

United States Department of the Interior,
Geological Survey

Table 7.--Ranges of concentrations of selected constituents for inflows to and outflows from the Snake Plain aquifer

Dissolved constituents (mg/l)	Diversions from Snake River		Irrigation waste water		Urban runoff		¹ Septic-tank effluent	Pumped ground water		Springs discharging from aquifer	
Discharge, ft ³ /s	-	-	<.01-	11.0	<.01-	.05	<.01	<1	-	10	2.1 -450
Silica, dissolved	-	-	.4 -	35	3.1 -	40	39	30	-	74	33 - 44
Calcium, dissolved	47	- 53	35 -	76	13 -	67	41	2.2	-	80	29 - 69
Magnesium, dissolved	13	- 15	9.2 -	30	1 -	33	23	.0	-	34	15 - 26
Sodium, dissolved	15	- 18	9.1 -	53	8.2 -	110	64	16	-	98	17 - 51
Potassium, dissolved	2.9	- 3.3	2.9 -	15	2.6 -	9.1	13	1.9	-	12	3.4 - 6.9
Bicarbonate	60	- 207	138 -	278	46 -	344	369	108	-	314	159 -325
Carbonate	0	- 12	0 -	26	0		0	0			0
Sulfate, dissolved	33	- 56	7.2 -	110	5.5 -	74	46	17	-	130	26 - 73
Chloride, dissolved	14	- 17	2.0 -	86	2.0 -	250	38	7.0	-	150	10 - 48
Fluoride, dissolved	.4	- .7	.4 -	.9	.1 -	1.0	.9	.3	-	11	.1 - .7
Nitrate plus nitrite, dissolved, as N	.00-	.04	.00-	9.8	.01-	2.5	.01	.03-	6.9		.61- 2.2
Nitrogen, Kjeldahl	.14-	.77	.25-	50	.58-	3.4	19	.00-	.40		.05- .48
Nitrogen, total	.14-	1.0	.25-	50	1.9 -	4.3	19	<1	-	> 6.9	.76- 2.3
Phosphorus, total	.07-	.21	.06-	>4.6	.26-	1.8	4.9	.03-	1.2		.00- .10
Phosphorus, dissolved orthophosphate	.00-	.06	.00-	4.6	.07-	1.6	3.1	.00-	.16		.00- .11
Hardness	170	- 190	130 -	240	37 -	300	200	6	-	340	130 -280
² Specific conductance	395	- 476	126 -	1,430	93 -	924	788	285	-	1,230	319 -723
Carbon, total organic	1.5	- 3.0	0.0 -	11	4.0 -	45	82	1.0			.0 - .5
pH	7.5	- 9.0	7.1 -	8.9	6.8 -	7.8	7.2	7.2	-	9.0	7.3 - 8.3
³ Coliform (immediate)	140	-13,000	30 -	>200,000	600 -	>300,000	20,000,000	⁴ ND	-	3,500	ND -180
³ Fecal coliform	20	- 7,800	4 -	20,000	<50 -	110,000	72,000	ND	-	1	ND - 5
³ Fecal streptococci	-		>160 -	80,000	100 -	74,000	17,000	ND	-	960	ND -340
Sediment	-		<1 -	4,575	2 -	551	26	-			-

¹One sample collected

²µmhos

³Colonies per 100 ml

⁴Not determined