

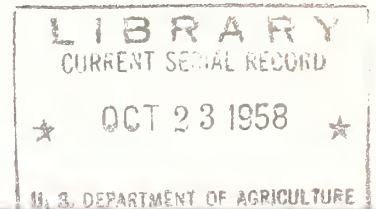
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UMATILLA RIVER, WALLA WALLA RIVER and WILLOW CREEK WATERSHEDS

WATER SUPPLY OUTLOOK

as of

APRIL 1, 1957



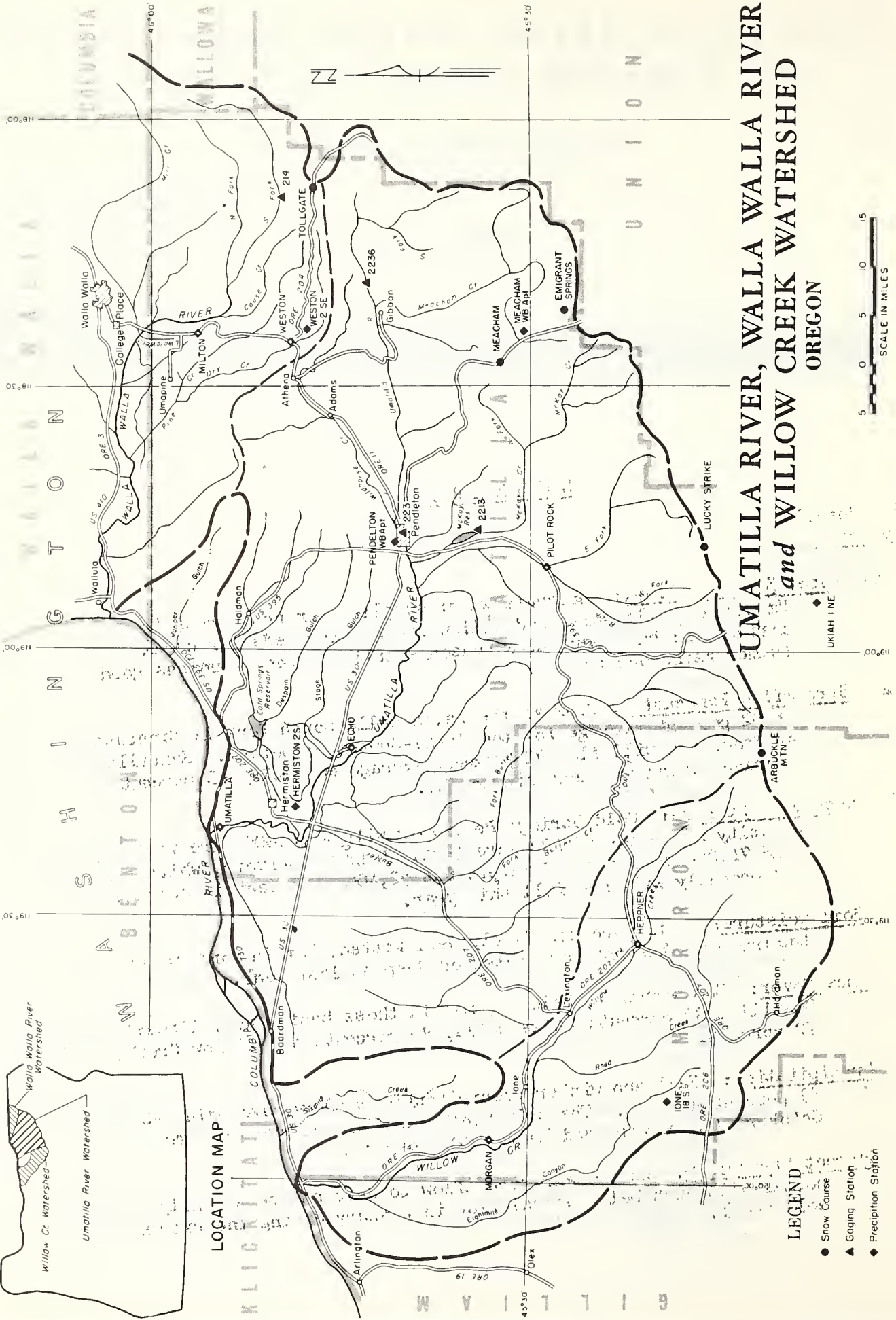
U. S. SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

S U M M A R Y

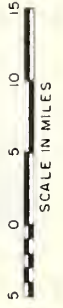
For details
see page:

- 1 Water Supply Outlook: Adequate water supplies for most areas in Umatilla, Walla Walla and Willow Creek watersheds for usual irrigation; but short late season supplies expected unless good summer rains occur.
- 2 Streamflow Forecasts: Flow of the Walla Walla South Fork is forecast at 82 percent average for the April-September period. Umatilla at Pendleton will flow 92 percent average and McKay 68 percent average during the next six months.
- 2 Reservoir Storage: Cold Springs Reservoir with a 50,000 acre feet capacity now holds 45,200 acre feet. McKay Reservoir, which can hold 74,000 acre feet of water, has 52,400 acre feet in storage and probably will not fill this year.
- 2 Soil Moisture: Soils are now fairly well wetted, but in some areas the moisture has not penetrated as deep as last year.
- 3 Snow-Cover: Snow-cover is below normal in these basins as follows: Umatilla, 82 percent; Walla Walla, 86 percent, and Willow Creek, 72 percent.
- 3 Precipitation: Fall and winter precipitation was low, averaging about 89 percent average. The only months well above average were October, 142 percent and March, 184 percent.

Current Streamflow: Water year streamflow to date has been nearly normal with much below normal flow in January during the extreme cold spell.



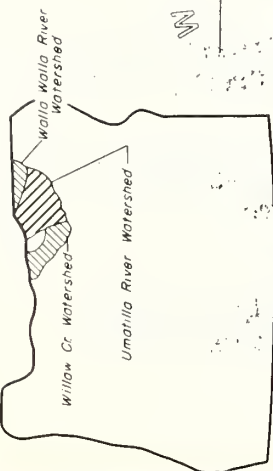
UMATILLA RIVER, WALLA WALLA RIVER and WILLOW CREEK WATERSHED OREGON



LEGEND

- Snow Course
- ▲ Gaging Station
- ◆ Precipitation Station

LOCATION MAP



WATER SUPPLY OUTLOOK
For April-September 1957^a

Source of Water	Acreage Irrigated	Outlook
<u>Walla Walla Basin</u>		
Mill Creek		Supplies Walla Walla city water. Flow will be adequate and will be about 29,000 acre feet during the next six months.
North Fork Walla Walla	124	Adequate water for all usual irrigation.
South Fork Walla Walla	348	Adequate water for all usual irrigation.
Main Walla Walla	1,344	Adequate water for all usual irrigation.
Little Walla Walla	13,700	Adequate water for usual irrigation but late water rights on Hudson Bay and Plainview Ditches will be short late in season.
Mud Creek	373	Some late-season shortages--otherwise adequate.
Dry Creek	1,207	Some late-season shortages--otherwise adequate.
Pine Creek	759	Some late-season shortages--otherwise adequate.
Dugger Creek	595	Some late-season shortages--otherwise adequate.
Johnson Creek	110	Some late-season shortages--otherwise adequate.
<u>Umatilla Basin</u>		
Main Umatilla	12,074	Early-season water will be adequate. Late-season supplies will fall off unless sustained by good summer rains.
Umatilla and Cold Springs	6,000	Early-season water will be adequate. Possibly some late-season shortages. McKay storage below normal. Supplies will be nearly adequate if properly used and with good summer rains.
Umatilla and McKay Res.	9,693	One irrigation only. Late-season water likely to be short.
McKay Creek	280	One irrigation only. Late-season water likely to be short.
Birch Creek	1,000	One irrigation to augment a good flow received already.
Butter Creek	6,000	
<u>Willow Creek Basin</u>		
Willow and Rhea Creeks	11,780	Below normal flow forecast. Adequate for only one good irrigation.

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

STREAMFLOW FORECASTS^a
As of April 1, 1957

No.	Gaging Station Name	Seasonal Streamflow in 1000 a.f. 1957 as			
		Forecast 1957	Forecast Period	15-Yr. Avg. 1938-52	% of 15-Yr. Avg.
214	Walla Walla So. Fk. nr. Milton	58.0	Apr.-Sept.	70.5	82
214	Walla Walla So. Fk. nr. Milton	48.0	Apr.-July	57.8	83
2236	Umatilla R., nr. Gibbon	80.0	Apr.-Sept.	86.8	92
223	Umatilla R., at Pendleton	155.0	Apr.-Sept.	167.4	92
223	Umatilla R., at Pendleton	142.0	Apr.-July	154.5	92
2213	McKay Cr., nr. Pilot Rock	19.0	Apr.-Sept.	27.8	68
2213	McKay Cr., nr. Pilot Rock	18.7	Apr.-July	27.6	68

RESERVOIR STORAGE

Reservoir	Usable Capacity 1000 a.f.	Thousand a.f. in storage about April 1, 1957				
		1957	1956	1955	15-Yr. Avg. 1938-52	1957 as % of 15-Yr. Avg.
McKay	74.0	52.4	57.9	20.2	58.9	89
Cold Springs	50.0	45.2	49.4	49.4	48.2	94
Total (2 Reservoirs)	124.0	97.6	107.3	62.5	107.1	91

SOIL MOISTURE

Soils In:	Fall Status	Current status as of April 1, 1957
Valleys (irrigated)	(Poor	(Good
Mountains	((

Dear Mother
I received your letter of the 10th and was
glad to hear from you. I am well and
hope these few lines will find you the same.
I have not much news to write at present.
The weather here is very pleasant now.

I have been thinking of writing you
for some time but have been so busy
that I could not find time. I hope
to write you more often in the future.
I am sure you will be glad to hear
from me. I love you very much and
hope you will love me the same.

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