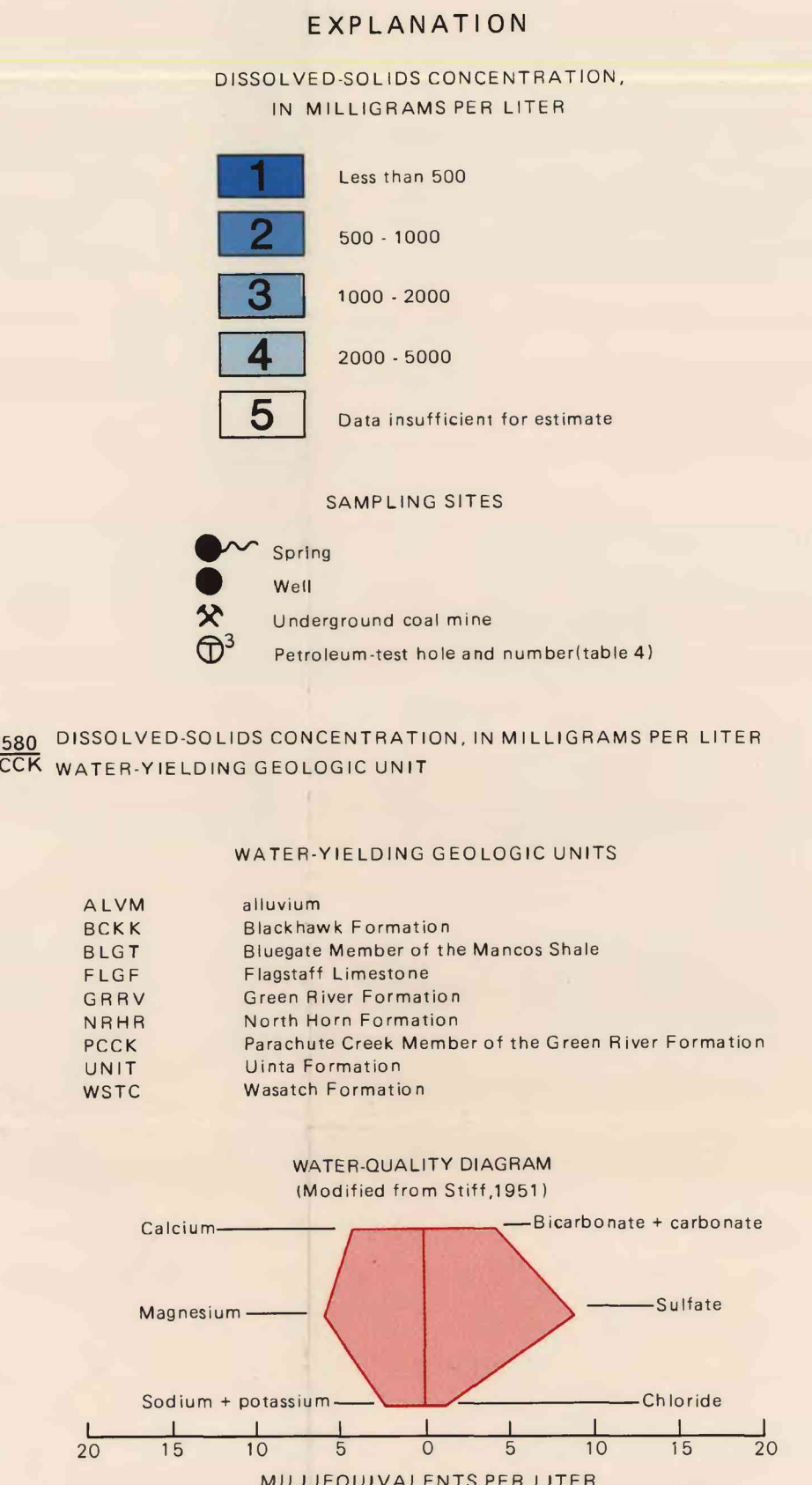


Table 4.—Selected data from petroleum-test holes

Map No.	Geologic unit	Water-yielding unit	Sample interval (feet)	Dissolved solids (milligrams per liter)	Remarks
1	GRNV	4,289	4,321	30,300	---
2	GRNV	4,498	4,518	5,070	---
3	GRNV	3,616	3,646	8,070	---
4	GRNV	1,820	2,820	---	Reported as very salt line
5	GRNV	2,820	4,300	---	Reported as briny
6	GRNV	4,510	4,540	---	Reported as briny
7	WSTC	10,350	10,350	36,000	---
8	PCKK	3,777	3,789	13,500	---
9	PCKK	4,074	4,116	55,500	---
10	PCKK	4,119	4,170	6,620	---
11	PCKK	4,197	4,218	2,820	---
12	WSTC	1,500	2,500	---	Reported as slightly salt line
13	WSTC	2,895	3,004	---	Reported as briny
14	WSTC	3,030	3,080	---	Reported as briny
15	FRNR	748	958	---	Reported as moderately salt line
16	FRNR	1,851	---	---	Reported as slightly salt line
17	WJO	3,095	3,114	3,759	---
18	MSPP	7,435	7,986	35,800	---
19	ROLL	8,525	9,174	67,800	---
20	DSRT	7,990	8,080	84,600	---



DISSOLVED-SOLIDS CONCENTRATION IN SHALLOW GROUND WATER

HYDROLOGIC MAPS OF THE PRICE 30X60-MINUTE QUADRANGLE, UTAH

BY

H.F. McCormack, K.L. Lindskov, and B.J. Stolp

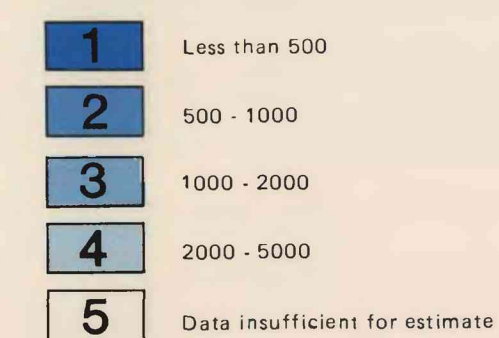
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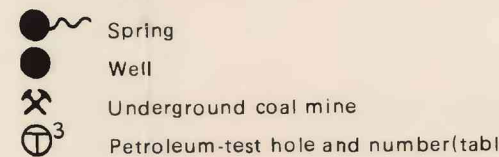
Table 4.--Selected data from petroleum-test holes

water-bearing geologic unit		Geologic unit found at sample depth, 100 feet		Geologic Formations: GRW, Green River; FREN, French Sandstone Member of GRW; MSP, Mesquite Plateau; DSRT, Desert; ROLL, Rolling Hills; WJZO, West Jordan; WSTC, West Canyon; POCK, Pocklington	
Limestones: MSP, Mississippian System; ROLL, Reddell Limestone.					
Dissolved solids: 100,000-3,000 mg per liter. Surface sample was 35,000 mg per liter.					
Remarks: 1. Names of water-bearing geologic units are in log file titles of Unit Division of GRW and WJZO. 2. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 3. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 4. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 5. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 6. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 7. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 8. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 9. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 10. Name of water-bearing geologic unit is in log file titles of Unit Division of GRW and WJZO. 11. 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EXPLANATION

DISSOLVED-SOLIDS CONCENTRATION
IN MILLIGRAMS PER LITER

SAMPLING SITES

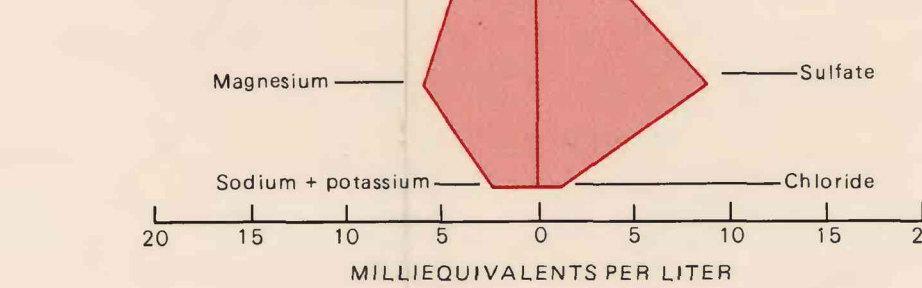


SOLIDS CONCENTRATION, IN MILLIGRAMS PER LITER

PCCK WATER-YIELDING GEOLOGIC UNIT

WATER-YIELDING GEOLOGIC UNITS

ALVM	alluvium
BCKK	Blackhawk Formation
BLGT	Bluegate Member of the Mancos Shale
FLGF	Flagstaff Limestone
GRRV	Green River Formation
NRHR	North Horn Formation
PCKK	Parachute Creek Member of the Green River Formation
UNIT	Unit Formation
WSTC	Wasatch Formation

WATER-QUALITY DIAGRAM
(Modified from Stiff 1952)



AVERAGE ANNUAL SEDIMENT YIELD

Average annual sediment yield in the area ranges from about 0.1 to 3 acre-feet per square mile as shown on the accompanying map (U.S. Department of Agriculture, 1973). Sediment yields were estimated using slope of land surface, vegetation, land use, soils, and precipitation. The sediment-yield map is presented as a general guide, and larger variations of sediment yield than those indicated may occur in each of the delineated areas. The map needs to be used with discretion to determine sediment yield at specific sites, particularly if there are changes in land use.

The smallest sediment yields generally are from high-altitude areas in the Wasatch Plateau, along Reservation and Argyle Ridges, and in the Roan Cliffs. Precipitation at higher altitudes produces a good cover of grass, brush, and conifers—all of which tend to decrease erosion. Lowland areas near Price and Wellington also yield relatively small amounts of sediment because the land surface is nearly level and soils are moderately well to well drained (Svenson and others, 1970, p. 31).

The largest sediment yields generally are from sparsely vegetated lowland areas underlain by easily erodible and poorly drained soils developed on shales. These lowland areas are most susceptible to erosion during intense thunderstorms that are common during summer and fall.

EXPLANATION

AVERAGE ANNUAL SEDIMENT YIELD,
IN ACRE-Feet PER SQUARE MILE

Yield	
A	1.0-3
B	0.5-1
C	0.2-0.5
D	0.1-0.2



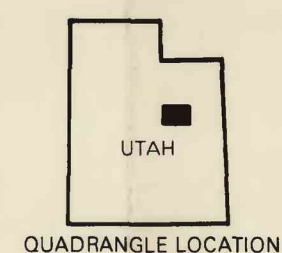
AVERAGE ANNUAL SEDIMENT YIELD

HYDROLOGIC MAPS OF THE PRICE 30X60-MINUTE QUADRANGLE, UTAH

BY

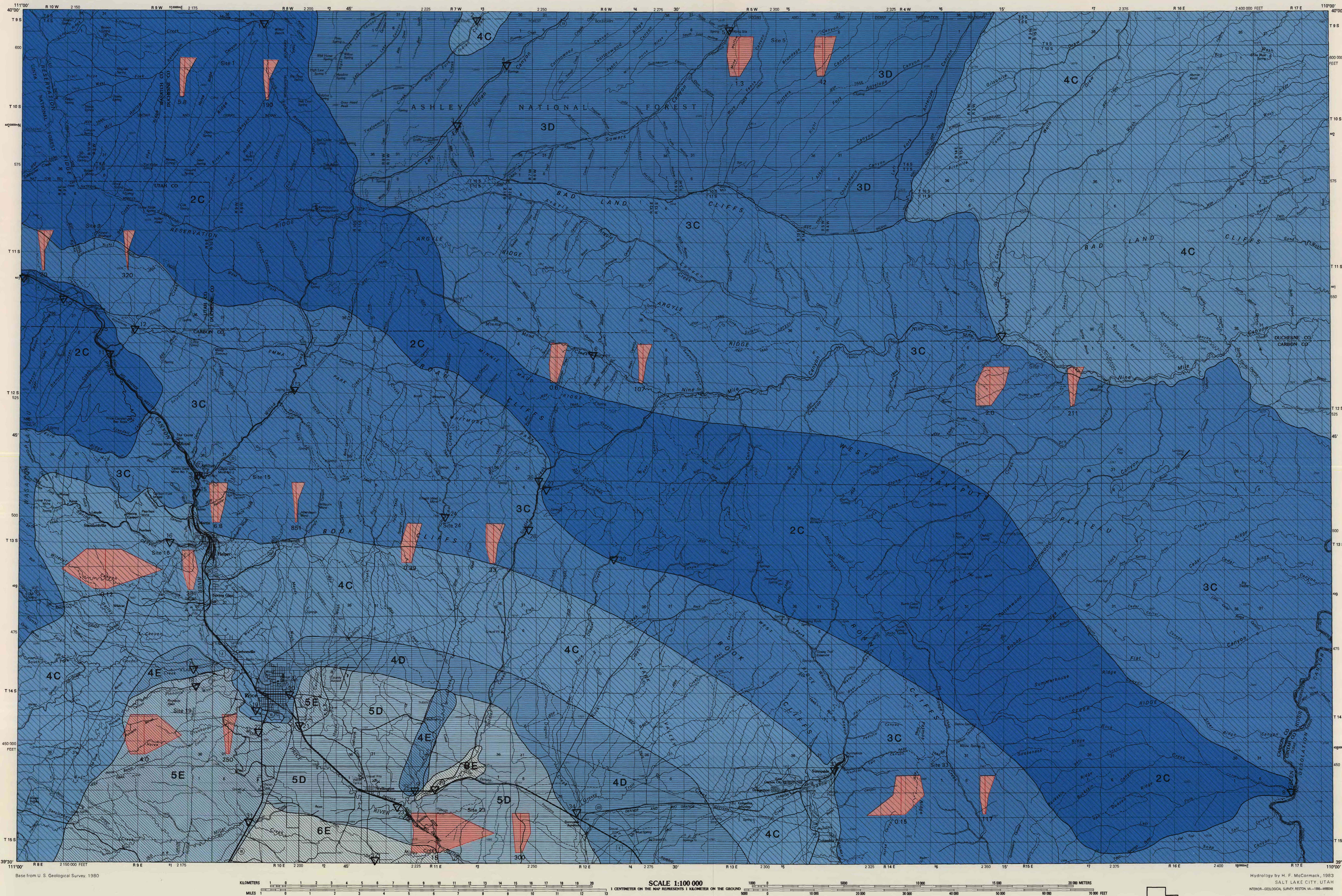
H.F. McCormack, K.L. Lindskov, and B.J. Stolp

1984



QUADRANGLE LOCATION

Sediment yields by U.S. Department of Agriculture, 1973
SALT LAKE CITY, UTAH
INTERIOR-GEOLOGICAL SURVEY RESTON, VA.—1988-88088



DISSOLVED-SOLIDS CONCENTRATION IN STREAMFLOW

HYDROLOGIC MAPS OF THE PRICE 30X60-MINUTE QUADRANGLE, UTAH

BY

H.F. McCormack, K.L. Lindskov, and B.J. Stolp

1984

DISSOLVED SOLIDS IN STREAMFLOW

Dissolved-solids concentrations in streamflow at 34 selected sites are listed in table 2. The data in table 2 are primarily from flood and other (1970, Mundorf (1972, 1977), Price and Miller (1975), and Wassell and others (1979, 1981). Dissolved-solids concentrations ranged from 163 milligrams per liter at Price River near Helper (site 15) to 6,220 milligrams per liter at Miller Creek near Wellington (site 32). Where data were available, ranges of dissolved-solids concentrations on the accompanying map were determined using concentrations from table 2. The largest dissolved-solids concentrations are in streams draining lowland areas underlain by shale, which contains large quantities of soluble minerals. Generally, dissolved-solids concentrations increase in a downstream direction due to return flow of irrigation water and to evaporation.

The smallest dissolved-solids concentrations in the Price River basin are in streams draining high-altitude areas where the rocks consist primarily of sandstone and limestone that contain small quantities of readily soluble minerals. The largest dissolved-solids concentrations are in streams draining lowland areas underlain by shale, which contains large quantities of soluble minerals. Generally, dissolved-solids concentrations increase in a downstream direction due to return flow of irrigation water and to evaporation.

A guide to the use of water for livestock and poultry, based on dissolved-solids concentration, is given in table 3. The table should be used only as a general guide because . . . Animals drink little, if any, highly saline water. If water of low salt content is available to them, unless they have been previously deprived of water, animals can consume moderate amounts of highly saline water for a few days without being harmed. Abrupt changes from water of low salinity to highly saline water cause more problems than a gradual change. Depressed water intake is very likely to be accompanied by depressed feed intake. . . (U.S. Environmental Protection Agency, 1972, p. 309).

The recommended limit of dissolved-solids concentrations for human drinking water is 500 milligrams per liter (U.S. Environmental Protection Agency, 1977). In general, most of the streamflow in the study area is not suitable for drinking water without treatment.

Water-quality diagrams (modified from Stiff, 1951) are presented on the map to show variations in the water types between low and high streamflow. In general, water types and dissolved-solids concentrations at sites 1, 5, 6, and 9, are similar during both high and low streamflow, and water types and dissolved solids at these sites are typical of streams draining high-altitude areas. There are significant changes in water type and dissolved-solids concentrations between low and high streamflow at sites 7, 16, 19, 23, and 33. These significant changes are typical of streams draining low-altitude areas underlain by shale, affected by return flow from irrigation, or receiving mine discharge.

Table 3.—Guide to the use of water for livestock and poultry (Adapted from U.S. Environmental Protection Agency, 1972, p. 309.)

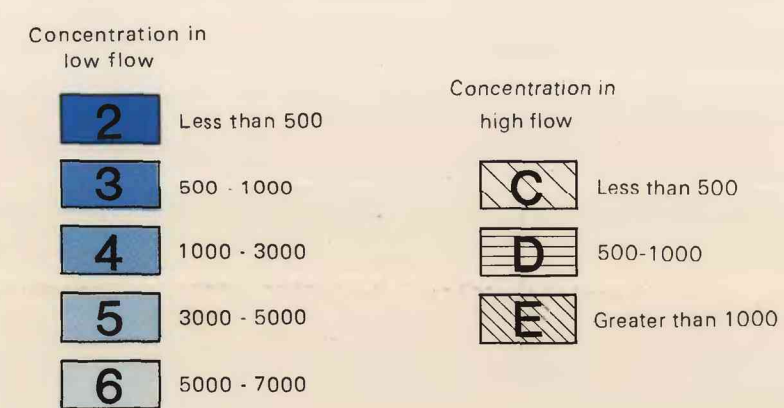
Dissolved-solids concentrations (milligrams per liter)	Recommended uses
Less than 1,000	Relatively low level of salinity. Excellent for all classes of livestock and poultry.
1,000-2,999	Very satisfactory for all classes of livestock. May cause temporary and mild diarrhea in livestock not accustomed to it, or watery droppings in poultry.
3,000-4,999	Satisfactory for livestock, but may cause temporary diarrhea or be refused at first by animals not accustomed to it. Poor water for poultry, often causing water flocks, increased mortality, and decreased growth, especially in turkeys.
5,000-6,999	Can be used with reasonable safety for dairy and beef cattle, sheep, swine, and horses. Avoid use for pregnant or lactating animals. Not acceptable for poultry.

Table 2.—Dissolved-solids concentrations in surface water at selected stream sites

Site no.	Site name	Period of record used (water years)	Number of samples (water years)	Dissolved solids (milligrams per liter)	
				Maximum	Minimum
1	West Fork Avintagui Creek near Fruitland	1973	3	413	316
2	Right Fork Indian Canyon 9 miles above mouth	1974	1	1,160	--
3	Left Fork Indian Canyon above Spring Hollow	1974	1	598	--
4	Left Fork Indian Canyon below Jones Hollow	1974	2	847	819
5	Sowers Creek near Duchesne	1973	5	879	635
6	Winnie Maud Creek near Myton	1958, 1972	3	511	543
7	Nine Mile Creek at Nutter Ranch, near Myton	1958	2	1,000	296
8	Rock Creek at Desolation Canyon	1947	2	440	354
9	Price River below White River, near Cotton	1969-70	7	278	169
10	Beaver Creek near Soldier Summit	1969-70	6	256	177
11	Ford Creek at Highway 6, near Castle Gate	1969-70	3	353	260
12	Horse Creek near Castle Gate	1969-70	2	733	693
13	Willow Creek near Castle Gate	1969-70	3	536	421
14	Willow Creek at Castle Gate	1947, 1951, 1969-70, 1980-81	36	925	274
15	Price River near Helper	1948-1950, 1956, 1958, 1969-70, 1980-81	69	648	163
16	Spring Canyon below Sawbilly Gulch, at Helper	1969-70, 1979-81	40	2,690	481
17	Gordon Creek near Carbonville	1969-70	5	2,240	1,130
18	Pinnacle Wash near Price ²	1969-70	4	4,370	4,030
19	Price River at Price	1969-70	9	1,860	380
20	Meads Wash at Highway 6, at Price	1969-70	4	2,400	609
21	Cardinal Wash at Highway 6, at Price	1969-70	3	3,610	1,020
22	Drunkards Wash at Highway 10 at Price	1969-70	5	3,990	2,760
23	Price River near Wellington	1947, 1949, 1957, 1969-70	21	3,000	601
24	Coal Creek near Helper	1976-81	23	798	469
25	Coal Creek at Highway 6, near Wellington	1969-70	5	2,910	2,260
26	Soldier Creek above Pine Canyon	1976, 1979-80	7	551	270
27	Pine Canyon near Wellington	1976, 1979-80	8	333	238
28	Soldier Creek below nine, near Wellington	1969-70, 1979-82	25	696	277
29	Soldier Creek at Highway 6, near Wellington	1947, 1969-70	8	6,050	1,440
30	Dugout Creek near Sunnyside	1980-81	15	485	348
31	Miller Creek at Highway 10, near Wellington	1969-70	4	4,720	1,970
32	Miller Creek near Wellington	1969-70	5	6,220	2,050
33	Grassy Trail Creek at Sunnyside	1975-82	41	1,810	331
34	Grassy Trail Creek below Dugout and Rock Creeks, near Drigerton	1969-70	5	2,510	872

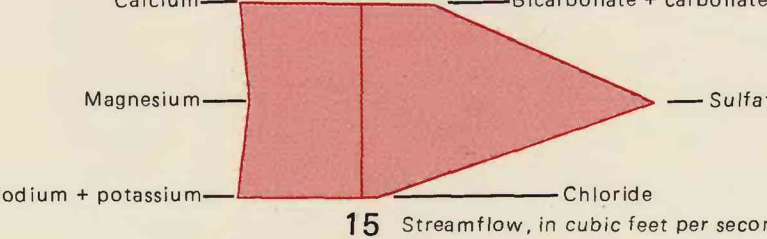
EXPLANATION

RANGE OF DISSOLVED-SOLIDS CONCENTRATION, IN MILLIGRAMS PER LITER



WATER-QUALITY SAMPLING SITE—Number is site number listed in table 2

WATER-QUALITY DIAGRAM (Modified from Stiff, 1951)



Streamflow, in cubic feet per second

¹ Published as Winnie Maud Creek.

² Published as Pinnacle Creek.