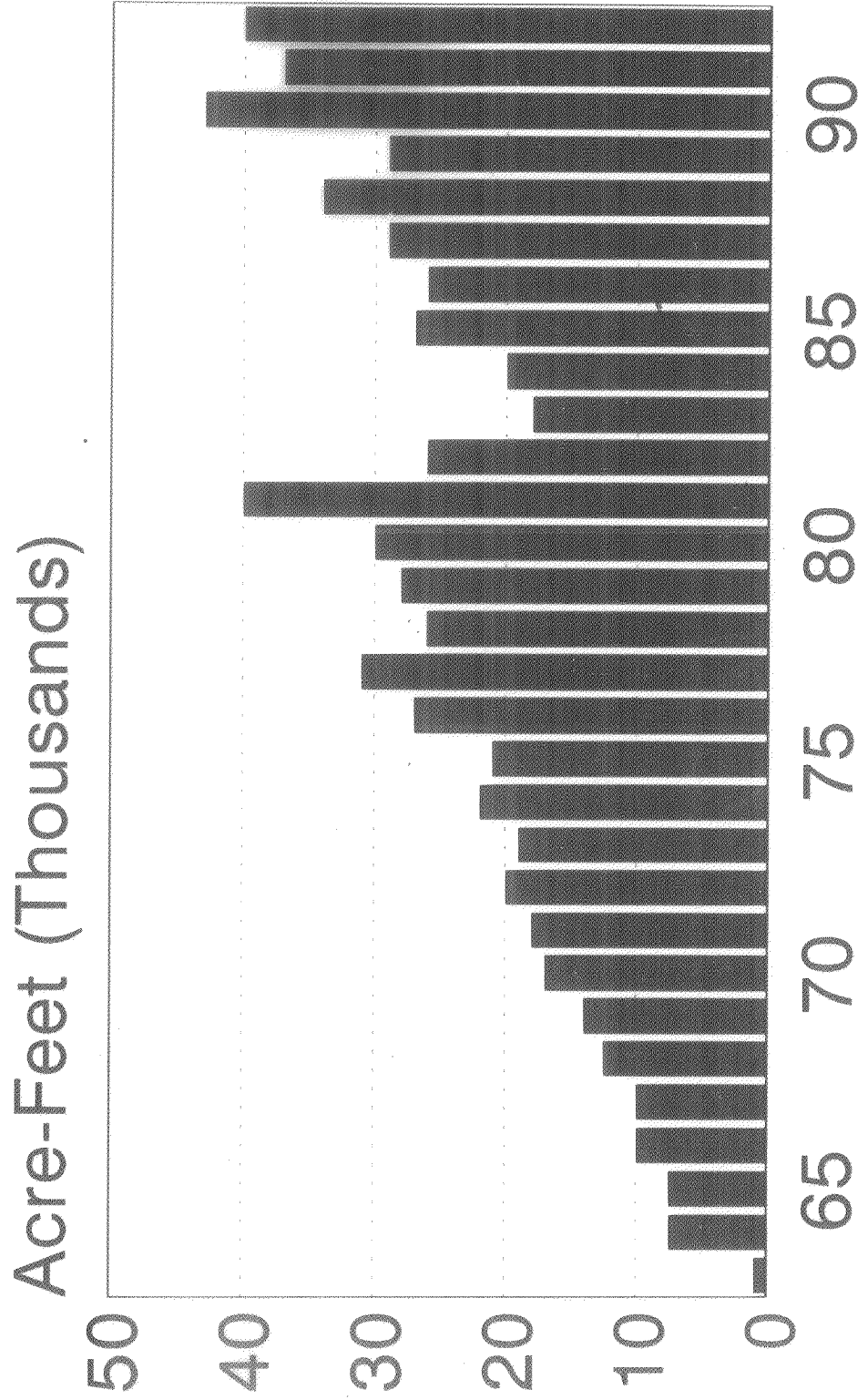
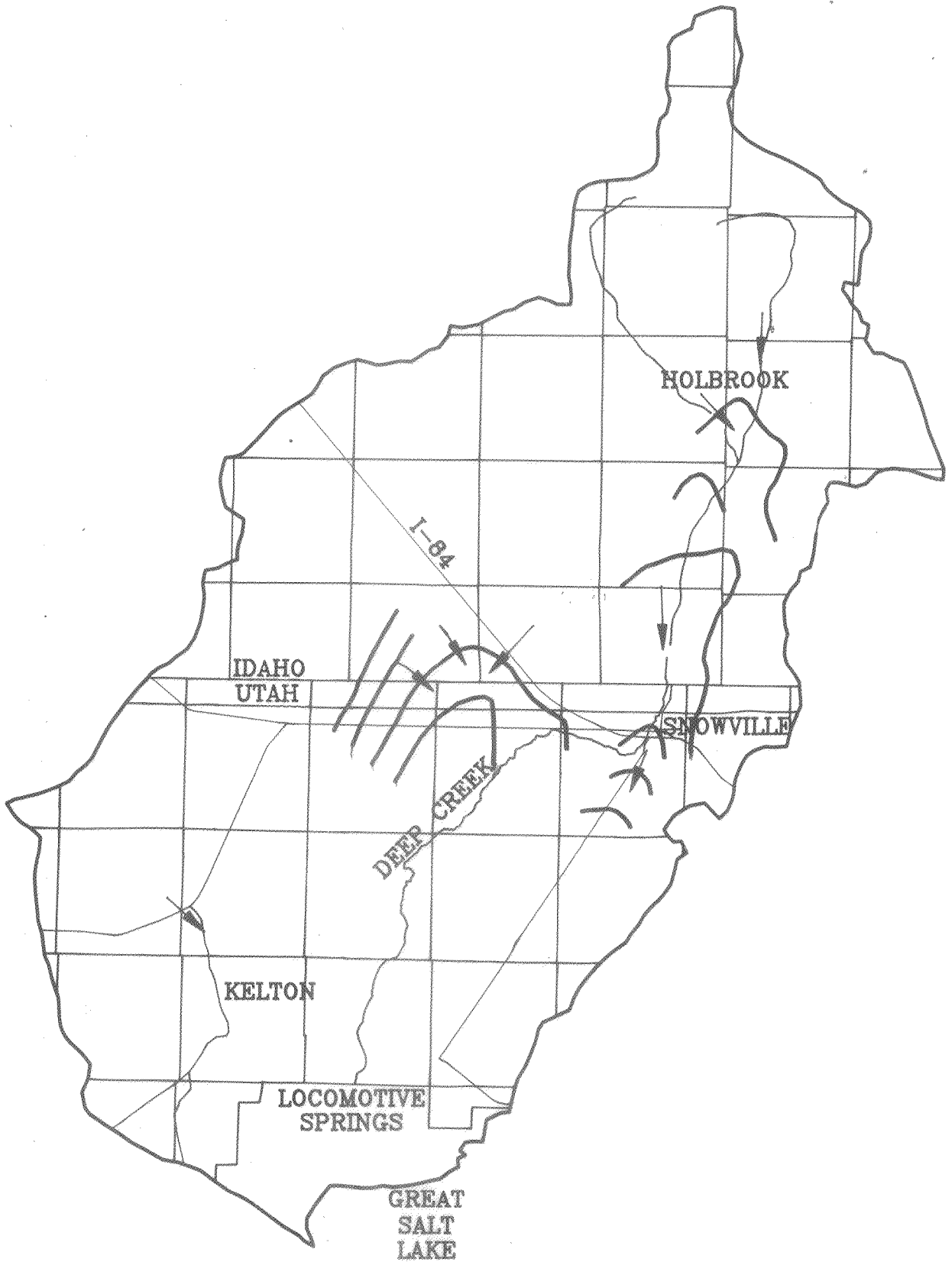
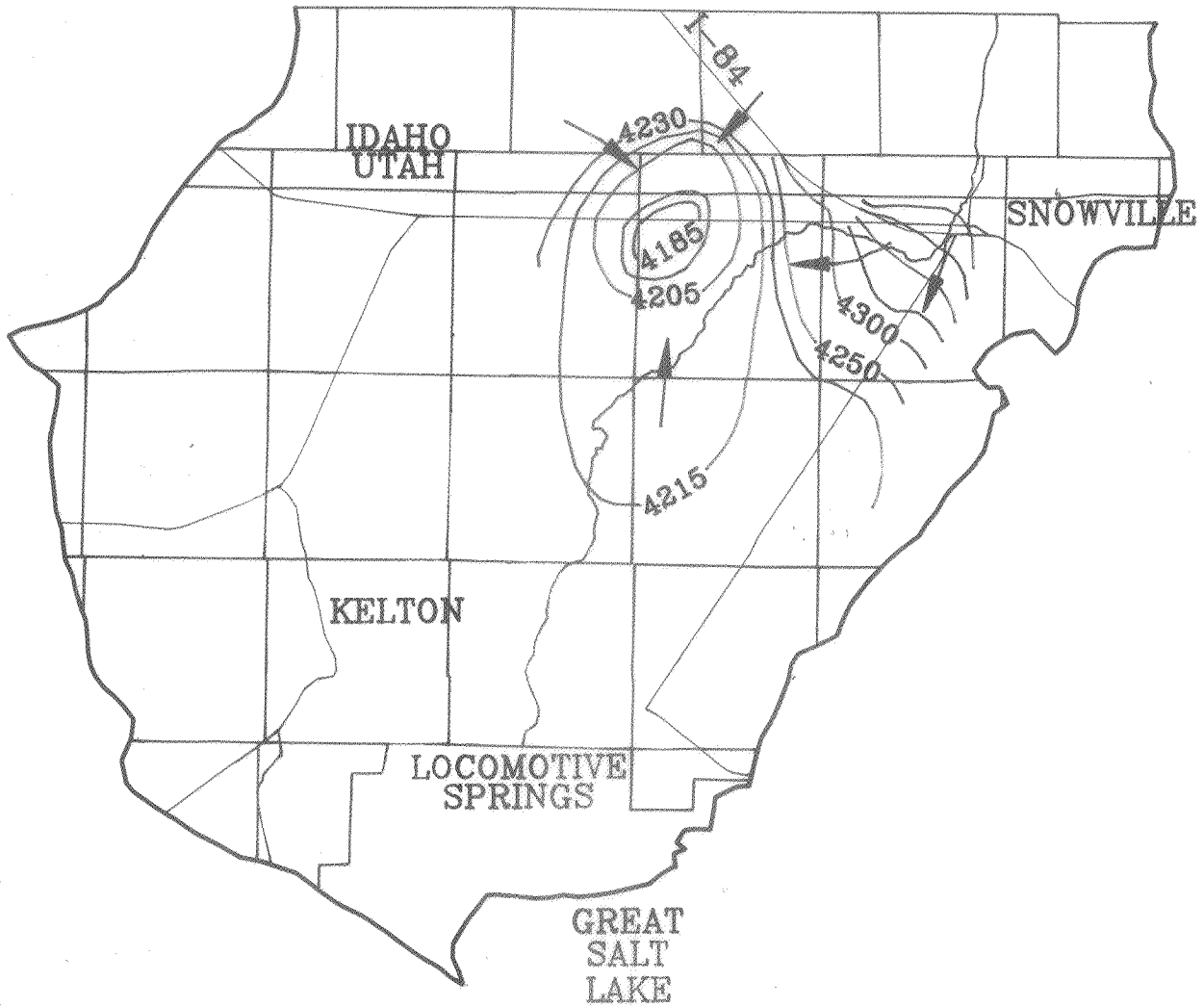


CURLEW VALLEY WELL WITHDRAWALS

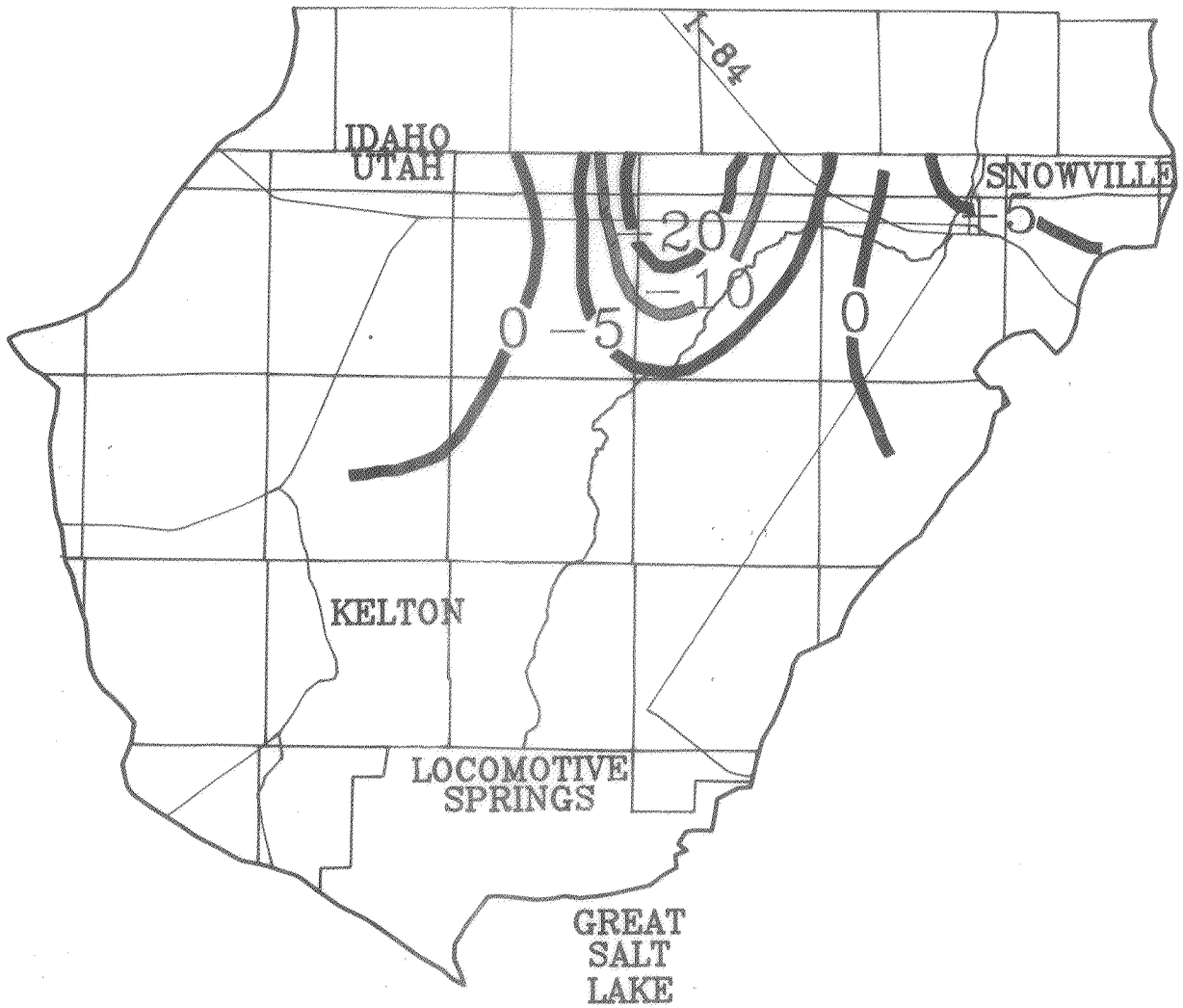




DIRECTION OF GROUND-WATER
FLOW, 1970

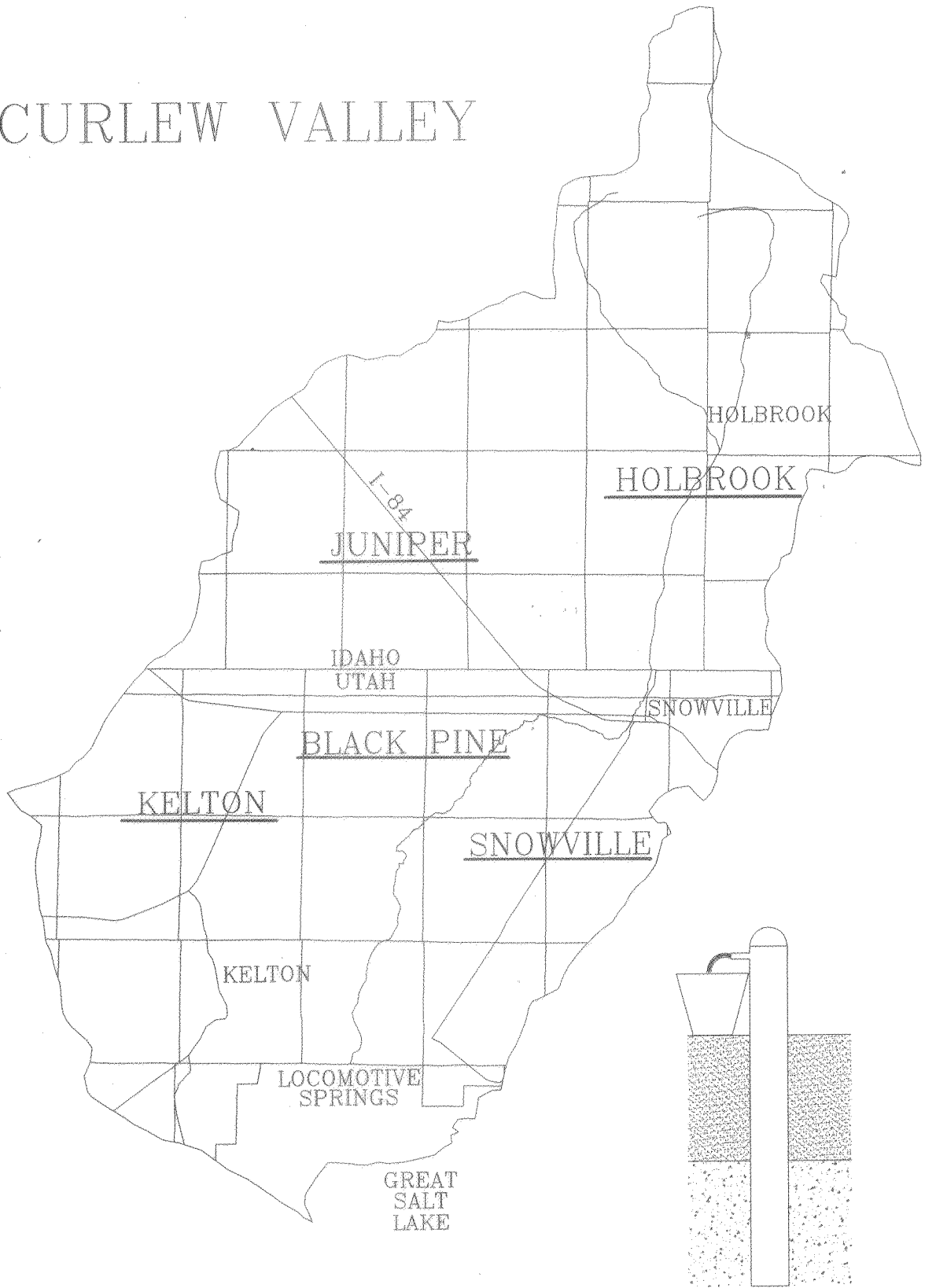


**WATER LEVELS AND DIRECTION OF
GROUND-WATER FLOW SEPTEMBER 1992**



WATER LEVEL CHANGE MAP 1972-93

CURLEW VALLEY



GROUND-WATER RECHARGE

KELTON FLOW SYSTEM

8,000 AF

JUNIPER-BLACK PINE

22,000 AF

HOLBROOK - SNOWVILLE

46,000 AF

IRRIGATION RETURN FLOW

10,000 AF

ACROSS STATELINE & IN UTAH

22,000 AF

GROUND-WATER DISCHARGE

KELTON

WELLS

5,300 AF

ET

included in Juniper-Black Pine

JUNIPER-BLACK PINE

WELLS

12,700 AF

ET

12,000 AF

HOLBROOK-SNOWVILLE

HOLBROOK SPRINGS

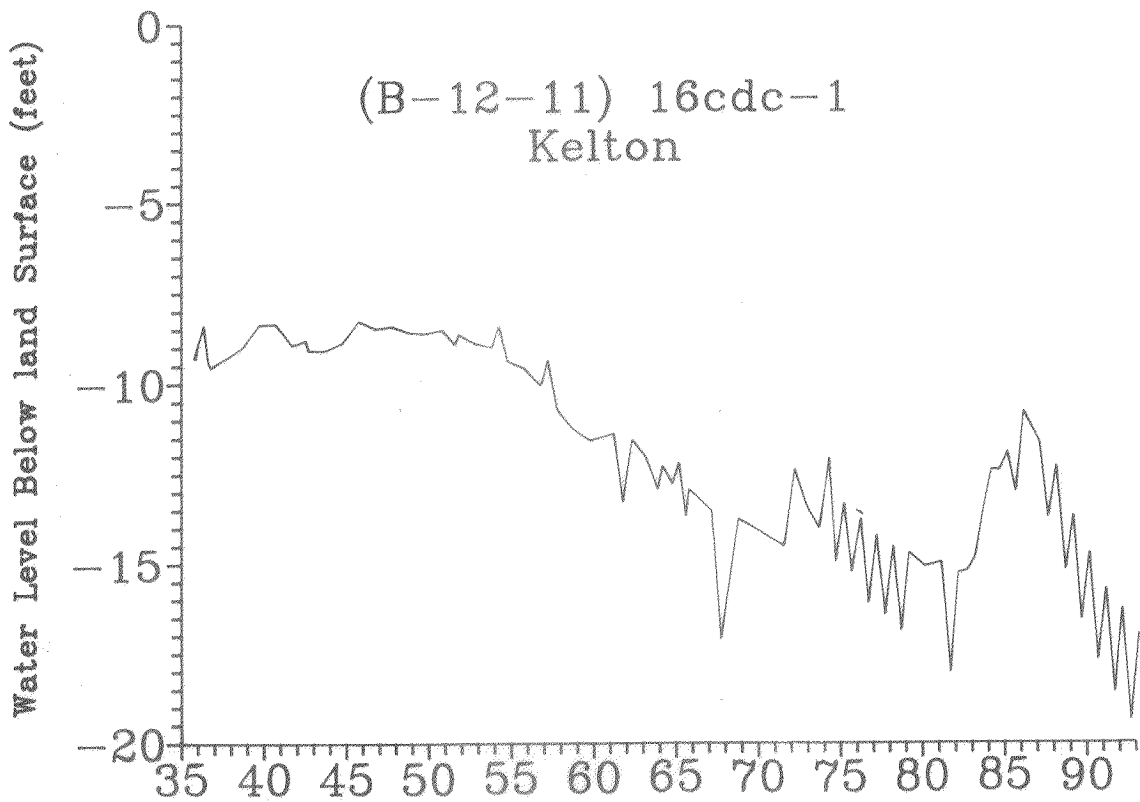
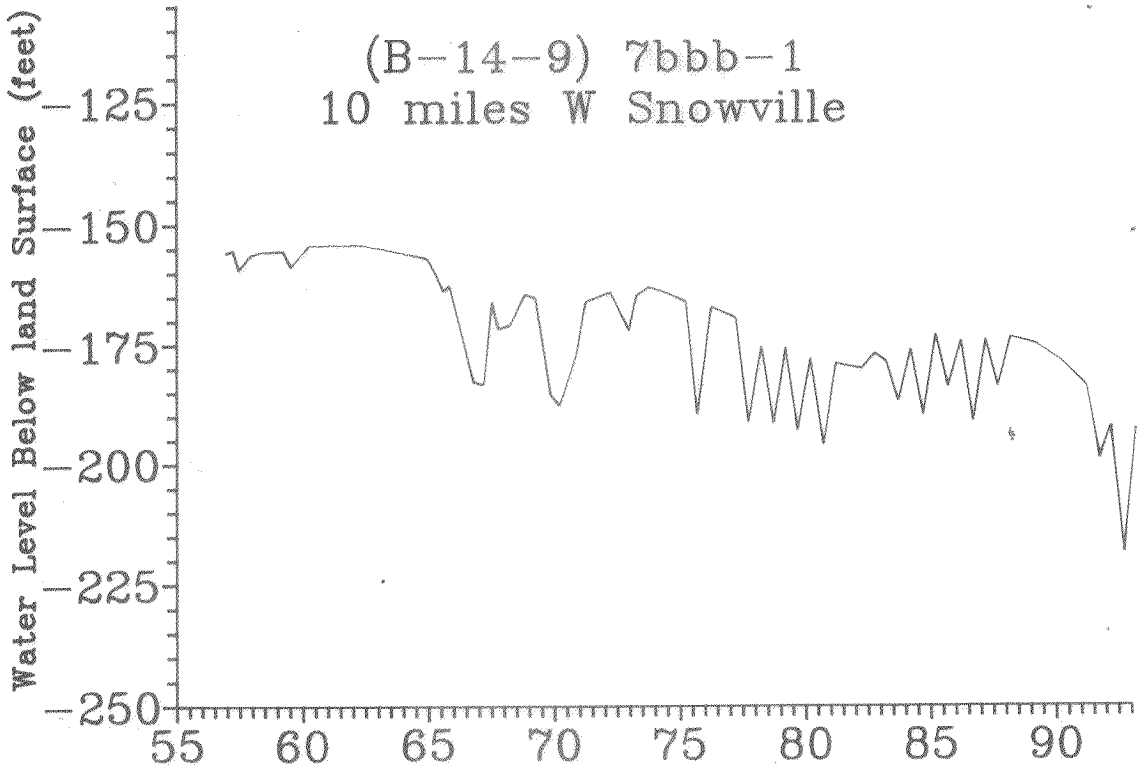
22,000 AF

WELLS

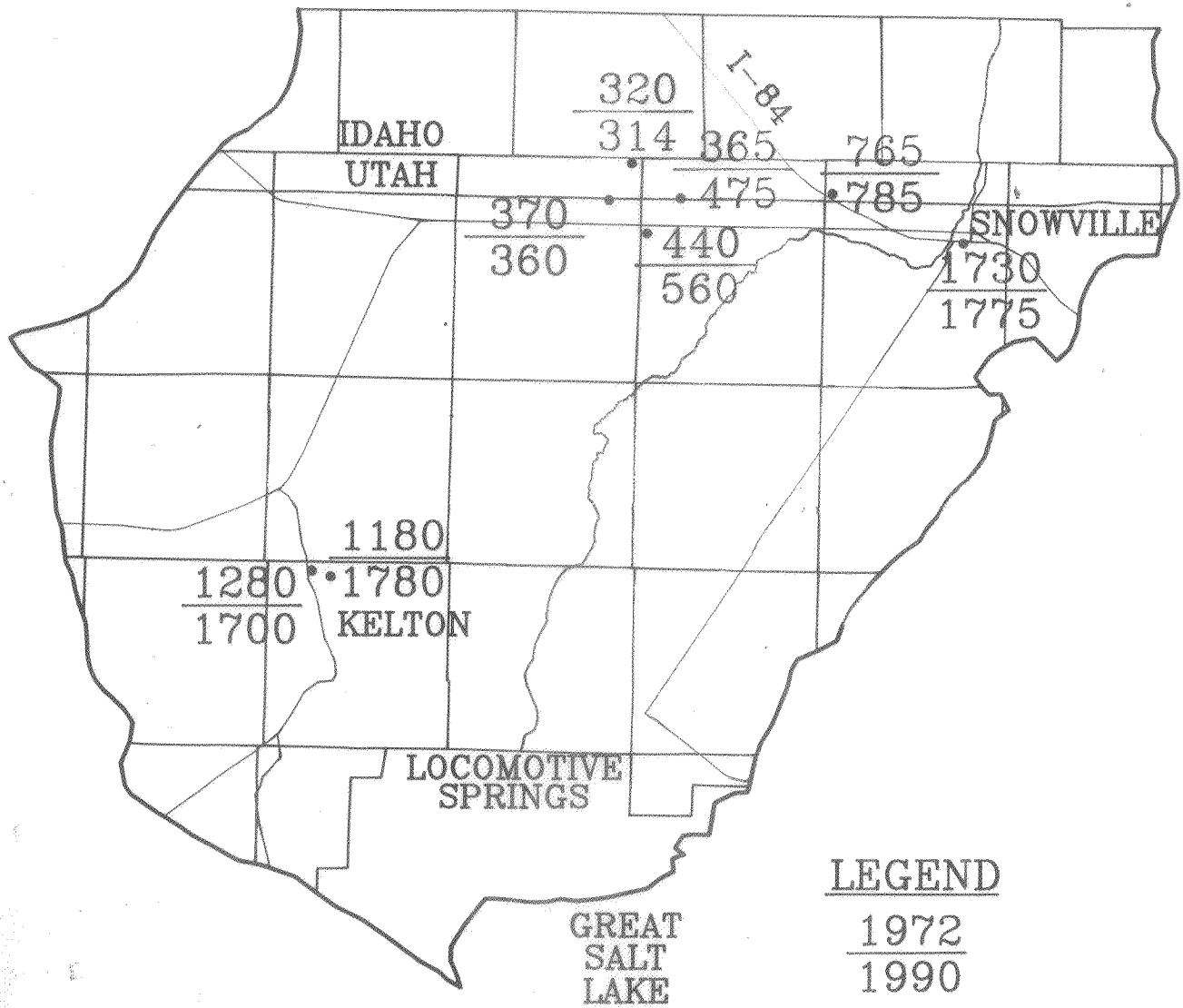
12,000 AF

LOCOMOTIVE SPRINGS

24,000 AF



WELL HYDROGRAPHS



**WATER QUALITY CHANGE IN TDS
FROM ~1970-1990**

CURLEW VALLEY

POTENTIAL
WITHDRAWAL

PERFECTED

38,200

APPROVED

23,200

TOTAL

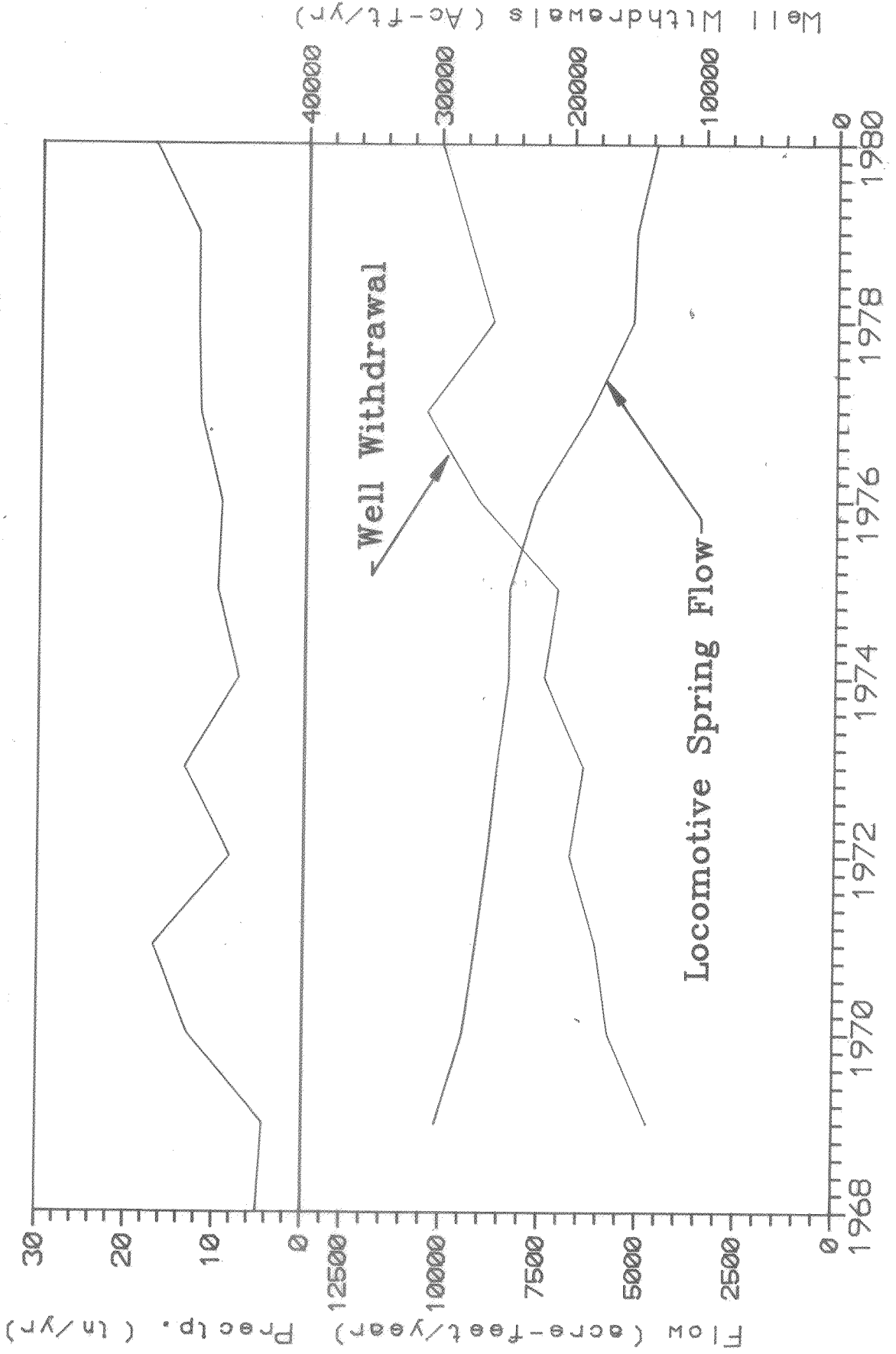
61,400

WATER RIGHTS LOCOMOTIVE SPRINGS

FLOW	PRIORITY	USE/LIMITATION
14.8	1865	1099 Acres
22.9	1914	6855 AF
25.5	1965	3790 Acres



DISCHARGE LOCOMOTIVE SPRINGS VS PRECIPITATION AND WELL WITHDRAWALS



SUMMARY

POTENTIAL WELL

WITHDRAWALS

61,400 AF

GROUND-WATER

RECHARGE

54,000 AF

LOCOMOTIVE SPRINGS

FUTURE WATER

MANAGEMENT

CURLEW VALLEY CURRENT POLICY

- **ALLOW SMALL DOMESTIC/STOCK WELLS**
- **HOLD LARGE FILINGS**
- **CHANGE APPLICATIONS
TRANSFERS WITHIN FLOW SYSTEM**
- **EXTENSION OF TIME**

TYPES OF WATER RIGHTS

I. PERFECTED

- * DECREED
- * UNDERGROUND WATER CLAIM (UGWC)
- * CERTIFICATED
- * WATER USERS CLAIM (WUC)

II. UNPERFECTED

- * APPROVED
- * UNAPPROVED

SUMMARY

GROUND-WATER

RECHARGE (UTAH)

54,000 AF

WELL WITHDRAWALS

(1983-Present)

30,300 AF

WATER LEVEL

DECLINES

WATER QUALITY

ASSUMPTIONS USED TO ESTIMATE WITHDRAWALS

✓ WATER RIGHTS > 0.10 CFS

✓ IRRIGATION - 3.0 AC-FT/AC