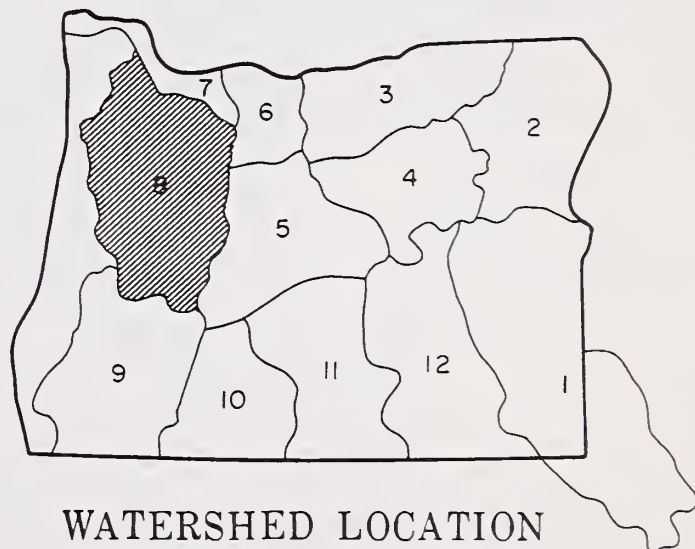
GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES SHOULD BE AVAILABLE THIS NEXT SPRING AND SUMMER FOR WILLAMETTE BASIN WATER USERS. THE CASCADE MOUNTAIN SNOWPACK IS MUCH ABOVE AVERAGE. IT RANGES FROM 2 1/2 TIMES NORMAL ON THE CLACKAMAS TO 180% OF AVERAGE ON THE MCKENZIE AND THE MIDDLE FORK OF THE WILLAMETTE. PRECIPITATION DURING DECEMBER WAS 120 TO 180% OF NORMAL. THIS CONTINUED THE TREND STARTED IN OCTOBER. THE PAST THREE MONTHS HAS PROVIDED PRECIPITATION 1 1/2 TO 2 TIMES NORMAL. MOST OF THE FLOOD-CONTROL RESERVOIRS ARE HOLDING BETTER THAN AVERAGE AMOUNTS OF WATER AVAILABLE FOR SUMMER IRRIGATION PURPOSES. STREAMFLOW FOR THE OCTOBER-DECEMBER PERIOD ON THE MIDDLE FORK OF THE WILLAMETTE HAS BEEN AN EXCELLENT 200% OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya Clackamas McKenzie Molalla Santiam, North Santiam, South Willamette, Coast Fork Willamette, Middle Fork	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ^l
Clackamas at Estacada	c				
Clackamas above Three Lynx	c				
McKenzie at McKenzie Bridge	c				
McKenzie near Vida	c				
McKenzie, South Fork near Rainbow	c				
Oak Grove Fork above Power Intake	c				
Row near Dorena	c				
Santiam, North at Mehama	c				
Santiam, South at Waterloo	c				
Willamette, Mid. Fk. blw. N. Fk. nr Oakridge	c				
Willamette, No. Fk. of Mid. Fk. near Oakridge	c				
Willamette at Salem	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Clackamas River	2	2350	260
McKenzie River	3	400	180
Row River	2	865	210
Santiam River	4	680	215
Willamette, Mid. Fk.	3	395	180

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH




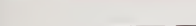





RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ^l
Blue River	85.6*	6.2	0.0	- -
Cottage Grove	30.0*	0.0	0.0	1.4
Cougar	155.2*	18.7	4.2	14.4 ^m
Detroit	299.9*	110.4	46.2	25.3
Dorena	70.5*	4.9	0.0	6.6
Fall Creek	115.0*	0.0	0.0	0.0 ^m
Fern Ridge	94.2*	0.0	0.0	10.4
Foster	30.0*	0.1	0.0	1.1 ^m
Green Peter	270.0*	94.9	54.9	6.6 ^m
Hills Creek	200.0*	28.6	2.6	15.9 ^m
Lookout Point	337.2*	78.5	2.2	34.4
Timothy Lake	61.7	61.7	53.7	49.1

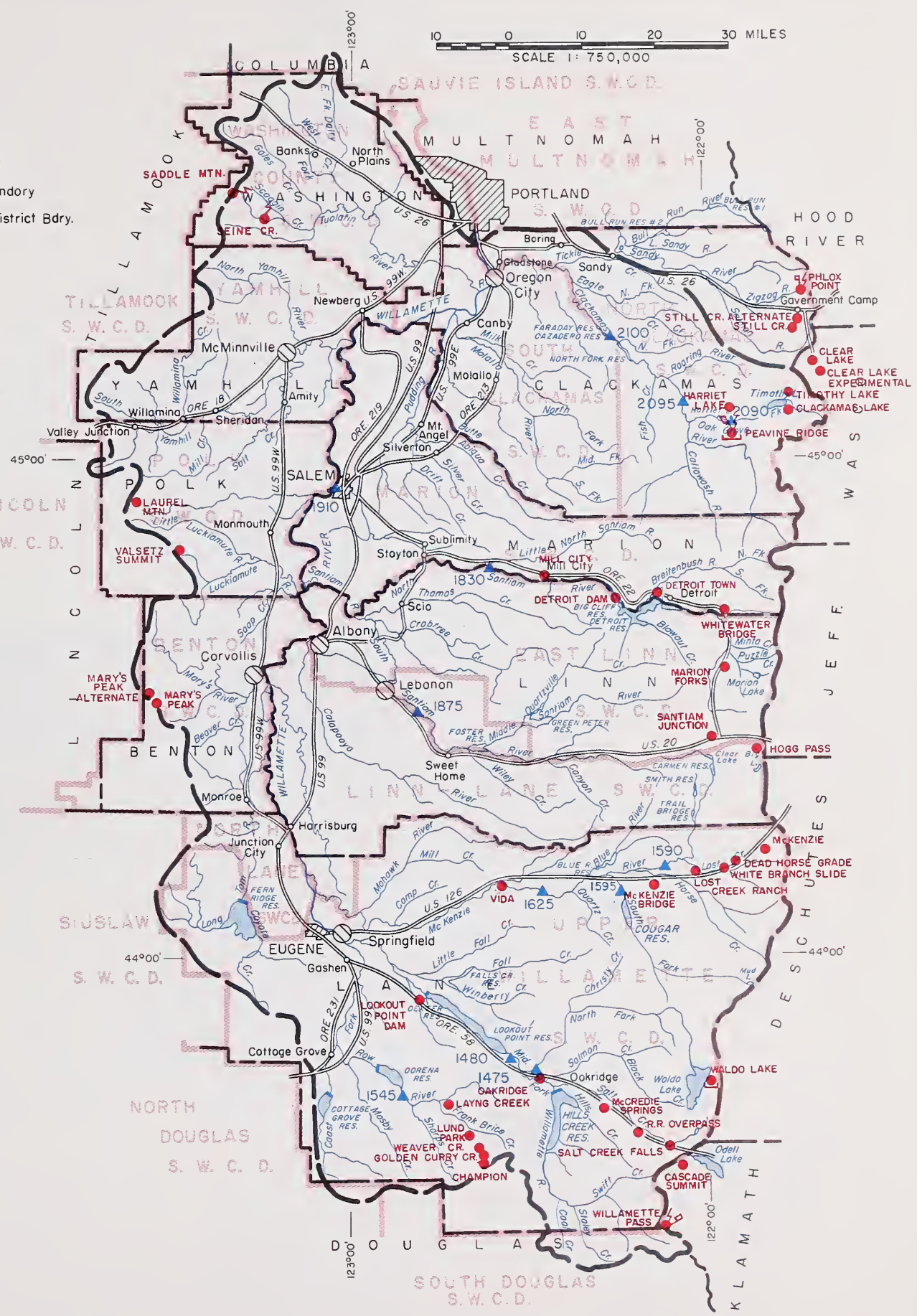
*Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WILLAMETTE WATERSHEDS

LEGEND

-  Watershed Boundary
-  Sub-watershed Boundary
-  Soil Conservation District Bdry.
-  County Boundary
-  Forecast Point
-  Snow Course
-  Radio Telemetry
-  Precipitation Gage
-  Temperature Gage



WATER SUPPLY OUTLOOK

ROGUE, UMPQUA, WATERSHEDS

OREGON

as of

JANUARY 1, 1974

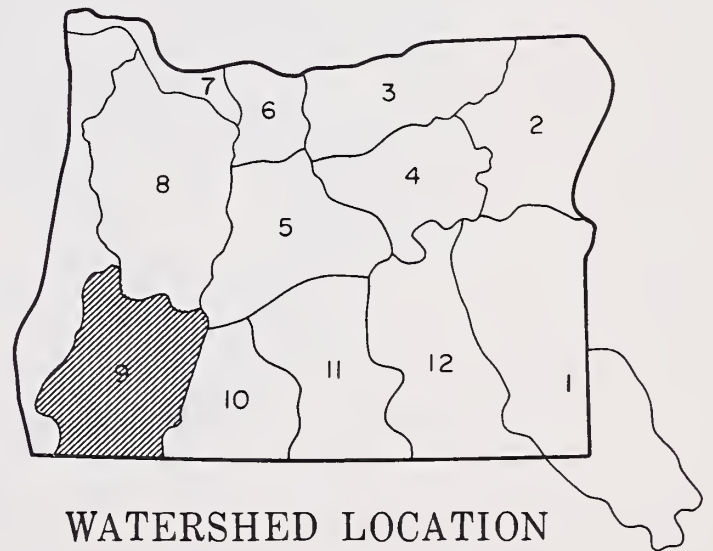
GENERAL OUTLOOK

THE ROGUE AND UMPQUA RIVER BASINS SHOULD HAVE EXCELLENT WATER SUPPLIES AVAILABLE NEXT SPRING AND SUMMER. THE CASCADE MOUNTAIN SNOWPACK IS WELL ABOVE AVERAGE. IT RANGES FROM 160% OF AVERAGE ON THE BUTTE CREEKS ON UP TO 200% OF NORMAL ON THE NORTH UMPQUA. ONE LOW ELEVATION COURSE ON BEAR CREEK ONLY HAD 1/3 OF THE NORMAL SNOW FOR JANUARY 1, BUT THE PACK IS BETTER AT HIGHER ELEVATIONS ON THE WATERSHED. PRECIPITATION HAS BEEN EXCELLENT FOR THE PAST THREE MONTHS. THE ROGUE AT RAYGOLD AND THE UMPQUA AT ELKTON HAVE BOTH PROVIDED WELL ABOVE AVERAGE FLOWS FOR THE OCT.-DEC. PERIOD. RESERVOIR STORAGE IS NEAR AVERAGE AND LOOKS GOOD CONSIDERING THE DRY YEAR THAT WE JUST EXPERIENCED.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek Applegate River, Big Applegate River, Little Ashland Creek Butte Creek, Big Butte Creek, Little Cow Creek Deer Creek Elk Creek Emigrant Creek (abv. Res.) Evans Creek Gold Hill Irrigation Dist. Grants Pass Irrig. Dist. Grave Creek Illinois River, East Fork Illinois River, West Fork Jump-off-Joe Creek Neil Creek Red Blanket Creek Rogue River Sucker Creek Table Rock Irrig. Dist. Thompson Creek Wagner Creek Williams Creek	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Applegate near Copper	c				
Clearwater above Trap Creek	c				
Fourmile Lake net Inflow	c				
Hyatt Reservoir net Inflow	c				
Illinois River near Kerby	c				
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.	c				
Little Butte, S. Fk. near Lake Creek	c				
Rogue above Prospect	c				
Rogue, South Fork near Prospect	c				
Rogue at Raygold near Central Point	c				
Rogue at Grants Pass	c				
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork Rogue at Raygold		Forecasts begin in the February 1 report which will be issued about February 8, 1974.	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Emigrant Lake	39.0	20.8	16.6	18.0*
Fish Lake	8.0	4.2	8.1	5.0
Fourmile Lake	16.1	5.8	-	7.7
Howard Prairie	60.0	42.7	44.3	35.3 ^m
Hyatt Prairie	16.1	10.8	8.6	9.8

*Average for years of record (in base period) after reconstruction.

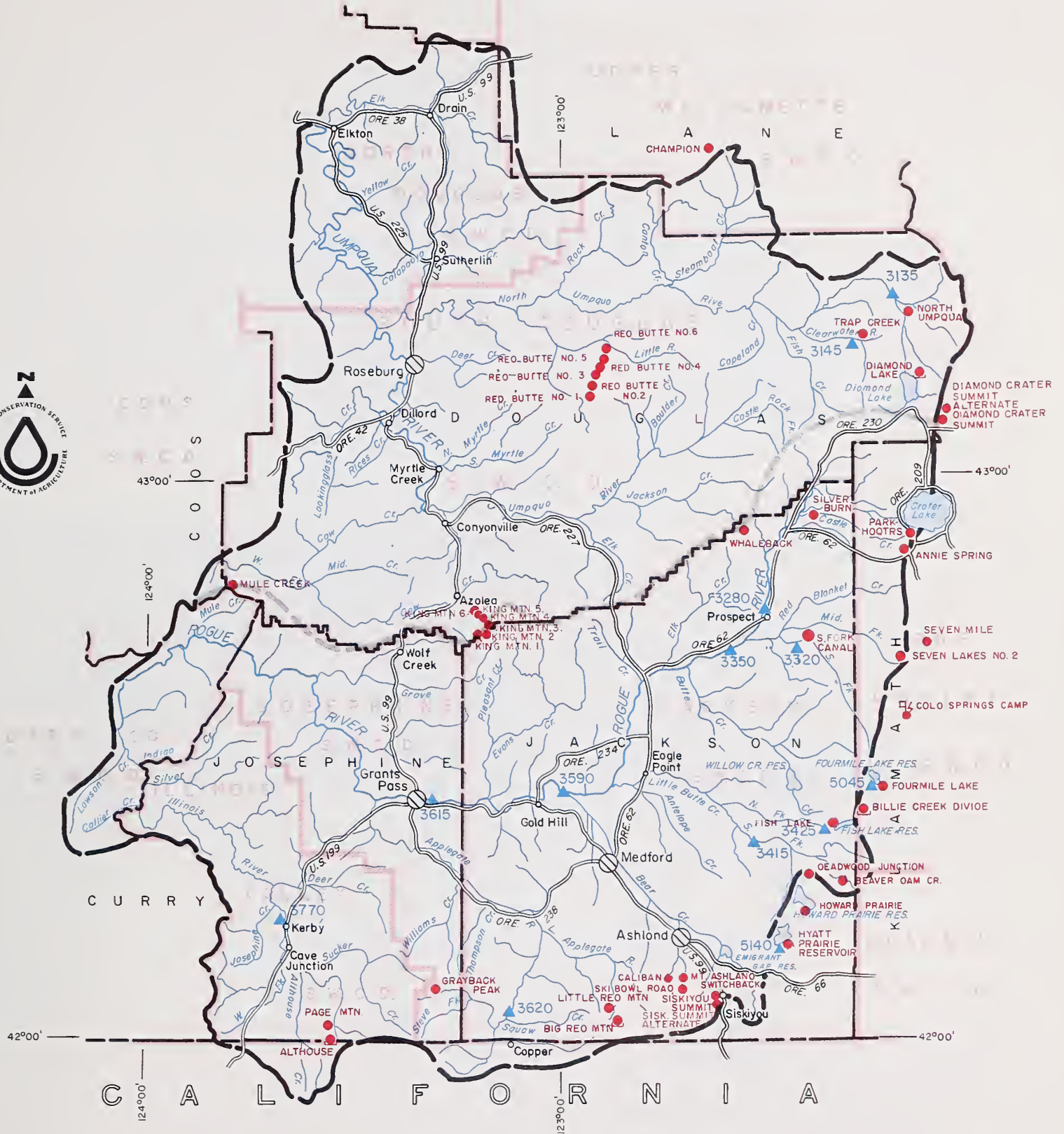
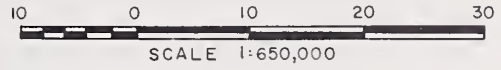
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Applegate	-	-	-
Bear Creek	1	-	32
Butte Creek	4	215	160
Illinois River	-	-	-
North Umpqua	3	395	210
Rogue River	3	260	175

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

ROGUE, UMPQUA WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Precipitation Gage
- Radio Telemetry
- Temperature Gage

WATER SUPPLY OUTLOOK

KLAMATH WATERSHEDS

OREGON

as of

JANUARY 1, 1974

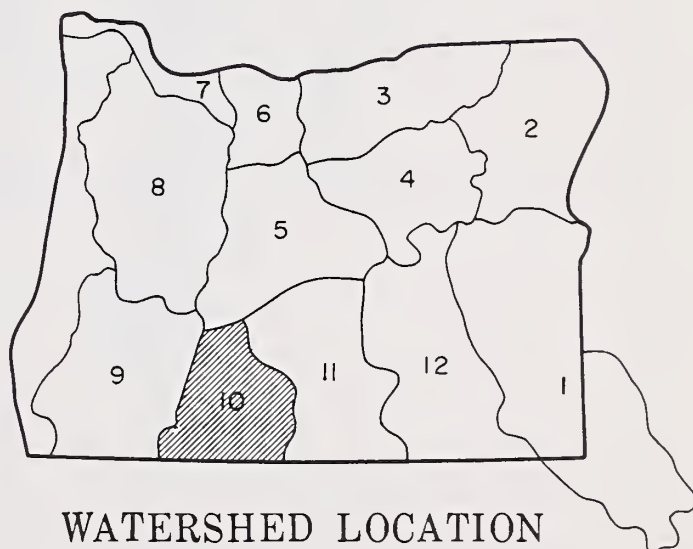
GENERAL OUTLOOK

KLAMATH COUNTY WATER USERS WILL HAVE AVERAGE TO WELL ABOVE AVERAGE WATER SUPPLIES NEXT SPRING AND SUMMER. THE SNOWPACK IN THE CASCADES IS NEARLY DOUBLE THE NORMAL FOR JANUARY 1. AVERAGE AMOUNTS OF SNOW EXIST IN THE EASTERN AREAS OF THE COUNTY ON THE SPRAGUE AND LOST RIVERS. PRECIPITATION HAS GENERALLY BEEN ABOVE AVERAGE DURING THE OCTOBER-DECEMBER PERIOD. ALL THREE MAJOR RESERVOIRS IN THE COUNTY CONTAIN ABOVE AVERAGE AMOUNTS OF WATER FOR JANUARY 1. THE INFLOW TO KLAMATH LAKE HAS BEEN 140% OF AVERAGE DURING THE PAST THREE MONTHS.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley Lost River (Clear Lake) Lost River (Gerber) Lost River (Willow Res.) Sprague River Upper Klamath Lake Williamson River	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



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 PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁱ
Clear Lake Reservoir Inflow	c				
Gerber Reservoir Inflow	c				
Sprague near Chiloquin	c				
Upper Klamath Lake net Inflow ^k	c				
Williamson below Sprague River	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Upper Klamath	1	110	85

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average ⁱ
Clear Lake	440.2	257.1	289.5	188.4
Gerber	94.0	42.3	51.3	37.9
Upper Klamath Lake	584.0	428.2	395.2	341.3

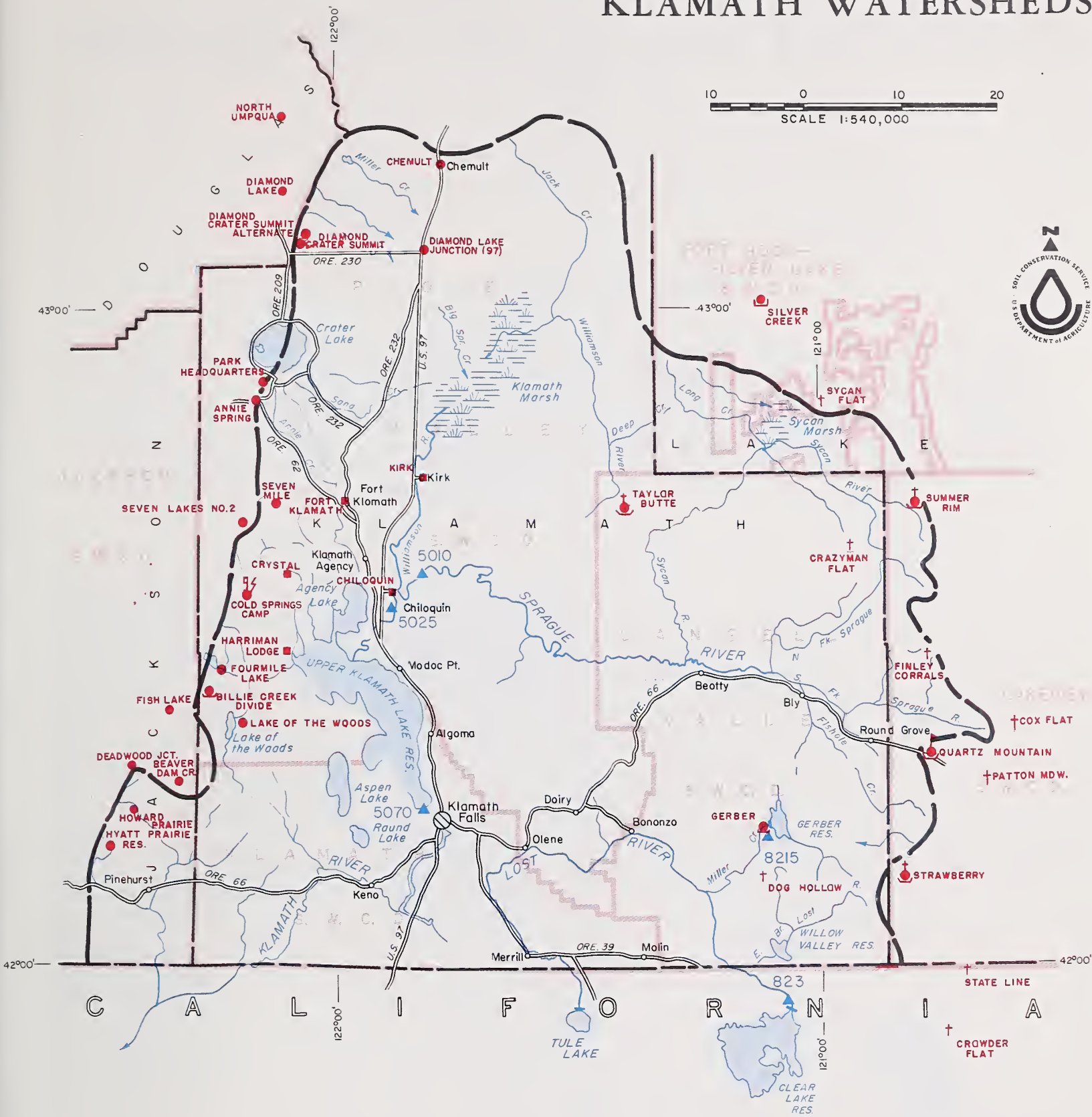
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)













RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Lost River	1	-	90
Sprague River	2	315	95
Upper Klamath	7	270	150
Williamson River	3	390	190

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

KLAMATH WATERSHEDS



LEGEND

-  Watershed Boundary
-  Sub-watershed Boundary
-  Soil Conservation District Bdry.
-  County Boundary
-  Forecast Point
-  Snow Course
-  Aerial Snow Depth Gage
-  PP&L Snow Station
-  Soil Moisture Station
-  Precipitation Gage
-  Radio Telemetry
-  Temperature Gage

WATER SUPPLY OUTLOOK

LAKE COUNTY, GOOSE LAKE WATERSHEDS

OREGON

as of

JANUARY 1, 1974

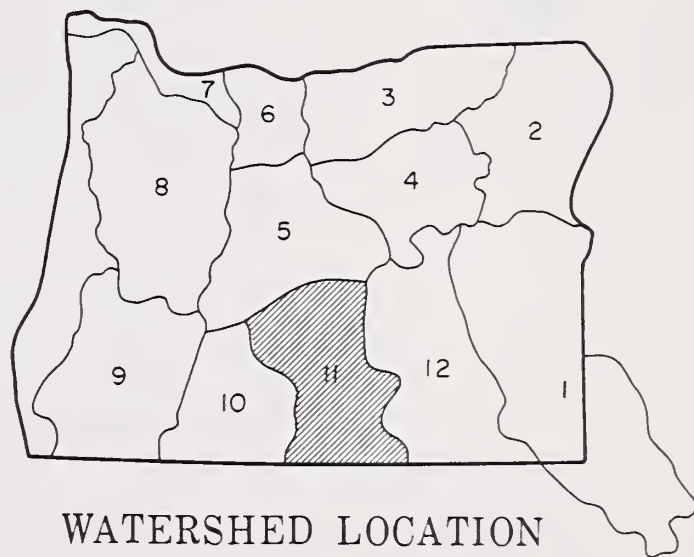
GENERAL OUTLOOK

LAKE COUNTY SHOULD EXPERIENCE NEAR AVERAGE WATER SUPPLIES NEXT SPRING AND SUMMER. THE MOUNTAIN SNOWPACK IS GENERALLY NEAR AVERAGE. A MORE COMPLETE PICTURE WILL BE AVAILABLE NEXT MONTH WHEN ALL SNOW COURSES AND AERIAL MARKERS WILL BE READ. PRECIPITATION DURING THE PAST THREE MONTHS HAS BEEN ABOUT 120% OF AVERAGE. DREWS AND COTTONWOOD RESERVOIRS ARE BOTH HOLDING NEAR AVERAGE AMOUNTS OF WATER FOR JANUARY 1.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River Crooked Creek Deep Creek Dry Creek East Side Goose Lake Guano Lake Honey Creek Lakeview Water Users Assn. Rock Creek (Hart Mountain) Silver-Buck Creeks Summer Lake Thomas Creek Twentymile Creek Warner Lakes	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average i
Chewaucan near Paisley	c				
Deep above Adel	c				
Drews Reservoir net Inflow	c				
Honey near Plush	c				
Silver Creek near Silver Lake	c				
Twentymile near Adel	c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average i
Chewaucan, Silver Creek, Drew Creek	1	110	85
Honey, Deep, 20-Mi. Cr.	1	100	110

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average i
Cottonwood	8.7	2.7	- -	2.1*
Drews	63.0	34.8	- -	29.8

*Average for years of record (in base period) after reconstruction.

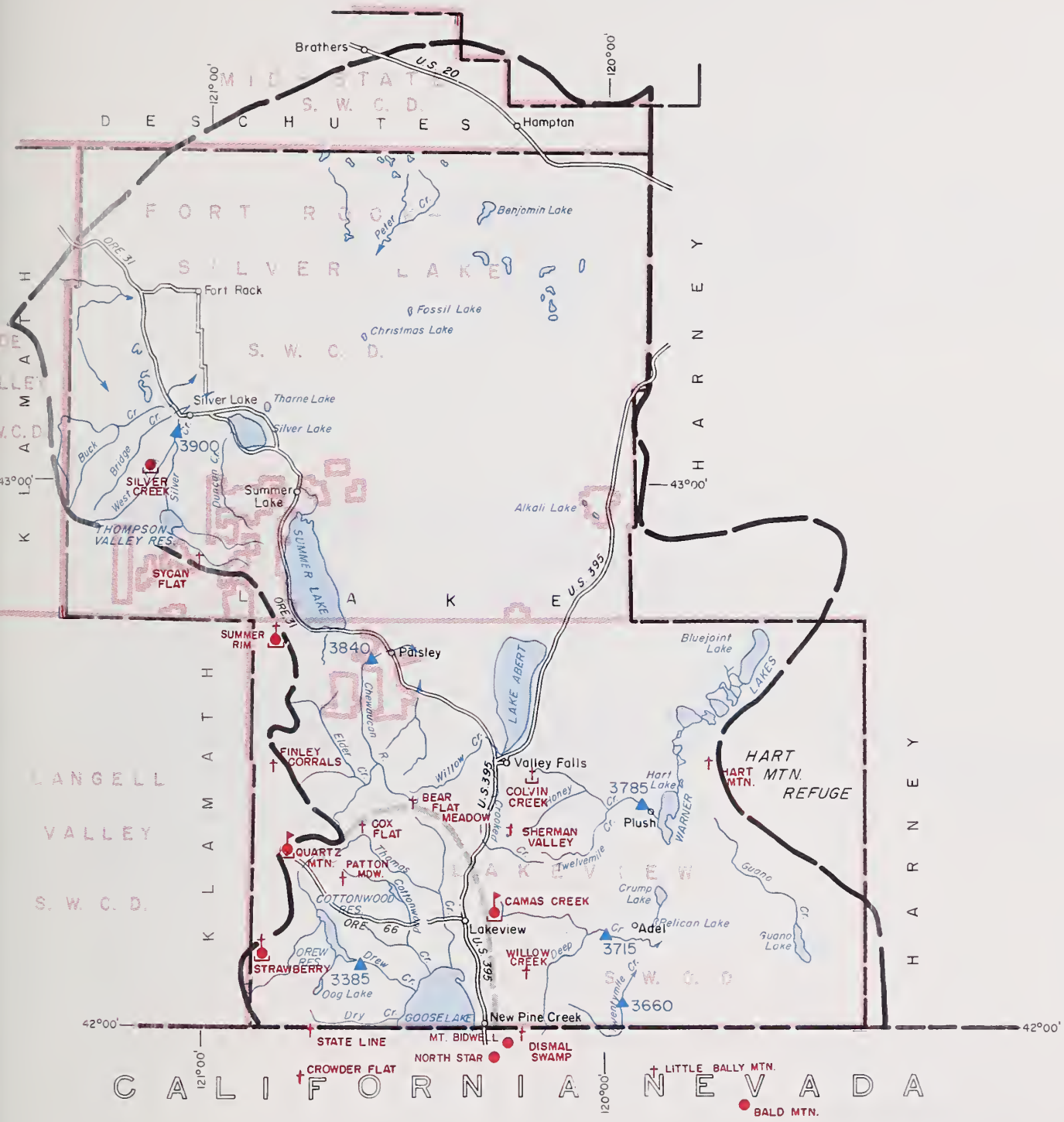
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i
Chewaucan River	2	315	90
Deep Creek	1	280	115
Drew Creek	1	285	65
Honey Creek	1	280	115
Silver Creek	2	380	90
Twentymile Creek	-	-	-

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

LAKE COUNTY, GOOSE LAKE WATERSHEDS



LEGEND

- CEDAR PASS
- ADIN MTN.
- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- P.P.&L. Snow Station
- ▶ Soil Moisture Station
- ┌ Precipitation Gage

WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

as of

JANUARY 1, 1974

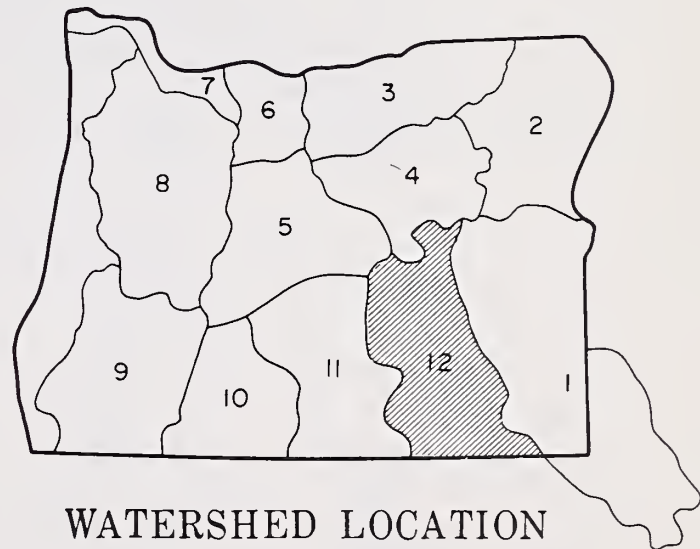
GENERAL OUTLOOK

HARNEY COUNTY WATER USERS SHOULD HAVE WELL ABOVE AVERAGE WATER SUPPLIES AVAILABLE NEXT SPRING AND SUMMER. THE MOUNTAIN SNOWPACK IS NEARLY DOUBLE THE NORMAL FOR JANUARY 1. PRECIPITATION DURING THE PAST THREE MONTHS HAS BEEN 120 TO 150% OF AVERAGE AND, AS A RESULT, SOILS BENEATH THE SNOWPACK CONTAIN ABOVE AVERAGE AMOUNTS OF MOISTURE FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley Cow Creek Donner und Blitzen River Mill-Coffeepot Creeks Rattlesnake Creek Silver Creek Silvies River Soldier-Prather Creek Trout Creek Whitehorse Creek	Forecasts begin in the February 1 report which will be issued about February 8, 1974.	



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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	Last Year	Average ⁱ	
Donner und Blitzen near Frenchglen Silver near Riley Silvies near Burns Trout near Denio	c c c c				

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average ⁱ
Silvies River, Silver Cr. Trout Cr., Donner und Blitzen River	2 -	125 -	125 -

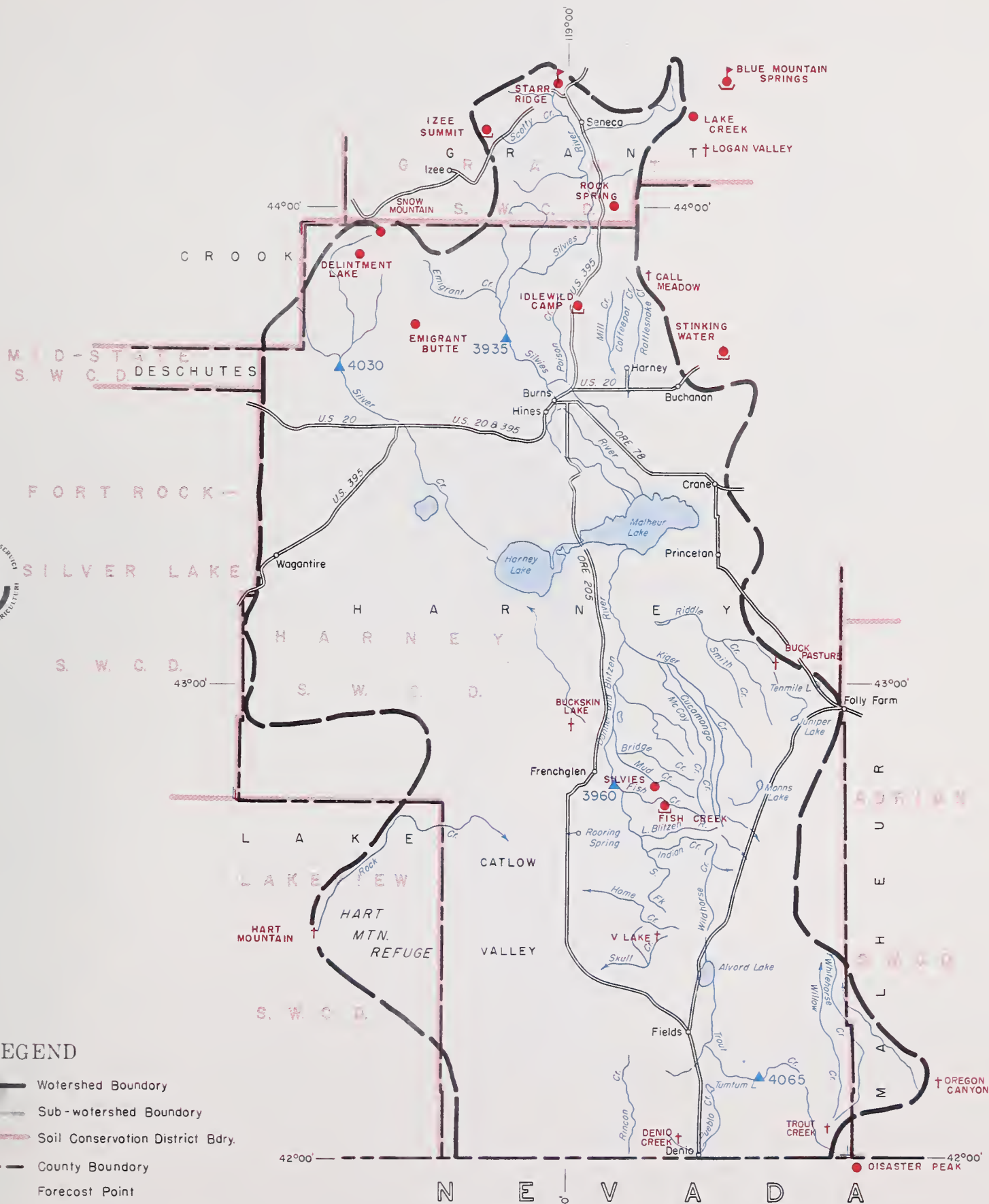
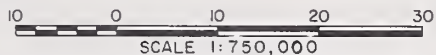
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average ⁱ
Donner und Blitzen R. Silver Creek Silvies River Trout Creek	1 - 4 -	675 - 250 -	195 - 210 -

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

HARNEY BASIN WATERSHEDS



BASIC DATA SUPPLEMENT 1

JANUARY 1, 1974

SNOW

SNOW

DRAINAGE BASIN and or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. l
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)	12/26	18	3.7	-	-
Battle Creek (Ida.)	c				
Bear Creek (Nev.)	12/31	36	9.2	9.8	7.8 ^h
Big Bend (Nev.)	1/4	23	5.9	3.9	3.0
Blue Mountain Springs	12/26	51	14.1	5.6	6.1
Blue Mtn. Springs Pillow*	12/26	-	7.6	4.4	-
Buck Pasture	c				
Buckskin, Lower (Nev.)	c				
Buckskin, Upper (Nev.)	c				
Bull Basin (Ida.)	c				
Bully Creek	c				
Call Meadow	c				
Columbia Basin (Nev.)	c				
Cottonwood-Indian	c				
Crane Prairie	c				
Disaster Peak (Nev.)	c				
Eldorado Pass	12/28	13	2.3	1.3	1.7
Fawn Creek (Nev.)	c				
Fish Creek	c				
Fish Creek Pillow*	c				
Flag Prairie	c				
Fox Creek (Nev.)	c				
Fry Canyon (Nev.)	1/4	22	4.9	4.8	3.0
Gold Creek (Nev.)	1/4	17	3.9	1.7	1.9
Granite Peak (Nev.)	c				
Hyde Pasture (Ida.)	c				
Jack Creek, Lower (Nev.)	c				
Jack Creek, Upper (Nev.)	c				
Jack Peak (Nev.)	c				
Lake Creek R.S.	12/26	32	7.7	3.5	3.8 ^h
Laurel Draw (Nev.)	c				
Logan Valley	c				
Lookout Butte	c				
Louse Canyon	c				
Martin Creek (Nev.)	c				
Merritt Mountain (Nev.)	c				
Midas (Nev.)	c				
Mud Flat (Ida.)	12/26	18	3.4	-	-
Oregon Canyon	c				
Quinn Ridge (Nev.)	c				
Red Canyon (Ida.)	c				
Rock Spring	12/27	18	3.4	1.8	1.8
Rodeo Flat (Nev.)	1/4	21	4.8	4.7	2.6
76 Creek (Nev.)	12/30	30	8.1	6.2	-
Silver City (Ida.)	1/4	42	12.7	3.4	5.6
Silvies	c				
Silvies Pillow*	c				
South Mountain #2 (Ida.)	1/3	37	11.2	2.6	3.9
Stag Mountain (Nev.)	c				
Stinking Water	12/28	12	2.7	0.4	1.4 ^h
Succor Creek (Ida.)	c				
Taylor Canyon (Nev.)	1/2	14	2.6	3.2	1.8
Toe Jam (Nev.)	c				
Tremewan Ranch (Nev.)	1/2	6	1.4	2.3	0.8
Triangle (Ida.)	c				
Trout Creek	c				
"V" Lake	c				
Vaught Ranch (Ida.)	c				
War Eagle (Ida.)	c				

DRAINAGE BASIN and or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. l
BURNT, POWDER, PINE, GRANDE RONDE, INNAHA WATERSHEDS					
Aneroid Lake #1	c				
Aneroid Lake #2	c				
Anthony Lake	1/2	68	20.1	8.0	11.0
Bald Mountain (Ore.)	c				
Beaver Reservoir (Rev.) ^{1/}	1/4	45	11.3	2.5	5.4 ^h
Big Sheep	c				
Blue Mtn. Summit	12/28	34	7.8	1.7	3.3
Bourne	c				
County Line	12/28	18	2.9	0.6	2.2
Dooley Mountain	12/26	22	4.8	2.5	3.8
Eilertson Meadows	12/27	37	9.0	2.2	4.7
Eldorado Pass	12/28	13	2.3	1.3	1.7
Gold Center	c				
Goodrich Lake	c				
Intake House	12/27	41	10.4	4.4	5.5 ^h
Little Alps	1/2	43	10.2	3.4	5.5 ^h
Little Antone	1/2	28	6.3	1.8	4.1 ^m
Lucky Strike	c				
Lucky Strike Pillow*	c				
Meacham	12/27	41	9.0	0.6	3.3
Mirror Lake	c				
Moss Spring	c				
Power Plant	12/27	22	3.7	1.8	3.0 ^h
Schneider Meadow	c				
Schoolmarm	12/28	16	2.6	0.5	1.9
Standley	c				
Taylor Green	c				
Tipton	12/28	46	11.3	3.1	4.2
Tipton Snow Pillow*	12/28	-	12.5	4.5	-
Tollgate	12/28	86	25.7	6.6	8.9
TV Ridge	c				
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	c				
Arbuckle Mtn. Pillow*	c				
Battle Mountain Summit	12/28	9	1.6	T	1.3 ^h
Blue Mountain Camp	12/28	51	18.4	2.8	5.5 ^h
Butte Creek Summit	b				
Emigrant Springs	12/27	29	8.5	T	2.4
High Ridge Pillow*	12/17	-	16.6	10.8	-
Lucky Strike	c				
Lucky Strike Pillow*	c				
Meacham	12/27	41	9.0	0.6	3.3
Tollgate	12/28	86	25.7	6.6	8.9
Weston Mountain	12/28	5	0.8	T	0.3 ^h

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i

UPPER JOHN DAY WATERSHEDS					
Anthony Lake	1/2	68	20.1	8.0	11.0
Arbuckle Mountain	c				
Arbuckle Mt. Pillow*	c				
Battle Mountain Summit	12/28	9	1.6	T	1.3 ^h
Beech Creek Summit	12/28	5	1.6	0.3	2.0
Blue Mountain Springs	12/26	51	14.1	5.6	6.1
Blue Mt. Springs Pillow*	12/26	-	7.6	4.4	- -
Blue Mountain Summit	12/28	34	7.8	1.7	3.3
Butte Creek Summit	b			1.4	- -
Derr	c				
Gold Center	c				
Indian Creek Butte	c				
Izee Summit	12/28	22	5.3	2.3	3.0
Lucky Strike	c				
Lucky Strike Pillow*	c				
Marks Creek	12/26	6	2.4	T	1.9
Ochoco Meadows	c				
Olive Lake	c				
Schoolmarm	12/28	16	2.6	0.5	1.9
Snow Mountain	c				
Snow Mt. Pillow**	1/3	-	8.5	5.2	- -
Starr Ridge	12/28	20	4.8	1.4	2.2
Tipton	12/28	46	11.3	3.1	4.2
Tipton Snow Pillow*	12/28	-	12.5	4.5	- -
Williams Ranch	c				

UPPER DESCHUTES, CROOKED WATERSHEDS					
Bald Peter	12/28	82	27.8	7.0	- -
Caldwell Ranch	c				
Cascade Summit	12/27	59	20.2	5.8	10.7
Chemult	12/28	22	6.9	2.2	4.0
Chemult Alternate	12/28	27	8.0	- -	- -
Derr	c				
Hogg Pass	12/27	73	28.5	5.5	14.5
Hungry Flat	12/24	11	3.9	0.0	3.5 ^m
Irish-Taylor Pillow ^{1/} **	1/3	-	31.2	10.0	- -
Lionshead	12/18	36	12.2	- -	- -
Marks Creek	12/26	6	2.4	T	1.9
New Crescent Lake	c				
New Dutchman Flat #2	12/24	85	50.5	15.1	22.3 ^m
Ochoco Meadows	c				
Racing Creek	12/28	42	14.4	1.6	- -
Snow Mountain	c				
Snow Mt. Pillow**	1/3	-	8.5	5.2	- -
Tamarack	c				
Tangent	12/24	54	18.1	5.6	8.4 ^h
Three Creek Butte	c				
Three Creek Meadow	c				
Three Creek Mdw. Pillow**	12/28	-	15.6	- -	- -
Waldo Lake	c				
Whitewater Meadow	12/18	14	4.8	- -	- -
Willamette Pass	c				
Willamette Pass Pillow**	b				

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadows					
Clear Lake	12/28	24	8.0	0.5	3.4
Clear Lake (Experimental)	12/28	40	13.4	1.3	5.4 ^h
Cooper Spur (Revised) ^{1/}	1/3	48	12.7	0.2	6.2 ^h
Greenpoint	c				
Knebal Springs	c				
Mt. Hood Test Site ^{1/} **	1/27	-	37.7	12.3	22.9
Parkdale	1/3	21	4.2	0.0	1.1 ^h
Red Hill	c				
Still Creek	12/28	52	20.4	2.2	7.9
Still Creek Alt. #2	12/28	53	20.5	2.3	- -
Switchback	c				
Tilly Jane	c				
Ulrich Ranch Junction	c				
Umbrella Falls	c				
Upper Valley	1/3	25	4.6	T	3.1 ^h

WILLAMETTE WATERSHEDS					
Cascade Summit	12/27	59	20.2	5.8	10.7
Champion	12/28	69	28.5	3.2	11.2 ^h
Clackamas Lake	c				
Clear Lake	12/28	24	8.0	0.5	3.4
Clear Lake (Expt.)	12/28	40	13.4	1.3	5.4 ^h
Dead Horse Grade	12/25	23	8.3	2.3	6.4
Detroit (Town)	12/27	0	0.0	0.0	1.0
Detroit Dam	12/27	0	0.0	0.0	0.5
Fawn Meadow	1/3	64	24.2	4.7	
Golden Curry Creek	12/28	0	0.0	0.1	2.3 ^m
Hogg Pass	12/27	73	28.5	5.5	14.5 ^m
Lake Harriet	12/28	T	T	- -	1.1 ^m
Laurel Mountain	1/2	T	T	0.6	- -
Layng Creek	12/28	0	0.0	0.0	0.1
Lookout Point Dam	12/23	0	0.0	0.0	0.0 ^h
Lost Creek Ranch	12/25	0	0.0	0.0	2.0
Lund Park	12/28	0	0.0	0.0	T ^h
Marion Forks	12/27	29	12.3	1.0	4.7 ^h
Marys Peak (Revised) ^{1/}	c				
McCredie Springs	12/23	0	0.0	0.0	0.5 ^h
McKenzie	12/25	72	41.4	9.2	17.8
McKenzie Bridge	12/25	0	0.0	0.0	0.6
Mill City	12/27	0	0.0	0.0	0.2
Mt. Hood Test Site ^{1/} **	12/27	-	37.7	12.3	22.9
Oakridge	12/23	0	0.0	0.0	0.0 ^h
Olallie Meadow	12/26	53	16.4	3.5	
Peavine Ridge Pillow**	1/3	-	15.5	1.4	5.7 ^h
Power Line (Olallie)	12/26	43	14.0	4.3	
Railroad Overpass	12/23	0	0.0	0.1	0.8 ^h
Saddle Mountain Pillow**	1/3	-	3.3	0.0	- -
Salt Creek Falls	12/27	26	10.2	1.8	5.2
Santiam Junction	12/27	48	21.2	3.1	8.6 ^h
Seine Creek Pillow**	1/3	-	0.0	0.0	- -
Still Creek	12/28	52	20.4	2.2	7.9
Still Creek Alt. #2	12/28	53	20.5	2.3	- -
Timothy Lake	12/28	36	12.7	- -	6.3 ^m
Valsetz Summit	1/2	0	0.0	T	- -
Vida	12/25	0	0.0	0.0	0.2
Waldo Lake	c				
Weaver Creek	12/28	0	0.0	T	0.4 ^m
White Branch Slide	12/25	T	T	1.0	3.1
Whitewater Bridge	12/27	7	3.2	T	2.3 ^h
Willamette Pass	c				
Willamette Pass Pillow**	b				

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i
ROGUE, UMPQUA WATERSHEDS					
Althouse (Revised) ^{1/}	c				
Annie Spring	12/30	102	35.3	15.7	16.3
Beaver Dam Creek	12/28	26	10.4	3.9	6.6 ^m
Big Red Mountain	c				
Billie Creek Divide	12/27	41	13.8	7.7	8.7 ^h
Caliban	c				
Caliban (Alternate)	c				
Champion	12/28	69	28.5	3.2	11.2 ^h
Cold Springs Camp	c				
Cold Spgs. Camp Pillow**	1/3	-	27.2	10.0	- -
Deadwood Junction	12/28	14	5.4	2.9	4.0 ^h
Diamond-Crater Sum. (Rev) ^{1/}	12/27	73	24.1	7.6	11.3 ^h
Diamond Lake	12/27	48	16.9	3.8	7.6
Fish Lake	12/27	24	8.9	4.2	5.6 ^h
Fourmile Lake	12/31	48	20.6	- -	- -
Grayback Peak	c				
Howard Prairie Reservoir	12/28	15	5.6	2.1	3.9 ^h
Hyatt Prairie	12/28	12	6.0	2.5	3.7
King Mountain #1	12/27	10	2.9	T	8.3 ^m
King Mountain #2	12/27	0	0.0	0.0	6.5 ^m
King Mountain #3	12/27	0	0.0	0.0	3.4 ^m
King Mountain #4	12/27	0	0.0	0.0	0.2 ^m
King Mountain #5	12/27	0	0.0	0.0	0.0 ^m
King Mountain #6	12/27	0	0.0	0.0	0.0 ^m
Little Red Mountain	c				
Mt. Ashland Switchback	c				
Mule Creek	12/27	0	0.0	0.0	- -
North Umpqua	12/28	35	12.5	2.8	6.0
Page Mountain	c				
Park Headquarters	12/30	136	48.5	19.8	23.3
Red Butte #1	12/26	25	10.3	0.0	6.5 ^m
Red Butte #2	12/26	8	2.7	0.0	4.0 ^m
Red Butte #3	12/26	0	0.0	0.0	2.8 ^m
Red Butte #4	12/26	0	0.0	0.0	1.8 ^m
Red Butte #5	12/26	0	0.0	0.0	2.2 ^m
Red Butte #6	12/26	0	0.0	0.0	0.6 ^m
Seven Lakes #2	c				
Seven Mile	c				
Silver Burn	12/28	23	8.0	3.3	5.6
Siskiyou Summit (Rev.) ^{1/}	12/28	4	1.2	T	3.7 ^h
Ski Bowl Road	c				
South Fork Canal	12/28	0	0.0	0.5	2.1
Trap Creek	12/28	26	10.0	3.7	5.2 ^h
Whaleback	c				

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i
KLAMATH WATERSHEDS					
Annie Spring	12/30	102	35.3	15.7	16.3
Billie Creek Divide	12/27	41	13.8	7.7	8.7 ^h
Chemult	12/28	22	6.9	2.2	4.0
Chemult (Alternate)	12/28	27	8.0	- -	- -
Chiloquin (PP&L)	12/31	2	0.6	- -	0.6 ^m
Cold Springs Camp	c				
Cold Springs Pillow**	1/3	-	27.2	10.0	- -
Crazyman Flat	c				
Crowder Flat (Calif.)	c				
Crystal (PP&L)	12/29	12	4.5	2.2	3.9
Diamond-Crater Sum (Rev) ^{1/}	12/27	73	24.1	7.6	11.3 ^h
Diamond Lake Junction (97)	12/27	10	2.6	T	2.4 ^h
Dog Hollow	c				
Finley Corrals	c				
Fort Klamath (PP&L)	12/31	3	1.2	T	1.7
Fourmile Lake	12/31	48	20.6	- -	- -
Gerber	1/2	3	1.0	T	1.1 ^h
Harriman (PP&L)	12/31	10	3.5	1.7	1.8
Howard Prairie	12/28	15	5.6	2.1	3.9 ^h
Hyatt Prairie Reservoir	12/28	12	6.0	2.5	3.7
Kirk (PP&L)	12/31	18	3.8	- -	3.3 ^h
Lake of the Woods	12/26	18	5.0	2.7	5.0 ^h
Park Headquarters	12/30	136	48.5	19.8	23.3
Quartz Mountain	12/28	9	1.7	0.6	2.6
Seven Lakes #2	c				
Seven Mile	c				
State Line (Calif.)	c				
Strawberry	c				
Summer Rim	c				
Summer Rim Pillow*	c				
Sycan Flat	c				
Taylor Butte	12/28	11	2.7	0.8	2.3 ^h
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)	c				
Bald Mountain (Nev.)	c				
Bear Flat Meadow	c				
Camas Creek	12/28	21	4.8	1.7	4.1 ^m
Cedar Pass (Calif.)	c				
Colvin Creek	c				
Cox Flat	c				
Crowder Flat (Calif.)	c				
Dismal Swamp (Calif.)	c				
Finley Corrals	c				
Hart Mountain	c				
Little Bally Mtn. (Nev.)	c				
Mt. Bidwell (Calif.)	c				
North Star (Calif.)	c				
Patton Meadows	c				
Quartz Mountain	12/28	9	1.7	0.6	2.6
Sherman Valley	c				
Silver Creek	12/27	3	0.7	0.1	1.5
State Line (Calif.)	c				
Strawberry	c				
Summer Rim	c				
Summer Rim Pillow*	c				
Sycan Flat	c				
Willow Creek	c				

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1974

SNOW DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.		SNOW DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)			Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)	
				Last Yr.	Ave. i					Last Yr.	Ave. i
HARNEY BASIN WATERSHEDS											
Blue Mountain Springs	12/26	51	14.1	5.6	6.1						
Blue Mtn. Springs Pillow*	12/26	-	7.6	4.4	- -						
Buck Pasture	c										
Buckskin Lake	c										
Call Meadows	c										
Delintment Lake	c										
Denio Creek	c										
Disaster Peak (Nev.)	c										
Emigrant Butte	c										
Fish Creek	c										
Fish Creek Pillow*	c										
Hart Mountain	c										
Idlewild Camp	12/28	20	5.0	0.2	1.8						
Idlewild Camp Alternate	12/28	17	4.6	0.2	- -						
Izee Summit	12/28	22	5.3	2.3	3.0						
Lake Creek R.S.	12/26	32	7.7	3.5	3.8 ^h						
Oregon Canyon	c										
Rock Spring	12/27	18	3.4	1.8	1.8						
Silvies	c										
Silvies Pillow*	c										
Snow Mountain	c										
Snow Mountain Pillow**	1/3	-	8.5	5.2	- -						
Starr Ridge	12/28	20	4.8	1.4	2.2						
Stinking Water	12/28	12	2.7	0.4	1.4 ^h						
Trout Creek	c										
"V" Lake	c										

*Manometer reading.

**Telemetry reading.

¹/Location has been changed--surveys are made on an alternate site and data has been revised accordingly.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBK records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 2

JANUARY 1, 1974

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average i
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	c			
Big Bend (Nev.)	6700	48	16.7	1/4	14.4	11.9	14.5 ^m
Blue Mountain Spring	5900	42	16.9	12/26	11.4	6.0	9.0 ^m
Crane Prairie	DISCONTINUED						
Jordan Valley	4390	48	19.3	1/3	14.5	16.7	14.8 ^m
Mud Flat (Ida.)	5500	48	12.8	c			
Rodeo Flat (Nev.)	6800	42	11.0	1/4	7.4	5.5	9.1 ^m
Taylor Canyon (Nev.)	6200	48	15.1	1/2	10.6	10.9	11.8 ^m
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	12/28	12.3	8.9	8.7 ^m
Dooley Mountain	5430	36	9.2	12/26	3.8	2.6	4.0 ^m
Emigrant Springs	3925	48	22.3	12/27	20.9	18.0	18.6 ^m
Ladd Summit	3730	48	18.9	1/2	11.0	9.9	10.0 ^m
Moss Springs	5850	36	25.8	c			
Tollgate	5070	48	23.6	12/28	14.2	14.0	18.7 ^m
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	12/28	13.7	12.0	11.7 ^m
Emigrant Springs	3925	48	22.3	12/27	20.9	18.0	18.6 ^m
Tollgate	5070	48	23.6	12/28	14.2	14.0	18.7 ^m
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	12/28	13.7	12.0	11.7 ^m
Beech Creek	4800	48	21.3	12/28	18.5	13.4	10.2 ^m
Blue Mountain Spring	5900	42	16.9	12/26	11.4	6.0	9.0 ^m
Blue Mountain Summit	5100	36	16.8	12/28	12.3	8.9	8.7 ^m
Derr	5670	24	9.0	c			
Marks Creek	4540	36	14.1	12/26	13.4	10.2	10.2
Snow Mountain	6300	48	16.7	c			
Starr Ridge	5150	36	10.6	12/27	10.6	9.0	8.9 ^m
Williams Ranch - DISCONTINUED							
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	c			
Marks Creek	4540	36	14.1	12/26	13.4	10.2	10.2
Snow Mountain	6300	48	16.7	c			
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS							
Cooper Spur - DISCONTINUED							
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	12/28	7.9	7.4	8.6 ^m

BASIC DATA SUPPLEMENT 2

JANUARY 1, 1974

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average ⁱ
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	12/28	12.9	12.8	11.9 ^m
Quartz Mountain	5230	48	15.3	12/28	7.9	7.4	8.6 ^m
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	12/26	11.4	6.0	9.0 ^m
Fish Creek - DISCONTINUED							
Silvies	6900	48	16.4	c			
Snow Mountain	6300	48	16.7	c			
Starr Ridge	5150	36	10.6	12/27	10.6	9.0	8.9 ^m
Willow-Bald	5000	24	6.6	1/7	6.6	4.6	4.8 ^m

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 3

JANUARY 1, 1974

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average ⁱ
Camas Creek (Lake County)	5825	From 12/8 to 12/28	9.45	3.57	
County Line (Umatilla County--Starkey Hdqs.)	4800	From 11/30 to 12/28	3.70	2.90	
Marks Creek (Crook-Wheeler Cos.)	4540	From 11/26 to 12/26	4.50	-	
Quartz Mt. Summit (Lake County)	6300	From 11/29 to 12/28	3.67	3.20	
Saddle Mountain (Washington County)	3250	From 12/1 to 12/29	24.70	-	
Seine Creek (Washington County)	2150	From 12/1 to 12/29	15.50	-	
Taylor Butte (Klamath County)	5040	From 10/29 to 12/28	10.96	4.83	

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

NUMBER	NAME	LOCATION	ELEV	NUMBER	NAME	LOCATION	ELEV	
SEC	TWP	RGE	SEC	TWP	RGE	SEC	TWP	RGE
OWYHEE, MALHEUR WATERSHEDS (11)								
Owyhee River								
1656	Antelope Ridge	(Ida) 20 5S 1E	5900	1667MP	Mud Flat	(Ida) 18 39N 46E	7200	
1659a	Battle Creek	(Ida) 10 11S 1E	5700	1675a	Oregon Canyon	(Ida) 34 9S 2W	5500	
15H1Ma	Bear Creek	(Nev) 31 46N 58E	7800	17M6a	Quinn Ridge	(Nev) 8 40S 40E	6950	
15H4MP	Big Bend	(Nev) 25 45N 39E	6700	16G11a	Red Canyon	(Ida) 32 11S 41E	6300	
17K	Buckskin, Upper	(Nev) 11 45N 39E	7200	15M6NP	Rodeo Flat	(Nev) 36 43N 4W	6650	
17H1	Bull Basin	(Ida) 29 12S 5W	5600	15M3A	76 Creek	(Nev) 6 44N 53E	6800	
16S10a	Columbia Basin	(Nev) 31 44N 53E	6650	16F3A*	Silver City	(Ida) 6 5S 3W	6400	
15H1	Disaster Peak	(Nev) 8 47N 34E	6500	16G1PA	Silvies	(Ida) 35 32S 33E	6900	
16S2a	Fam Creek	(Nev) 2 45N 52E	7000	15H19a	Stag Mountain No. 2	(Ida) 10 8S 5W	6340	
16S2PA	Fish Creek	(Nev) 3 33S 33E	7900	15M3A	Succor Creek	(Nev) 32 41N 58E	7800	
1342	Fox Creek	(Nev) 31 43N 54E	6700	15M9MP	Taylor Canyon	(Nev) 25 35S 5W	6100	
1547	Fry Canyon	(Nev) 31 45N 56E	6600	16M7a	Toe Jam	(Nev) 29 40N 50E	7700	
1545	Gramite Peak	(Nev) 22 44N 53E	7800	15M8	Tremewan Ranch	(Nev) 29 39N 55E	5700	
174	Hyde Pasture	(Ida) 31 8S 2W	5800	16G4NA	Triangle	(Ida) 25 7S 3W	5150	
16S5a	Jack Creek, Lower	(Nev) 18 42N 53E	6800	18G5a	Trout Creek	(Ida) 10 41S 38E	7800	
16S2a	Jack Creek, Upper	(Nev) 9 42N 53E	7250	18G7a	"V" Lake	(Ida) 31 35S 32E	6600	
164	Jack Peak	(Nev) 28 42N 53E	8420	16G12a	Vaught Ranch	(Ida) 10 11S 1W	5950	
1735a	Jordan Valley	(Nev) 2 30S 46E	4900	16G13a	War Eagle	(Ida) 20 5S 3W	7700	
16S	Laurel Draw	(Nev) 20 45N 53E	6700	Molheur River				
1766a	Lookout Butte	(Nev) 2 40S 47E	5650	18E1GMP	Blue Mountain Springs	21 15S 35E	5900	
1743	Louse Canyon	(Nev) 27 40S 44E	6440	18F6a	Buck Pasture	28 29S 35E	5300	
1743	Martin Creek	(Nev) 18 44N 40E	6700	18E21a	Bully Creek	11 17S 37E	5300	
15K20a	Nerritt Mountain	(Nev) 10 46N 54E	7000	18F7a	Call Meadows	29 20S 33E	5340	
				18E8	Cottonwood-Indian	3 19S 39E	4320	
				18E19H	Crane Prairie	24 16S 34E	5375	

18E20	Eldorado Pass	20 14S 38E	4600	18E23	Little Alps	10 7S 37E	6200
18E26a	Flag Prairie	32 16S 36E	4750	18E30	Little Antone	1 7S 37E	5000
18E22a	Lake Creek	10 16S 33E	5200	18E27P	Power Plant	33 7S 38E	3990
18F1	Logan Valley	13 16S 33E	5100	18E28	Taylor Green	3 6S 42E	5740
18E32*	Rock Spring	23 18S 32E	5100	Pine Creek			
18E32*	S. Fk. Willow Cr.	2 16S 37E	5500	1708	Schneider Meadows	35 6S 45E	5400
18F4P	Stinking Water	34 21S 34E	4800	Grande Ronde River			
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS (12)							
1701	Aneroid Lake No. 1	16 4S 45E	7480	1702P	Aneroid Lake No. 2	16 4S 45E	7300
18E1P	Anthony Lake	18 7S 37E	7125	18E1P	Anthony Lake	18 7S 37E	7125
17019a	Bald Mountain	14 8 15 4S 41E	6700	18E13M	Blue Mountain Summit	6 12S 36E	5098
1809	Beaver Reservoir	28 4S 34E	4800	17E1MP	Oodley Mountain	32 11S 40E	5430
1808P	County Line	28 4S 34E	4800	18E20	Eldorado Pass	20 14S 38E	4600
1806P	Lucky Strike	28 3S 32E	5050	18E9	Gold Center	21 9S 36E	5340
1805	Meacham	24 1S 35E	4300	18E3P	Tipton	34 10S 35E	5100
18020	Meacham Snow Pillow	35 1S 35E	4150	18E1P	Anthony Lake	18 7S 37E	7125
17013a	Mirror Lake	34 4S 44E	8200	18E5	Bourne	33 8S 37E	5800
1708H	Moss Spring	28 3S 41E	5850	17E1MP	Joolley Mountain	32 11S 40E	5430
1807	Schoolmamm	28 4S 34E	4775	18E3	Eilertson Meadows	18 8S 38E	5400
17011a	Standley	21 2S 42E	7450	18E8	Gold Center	21 9S 36E	5340
1707P	Taylor Green	3 6S 42E	5740	18E6A	Goodrich Lake	4 9S 38E	6775
1803	Tollgate	32 4N 38E	5070	18E29	Intake House	5 8S 38E	4930
17016a	TV Ridge No. 2	12 2S 43E	7000	17012m	Ladd Summit	5 5S 39E	3730
1701	Aneroid Lake No. 1	16 4S 45E	7480	Imnaha River			
1702P	Aneroid Lake No. 2	16 4S 45E	7300	1701	Aneroid Lake No. 1	16 4S 45E	7480
17014a	Big Sheep	33 4S 46E	6200	1702P	Aneroid Lake No. 2	16 4S 45E	7300
				17014a	Big Sheep	33 4S 46E	6200

21E6	Hogg Pass	24 13S 7E	4755	21E6a	Dog Hollow	1 40S 14E	4900
21E4	Marion Forks	29 11S 7E	2600	22G12	Foumille Lake	9 36S 16E	6000
22E3	Mill City	29 9S 3E	825	21G4P	Gerber	12 39S 13E	4850
21E5	Santiam Junction	14 13S 7E	3750	22G16	Howard Prairie	32 38S 4E	4500
21E3	Whitewater Bridge	20 10S 7E	2175	22G16	Myatt Prairie Reservoir	15 39S 3E	4500
McKenzie River							
21E8	Dead Horse Grade	13 16S 7E	3700	22G15	Lake of the Woods	11 37S 5E	4960
22E4	Lost Creek Ranch	19 16S 7E	1936	22G5	Park Headquarters	8 31S 6E	6550
21E7	McKenzie	35 15S 7E	4800	22G6MP	Quartz Mountain	2 38S 16E	5320
22E5	McKenzie Bridge	13 16S 5E	1372	22G11	Seven Lakes No. 2	26 33S 5E	6200
22E6	Vida	28 16S 2E	800	22G12	State Line	(Cal) 21 48N 11E	5750
21E9	White Branch Slide	15 16S 7E	2700	22G13	Strawberry	23 33S 16E	7100
Middle Fork Willamette River							
22F3	Cascade Summit	7 23S 6E	4880	22G13P	Sycan Flat	25 31S 14E	5500
22F8	Lookout Point Dam	13 19S 1W	750	21G3P	Taylor Butte	21 33S 11E	5100
22F6	McCredie Springs	36 21S 4E	2120	Pacific Power and Light Company's Snow Stations			
22F7	Oakridge	16 21S 3E	1310	3	Chiloquin (PP&L)	34 34S 7E	4187
22F5	Railroad Overpass	21 22S 5E	2750	4	Croyston (PP&L)	26 34S 6E	4200
22F4	Salt Creek Falls	32 22S 5E	4000	5	Fort Klamath (PP&L)	22 33S 7E	4150
22F2P	Waldo Lake	15 24S 6E	3600	8	Harriman Lodge (PP&L)	3 36S 6E	4200
22F14*	Willamette Pass	33 24S 5E	5600	6	Kirk (PP&L)	1 33S 7E	4533
Coast Fork Willamette River							
22F9	Champion	12 23S 1E	4500	LAKE COUNTY, GOOSE LAKE WATERSHEDS			
22F10	Golden Curry Creek	1 23S 1E	3136	Goose Lake			
22F13	Layne Creek R.S.	31 21S 1E	1200	20G15a	Bear Flat Meadow	27 36S 19E	5900
22F12	Lund Park	22 22S 1E	1740	20G8MP	Camas Creek	5 39S 21E	5720
22F11	Weaver Creek	35 22S 1E	2440	20G11A	Cox Flat	16 37S 18E	5750
Upper Deschutes River							
21E22	Bald Peter	29 10S 9E	5400	20H2a	Crowder Flat	(Cal) 30 47N 11E	5200
21F8	Caldwell Ranch	30 21S 9E	4400	20G17a	Dismal Swamp	(Cal) 29 38S 16E	6800
22F3	Cascade Summit	7 23S 6E	4880	20G17b	Patton Meadow	2 38S 15E	5320
21F11	Chemult	21 27S 8E	4760	20G6MP	Quartz Mountain	2 38S 16E	6800
21E6	Hogg Pass	24 13S 7E	4755	20H1a	State Line	(Cal) 21 48N 11E	5750
21F4	Hungry Flat	29 18S 11E	4400	20G9AP	Strawberry	4 40S 16E	5760
21F6*	Irish-Taylor	25 20S 6E	5500	20G16a	Willow Creek	13 40S 21E	6020
21F10	New Crescent Lake	11 24S 6E	4800	Abert Lake			
21E16	New Outchman Flat #2	21 18S 9E	6400	20G15a	Bear Flat Meadow	27 36S 19E	5900
21E23	Racing Creek	15 10S 9E	4800	20G18ap	Colvin-Creek	12 36S 21E	6550
21F3	Tangent	28 18S 10E	5400	20G11A	Cox Flat	16 37S 18E	5750
21E15	Three Creeks Butte	27 16S 9E	5200	20G14a	Finley Corral	11 36S 15E	6000
21E13*	Three Creeks Meadows	34 16S 9E	5650	20G6MP	Quartz Mountain	2 38S 16E	6800
22F2P	Waldo Lake	15 21S 6E	5600	20G10a	Snerman Valley	15 37S 21E	6320
22F14*	Willamette Pass	33 24S 5E	5600	20G10a	Snerman Valley	15 37S 21E	6320
Crooked River							
19E3MP	Oerr	14 13S 23E	5670	ROGUE, UMPQUA WATERSHEDS (13)			
20E1MP	Harks Creek	25 12S 19E	4540	Rogue River			
20E2	Ochoco Meadows	21 13S 20E	5200	23G4P	Althouse	17 41S 7W	4530
19F1*	Snow Mountain	1 19S 26E	6220	22G6	Annie Spring	19 31S 6E	6018
19E4	Tamarack	8 15S 25E	4800	22G28	Beaver Dam Creek	1 38S 4E	5100
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS (14)							
Hood River							
2106P	Brooks Meadows	2 2S 10E	4300	22G21P	Big Red Mountain	31 40S 1W	6250
2102S	Cooper Spur	6 2S 10E	3490	22G13P	Billie Creek Divide	30 36S 5E	5300
2101	Greenpoint Reservoir	27 2N 9E	3200	22G30	Callibar	16 40S 1E	6500
21020	Knebal Springs	31 1S 11E	3850	22G27	Deadwood Junction	8 38S 4E	4600
21023	Parkdale	5 1S 10E	1770	22F19	Diamond-Crater Summit	34 28S 6E	5800
2108*	Phlox Point	7 3S 9E	5400	22G14P	Fish Lake	3 37S 4E	4665
2104	Red Hill	20 1S 9E	4400	22G12	Foumille Lake	9 36S 5E	6000
2109	Still Creek	25 3S 8E	3670	23G3	Grayback Peak	9 40S 5W	6000
21028	Switchback	15 2S 9E	6000	22G26	Howard Prairie	32 38S 4E	4500
2107P	Tilly Jane	28 1S 9E	3255	22G16	Hyatt Prairie Reservoir	15 39S 3E	4900
21021	Ulrich Ranch Junction	28 1S 11E	3350	22G22	Little Red Mountain	25 40S 2W	6500
21030	Umbrella Falls	3 3S 9E	5400	22G21	Mt. Ashland Switchback	15 40S 1E	6400
21024	Upper Valley	20 1S 10E	2530	23G14	Mule Creek	8 32S 9W	3690
Mile Creeks - Mosier Creek							
2106P	Brooks Meadows	2 2S 10E	4300	23G5	Page Mountain	5 41S 7W	4045
21020	Knebal Springs	31 1S 11E	3850	22G5	Park Headquarters	8 31S 6E	6550
21021	Ulrich Ranch Junction	28 1S 11E	3350	22G11	Seven Lakes No. 2	26 33S 5E	6200
Lower Deschutes River							
21012	Clear Lake	29 4S 9E	3500	22G2	Silver Burn	30 30S 4E	3720
21022	Clear Lake Experimental	29 4S 9E	3500	22G20	Siskiyou Summit	17 40S 2E	4630
21E6	Hogg Pass	24 13S 7E	4755	22G32	Ski Bowl Road	22 40S 1E	6000
LOWER COLUMBIA WATERSHEDS (17)							
Sandy River							
2108*	Phlox Point	7 3S 9E	5400	22G1	South Fork Canal	12 33S 3E	3500
2109	Still Creek	25 3S 8E	3670	22G1	Whaleback	4 31S 2E	5025
WILLAMETTE WATERSHEDS (18)							
Clackamas River							
21013	Clackamas Lake	3S 5S 8E	3400	Umpqua River			
21012	Clear Lake	29 4S 9E	3500	22F9	Champion	12 23S 1E	4500
21016	Lake Harriet	4 6S 7E	2045	22F18P	Diamond Lake	29 27S 6E	5315
21014P*	Peavine Ridge	14 15 6S 7E	3500	23G8	King Mountain No. 1	5 33S 4W	4500
2108*	Phlox Point	7 3S 9E	5400	23G9	King Mountain No. 2	4 33S 4W	4000
2109	Still Creek	25 3S 8E	3670	23G10	King Mountain No. 3	33 32S 4W	3648
21017	Timothy Lake	26 5S 8E					

The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon State University
Oregon State Engineer and Corps of State Watermasters
Oregon State Highway Engineers
Soil and Water Conservation Districts of Oregon

COUNTY

Douglas County Water Resources Survey

FEDERAL

Department of Agriculture
Cooperative Extension Service
Forest Service
Soil Conservation Service
Department of Commerce
NOAA, National Weather Service
Department of the Interior
Bonneville Power Administration
Bureau of Land Management
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
National Park Service
Department of National Defense
Corps of Army Engineers

PUBLIC UTILITIES

Pacific Power and Light Company
Portland General Electric Company
California-Pacific Utilities Company

MUNICIPALITIES

City of Baker
City of La Grande
City of The Dalles
City of Walla Walla

IRRIGATION DISTRICTS

Arnold Irrigation District
Associated Ditch Companies
Burnt River Irrigation District
Central Oregon Irrigation District
East Fork Irrigation District
Grants Pass Irrigation District
Hood River Irrigation District
Jordan Valley Irrigation District
Juniper Flat Irrigation District
Lakeview Water Users, Incorporated
Medford Irrigation District
Middle Fork Irrigation District
North Board of Control - Owyhee Project
North Unit Irrigation District
Ochoco Irrigation District
Rogue River Valley Irrigation District
South Board of Control - Owyhee Project
Squaw Creek Irrigation District
Talent Irrigation District
Tumalo Project
Vale-Oregon Irrigation District
Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

The Crag Rats, Hood River, Oregon



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"The Conservation of Water begins with the Snow Survey"

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