

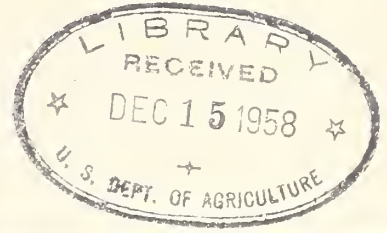
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# ROGUE RIVER WATERSHED

## WATER SUPPLY OUTLOOK

as of

APRIL 1, 1954



**U. S. SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION**

### S U M M A R Y

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Water Supply Outlook: Satisfactory to abundant water supplies are forecast for Rogue River lands this season. Applegate and Illinois areas have abundant water supplies in sight.

3

Streamflow Forecasts: Forecasts in the Rogue Basin vary from 177 percent ~~7~~ <sup>73</sup> 10 year average on the Applegate River to 108 percent on the main Rogue at Roygold and 92 percent average inflow to Fourmile Lake.

3

Reservoir Storage: Stored water in the four main reservoirs is greater than last year and is 173 percent of average. Hold over from last season was very satisfactory.

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Snow-Cover: Snow-cover is 113 percent average and 93 percent of last year. On the Applegate and Illinois the snow is 135 and 122 percent average, respectively.

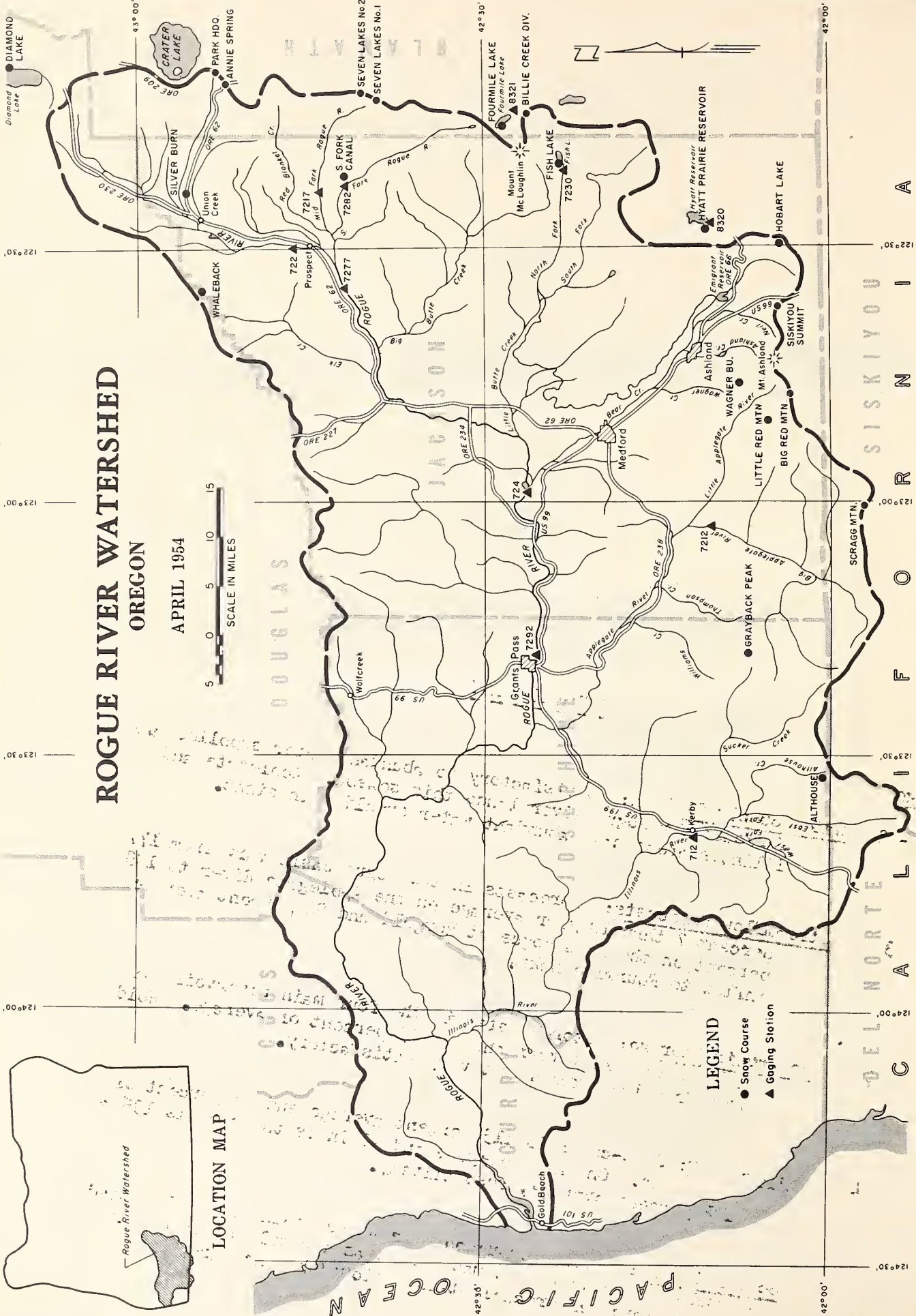
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Soil Moisture: Soils throughout the Rogue Basin are well wetted and even saturated in many areas as a result of extremely heavy November precipitation followed by the warm, open winter.

# ROGUE RIVER WATERSHED OREGON

APRIL 1954

LOCATION MAP



### LEGEND

- Snow Course
- ▲ Gaging Station

WATER SUPPLY OUTLOOK - For April-September, 1954<sup>a</sup>

Source of Water	Acreage Irrigated	Outlook
Althouse Creek	250	Above average water supplies.
Ashland Creek	302	Water supplies should be well above average. Snow-cover is greater than 1953.
Applegate River (Big)	6,687	Abundant water supplies are in sight due to the heavy snow-cover which is 135 percent average. Soils are very wet in the watersheds.
Applegate River (Little)	644	Adequate water will come from the very heavy snow-pack.
Bear Creek	375	Adequate water for irrigation.
Butte Creek (Big)	5,222	Eagle Point Irrigation District will have adequate water this season. Snow-cover is slightly below that of last year but is well above average.
Elk Creek	136	Adequate water for irrigation.
Evans Creek	800	Adequate water for all the usual irrigation. Soils well wetted.
Fourmile and Fishlake Reservoirs	13,183	Medford and Rogue River Valley Irrigation Districts will have adequate water supplies. Fourmile Lake is spilling already and inflow to Fish Lake reservoir is expected to be equal to the 10 year average, 1942-51. The soil in the watersheds are well wetted.
Grave Creek	125	Adequate water for irrigation.
Hyatt and Emigrant Reservoirs	10,317	Talent Irrigation District will have adequate water supplies with inflow to Hyatt Lake expected to be 112 percent of the 10 year average. Hyatt will fill by mid-April and Emigrant is already full.

a - Assuming normal meteorological conditions during the April - September period.

WATER SUPPLY OUTLOOK (Contd.)

Source of Water	Acreage Irrigated	Outlook
Illinois River	400	Abundant water supplies.
Illinois River, East Fork	900	Abundant water supplies. Snow-pack is 122 percent average.
Illinois River, West Fork	200	Abundant water supplies.
Jump-off Joe Creek	210	Adequate for usual irrigation.
Neil Creek	1,178	Water supplies should be well above average. Snow-cover is 112 percent of last year and 132 percent average.
Red Blanket Creek	313	Adequate for usual irrigation.
Rough and Ready Creek	200	Adequate for usual irrigation.
Rogue River	14,088	Adequate water for 1954 season. Snow-cover is 107 percent average and 91 percent of last year. Grants Pass Irrigation District can expect low flow of river to remain high enough that no regulation will be necessary. Discharge of main Rogue above Prospect will be 111 percent average; Middle Fork will be 100 percent and the South Fork will be 103 percent. Snow-cover at Annie Spring is 107 percent average.
Slate Creek	200	Adequate for usual irrigation.
Sucker Creek	1,042	Abundant water supplies. Present snow-cover is well above average and soils are very wet under snow.
Thompson Creek	861	Adequate for usual irrigation. Snow-cover well above average.
Wagner Creek	145	Adequate water- McDonald Ditch will flow all or most of the season.
Williams Creek	720	Adequate for usual irrigation.

STREAMFLOW FORECASTS<sup>a</sup> - As of April 1, 1954

Gaging Station		Seasonal Streamflow in 1000 a.f.			1954
No.	Name	Forecast 1954		Avg.	as %
		Apr:Sept.	Apr-July	1942-51	of Avg
7212	Applegate R., nr. Ruch	198.0	— —	111.7	177
8321	Fourmile Lake net Inflow*	7.0	— —	7.6	92
8320	Hyatt Res. net Inflow*	6.4	— —	5.7	112
712	Illinois R., nr. Kerby	213.0	— —	177.9	120
7230	L. Butte Cr., N. Fk., below Fish Lk.*	15.3	— —	15.3	100
722	Rogue R., abv. Prospect*	357.0	— —	320.3	111
	Rogue R., abv. Prospect*	— —	308.0	267.8	115
7217	Rogue R., M. Fk., nr. Prospect*	76.0	— —	76.1	100
	Rogue R., M. Fk., nr. Prospect*	— —	60.0	60.2	100
7282	Rogue R., S. Fk., nr. Prospect*	80.0	— —	77.9	103
	Rogue R., S. Fk., nr. Prospect*	— —	69.0	66.5	104
7277	Rogue R., below South Fork	730.0	— —	686.5	106
	Rogue R., below South Fork	— —	610.0	557.2	109
724	Rogue R., at Raygold nr. Central Pt.	990.0	— —	922.8	108
	Rogue R., at Raygold nr. Central Pt.	— —	850.0	766.2	111
7292	Rogue R., at Grants Pass	950.0	— —	878.7	108

\* Corrected to natural flow

RESERVOIR STORAGE

Reservoir	Usable Capacity 1000 a.f.	Thousand a.f. in storage about April 1, 1954			1954 as % of 10 Yr. Avg.
		1954	1953	10 yr. Avg. 1942-51	
Emigrant Gap	8.3	8.3	8.3	7.9	105
Fish Lake	7.8	7.0	6.8	4.9	143
Fourmile Lake	16.1	15.1	14.7	7.0	216
Hyatt Prairie	16.1	14.5	13.2	6.2	234
Total (4 Reservoirs)	48.3	44.9	43.0	26.0	173

SNOW COVER - As of April 1, 1954

No.	Snow Course Name	Elev.	1954		Water Content (in) 1954		1954 as % of Avg
			Snow Depth (in)	Water Content (in)	1953	Average	
- below 4000' -							
7219	Silver Burn	3720'	0.0	0.0	0.0	1.4	0
7218	S. Flk. Canal	3500'	32.7	14.3	16.9	11.7	122
	Average		—	7.2	8.4	6.6	109
- 4000' to 6000' -							
7216	Althouse	4400'	16.7	5.1	5.8	7.6	67
722	Billie Cr. Div.	5300'	54.4	20.3	24.6	22.4	91
743	Diamond Lake	5315'	65.7	28.0	32.5	20.4	137
725	Fish Lake	4865'	32.4	12.4	14.2	12.5	99
7221	Hobart Lake	5010'	18.4	8.9	6.2	6.3	141
723	Hyatt Pr. Res.	4900'	27.3	12.4	12.2	9.2	135
728	Siskiyou Sum.	4630'	Snow Removed		—	4.0	—
7217	Whaleback	5190'	89.1	39.9	42.8	36.0	111
	Average		—	18.1	19.8	16.3	111
- Above 6000' -							
831	Annie Spring	6018'	115.6	47.8	56.5	44.6	107
729	Big Red Mtn.	6500'	102.3	42.6	42.8	30.1	142
7223	Fourmile Lake	6000'	62.1	25.6	32.4	32.4	79
727	Grayback Pk.	6000'	76.0	36.4	32.6	26.4	138
7210	Little Red Mtn.	6500'	74.7	32.9	34.6	23.5	140
838	Park Hdgs.	6450'	145.5	63.6	69.6	65.2	98
7220	Scragg Mtn.	6200'	74.2	37.6*	39.5	30.1	125
7211	Seven Lakes #1	6800'	153.0	65.9	70.2	57.6	114
7212	Seven Lakes #2	6200'	104.1	45.1	48.2	42.8	105
7213	Wagner Butte	6900'	55.9	23.4	19.9	17.7	132
	Average		—	42.1	44.6	37.0	114
Average (19 Snow Courses)			—	29.6	31.7	26.2	113

\* Partly estimated

SOIL MOISTURE

Soils in:	Fall Status	Current status as of April 1, 1954
Lower Valleys	Well Saturated	Well Saturated
Upper Valleys	Well Saturated	Well Saturated
Mountains	Well Saturated	Well Saturated