

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

HYDROGEOLOGIC CHARACTERISTICS OF THE VALLEY-FILL AQUIFER IN  
THE STERLING REACH OF THE SOUTH PLATTE RIVER VALLEY, COLORADO

By

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OPEN-FILE REPORT

**93-126**

PREPARED IN COOPERATION WITH THE  
COLORADO WATER CONSERVATION BOARD

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1972

## ILLUSTRATIONS

[Plates are in pocket]

	Page
Figure 1. Index map showing location of the Sterling reach of the South Platte River valley, Colorado . . . . .	1
Plate 1. Location of wells in the Sterling reach of the South Platte River valley, Colorado, 1968.	
2. Map showing bedrock configuration beneath the valley-fill aquifer in the Sterling reach of the South Platte River valley, Colorado.	
3. Map showing water-table contours of the valley-fill aquifer in the Sterling reach of the South Platte River valley, Colorado, March 1968.	
4. Map showing saturated thickness of the valley-fill aquifer in the Sterling reach of the South Platte River valley, Colorado, March 1968.	
5. Map showing transmissivity of the valley-fill aquifer in the Sterling reach of the South Platte River valley, Colorado.	
6. Map showing stream-depletion-factor of the valley-fill aquifer in the Sterling reach of the South Platte River valley, Colorado.	

## REFERENCES

References for Plate 6 . . . . .	2
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## REFERENCES

- Jenkins, C. T., 1968a, Techniques for computing rate and volume of stream depletion by wells: *Ground Water*, v. 6, no. 2, p. 37-46.
- \_\_\_\_\_, 1968b, Electric-analog and digital-computer model analysis of stream depletion by wells: *Ground Water*, v. 6, no. 6, p. 27-34.
- \_\_\_\_\_, 1970, Computation of rate and volume of stream depletion by wells: U.S. Geol. Survey Techniques Water-Resources Inv. Manual, Book 4, Chap. D1, 17 p.
- Moulder, E. A., and Jenkins, C. T., 1969, Analog-digital models of stream-aquifer systems: *Ground Water*, v. 7, no. 5, p. 19-24.

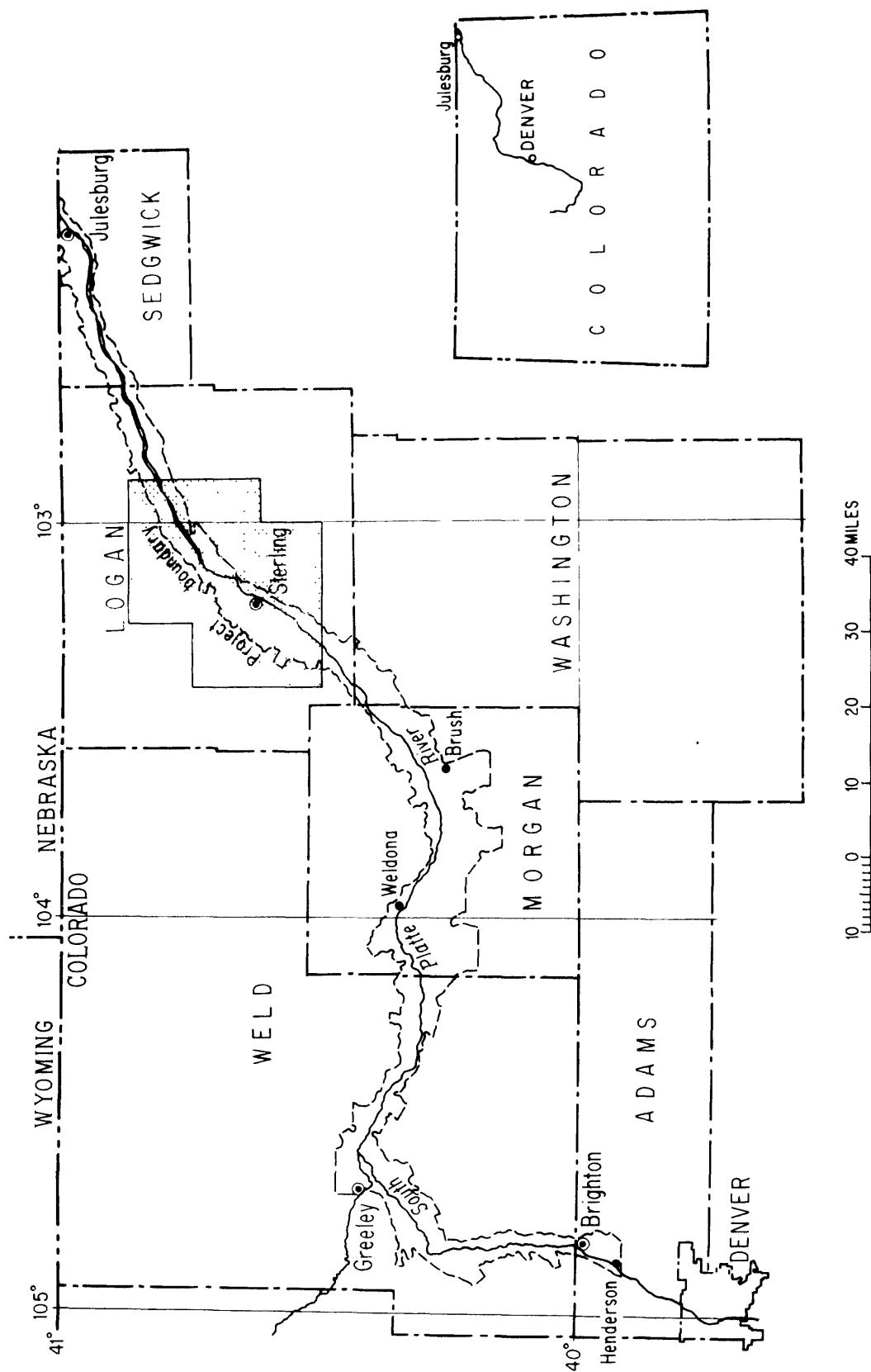


Figure 1.--Index map showing location of the Sterling reach (shaded area) of the South Platte River valley, Colorado.