Appendix 12. Table Summarizing Reductions in Sampling Interval

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.

[**Period of record**: is the most recent period after January 1, 1989 where continuous time series data are available. **Longest date gap**: is the greatest time span between consecutive sampling dates. **Number of unique sampling dates**: for example, two or more samples collected on the same day would count as one unique sampling date. **Median sampling interval**: estimated as the median temporal spacing between consecutive and unique sampling dates. **Optimal sampling interval**: is the sampling interval optimized to reduce temporal redundancy while preserving the historical trend. **Sampling reduction**: is the percent change between median and optimized sampling intervals. **Abbreviations**: —, iterative thinning algorithm failed to converge]

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
ANP 6	Chloride	07-02-92 to 10-18-17	1.5	27	0	1.0	1.4	36
	Nitrate	07-02-92 to 10-18-17	1.5	28	0	1.0	1.7	68
	Sodium	07-02-92 to 10-18-17	1.5	27	0	1.0	2.0	100
	Strontium-90	07-02-92 to 10-18-11	1.5	21	0	1.0	2.1	113
	Sulfate	06-15-95 to 10-18-17	1.5	23	0	1.0	2.4	137
	Tritium	07-02-92 to 10-18-17	1.5	27	0	1.0	2.3	130
ANP 9	1,1-Dichloroethylene	04-13-94 to 10-18-11	1.3	25	100	0.5	0.7	28
	1,1,1-Trichloroethane	04-13-94 to 10-18-11	1.3	25	100	0.5	0.6	10
	Carbon tetrachloride	04-13-94 to 10-18-11	1.3	25	100	0.5	1.3	146
	Cesium-137	04-13-94 to 10-18-11	1.3	25	0	0.5	1.3	137
	CFC-12	04-13-94 to 10-18-11	1.3	25	100	0.5	1.1	113
	Chloride	04-13-94 to 10-18-11	1.3	25	0	0.5	1.3	137
	Chloroform	04-13-94 to 10-18-11	1.3	25	96	0.5	0.9	68
	Chromium	04-13-94 to 10-18-11	1.3	25	0	0.5	1.1	113
	Nitrate	04-13-94 to 10-18-11	1.3	26	0	0.5	1.3	146
	Sodium	04-13-94 to 10-18-11	1.3	25	0	0.5	1.2	132
	Strontium-90	04-13-94 to 10-18-11	1.3	25	0	0.5	1.3	137
	Tetrachloroethylene	04-13-94 to 10-18-11	1.3	25	100	0.5	0.7	28
	Toluene	04-13-94 to 10-18-11	1.3	25	96	0.5	0.5	3
	Trichloroethylene	04-13-94 to 10-18-11	1.3	25	100	0.5	0.7	28
	Tritium	04-13-94 to 10-18-11	1.3	25	0	0.5	1.0	82
ARBOR TEST	Chloride	02-15-89 to 04-21-11	2.5	32	0	0.5	1.3	146
	Chromium	02-15-89 to 04-21-11	2.5	30	60	0.5	0.8	52
	Tritium	02-15-89 to 04-21-11	2.5	32	0	0.5	1.2	113
AREA 2	Chloride	07-16-92 to 10-15-18	1.5	26	0	1.0	1.8	79
	Nitrate	09-20-90 to 10-15-18	1.8	27	0	1.0	2.4	132
	Sodium	07-16-92 to 10-15-18	1.5	26	0	1.0	2.5	146
	Strontium-90	09-20-90 to 10-03-11	1.8	21	0	1.0	2.2	113
	Sulfate	07-14-95 to 10-15-18	1.5	23	0	1.0	2.0	100
	Tritium	09-20-90 to 10-15-18	1.8	27	0	1.0	2.5	146
ATOMIC CITY WELL 1	Chloride	04-05-89 to 04-09-18	2.0	42	0	0.5	1.1	113
	Sodium	10-20-89 to 04-09-18	2.0	29	0	1.0	1.9	88
	Tritium	04-05-89 to 04-09-18	2.0	41	0	0.5	1.1	113
BADGING FACILITY	Chloride	04-28-89 to 04-11-18	1.0	35	0	1.0	2.1	113

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
BADGING FACILITY	Nitrate	10-26-89 to 04-11-18	1.0	30	0	1.0	2.1	106
	Sodium	04-28-89 to 04-11-18	1.0	31	0	1.0	2.1	113
	Strontium-90	07-05-94 to 04-11-18	1.0	25	0	1.0	2.4	137
	Sulfate	10-15-90 to 04-11-18	4.7	25	0	1.0	1.9	88
	Tritium	04-28-89 to 04-11-18	1.0	35	0	1.0	2.4	146
CFA 1	Chloride	01-25-89 to 04-11-18	1.0	70	0	0.3	0.6	146
	Nitrate	10-26-89 to 04-11-18	3.0	29	0	1.0	2.3	130
	Sodium	01-25-89 to 04-11-18	1.0	69	0	0.3	0.7	146
	Strontium-90	03-23-89 to 04-11-18	2.0	43	0	0.5	1.2	137
	Sulfate	10-15-90 to 04-11-18	3.8	47	0	0.4	0.9	137
	Tritium	01-25-89 to 04-11-18	1.0	69	0	0.3	0.7	168
CFA 2	Chloride	01-25-89 to 10-10-17	2.0	63	0	0.3	0.6	113
	Nitrate	10-26-89 to 10-10-17	3.0	24	0	1.0	2.1	113
	Sodium	01-25-89 to 10-10-17	2.0	62	0	0.3	0.5	88
	Strontium-90	03-23-89 to 10-10-17	2.0	39	0	0.5	1.3	146
	Sulfate	10-15-90 to 10-10-17	4.3	40	0	0.5	1.2	132
	Tritium	01-25-89 to 10-10-17	2.0	63	0	0.3	0.6	137
CFA LF 2-10	Cesium-137	11-10-94 to 04-23-18	1.1	36	0	0.5	1.1	113
	Chloride	10-20-93 to 04-23-18	1.1	35	0	0.7	1.5	106
	Chromium	11-10-94 to 04-23-18	1.1	33	0	0.9	2.3	146
	Nitrate	10-20-93 to 04-23-18	1.1	36	0	0.5	1.3	146
	Sodium	11-10-94 to 04-23-18	1.1	34	0	0.6	1.3	132
	Strontium-90	10-20-93 to 04-23-18	1.1	35	0	0.9	2.3	146
	Tritium	10-20-93 to 04-23-18	1.1	37	0	0.5	0.7	39
CPP 1	1,1-Dichloroethylene	06-06-91 to 04-19-18	2.9	36	100	0.5	0.7	27
	1,1,1-Trichloroethane	06-06-91 to 04-19-18	2.9	36	97	0.5	0.6	7
	Carbon tetrachloride	06-06-91 to 04-19-18	2.9	36	100	0.5	2.4	357
	Cesium-137	06-06-91 to 04-19-18	2.9	35	0	0.5	1.3	146
	CFC-12	06-06-91 to 04-19-18	2.9	35	97	0.5	2.4	357
	Chloride	04-26-89 to 04-19-18	1.0	53	0	0.5	1.0	113
	Chloroform	06-06-91 to 04-19-18	2.9	36	100	0.5	0.7	34
	Chromium	04-26-89 to 04-19-18	1.5	49	14	0.5	1.2	146
	Fluoride	10-31-90 to 04-19-18	2.9	38	0	0.5	1.0	88
	Nitrate	11-06-89 to 04-19-18	1.0	41	0	0.5	1.0	88
	Plutonium-238	06-06-91 to 04-09-15	2.9	32	0	0.5	1.1	106
	Sodium	04-26-89 to 04-19-18	1.0	53	0	0.5	0.9	88
	Strontium-90	04-26-89 to 04-19-18	2.0	50	0	0.5	1.6	222
	Sulfate	10-31-90 to 04-19-18	2.9	38	0	0.5	1.1	113

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
CPP 1	Tetrachloroethylene	06-06-91 to 04-19-18	2.9	36	100	0.5	0.7	27
	Toluene	06-06-91 to 04-19-18	2.9	36	100	0.5	0.6	3
	Trichloroethylene	06-06-91 to 04-19-18	2.9	36	100	0.5	0.7	34
	Tritium	04-26-89 to 04-19-18	1.0	53	0	0.5	1.3	172
CPP 2	Chloride	01-31-89 to 10-04-18	2.5	48	0	0.5	1.2	146
	Chromium	01-31-89 to 10-04-18	2.5	44	18	0.5	1.2	137
	Nitrate	10-31-90 to 10-04-18	3.0	28	0	1.0	2.1	113
	Sodium	01-31-89 to 10-04-18	2.5	47	0	0.5	1.1	113
	Strontium-90	01-31-89 to 10-04-18	2.5	48	0	0.5	1.2	146
	Tritium	01-31-89 to 10-04-18	2.5	48	0	0.5	1.2	146
CPP 4	Chloride	04-26-89 to 10-18-16	2.3	43	0	0.5	1.1	113
	Chromium	04-26-89 to 10-18-16	2.3	39	15	0.5	1.3	146
	Nitrate	11-06-89 to 10-18-16	2.8	26	0	1.0	1.5	47
	Sodium	04-26-89 to 10-18-16	2.3	41	0	0.5	1.3	146
	Strontium-90	04-26-89 to 10-18-16	1.5	45	2	0.5	1.2	146
	Tritium	04-26-89 to 10-18-16	1.5	45	0	0.5	1.3	166
EBR 1	1,1-Dichloroethylene	06-19-91 to 04-20-11	3.3	18	100	1.0	1.1	8
	1,1,1-Trichloroethane	06-19-91 to 04-20-11	3.3	18	100	1.0	1.1	8
	Carbon tetrachloride	06-19-91 to 04-20-11	3.3	18	100	1.0	1.5	52
	Cesium-137	06-19-91 to 04-20-11	2.8	26	0	0.5	1.1	113
	CFC-12	06-19-91 to 04-20-11	3.3	18	100	1.0	1.5	52
	Chloride	04-28-89 to 04-20-11	1.2	35	0	0.5	1.1	113
	Chloroform	06-19-91 to 04-20-11	3.3	18	94	1.0	1.3	28
	Chromium	06-19-91 to 04-20-11	2.8	26	23	0.5	1.1	106
	Nitrate	10-26-89 to 04-20-11	1.5	30	0	0.5	1.0	88
	Sodium	04-28-89 to 04-20-11	1.5	31	0	0.5	1.2	129
	Tetrachloroethylene	06-19-91 to 04-20-11	3.3	18	100	1.0	1.1	8
	Toluene	06-19-91 to 04-20-11	3.3	18	100	1.0	1.1	8
	Trichloroethylene	06-19-91 to 04-20-11	3.3	18	100	1.0	1.1	8
	Tritium	04-28-89 to 04-20-11	1.2	35	2	0.5	1.1	113
HIGHWAY 3	1,1-Dichloroethylene	10-08-91 to 10-16-18	1.8	28	100	1.0	1.0	1
	1,1,1-Trichloroethane	10-08-91 to 10-16-18	1.8	28	100	1.0	1.0	1
	Carbon tetrachloride	10-08-91 to 10-16-18	1.8	28	100	1.0	2.9	190
	Cesium-137	10-11-94 to 10-19-15	1.5	28	0	0.6	1.3	137
	CFC-12	10-08-91 to 10-16-18	1.8	28	100	1.0	2.9	190
	Chloride	04-05-89 to 10-16-18	1.5	41	0	0.5	1.2	129
	Chloroform	10-08-91 to 10-16-18	1.8	28	92	1.0	1.0	1
	Chromium	10-11-94 to 10-16-18	1.5	31	48	1.0	1.8	80

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
HIGHWAY 3	Nitrate	10-20-89 to 10-16-18	1.5	37	0	1.0	1.8	80
	Sodium	10-20-89 to 10-16-18	1.5	36	0	1.0	2.4	146
	Tetrachloroethylene	10-08-91 to 10-16-18	1.8	28	100	1.0	1.0	1
	Toluene	10-08-91 to 10-16-18	1.8	28	96	1.0	1.4	36
	Trichloroethylene	10-08-91 to 10-16-18	1.8	28	100	1.0	1.0	1
	Tritium	04-05-89 to 10-16-18	1.5	41	0	0.5	1.3	146
MTR TEST	Chloride	03-27-89 to 04-02-18	1.1	45	0	0.5	0.9	68
	Chromium	03-27-89 to 04-02-18	1.1	44	29	0.5	1.1	113
	Nitrate	10-02-89 to 04-02-18	1.1	30	0	1.0	1.8	80
	Sodium	03-27-89 to 04-02-18	1.1	44	0	0.5	1.0	88
	Sulfate	10-26-95 to 04-02-18	1.1	32	0	0.5	0.9	64
	Tritium	03-27-89 to 04-02-18	1.1	45	0	0.5	0.9	68
NO NAME 1	1,1-Dichloroethylene	05-22-91 to 04-11-18	2.9	32	100	1.0	1.0	1
	1,1,1-Trichloroethane	05-22-91 to 04-11-18	2.9	32	100	1.0	1.0	1
	Carbon tetrachloride	05-22-91 to 04-11-18	2.9	32	100	1.0	3.2	236
	Cesium-137	05-22-91 to 04-11-18	2.9	33	0	1.0	2.4	146
	CFC-12	05-22-91 to 04-11-18	2.9	32	100	1.0	3.2	236
	Chloride	05-22-91 to 04-11-18	1.3	34	0	1.0	2.4	146
	Chloroform	05-22-91 to 04-11-18	2.9	32	96	1.0	—	—
	Chromium	05-22-91 to 04-11-18	2.9	32	0	1.0	2.0	106
	Nitrate	05-22-91 to 04-11-18	1.3	35	0	1.0	2.3	137
	Sodium	05-22-91 to 04-11-18	1.3	34	0	1.0	2.0	113
	Strontium-90	05-22-91 to 04-11-18	2.0	34	0	1.0	2.2	132
	Tetrachloroethylene	05-22-91 to 04-11-18	2.9	32	100	1.0	1.0	1
	Toluene	05-22-91 to 04-11-18	2.9	32	100	1.0	1.0	1
	Trichloroethylene	05-22-91 to 04-11-18	2.9	32	100	1.0	1.0	1
	Tritium	05-22-91 to 04-11-18	1.3	35	2	1.0	2.4	146
NPR TEST	1,1-Dichloroethylene	06-20-91 to 10-03-11	3.3	18	100	1.0	1.1	7
	1,1,1-Trichloroethane	06-20-91 to 10-03-11	3.3	18	100	1.0	1.1	8
	Carbon tetrachloride	06-20-91 to 10-03-11	3.3	18	100	1.0	1.9	88
	Cesium-137	06-20-91 to 10-15-15	2.8	30	0	0.9	2.2	137
	CFC-12	06-20-91 to 10-03-11	3.3	18	100	1.0	1.9	88
	Chloride	06-20-91 to 10-11-18	1.3	35	0	1.0	1.7	82
	Chloroform	06-20-91 to 10-03-11	3.3	18	100	1.0	1.1	8
	Chromium	06-20-91 to 10-11-18	2.8	33	21	1.0	1.8	88
	Nitrate	06-20-91 to 10-11-18	1.3	35	5	1.0	2.0	106
	Sodium	06-20-91 to 10-11-18	1.3	35	0	1.0	2.0	113
	Tetrachloroethylene	06-20-91 to 10-03-11	3.3	18	100	1.0	1.0	3

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
NPR TEST	Toluene	06-20-91 to 10-03-11	3.3	18	100	1.0	1.0	3
	Trichloroethylene	06-20-91 to 10-03-11	3.3	18	100	1.0	1.0	1
	Tritium	06-20-91 to 10-11-18	1.3	35	0	1.0	2.3	146
P AND W 2	Cesium-137	05-22-91 to 04-14-15	2.9	31	0	0.5	1.1	113
	Chloride	04-18-89 to 04-02-18	1.5	44	0	0.5	1.3	146
	Chromium	05-22-91 to 04-02-18	2.9	34	47	0.7	1.4	88
	Nitrate	05-22-91 to 04-02-18	2.9	34	0	0.7	1.6	113
	Sodium	05-22-91 to 04-02-18	2.9	34	0	0.7	1.5	103
	Tritium	04-18-89 to 04-02-18	1.5	44	2	0.5	1.3	146
PSTF TEST	1,1-Dichloroethylene	09-27-90 to 10-18-11	3.5	26	100	0.5	0.6	10
	1,1,1-Trichloroethane	09-27-90 to 10-18-11	3.5	26	100	0.5	0.6	10
	Carbon tetrachloride	09-27-90 to 10-18-11	3.5	26	100	0.5	1.3	146
	Cesium-137	09-27-90 to 10-18-11	3.5	25	0	0.5	1.2	137
	CFC-12	09-27-90 to 10-18-11	3.5	26	100	0.5	1.1	113
	Chloride	07-13-89 to 10-18-11	3.0	28	0	0.5	1.2	129
	Chloroform	09-27-90 to 10-18-11	3.5	26	96	0.5	—	—
	Chromium	09-27-90 to 10-18-11	3.5	26	3	0.5	0.8	47
	Nitrate	09-27-90 to 10-18-11	1.8	29	0	0.5	1.3	146
	Sodium	07-06-92 to 10-18-11	1.3	27	0	0.5	1.1	113
	Strontium-90	09-27-90 to 10-18-11	1.8	28	0	0.5	1.2	137
	Tetrachloroethylene	09-27-90 to 10-18-11	3.5	26	100	0.5	0.6	10
	Toluene	09-27-90 to 10-18-11	3.5	26	100	0.5	0.6	10
	Trichloroethylene	09-27-90 to 10-18-11	3.5	26	100	0.5	0.6	10
	Tritium	09-27-90 to 10-18-11	1.8	28	0	0.5	1.2	137
RIFLE RANGE	Cesium-137	04-10-02 to 10-17-18	1.0	18	0	1.0	2.0	103
	Chloride	04-10-02 to 10-17-18	1.0	19	0	1.0	1.3	27
	Chromium	04-10-02 to 10-17-18	1.0	19	0	1.0	2.1	113
	Sodium	04-10-02 to 10-17-18	1.0	18	0	1.0	1.3	33
	Strontium-90	04-10-02 to 10-17-18	1.0	18	0	1.0	2.1	106
	Sulfate	04-10-02 to 10-17-18	1.0	19	0	1.0	2.1	113
	Tritium	04-10-02 to 10-17-18	1.0	19	0	1.0	1.3	27
RWMC M11S	Cesium-137	03-22-00 to 10-22-15	1.2	17	0	1.0	1.9	88
	Chloride	03-22-00 to 10-11-18	1.2	21	0	1.0	1.6	64
	Chromium	03-22-00 to 10-11-18	1.2	21	4	1.0	1.8	80
	Nitrate	03-22-00 to 10-11-18	1.2	21	0	1.0	1.5	52
	Sodium	03-22-00 to 10-11-18	1.2	21	0	1.0	2.1	113
	Tritium	03-22-00 to 10-11-18	1.2	21	0	1.0	2.1	113
RWMC M12S	Cesium-137	03-22-00 to 10-21-15	1.2	17	0	1.0	2.1	113

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
RWMC M12S	Chloride	03-22-00 to 10-11-18	1.2	20	0	1.0	2.1	106
	Chromium	03-22-00 to 10-11-18	1.2	20	0	1.0	1.5	47
	Nitrate	03-22-00 to 10-11-18	1.2	20	0	1.0	2.3	132
	Sodium	03-22-00 to 10-11-18	1.2	20	0	1.0	2.1	106
	Tritium	03-22-00 to 10-11-18	1.2	20	0	1.0	2.3	132
RWMC M13S	Cesium-137	03-22-00 to 10-20-15	1.2	18	0	1.0	1.5	52
	Chloride	03-22-00 to 10-11-18	1.2	21	0	1.0	2.1	113
	Chromium	03-22-00 to 10-11-18	1.2	21	0	1.0	1.8	80
	Nitrate	03-22-00 to 10-11-18	1.2	21	0	1.0	2.1	113
	Sodium	03-22-00 to 10-11-18	1.2	21	0	1.0	1.9	88
	Tritium	03-22-00 to 10-11-18	1.2	21	0	1.0	2.4	146
RWMC M14S	Cesium-137	03-22-00 to 10-20-15	1.3	18	0	1.0	1.5	52
	Chloride	03-22-00 to 10-11-18	1.3	21	0	1.0	2.1	113
	Chromium	03-22-00 to 10-11-18	1.3	21	0	1.0	1.9	88
	Nitrate	03-22-00 to 10-11-18	1.3	21	0	1.0	1.9	88
	Sodium	03-22-00 to 10-11-18	1.3	21	0	1.0	2.1	113
	Tritium	03-22-00 to 10-11-18	1.3	21	0	1.0	1.9	88
RWMC M3S	Chloride	11-12-93 to 10-23-18	1.2	26	0	1.0	1.9	88
	Nitrate	02-26-93 to 10-23-18	1.2	27	0	1.0	2.3	128
	Strontium-90	02-26-93 to 10-23-18	1.2	27	0	1.0	2.3	132
	Tritium	02-26-93 to 10-23-18	1.2	27	0	1.0	1.8	82
RWMC M7S	Chloride	11-09-93 to 10-22-18	1.2	26	0	1.0	1.8	79
	Nitrate	03-04-93 to 10-22-18	1.2	27	0	1.0	2.4	137
	Strontium-90	03-04-93 to 10-22-18	1.2	27	0	1.0	2.8	178
	Tritium	03-04-93 to 10-22-18	1.2	27	0	1.0	2.0	100
RWMC PROD	1,1-Dichloroethylene	01-18-89 to 12-12-18	0.3	349	100	0.1	—	—
	1,1,1-Trichloroethane	01-18-89 to 12-12-18	0.3	349	0	0.1	0.2	166
	Carbon tetrachloride	01-18-89 to 12-12-18	0.3	349	0	0.1	0.2	132
	Cesium-137	01-18-89 to 10-15-18	1.0	47	0	0.5	1.4	168
	CFC-12	01-18-89 to 12-12-18	0.3	349	99	0.1	2.5	3,100
	Chloride	01-18-89 to 10-15-18	1.0	70	0	0.3	0.7	178
	Chloroform	01-18-89 to 12-12-18	0.3	349	3	0.1	0.2	137
	Nitrate	03-23-89 to 10-15-18	1.0	31	0	1.0	2.1	113
	Plutonium-238	01-18-89 to 10-15-18	1.0	47	0	0.5	1.0	100
	Sodium	03-23-89 to 10-15-18	2.0	30	0	1.0	2.1	113
	Strontium-90	01-18-89 to 10-15-18	1.0	70	0	0.3	0.6	146
	Sulfate	03-23-89 to 10-15-18	4.8	26	0	1.0	1.9	88
	Tetrachloroethylene	01-18-89 to 12-12-18	0.3	349	21	0.1	0.2	146

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
RWMC PROD	Toluene	01-18-89 to 12-12-18	0.3	349	99	0.1	0.1	3
	Trichloroethylene	01-18-89 to 12-12-18	0.3	349	0	0.1	0.2	137
	Tritium	01-18-89 to 10-15-18	1.0	71	0	0.3	0.7	190
SITE 14	Cesium-137	06-13-91 to 10-13-15	3.8	28	0	1.0	2.1	113
	Chloride	04-18-89 to 10-10-18	1.3	42	0	0.5	1.3	146
	Chromium	10-11-90 to 10-10-18	1.3	38	26	1.0	2.2	130
	Nitrate	06-13-91 to 10-10-18	2.4	32	0	1.0	2.1	113
	Sodium	10-12-89 to 10-10-18	1.3	37	0	1.0	2.1	113
	Tritium	04-18-89 to 10-10-18	1.3	41	2	0.6	1.4	146
SITE 17	Chloride	06-18-91 to 03-26-18	1.1	29	0	1.0	1.5	52
	Nitrate	06-18-91 to 03-26-18	1.1	29	0	1.0	1.6	64
	Sodium	06-18-91 to 03-26-18	1.1	29	0	1.0	2.1	113
	Strontium-90	06-18-91 to 04-26-11	2.0	20	0	1.0	2.3	132
	Sulfate	06-18-91 to 03-26-18	4.0	24	0	1.0	1.5	52
	Tritium	06-18-91 to 03-26-18	1.1	29	0	1.0	2.1	113
SITE 19	Chloride	04-12-89 to 10-16-18	1.3	36	0	1.0	1.5	52
	Chromium	04-12-89 to 10-16-18	1.3	35	22	1.0	2.0	103
	Sodium	04-12-89 to 10-16-18	1.5	31	0	1.0	2.1	113
	Sulfate	07-16-96 to 10-16-18	1.3	23	0	1.0	2.1	113
	Tritium	04-12-89 to 10-16-18	1.3	36	2	1.0	2.4	146
SITE 4	Chloride	04-18-91 to 04-11-18	2.0	33	0	0.7	1.0	34
	Chromium	04-18-91 to 04-11-18	2.0	32	3	0.9	1.8	113
	Sodium	10-10-91 to 04-11-18	2.0	25	0	1.0	1.7	68
	Sulfate	10-11-95 to 04-11-18	2.0	20	0	1.0	1.4	39
	Tritium	04-18-91 to 04-11-18	2.0	32	0	0.6	1.2	113
SITE 9	Chloride	04-05-89 to 03-27-18	1.1	36	0	1.0	2.1	113
	Nitrate	10-27-89 to 03-27-18	1.1	31	3	1.0	2.0	106
	Sodium	10-27-89 to 03-27-18	1.1	31	0	1.0	2.9	190
	Strontium-90	10-23-90 to 03-27-18	2.8	29	0	1.0	2.0	103
	Sulfate	10-23-90 to 03-27-18	4.0	26	0	1.0	1.1	15
	Tritium	04-05-89 to 03-27-18	1.1	36	2	1.0	2.4	146
SPERT 1	Chloride	04-28-89 to 04-11-18	1.3	35	0	1.0	2.4	146
	Nitrate	10-26-89 to 04-11-18	1.3	30	0	1.0	2.4	137
	Sodium	04-28-89 to 04-11-18	1.3	31	0	1.0	2.1	113
	Tritium	04-28-89 to 04-11-18	1.3	35	0	1.0	2.3	137
TRA 1	Chloride	04-27-89 to 11-06-13	2.2	27	0	1.0	2.3	132
	Chromium	04-27-89 to 11-06-13	2.2	25	36	1.0	1.9	88
	Sodium	04-27-89 to 11-06-13	2.2	23	0	1.0	2.2	113

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
TRA 1	Sulfate	07-18-96 to 11-06-13	2.2	15	0	1.0	1.9	88
	Tritium	04-27-89 to 11-06-13	2.2	27	0	1.0	2.1	113
TRA 3	Chloride	04-27-89 to 10-16-18	2.3	31	0	1.0	2.1	113
	Chromium	04-27-89 to 10-16-18	2.3	29	24	1.0	1.7	68
	Sodium	04-27-89 to 10-16-18	2.7	27	0	1.0	2.0	100
	Sulfate	07-18-96 to 10-16-18	2.0	21	0	1.0	1.9	88
	Tritium	04-27-89 to 10-16-18	2.3	31	0	1.0	2.7	166
TRA 4	Chloride	11-13-89 to 04-04-17	2.0	32	0	1.0	2.0	103
	Chromium	10-11-90 to 04-04-17	2.0	30	26	1.0	1.9	88
	Sodium	11-13-89 to 04-04-17	2.0	28	0	1.0	2.4	137
	Sulfate	07-30-96 to 04-04-17	2.0	21	0	1.0	1.9	88
	Tritium	11-13-89 to 04-04-17	2.0	32	0	1.0	2.4	146
TRA DISP	Cesium-137	02-01-89 to 10-16-18	2.5	45	0	0.5	1.4	178
	Chloride	02-01-89 to 10-16-18	2.5	50	0	0.5	1.4	178
	Chromium	02-01-89 to 10-16-18	2.5	46	6	0.5	1.0	103
	Nitrate	11-13-89 to 10-16-18	4.0	27	0	1.0	2.1	106
	Sodium	04-27-89 to 10-16-18	4.0	28	0	1.0	1.7	68
	Strontium-90	02-01-89 to 10-16-18	2.5	38	0	0.5	1.2	129
	Sulfate	10-11-90 to 10-16-18	4.7	23	0	1.0	2.1	113
	Tritium	02-01-89 to 10-16-18	2.5	50	0	0.5	1.1	128
USGS 1	Cesium-137	05-30-91 to 10-01-15	2.8	29	0	0.7	1.7	130
	Chloride	05-30-91 to 10-18-18	1.3	35	0	0.9	1.9	106
	Chromium	05-30-91 to 10-18-18	2.8	33	42	0.9	1.5	60
	Nitrate	05-30-91 to 10-18-18	1.3	35	0	0.9	2.0	113
	Sodium	05-30-91 to 10-18-18	1.3	35	0	0.9	2.2	137
	Tritium	05-30-91 to 10-18-18	1.3	35	2	0.9	2.2	137
USGS 100	Chloride	04-19-89 to 04-03-18	1.3	47	0	0.5	1.5	190
	Chromium	04-19-89 to 04-03-18	1.3	43	41	0.5	1.1	113
	Sodium	10-13-89 to 04-03-18	1.7	30	0	1.0	2.4	137
	Sulfate	09-28-90 to 04-03-18	4.8	25	0	1.0	1.3	27
	Tritium	04-19-89 to 04-03-18	1.3	47	0	0.5	1.1	113
USGS 101	Cesium-137	05-15-91 to 10-15-15	2.9	29	0	0.9	1.7	82
	Chloride	04-19-89 to 10-18-18	1.5	42	0	0.5	1.1	103
	Chromium	04-19-89 to 10-18-18	1.5	40	65	0.5	1.0	88
	Nitrate	05-15-91 to 10-18-18	2.9	33	0	0.9	2.0	113
	Sodium	10-13-89 to 10-18-18	1.5	37	0	0.9	2.2	137
	Tritium	04-19-89 to 10-18-18	1.5	42	2	0.5	1.5	169
USGS 102	1,1-Dichloroethylene	01-18-96 to 05-08-17	4.9	20	100	1.0	1.1	14

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 102	1,1,1-Trichloroethane	01-18-96 to 05-08-17	4.9	20	100	1.0	1.1	14
	Carbon tetrachloride	01-18-96 to 05-08-17	4.9	20	100	1.0	1.0	1
	Chloride	06-08-90 to 03-27-18	1.1	89	0	0.3	0.6	137
	Nitrate	08-01-90 to 03-27-18	2.0	59	0	0.3	0.7	113
	Sodium	03-10-94 to 03-27-18	1.1	38	0	0.8	1.9	146
	Strontium-90	06-13-95 to 12-04-17	1.1	29	31	1.0	1.8	88
	Sulfate	06-08-90 to 03-27-18	1.1	89	0	0.3	0.6	132
	Tetrachloroethylene	01-18-96 to 05-08-17	4.9	20	100	1.0	1.1	14
	Toluene	01-18-96 to 05-08-17	4.9	20	100	1.0	1.2	16
	Trichloroethylene	01-18-96 to 05-08-17	4.9	20	100	1.0	1.1	14
	Tritium	06-08-90 to 03-27-18	3.8	68	0	0.3	0.7	129
USGS 103	Chloride	04-14-89 to 04-18-05	1.0	51	0	0.3	0.6	113
	Sodium	10-16-89 to 04-18-05	1.0	26	0	0.5	0.9	82
	Tritium	04-14-89 to 04-18-05	1.0	51	0	0.3	0.8	190
USGS 104	Chloride	04-14-89 to 10-16-18	1.1	68	0	0.3	0.6	129
	Nitrate	10-16-89 to 10-16-18	1.1	30	0	1.0	2.4	137
	Sodium	10-16-89 to 10-16-18	1.1	30	0	1.0	2.3	128
	Tritium	04-14-89 to 10-16-18	1.1	68	0	0.3	0.6	113
USGS 105	Chloride	04-21-89 to 10-16-07	1.1	34	0	0.5	1.0	106
	Sodium	10-25-89 to 10-16-07	1.1	27	0	0.6	1.2	113
	Tritium	04-21-89 to 10-16-07	1.1	34	0	0.5	1.2	146
USGS 106	Chloride	04-14-89 to 10-17-18	1.1	50	0	0.5	1.3	146
	Sodium	10-18-89 to 10-17-18	1.1	30	0	1.0	2.4	137
	Tritium	04-14-89 to 10-17-18	1.1	50	0	0.5	1.1	113
USGS 107	1,1-Dichloroethylene	10-05-94 to 03-27-18	1.7	24	100	1.0	—	—
	1,1,1-Trichloroethane	10-05-94 to 03-27-18	1.7	24	100	1.0	—	—
	Carbon tetrachloride	10-05-94 to 03-27-18	1.7	24	95	1.0	4.0	306
	Cesium-137	03-29-94 to 03-27-18	1.2	32	0	0.9	2.3	146
	CFC-12	10-05-94 to 03-27-18	1.7	24	100	1.0	4.1	312
	Chloride	04-11-89 to 03-27-18	1.2	42	0	0.6	1.2	113
	Chloroform	10-05-94 to 03-27-18	1.7	24	100	1.0	—	—
	Chromium	03-29-94 to 03-27-18	1.2	32	25	0.9	2.2	137
	Nitrate	09-29-89 to 03-27-18	1.2	37	0	0.9	2.6	172
	Sodium	10-22-90 to 03-27-18	1.2	36	0	0.9	2.0	113
	Tetrachloroethylene	10-05-94 to 03-27-18	1.7	24	100	1.0	1.5	52
	Toluene	10-05-94 to 03-27-18	1.7	24	100	1.0	—	—
	Trichloroethylene	10-05-94 to 03-27-18	1.7	24	100	1.0	—	—
	Tritium	04-11-89 to 03-27-18	1.2	42	0	0.6	1.5	166

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 108	Cesium-137	09-05-89 to 04-29-08	4.6	24	0	0.5	1.1	113
	Chloride	04-21-89 to 04-29-08	1.0	35	0	0.5	1.2	137
	Chromium	09-05-89 to 04-29-08	4.6	24	12	0.5	1.1	113
	Nitrate	09-05-89 to 04-29-08	4.6	24	0	0.5	1.1	106
	Sodium	09-05-89 to 04-29-08	1.1	28	0	0.5	1.0	88
	Tritium	04-21-89 to 04-29-08	1.0	35	0	0.5	1.1	113
USGS 109	Cesium-137	03-31-94 to 04-14-15	1.0	30	0	0.5	1.0	88
	Chloride	04-21-89 to 04-23-18	1.0	45	0	0.5	1.1	106
	Chromium	03-31-94 to 04-23-18	1.0	33	24	0.8	1.6	113
	Nitrate	03-31-94 to 04-23-18	1.0	33	0	0.8	1.8	137
	Sodium	04-21-89 to 04-23-18	1.0	39	0	1.0	2.5	166
	Tritium	04-21-89 to 04-23-18	1.0	45	0	0.5	1.2	137
USGS 11	Cesium-137	09-13-89 to 04-15-15	1.0	39	0	0.5	1.2	132
	Chloride	05-01-89 to 04-09-18	1.0	48	0	0.5	1.2	132
	Chromium	09-13-89 to 04-09-18	2.6	39	33	0.5	1.0	88
	Nitrate	09-13-89 to 04-09-18	2.6	39	0	0.5	0.7	39
	Sodium	05-01-89 to 04-09-18	2.6	40	0	0.5	1.2	128
	Tritium	05-01-89 to 04-09-18	1.0	50	0	0.5	1.2	130
USGS 110A	Cesium-137	10-25-95 to 10-15-15	1.2	26	0	0.9	1.9	106
	Chloride	10-25-95 to 10-18-18	1.2	29	0	1.0	1.8	82
	Chromium	10-25-95 to 10-18-18	1.2	29	51	1.0	2.1	113
	Nitrate	10-25-95 to 10-18-18	1.2	29	0	1.0	1.8	88
	Sodium	10-25-95 to 10-18-18	1.2	29	0	1.0	2.2	130
	Tritium	10-25-95 to 10-18-18	1.2	29	0	1.0	2.1	113
USGS 111	Chloride	01-05-89 to 04-17-18	1.1	49	0	0.5	1.2	137
	Nitrate	10-04-89 to 04-17-18	1.1	30	0	1.0	1.6	64
	Sodium	04-06-89 to 04-17-18	1.5	30	3	1.0	1.5	52
	Strontium-90	01-05-89 to 04-17-18	1.1	49	0	0.5	1.4	172
	Sulfate	01-15-91 to 04-17-18	4.8	25	0	1.0	1.6	60
	Tritium	01-05-89 to 04-17-18	1.1	49	0	0.5	0.8	64
USGS 112	Chloride	03-30-89 to 10-01-18	1.1	69	0	0.3	0.5	106
	Nitrate	10-17-89 to 10-01-18	1.1	31	0	1.0	1.4	39
	Sodium	10-17-89 to 10-01-18	1.1	31	0	1.0	1.4	39
	Strontium-90	03-30-89 to 10-01-18	1.1	69	0	0.3	0.7	178
	Sulfate	10-23-90 to 10-01-18	4.4	27	0	1.0	1.5	52
	Tritium	03-30-89 to 10-01-18	1.1	69	0	0.3	0.5	106
USGS 113	Cesium-137	04-20-94 to 04-17-18	3.0	22	0	1.0	1.9	88
	Chloride	03-31-89 to 04-17-18	2.6	67	0	0.3	0.5	103

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 113	Nitrate	10-06-89 to 04-17-18	2.6	30	3	1.0	2.0	101
	Sodium	10-03-90 to 04-17-18	2.6	29	0	1.0	1.5	52
	Strontium-90	03-31-89 to 04-17-18	2.6	66	0	0.3	0.6	137
	Sulfate	10-03-90 to 04-17-18	3.3	27	0	1.0	1.4	36
	Tritium	03-31-89 to 04-17-18	2.6	67	0	0.3	0.5	88
USGS 114	Chloride	03-31-89 to 10-01-18	1.1	67	0	0.3	0.5	103
	Nitrate	10-05-89 to 10-01-18	1.1	31	0	1.0	2.0	100
	Sodium	10-05-89 to 10-01-18	1.1	31	0	1.0	2.1	113
	Strontium-90	03-31-89 to 10-01-18	1.1	67	1	0.3	0.6	132
	Sulfate	01-15-91 to 10-01-18	3.3	27	0	1.0	2.1	113
	Tritium	03-31-89 to 10-01-18	1.1	67	0	0.3	0.6	113
USGS 115	Chloride	04-06-89 to 10-01-18	1.1	67	0	0.3	0.4	39
	Nitrate	10-17-89 to 10-01-18	1.1	30	0	1.0	2.1	113
	Sodium	10-17-89 to 10-01-18	1.1	30	0	1.0	1.9	88
	Strontium-90	04-06-89 to 10-01-18	1.1	67	0	0.3	0.7	146
	Sulfate	10-23-90 to 10-01-18	4.8	26	0	1.0	2.1	106
	Tritium	04-06-89 to 10-01-18	1.1	67	0	0.3	0.6	132
USGS 116	Chloride	04-06-89 to 04-17-18	2.1	66	0	0.3	0.7	167
	Nitrate	10-05-89 to 04-17-18	2.1	30	0	1.0	2.1	113
	Sodium	10-05-89 to 04-17-18	2.1	30	0	1.0	2.4	137
	Strontium-90	04-06-89 to 04-17-18	2.1	66	0	0.3	0.7	167
	Sulfate	01-15-91 to 04-17-18	3.3	26	0	1.0	2.5	146
	Tritium	04-06-89 to 04-17-18	2.1	66	0	0.3	0.6	101
USGS 117	1,1-Dichloroethylene	01-12-89 to 10-16-18	1.5	45	100	0.5	0.5	3
	1,1,1-Trichloroethane	01-12-89 to 10-16-18	1.5	45	100	0.5	0.5	3
	Carbon tetrachloride	01-12-89 to 10-16-18	1.5	45	100	0.5	2.4	357
	Cesium-137	01-12-89 to 10-19-15	1.5	42	0	0.5	1.3	146
	CFC-12	01-12-89 to 10-16-18	1.5	45	100	0.5	2.4	357
	Chloride	01-12-89 to 10-16-18	1.5	68	0	0.3	0.7	146
	Chloroform	01-12-89 to 10-16-18	1.5	45	100	0.5	0.5	3
	Nitrate	04-03-89 to 10-16-18	1.5	32	0	1.0	2.3	132
	Plutonium-238	01-12-89 to 10-19-15	1.5	42	0	0.5	1.3	146
	Sodium	04-03-89 to 10-16-18	1.5	32	0	1.0	2.4	146
	Strontium-90	01-12-89 to 10-19-15	1.5	64	0	0.3	0.7	146
	Sulfate	04-03-89 to 10-16-18	4.8	26	0	1.0	1.6	64
	Tetrachloroethylene	01-12-89 to 10-16-18	1.5	45	100	0.5	0.5	3
	Toluene	01-12-89 to 10-16-18	1.5	45	100	0.5	0.5	3
	Trichloroethylene	01-12-89 to 10-16-18	1.5	45	100	0.5	0.5	3

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 117	Tritium	01-12-89 to 10-16-18	1.5	68	1	0.3	0.8	190
USGS 119	1,1-Dichloroethylene	01-12-89 to 04-23-18	1.1	44	100	0.5	—	—
	1,1,1-Trichloroethane	01-12-89 to 04-23-18	1.1	44	100	0.5	—	—
	Carbon tetrachloride	01-12-89 to 04-23-18	1.1	44	84	0.5	1.7	224
	Cesium-137	01-12-89 to 04-14-15	1.1	43	0	0.5	1.1	113
	CFC-12	01-12-89 to 04-23-18	1.1	44	100	0.5	3.0	481
	Chloride	01-12-89 to 04-23-18	1.1	69	0	0.3	0.5	103
	Chloroform	01-12-89 to 04-23-18	1.1	44	100	0.5	—	—
	Nitrate	04-03-89 to 04-23-18	1.1	33	0	1.0	2.4	146
	Plutonium-238	01-12-89 to 04-14-15	1.1	42	0	0.5	1.1	113
	Sodium	04-03-89 to 04-23-18	1.1	33	0	1.0	2.0	106
	Strontium-90	01-12-89 to 04-14-15	1.1	64	0	0.3	0.6	146
	Sulfate	10-25-95 to 04-23-18	1.1	24	0	1.0	1.8	77
	Tetrachloroethylene	01-12-89 to 04-23-18	1.1	44	100	0.5	—	—
	Toluene	01-12-89 to 04-23-18	1.1	44	97	0.5	1.3	146
	Trichloroethylene	01-12-89 to 04-23-18	1.1	44	100	0.5	—	—
	Tritium	01-12-89 to 04-23-18	1.1	68	1	0.3	0.7	172
USGS 12	1,1-Dichloroethylene	06-15-90 to 03-26-18	3.7	44	100	0.5	0.7	24
	1,1,1-Trichloroethane	06-15-90 to 03-26-18	3.7	44	100	0.5	0.7	27
	Carbon tetrachloride	06-15-90 to 03-26-18	3.7	44	100	0.5	0.7	36
	Cesium-137	03-11-94 to 04-15-15	1.3	28	0	0.9	2.2	137
	CFC-12	06-15-90 to 03-26-18	3.7	37	100	0.8	3.0	255
	Chloride	06-15-90 to 03-26-18	1.0	82	0	0.2	0.5	106
	Chloroform	06-15-90 to 03-26-18	3.7	37	100	0.8	0.9	3
	Chromium	03-11-94 to 03-26-18	1.3	39	10	0.5	1.1	106
	Nitrate	08-06-90 to 03-26-18	1.3	54	0	0.4	0.6	68
	Sodium	03-11-94 to 03-26-18	1.3	38	0	0.6	1.1	88
	Sulfate	06-15-90 to 03-26-18	1.0	82	0	0.2	0.5	106
	Tetrachloroethylene	06-15-90 to 03-26-18	3.7	44	100	0.5	0.7	27
	Toluene	06-15-90 to 03-26-18	3.7	44	95	0.5	0.9	62
	Trichloroethylene	06-15-90 to 03-26-18	3.7	44	100	0.5	0.9	60
	Tritium	06-15-90 to 03-26-18	3.7	62	0	0.4	0.8	103
USGS 120	1,1-Dichloroethylene	01-12-89 to 10-09-18	2.5	69	100	0.3	2.1	706
	1,1,1-Trichloroethane	01-12-89 to 10-09-18	2.5	69	52	0.3	0.5	82
	Carbon tetrachloride	01-12-89 to 10-09-18	2.5	69	0	0.3	0.5	82
	Cesium-137	01-12-89 to 10-09-18	2.5	70	0	0.3	0.8	190
	CFC-12	01-12-89 to 10-09-18	2.5	69	98	0.3	2.8	966
	Chloride	01-12-89 to 10-09-18	2.5	70	0	0.3	0.6	113

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 120	Chloroform	01-12-89 to 10-09-18	2.5	69	57	0.3	0.3	7
	Chromium	04-04-89 to 10-09-18	2.5	35	11	1.0	1.9	100
	Nitrate	04-04-89 to 10-09-18	2.5	39	0	0.5	1.0	88
	Plutonium-238	01-12-89 to 10-09-18	2.5	68	0	0.3	0.6	146
	Sodium	04-04-89 to 10-09-18	2.5	39	0	0.5	1.1	100
	Strontium-90	01-12-89 to 10-09-18	2.5	69	0	0.3	0.6	146
	Sulfate	04-04-89 to 10-09-18	4.8	25	0	1.0	1.6	61
	Tetrachloroethylene	01-12-89 to 10-09-18	2.5	69	76	0.3	0.3	0
	Toluene	01-12-89 to 10-09-18	2.5	69	97	0.3	2.1	706
	Trichloroethylene	01-12-89 to 10-09-18	2.5	69	30	0.3	0.4	68
	Tritium	01-12-89 to 10-09-18	2.5	70	0	0.3	0.6	113
USGS 121	Chloride	03-25-91 to 04-04-18	1.5	41	0	0.5	1.1	106
	Nitrate	10-15-91 to 04-04-18	1.5	30	0	1.0	2.0	106
	Sodium	10-15-91 to 04-04-18	1.5	29	0	1.0	2.4	146
	Strontium-90	03-25-91 to 04-04-18	1.5	41	0	0.5	1.1	113
	Sulfate	04-15-92 to 04-04-18	2.0	27	0	1.0	2.3	132
	Tritium	03-25-91 to 04-04-18	1.5	41	0	0.5	1.3	146
USGS 123	Chloride	03-25-91 to 10-02-18	2.0	38	0	0.6	0.8	39
	Nitrate	10-15-91 to 10-02-18	2.0	27	0	1.0	1.0	3
	Sodium	10-15-91 to 10-02-18	2.0	27	0	1.0	1.3	25
	Strontium-90	03-25-91 to 10-02-18	1.5	39	0	0.6	0.9	64
	Sulfate	10-30-95 to 10-02-18	2.0	23	0	1.0	1.5	52
	Tritium	03-25-91 to 10-02-18	1.5	39	0	0.6	0.8	47
USGS 124	Chloride	04-21-94 to 04-09-18	1.0	37	0	0.5	1.4	166
	Nitrate	04-21-94 to 04-09-18	1.0	28	0	1.0	1.7	68
	Sodium	04-21-94 to 04-09-18	1.0	28	0	1.0	2.1	113
	Tritium	04-21-94 to 04-09-18	1.0	37	0	0.5	1.4	172
USGS 125	Cesium-137	04-27-95 to 10-21-15	1.1	29	0	0.9	2.0	130
	Chloride	04-27-95 to 10-09-18	1.1	34	0	0.5	1.2	132
	Chromium	04-27-95 to 10-09-18	1.1	32	28	1.0	2.3	137
	Nitrate	04-27-95 to 10-09-18	1.1	32	0	1.0	2.4	146
	Sodium	04-27-95 to 10-09-18	1.1	32	0	1.0	2.3	137
	Tritium	04-27-95 to 10-09-18	1.1	34	0	0.5	1.1	113
USGS 126B	Chloride	11-08-00 to 10-10-18	1.3	21	0	1.0	2.1	113
	Chromium	11-08-00 to 10-10-18	1.3	21	23	1.0	1.5	52
	Nitrate	11-08-00 to 10-10-18	1.3	20	0	1.0	1.5	52
	Sodium	11-08-00 to 10-10-18	1.3	21	0	1.0	2.1	113
	Tritium	11-08-00 to 10-10-18	1.3	21	4	1.0	2.5	146

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 127	Cesium-137	09-27-00 to 04-03-18	1.1	24	0	1.0	3.1	220
	Chloride	09-27-00 to 04-03-18	1.1	24	0	1.0	2.4	146
	Chromium	09-27-00 to 04-03-18	1.1	24	0	1.0	2.1	113
	Nitrate	09-27-00 to 04-03-18	1.1	24	0	1.0	2.4	146
	Sodium	09-27-00 to 04-03-18	1.1	24	0	1.0	2.4	146
	Strontium-90	09-27-00 to 04-03-18	1.1	23	0	1.0	2.3	137
	Tritium	09-27-00 to 04-03-18	1.1	24	0	1.0	2.4	146
USGS 128	Chloride	10-31-01 to 10-16-18	2.0	17	0	1.0	1.1	8
	Nitrate	10-31-01 to 10-16-18	2.0	17	0	1.0	1.9	88
	Strontium-90	10-31-01 to 10-16-18	2.0	17	0	1.0	1.8	78
	Tritium	10-31-01 to 10-16-18	2.0	17	0	1.0	1.5	47
USGS 14 MV-61	Cesium-137	05-01-89 to 10-21-15	1.1	40	0	0.5	1.1	103
	Chloride	04-01-89 to 10-09-18	1.1	49	0	0.5	1.3	146
	Tritium	05-01-89 to 10-09-18	1.1	51	1	0.5	1.1	113
USGS 15	Chloride	06-06-90 to 10-24-11	1.3	41	0	0.3	0.5	80
	Nitrate	08-06-90 to 10-24-11	1.3	40	0	0.3	0.6	103
	Sodium	03-11-94 to 10-24-11	1.3	19	0	1.0	1.6	64
	Strontium-90	04-12-91 to 10-24-11	4.2	18	0	1.0	2.1	106
	Sulfate	06-06-90 to 10-24-11	1.3	41	0	0.3	0.5	79
	Tritium	06-06-90 to 10-24-11	2.9	26	19	1.0	2.1	113
USGS 17	Cesium-137	03-20-90 to 04-15-15	2.8	31	0	0.8	1.7	106
	Chloride	12-14-89 to 04-09-18	1.3	53	0	0.5	1.2	146
	Chromium	06-06-91 to 04-09-18	2.8	33	51	0.9	1.3	39
	Nitrate	03-20-90 to 04-09-18	1.3	51	0	0.5	1.4	190
	Sodium	06-06-91 to 04-09-18	2.8	33	0	0.9	2.0	113
	Tritium	12-14-89 to 04-09-18	2.8	39	0	0.6	1.5	178
USGS 18	Chloride	07-02-92 to 04-12-18	1.1	27	0	1.0	2.1	113
	Nitrate	10-12-90 to 04-12-18	1.7	28	0	1.0	2.1	106
	Sodium	07-02-92 to 04-12-18	1.1	27	0	1.0	2.1	106
	Strontium-90	10-12-90 to 04-13-11	1.7	21	0	1.0	2.1	113
	Sulfate	07-07-95 to 04-12-18	1.1	24	0	1.0	2.1	106
	Tritium	10-12-90 to 04-12-18	1.7	28	0	1.0	2.1	113
USGS 19	Cesium-137	05-21-91 to 04-14-15	2.9	30	0	0.7	1.6	129
	Chloride	04-03-89 to 04-02-18	1.2	43	0	0.5	1.1	113
	Chromium	05-21-91 to 04-02-18	2.9	33	45	1.0	1.6	68
	Nitrate	05-21-91 to 04-02-18	1.4	35	0	1.0	1.9	100
	Sodium	05-21-91 to 04-02-18	1.4	35	0	1.0	2.0	106
	Tritium	04-03-89 to 04-02-18	1.2	43	2	0.5	1.2	130

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 2	Chloride	05-28-91 to 04-12-18	2.1	27	0	1.0	2.1	113
	Nitrate	05-28-91 to 04-12-18	2.1	27	0	1.0	2.1	113
	Sodium	05-28-91 to 04-12-18	2.1	27	0	1.0	2.3	132
	Strontium-90	05-28-91 to 04-21-11	2.1	20	0	1.0	1.9	88
	Sulfate	05-28-91 to 04-12-18	4.1	24	0	1.0	1.6	64
	Tritium	05-28-91 to 04-12-18	2.1	27	3	1.0	2.3	129
USGS 20	Chloride	04-01-89 to 04-17-18	1.1	46	0	0.5	0.9	80
	Nitrate	10-30-89 to 04-17-18	1.1	32	0	1.0	1.8	82
	Sodium	10-30-89 to 04-17-18	1.1	32	0	1.0	2.1	106
	Strontium-90	04-01-89 to 04-17-18	1.1	46	0	0.5	1.3	146
	Sulfate	10-25-90 to 04-17-18	4.4	26	0	1.0	1.5	47
	Tritium	04-01-89 to 04-17-18	1.1	46	0	0.5	1.2	128
USGS 22	Chloride	04-05-89 to 04-25-11	2.0	27	0	0.9	2.2	132
	Sodium	10-27-89 to 04-25-11	2.0	22	0	1.0	2.3	130
	Tritium	04-05-89 to 04-25-11	2.0	27	0	0.9	2.2	132
USGS 23	Cesium-137	05-21-91 to 10-19-15	2.9	30	0	0.5	1.0	88
	Chloride	05-21-91 to 10-09-18	1.6	35	0	1.0	2.4	146
	Chromium	05-21-91 to 10-09-18	2.9	33	39	1.0	1.8	88
	Nitrate	05-21-91 to 10-09-18	1.6	35	0	1.0	1.8	88
	Sodium	05-21-91 to 10-09-18	1.6	35	0	1.0	2.0	106
	Tritium	05-21-91 to 10-09-18	1.6	35	2	1.0	2.0	113
USGS 26	1,1-Dichloroethylene	05-23-91 to 04-10-18	2.9	33	100	1.0	1.0	3
	1,1,1-Trichloroethane	05-23-91 to 04-10-18	2.9	33	100	1.0	1.0	3
	Carbon tetrachloride	05-23-91 to 04-10-18	2.9	33	100	1.0	4.1	326
	Cesium-137	05-23-91 to 04-10-18	2.9	33	0	1.0	2.3	137
	CFC-12	05-23-91 to 04-10-18	2.9	33	100	1.0	4.1	326
	Chloride	05-23-91 to 04-10-18	1.4	35	0	0.9	2.0	113
	Chloroform	05-23-91 to 04-10-18	2.9	33	100	1.0	1.0	3
	Chromium	05-23-91 to 04-10-18	1.5	34	11	1.0	1.6	62
	Nitrate	05-23-91 to 04-10-18	1.3	35	0	0.9	2.0	113
	Sodium	05-23-91 to 04-10-18	1.4	35	0	0.9	2.0	113
	Strontium-90	05-23-91 to 04-10-18	1.3	35	0	0.9	2.0	113
	Tetrachloroethylene	05-23-91 to 04-10-18	2.9	33	100	1.0	1.0	3
	Toluene	05-23-91 to 04-10-18	2.9	33	96	1.0	1.7	78
	Trichloroethylene	05-23-91 to 04-10-18	2.9	33	100	1.0	1.0	3
	Tritium	05-23-91 to 04-10-18	1.3	35	2	0.9	2.3	146
USGS 27	Cesium-137	05-23-91 to 04-14-15	2.9	30	0	0.8	1.6	113
	Chloride	03-24-89 to 04-02-18	1.2	43	0	0.5	1.3	146

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 27	Chromium	05-23-91 to 04-02-18	2.9	33	21	1.0	1.8	88
	Nitrate	05-23-91 to 04-02-18	1.4	35	0	1.0	2.3	146
	Sodium	05-23-91 to 04-02-18	1.4	35	0	1.0	2.0	113
	Tritium	03-24-89 to 04-02-18	1.2	43	2	0.5	1.1	113
USGS 29	Chloride	06-12-91 to 10-11-18	1.3	29	0	1.0	2.1	113
	Nitrate	06-12-91 to 10-11-18	1.3	29	0	1.0	2.1	113
	Sodium	06-12-91 to 10-11-18	1.3	29	0	1.0	2.5	146
	Strontium-90	06-12-91 to 10-24-11	1.9	20	0	1.0	2.1	106
	Sulfate	06-12-91 to 10-11-18	4.0	25	0	1.0	1.8	80
	Tritium	06-12-91 to 10-11-18	1.3	29	3	1.0	2.3	130
USGS 31	Chloride	06-12-91 to 04-10-18	1.1	29	0	1.0	1.9	88
	Nitrate	06-12-91 to 04-10-18	1.1	29	0	1.0	2.1	113
	Sodium	06-12-91 to 04-10-18	1.1	29	0	1.0	2.1	113
	Strontium-90	06-12-91 to 04-20-11	1.9	20	0	1.0	1.7	68
	Sulfate	06-12-91 to 04-10-18	4.0	25	0	1.0	2.4	137
	Tritium	06-12-91 to 04-10-18	1.1	29	3	1.0	2.3	130
USGS 32	Chloride	06-12-91 to 04-10-18	1.1	29	0	1.0	1.7	68
	Nitrate	06-12-91 to 04-10-18	1.1	29	0	1.0	1.5	52
	Sodium	06-12-91 to 04-10-18	1.1	29	0	1.0	1.7	68
	Strontium-90	06-12-91 to 04-20-11	1.9	21	0	1.0	1.3	25
	Sulfate	06-12-91 to 04-10-18	4.0	25	0	1.0	1.5	48
	Tritium	06-12-91 to 04-10-18	1.1	30	3	1.0	2.5	146
USGS 34	1,1-Dichloroethylene	10-02-90 to 04-16-18	3.6	34	97	1.0	1.0	7
	1,1,1-Trichloroethane	10-02-90 to 04-16-18	3.6	34	35	1.0	1.9	103
	Carbon tetrachloride	10-02-90 to 04-16-18	3.6	34	100	1.0	5.6	481
	Cesium-137	10-02-90 to 04-16-18	3.6	35	0	0.6	1.3	137
	CFC-12	10-02-90 to 04-16-18	3.6	33	78	0.8	0.8	10
	Chloride	03-31-89 to 04-16-18	1.1	43	0	0.5	0.8	52
	Chloroform	10-02-90 to 04-16-18	3.6	34	100	1.0	1.0	3
	Chromium	10-02-90 to 04-16-18	3.6	34	0	1.0	1.6	68
	Fluoride	10-02-90 to 04-16-18	3.6	33	0	1.0	1.8	88
	Nitrate	10-31-89 to 04-16-18	1.1	38	0	1.0	1.5	61
	Plutonium-238	10-02-90 to 04-06-15	3.6	32	0	0.5	1.3	146
	Sodium	10-31-89 to 04-16-18	1.1	38	0	1.0	2.3	137
	Strontium-90	03-31-89 to 04-16-18	1.5	42	0	0.5	1.3	146
	Sulfate	10-02-90 to 04-16-18	3.6	34	0	1.0	1.5	52
	Tetrachloroethylene	10-02-90 to 04-16-18	3.6	34	100	1.0	1.0	7
	Toluene	10-02-90 to 04-16-18	3.6	34	97	1.0	1.0	7

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 34	Trichloroethylene	10-02-90 to 04-16-18	3.6	34	100	1.0	1.0	7
	Tritium	03-31-89 to 04-16-18	1.1	44	0	0.5	1.0	88
USGS 35	Chloride	03-31-89 to 10-03-18	1.1	44	0	0.5	0.9	80
	Nitrate	10-31-89 to 10-03-18	1.1	30	0	1.0	1.5	45
	Sodium	10-31-89 to 10-03-18	1.1	30	0	1.0	1.8	80
	Strontium-90	03-31-89 to 10-03-18	1.1	43	2	0.5	1.2	130
	Sulfate	10-25-90 to 10-03-18	5.0	25	0	1.0	1.3	34
	Tritium	03-31-89 to 10-03-18	1.1	44	0	0.5	0.9	79
USGS 36	Chloride	03-31-89 to 04-16-18	1.1	62	0	0.3	0.6	88
	Nitrate	10-31-89 to 04-16-18	1.1	31	0	1.0	2.4	146
	Sodium	10-31-89 to 04-16-18	1.1	30	0	1.0	1.3	28
	Strontium-90	03-31-89 to 04-16-18	1.1	62	0	0.3	0.7	146
	Sulfate	10-25-90 to 04-16-18	3.5	26	0	1.0	1.5	47
	Tritium	03-31-89 to 04-16-18	1.1	62	0	0.3	0.7	129
USGS 37	Cesium-137	09-29-89 to 10-03-18	2.0	29	0	1.0	1.9	88
	Chloride	03-31-89 to 10-03-18	1.1	48	0	0.5	0.8	64
	Nitrate	09-29-89 to 10-03-18	1.1	30	0	1.0	1.5	52
	Plutonium-238	09-29-89 to 10-03-18	2.0	29	0	1.0	1.9	88
	Sodium	10-17-90 to 10-03-18	1.1	29	0	1.0	1.3	34
	Strontium-90	03-31-89 to 10-03-18	1.1	47	0	0.5	1.2	137
	Sulfate	10-17-90 to 10-03-18	5.0	25	0	1.0	1.5	48
	Tritium	03-31-89 to 10-03-18	1.1	48	0	0.5	0.8	64
USGS 38	1,1-Dichloroethylene	10-05-90 to 04-16-18	3.5	34	94	1.0	1.6	68
	1,1,1-Trichloroethane	10-05-90 to 04-16-18	3.5	34	32	1.0	1.7	82
	Carbon tetrachloride	10-05-90 to 04-16-18	3.5	34	100	1.0	5.6	481
	Cesium-137	10-05-90 to 04-16-18	3.5	35	0	0.5	1.3	132
	CFC-12	10-05-90 to 04-16-18	3.5	33	63	0.8	1.4	88
	Chloride	03-31-89 to 04-16-18	1.1	43	0	0.5	1.1	113
	Chloroform	10-05-90 to 04-16-18	3.5	34	100	1.0	—	—
	Chromium	10-05-90 to 04-16-18	3.5	34	14	1.0	1.6	68
	Fluoride	10-05-90 to 04-16-18	3.5	34	0	1.0	1.6	68
	Nitrate	10-31-89 to 04-16-18	1.1	38	2	1.0	1.6	68
	Plutonium-238	10-05-90 to 04-06-15	3.5	32	0	0.5	1.0	88
	Sodium	10-31-89 to 04-16-18	1.1	38	0	1.0	1.5	60
	Strontium-90	03-31-89 to 04-16-18	1.1	43	0	0.5	1.1	113
	Sulfate	10-05-90 to 04-16-18	3.5	34	0	1.0	1.3	36
	Tetrachloroethylene	10-05-90 to 04-16-18	3.5	34	100	1.0	—	—
	Toluene	10-05-90 to 04-16-18	3.5	34	88	1.0	1.8	88

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 38	Trichloroethylene	10-05-90 to 04-16-18	3.5	34	100	1.0	—	—
	Tritium	03-31-89 to 04-16-18	1.1	44	0	0.5	0.8	48
USGS 39	Chloride	03-31-89 to 10-21-13	2.0	58	0	0.3	0.5	88
	Nitrate	10-31-89 to 10-21-13	2.0	24	0	1.0	1.7	68
	Sodium	10-31-89 to 10-21-13	2.0	24	0	1.0	1.4	39
	Strontium-90	03-31-89 to 10-21-13	2.0	58	0	0.3	0.6	113
	Sulfate	10-25-90 to 10-21-13	5.0	19	0	1.0	1.2	18
	Tritium	03-31-89 to 10-21-13	2.0	58	0	0.3	0.5	82
USGS 4	Cesium-137	06-04-91 to 10-19-11	2.8	26	0	0.5	1.3	146
	Chloride	06-04-91 to 10-19-11	1.3	28	0	0.6	1.2	103
	Chromium	06-04-91 to 10-19-11	2.8	26	7	0.5	1.3	137
	Nitrate	06-04-91 to 10-19-11	1.3	28	0	0.6	1.3	137
	Sodium	06-04-91 to 10-19-11	1.3	28	0	0.6	1.1	88
	Tritium	06-04-91 to 10-19-11	1.3	28	0	0.6	1.3	137
USGS 41	Chloride	04-07-89 to 10-04-18	1.0	44	0	0.5	1.1	106
	Nitrate	11-02-89 to 10-04-18	1.1	30	0	1.0	2.1	106
	Sodium	11-02-89 to 10-04-18	1.1	30	0	1.0	2.4	137
	Strontium-90	04-07-89 to 10-04-18	1.5	43	0	0.5	1.2	130
	Sulfate	10-19-95 to 10-04-18	1.1	24	0	1.0	2.1	113
	Tritium	04-07-89 to 10-04-18	1.0	44	0	0.5	1.0	88
USGS 42	Chloride	04-07-89 to 04-19-18	1.1	44	0	0.5	1.1	113
	Nitrate	11-02-89 to 04-19-18	2.0	29	0	1.0	1.7	68
	Sodium	11-02-89 to 04-19-18	1.1	30	0	1.0	1.5	52
	Strontium-90	04-07-89 to 04-19-18	1.1	44	0	0.5	1.1	113
	Sulfate	10-19-95 to 04-19-18	1.1	24	0	1.0	1.9	88
	Tritium	04-07-89 to 04-19-18	1.1	44	0	0.5	1.0	88
USGS 43	Cesium-137	12-22-89 to 10-02-18	2.0	41	0	0.5	1.3	146
	Chloride	04-20-89 to 10-02-18	2.0	43	0	0.5	1.3	137
	Nitrate	12-22-89 to 10-02-18	2.0	29	0	1.0	2.1	113
	Plutonium-238	12-22-89 to 10-02-18	2.0	28	0	1.0	2.3	128
	Sodium	04-20-89 to 10-02-18	2.0	30	0	1.0	2.1	113
	Strontium-90	04-20-89 to 10-02-18	2.0	43	0	0.5	1.3	146
	Sulfate	11-13-95 to 10-02-18	2.0	23	0	1.0	2.0	100
	Tritium	04-20-89 to 10-02-18	2.0	44	0	0.5	1.4	168
USGS 44	Cesium-137	04-07-89 to 04-18-18	1.1	51	0	0.5	1.4	172
	Chloride	04-07-89 to 04-18-18	1.1	53	0	0.5	1.1	113
	Nitrate	11-02-89 to 04-18-18	1.1	30	0	1.0	1.5	46
	Sodium	11-02-89 to 04-18-18	1.1	30	0	1.0	2.4	137

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 44	Strontium-90	04-07-89 to 04-18-18	1.1	51	0	0.5	1.5	190
	Sulfate	10-26-90 to 04-18-18	5.0	25	0	1.0	1.9	88
	Tritium	04-07-89 to 04-18-18	1.1	52	0	0.5	1.2	146
USGS 45	Chloride	04-07-89 to 10-02-18	2.0	51	0	0.5	1.0	88
	Nitrate	11-02-89 to 10-02-18	1.1	30	0	1.0	2.1	106
	Sodium	11-02-89 to 10-02-18	1.1	30	0	1.0	2.4	146
	Strontium-90	04-07-89 to 10-02-18	1.1	45	0	0.5	1.2	130
	Sulfate	10-26-90 to 10-02-18	5.0	25	0	1.0	2.4	137
	Tritium	04-07-89 to 10-02-18	1.1	45	0	0.5	1.0	88
USGS 46	Cesium-137	04-07-89 to 04-18-18	1.1	43	0	0.5	1.3	146
	Chloride	04-07-89 to 04-18-18	1.1	55	0	0.5	1.3	168
	Nitrate	11-02-89 to 04-18-18	1.9	29	0	1.0	1.7	68
	Sodium	11-02-89 to 04-18-18	1.9	29	0	1.0	2.4	137
	Strontium-90	04-07-89 to 04-18-18	1.1	43	0	0.6	1.3	130
	Sulfate	10-26-90 to 04-18-18	5.0	25	0	1.0	1.7	68
	Tritium	04-07-89 to 04-18-18	1.1	44	0	0.5	1.2	113
USGS 47	Cesium-137	01-31-89 to 10-04-18	2.0	53	0	0.5	1.2	146
	Chloride	01-31-89 to 10-04-18	2.0	53	0	0.5	1.0	106
	Nitrate	10-19-89 to 10-04-18	2.0	29	0	1.0	1.9	88
	Plutonium-238	10-19-89 to 10-04-18	2.0	29	0	1.0	2.3	129
	Sodium	10-19-89 to 10-04-18	2.0	29	0	1.0	1.7	68
	Strontium-90	01-31-89 to 10-04-18	2.0	52	0	0.5	1.2	146
	Sulfate	10-31-90 to 10-04-18	4.7	25	0	1.0	1.9	88
	Tritium	01-31-89 to 10-04-18	2.0	53	0	0.5	1.0	113
USGS 48	Chloride	04-06-89 to 04-19-18	1.6	45	0	0.5	1.3	146
	Nitrate	11-06-89 to 04-19-18	1.6	30	0	1.0	2.1	113
	Sodium	11-06-89 to 04-19-18	1.6	30	0	1.0	2.1	113
	Strontium-90	04-06-89 to 04-19-18	1.6	46	0	0.5	1.3	146
	Sulfate	10-31-90 to 04-19-18	5.0	25	0	1.0	1.8	82
	Tritium	04-06-89 to 04-19-18	1.6	46	0	0.5	1.2	128
USGS 5	1,1-Dichloroethylene	09-26-90 to 04-12-18	4.0	25	100	1.0	—	—
	1,1,1-Trichloroethane	09-26-90 to 04-12-18	4.0	25	100	1.0	1.2	15
	Carbon tetrachloride	09-26-90 to 04-12-18	4.0	25	100	1.0	—	—
	Cesium-137	09-26-90 to 04-12-18	3.5	33	0	0.9	2.0	113
	CFC-12	09-26-90 to 04-12-18	4.0	25	100	1.0	—	—
	Chloride	07-16-92 to 04-12-18	1.3	34	0	0.9	1.9	103
	Chloroform	09-26-90 to 04-12-18	4.0	25	100	1.0	—	—
	Chromium	09-26-90 to 04-12-18	3.5	33	54	0.9	1.8	88

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 5	Nitrate	09-26-90 to 04-12-18	1.8	35	0	0.9	2.0	113
	Sodium	07-16-92 to 04-12-18	1.3	33	0	1.0	1.8	88
	Tetrachloroethylene	09-26-90 to 04-12-18	4.0	25	100	1.0	—	—
	Toluene	09-26-90 to 04-12-18	4.0	25	100	1.0	—	—
	Trichloroethylene	09-26-90 to 04-12-18	4.0	25	100	1.0	—	—
	Tritium	09-26-90 to 04-12-18	1.8	35	0	0.9	2.2	128
USGS 51	Chloride	04-17-89 to 04-18-18	1.1	43	0	0.5	0.5	3
	Nitrate	10-03-89 to 04-18-18	1.1	30	0	1.0	1.7	68
	Sodium	10-10-90 to 04-18-18	1.1	29	0	1.0	1.9	88
	Strontium-90	04-17-89 to 04-18-18	1.1	43	0	0.5	1.3	146
	Sulfate	10-24-95 to 04-18-18	1.1	24	0	1.0	2.1	113
	Tritium	04-17-89 to 04-18-18	1.1	43	0	0.5	1.1	113
USGS 52	Chloride	04-07-89 to 10-03-18	1.1	45	0	0.5	1.0	88
	Nitrate	11-02-89 to 10-03-18	1.1	30	0	1.0	2.1	106
	Sodium	11-02-89 to 10-03-18	1.1	30	0	1.0	2.1	106
	Strontium-90	04-07-89 to 10-03-18	1.1	45	0	0.5	1.4	172
	Sulfate	10-19-95 to 10-03-18	1.1	24	0	1.0	2.1	106
	Tritium	04-07-89 to 10-03-18	1.1	45	0	0.5	0.9	68
USGS 57	Cesium-137	10-14-97 to 10-02-18	2.1	20	0	1.0	2.1	113
	Chloride	01-05-89 to 10-02-18	2.1	66	0	0.3	0.5	68
	Nitrate	12-22-89 to 10-02-18	2.1	29	0	1.0	1.7	68
	Sodium	12-22-89 to 10-02-18	2.1	29	0	1.0	1.0	3
	Strontium-90	01-05-89 to 10-02-18	2.1	65	0	0.3	0.7	178
	Sulfate	10-29-90 to 10-02-18	4.4	25	0	1.0	2.4	137
	Tritium	01-05-89 to 10-02-18	2.1	66	0	0.3	0.5	88
USGS 58	Cesium-137	03-13-90 to 04-02-18	2.0	35	0	1.0	2.4	146
	Chloride	04-13-89 to 04-02-18	1.5	43	0	0.5	1.2	130
	Chromium	04-13-89 to 04-02-18	1.5	42	4	0.5	1.3	137
	Sodium	04-13-89 to 04-02-18	2.0	29	0	1.0	2.3	130
	Strontium-90	04-13-89 to 04-02-18	4.0	33	0	1.0	2.1	113
	Sulfate	10-30-95 to 04-02-18	1.1	24	0	1.0	1.4	39
	Tritium	04-13-89 to 04-02-18	1.5	43	0	0.5	1.0	88
USGS 59	Chloride	04-17-89 to 04-18-18	1.6	43	0	0.5	1.1	106
	Nitrate	10-23-89 to 04-18-18	2.1	29	0	1.0	1.8	77
	Sodium	04-17-89 to 04-18-18	2.1	30	0	1.0	1.0	3
	Strontium-90	04-17-89 to 04-18-18	1.6	43	0	0.5	1.2	132
	Sulfate	10-23-95 to 04-18-18	2.1	23	0	1.0	2.4	137
	Tritium	04-17-89 to 04-18-18	1.6	43	0	0.5	0.9	68

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 6	Chloride	07-07-92 to 10-20-11	1.3	20	0	1.0	1.5	52
	Nitrate	09-26-90 to 10-20-11	1.8	21	0	1.0	1.5	52
	Sodium	07-07-92 to 10-20-11	1.3	20	0	1.0	2.3	132
	Strontium-90	09-26-90 to 10-20-11	1.8	21	0	1.0	1.9	88
	Sulfate	07-17-95 to 10-20-11	1.3	17	0	1.0	1.8	78
	Tritium	09-26-90 to 10-20-11	1.8	21	0	1.0	2.4	137
USGS 65	1,1-Dichloroethylene	05-16-91 to 04-04-18	2.9	36	94	0.5	—	—
	1,1,1-Trichloroethane	05-16-91 to 04-04-18	2.9	36	19	0.5	0.8	52
	Carbon tetrachloride	05-16-91 to 04-04-18	2.9	36	100	0.5	1.9	255
	Cesium-137	02-17-89 to 04-04-18	1.0	65	0	0.3	0.7	146
	CFC-12	05-16-91 to 04-04-18	2.9	36	61	0.5	1.0	82
	Chloride	02-17-89 to 04-04-18	1.0	69	0	0.3	0.7	146
	Chloroform	05-16-91 to 04-04-18	2.9	36	97	0.5	0.5	3
	Chromium	02-17-89 to 04-04-18	1.0	68	0	0.3	0.6	113
	Nitrate	10-17-89 to 04-04-18	1.0	41	0	0.5	1.3	132
	Plutonium-238	05-16-91 to 04-04-18	2.9	36	0	0.5	1.3	146
	Sodium	04-11-89 to 04-04-18	1.0	45	0	0.5	1.1	113
	Strontium-90	02-17-89 to 04-04-18	1.0	69	0	0.3	0.8	190
	Sulfate	10-23-90 to 04-04-18	2.9	39	0	0.5	0.9	68
	Tetrachloroethylene	05-16-91 to 04-04-18	2.9	36	100	0.5	—	—
	Toluene	05-16-91 to 04-04-18	2.9	36	94	0.5	0.5	3
	Trichloroethylene	05-16-91 to 04-04-18	2.9	36	97	0.5	0.6	7
	Tritium	02-17-89 to 04-04-18	1.0	70	0	0.3	0.6	129
USGS 67	Chloride	04-11-89 to 10-01-18	3.0	38	0	0.5	0.9	60
	Nitrate	10-03-89 to 10-01-18	4.0	26	0	1.0	1.5	48
	Sodium	04-11-89 to 10-01-18	4.0	26	0	1.0	1.3	25
	Strontium-90	04-11-89 to 10-01-18	3.0	38	0	0.5	1.0	79
	Sulfate	10-17-95 to 10-01-18	2.5	23	0	1.0	1.5	47
	Tritium	04-11-89 to 10-01-18	3.0	38	0	0.5	0.9	64
USGS 7	1,1-Dichloroethylene	05-20-91 to 04-11-18	2.9	33	100	1.0	1.0	1
	1,1,1-Trichloroethane	05-20-91 to 04-11-18	2.9	33	100	1.0	1.0	3
	Carbon tetrachloride	05-20-91 to 04-11-18	2.9	33	100	1.0	3.2	236
	Cesium-137	05-20-91 to 04-11-18	2.9	32	0	1.0	2.6	169
	CFC-12	05-20-91 to 04-11-18	2.9	33	100	1.0	3.2	236
	Chloride	05-20-91 to 04-11-18	1.2	35	0	1.0	1.6	68
	Chloroform	05-20-91 to 04-11-18	2.9	33	100	1.0	1.0	3
	Chromium	05-20-91 to 04-11-18	2.9	33	6	1.0	2.0	106
	Nitrate	05-20-91 to 04-11-18	1.2	35	0	1.0	2.4	146

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 7	Sodium	05-20-91 to 04-11-18	1.2	35	0	1.0	2.2	132
	Strontium-90	05-20-91 to 04-11-18	1.2	35	0	1.0	2.0	106
	Tetrachloroethylene	05-20-91 to 04-11-18	2.9	33	100	1.0	1.0	3
	Toluene	05-20-91 to 04-11-18	2.9	33	100	1.0	1.0	3
	Trichloroethylene	05-20-91 to 04-11-18	2.9	33	100	1.0	1.0	1
	Tritium	05-20-91 to 04-11-18	1.2	35	2	1.0	1.8	88
USGS 76	Cesium-137	04-07-89 to 04-05-18	1.1	49	0	0.5	1.2	146
	Chloride	04-07-89 to 04-05-18	1.1	50	0	0.5	1.0	101
	Chromium	04-07-89 to 04-05-18	1.1	46	8	0.5	1.2	132
	Nitrate	09-29-89 to 04-05-18	1.1	31	0	1.0	2.1	113
	Sodium	10-17-90 to 04-05-18	1.1	30	0	1.0	2.1	113
	Strontium-90	04-07-89 to 04-05-18	1.1	49	0	0.5	1.2	146
	Sulfate	10-17-90 to 04-05-18	3.3	28	0	1.0	1.9	88
	Tritium	04-07-89 to 04-05-18	1.1	50	0	0.5	0.9	88
USGS 77	1,1-Dichloroethylene	10-25-90 to 10-01-18	4.5	33	48	1.0	1.7	78
	1,1,1-Trichloroethane	10-25-90 to 10-01-18	4.5	33	24	1.0	1.8	88
	Carbon tetrachloride	10-25-90 to 10-01-18	4.5	33	100	1.0	5.6	481
	Cesium-137	10-25-90 to 10-01-18	4.5	32	0	1.0	2.0	106
	CFC-12	10-25-90 to 10-01-18	4.5	32	65	1.0	1.6	68
	Chloride	03-31-89 to 10-01-18	1.1	44	0	0.5	1.0	82
	Chloroform	10-25-90 to 10-01-18	4.5	33	100	1.0	1.1	15
	Chromium	10-25-90 to 10-01-18	4.5	33	6	1.0	1.8	88
	Fluoride	10-25-90 to 10-01-18	4.5	33	0	1.0	2.3	137
	Nitrate	10-30-89 to 10-01-18	1.1	38	0	1.0	2.3	137
	Plutonium-238	10-25-90 to 10-01-18	4.5	33	0	1.0	1.8	88
	Sodium	10-30-89 to 10-01-18	1.1	38	0	1.0	1.6	68
	Strontium-90	03-31-89 to 10-01-18	1.1	43	0	0.5	1.3	137
	Sulfate	10-25-90 to 10-01-18	4.5	33	0	1.0	2.1	113
	Tetrachloroethylene	10-25-90 to 10-01-18	4.5	33	100	1.0	1.1	18
	Toluene	10-25-90 to 10-01-18	4.5	33	100	1.0	1.1	18
	Trichloroethylene	10-25-90 to 10-01-18	4.5	33	96	1.0	1.1	10
	Tritium	03-31-89 to 10-01-18	1.1	44	0	0.5	1.1	101
USGS 79	Chloride	04-01-89 to 04-05-18	1.1	46	0	0.5	1.1	103
	Chromium	04-01-89 to 04-05-18	1.5	44	13	0.5	1.3	146
	Sodium	11-06-89 to 04-05-18	1.1	30	0	1.0	2.4	137
	Sulfate	10-30-95 to 04-05-18	1.1	24	0	1.0	1.4	39
	Tritium	04-01-89 to 04-05-18	1.1	46	0	0.5	1.0	82
USGS 8	Cesium-137	05-01-89 to 04-13-15	1.2	40	0	0.5	1.2	137

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 8	Chloride	05-01-89 to 04-10-18	1.2	43	0	0.5	1.1	113
	Chromium	05-31-91 to 04-10-18	2.9	33	42	1.0	1.3	39
	Nitrate	05-31-91 to 04-10-18	2.9	33	0	1.0	1.8	88
	Sodium	05-31-91 to 04-10-18	2.9	33	0	1.0	2.3	137
	Tritium	05-01-89 to 04-10-18	1.2	43	0	0.5	1.2	137
USGS 82	Chloride	04-14-89 to 04-17-18	1.1	61	0	0.3	0.9	190
	Nitrate	10-04-89 to 04-17-18	1.1	30	0	1.0	1.9	88
	Sodium	04-14-89 to 04-17-18	1.5	30	0	1.0	2.1	113
	Strontium-90	04-14-89 to 04-17-18	1.1	61	0	0.3	0.8	169
	Sulfate	10-17-95 to 04-17-18	1.1	24	0	1.0	2.1	113
	Tritium	04-14-89 to 04-17-18	1.1	61	0	0.3	0.7	146
USGS 83	1,1-Dichloroethylene	10-05-94 to 04-25-11	2.0	16	100	1.0	1.1	3
	1,1,1-Trichloroethane	10-05-94 to 04-25-11	2.0	16	100	1.0	1.1	3
	Carbon tetrachloride	10-05-94 to 04-25-11	2.0	16	100	1.0	2.8	169
	Cesium-137	03-29-94 to 04-25-11	1.2	24	0	0.6	1.3	132
	CFC-12	10-05-94 to 04-25-11	2.0	16	100	1.0	2.2	113
	Chloride	04-13-89 to 04-25-11	1.2	34	0	0.5	1.1	113
	Chloroform	10-05-94 to 04-25-11	2.0	16	100	1.0	1.1	3
	Chromium	03-29-94 to 04-25-11	1.2	24	8	0.6	1.2	113
	Nitrate	10-25-89 to 04-25-11	1.2	28	0	0.9	2.0	113
	Sodium	10-25-89 to 04-25-11	1.2	29	0	0.8	1.4	68
	Tetrachloroethylene	10-05-94 to 04-25-11	2.0	16	100	1.0	1.1	3
	Toluene	10-05-94 to 04-25-11	2.0	16	100	1.0	1.1	3
	Trichloroethylene	10-05-94 to 04-25-11	2.0	16	100	1.0	1.1	3
	Tritium	04-13-89 to 04-25-11	1.2	34	0	0.5	1.4	168
USGS 84	1,1-Dichloroethylene	04-14-94 to 10-18-18	2.5	34	100	0.5	—	—
	1,1,1-Trichloroethane	04-14-94 to 10-18-18	2.5	34	82	0.5	0.6	10
	Carbon tetrachloride	04-14-94 to 10-18-18	2.5	34	100	0.5	1.9	255
	Cesium-137	04-14-94 to 10-21-15	3.5	30	0	0.5	1.4	169
	CFC-12	04-14-94 to 10-18-18	2.5	34	82	0.5	0.5	0
	Chloride	04-01-89 to 10-18-18	2.5	42	0	0.5	0.9	68
	Chloroform	04-14-94 to 10-18-18	2.5	34	100	0.5	—	—
	Chromium	04-01-89 to 10-18-18	2.5	41	4	0.5	1.2	132
	Nitrate	04-14-94 to 10-18-18	2.5	34	0	0.5	1.0	82
	Plutonium-238	04-14-94 to 10-21-15	2.5	31	0	0.5	1.3	146
	Sodium	11-14-89 to 10-18-18	2.5	38	0	0.5	0.9	61
	Strontium-90	04-14-94 to 10-21-15	2.5	29	0	0.5	1.0	88
	Sulfate	10-18-90 to 10-18-18	3.5	34	0	0.5	0.8	48

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 84	Tetrachloroethylene	04-14-94 to 10-18-18	2.5	34	100	0.5	—	—
	Toluene	04-14-94 to 10-18-18	2.5	34	100	0.5	0.6	7
	Trichloroethylene	04-14-94 to 10-18-18	2.5	34	100	0.5	—	—
	Tritium	04-01-89 to 10-18-18	2.5	43	0	0.5	1.1	113
USGS 85	Chloride	04-01-89 to 04-16-18	1.0	45	0	0.5	1.0	82
	Nitrate	10-30-89 to 04-16-18	1.1	32	0	1.0	1.5	48
	Sodium	10-30-89 to 04-16-18	1.1	32	0	1.0	2.1	113
	Strontium-90	04-01-89 to 04-16-18	1.0	45	0	0.5	1.3	146
	Sulfate	10-24-90 to 04-16-18	4.4	26	0	1.0	1.5	48
	Tritium	04-01-89 to 04-16-18	1.0	45	0	0.5	0.8	52
USGS 86	Cesium-137	05-31-91 to 10-13-15	2.9	30	0	1.0	2.3	137
	Chloride	04-21-89 to 06-06-18	1.6	42	0	0.5	1.3	146
	Chromium	05-31-91 to 06-06-18	2.9	32	3	1.0	2.0	106
	Nitrate	05-31-91 to 06-06-18	2.9	32	0	1.0	2.0	106
	Sodium	05-31-91 to 06-06-18	2.9	32	0	1.0	2.3	137
	Tritium	04-21-89 to 06-06-18	1.6	42	0	0.5	1.3	146
USGS 87	1,1-Dichloroethylene	01-04-89 to 04-10-18	1.0	70	100	0.3	2.4	814
	1,1,1-Trichloroethane	01-04-89 to 04-10-18	1.0	70	31	0.3	0.6	137
	Carbon tetrachloride	01-04-89 to 04-10-18	1.0	70	0	0.3	0.4	36
	Cesium-137	01-04-89 to 04-10-18	1.0	71	0	0.3	0.7	178
	CFC-12	01-04-89 to 04-10-18	1.0	70	62	0.3	0.3	8
	Chloride	01-04-89 to 04-10-18	1.0	70	0	0.3	0.3	16
	Chloroform	01-04-89 to 04-10-18	1.0	70	52	0.3	0.3	3
	Chromium	04-13-94 to 04-10-18	1.0	34	0	0.5	1.1	113
	Nitrate	04-05-89 to 04-10-18	1.0	40	0	0.6	1.2	113
	Plutonium-238	01-04-89 to 04-10-18	1.0	70	0	0.3	0.6	137
	Sodium	04-05-89 to 04-10-18	1.0	40	0	0.6	0.8	45
	Strontium-90	01-04-89 to 04-10-18	1.0	70	0	0.3	0.7	172
	Sulfate	04-05-89 to 04-10-18	4.8	27	0	1.0	2.0	100
	Tetrachloroethylene	01-04-89 to 04-10-18	1.0	70	71	0.3	0.3	0
	Toluene	01-04-89 to 04-10-18	1.0	70	95	0.3	2.4	814
	Trichloroethylene	01-04-89 to 04-10-18	1.0	70	0	0.3	0.3	18
	Tritium	01-04-89 to 04-10-18	1.0	71	0	0.3	0.7	178
USGS 88	1,1-Dichloroethylene	01-04-89 to 10-22-18	1.5	70	97	0.3	2.2	712
	1,1,1-Trichloroethane	01-04-89 to 10-22-18	1.5	70	27	0.3	0.7	146
	Carbon tetrachloride	01-04-89 to 10-22-18	1.5	70	0	0.3	0.6	130
	Cesium-137	01-04-89 to 10-22-18	1.5	70	0	0.3	0.7	146
	CFC-12	01-04-89 to 10-22-18	1.5	70	92	0.3	2.5	814

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 88	Chloride	01-04-89 to 10-22-18	1.5	69	0	0.3	0.6	113
	Chloroform	01-04-89 to 10-22-18	1.5	70	0	0.3	0.7	146
	Nitrate	04-04-89 to 10-22-18	2.0	31	0	1.0	2.1	113
	Plutonium-238	01-04-89 to 10-22-18	1.5	69	0	0.3	0.7	169
	Sodium	04-04-89 to 10-22-18	2.0	31	0	1.0	1.9	88
	Strontium-90	01-04-89 to 10-22-18	1.5	69	0	0.3	0.7	146
	Sulfate	04-04-89 to 10-22-18	4.8	25	0	1.0	2.4	137
	Tetrachloroethylene	01-04-89 to 10-22-18	1.5	70	97	0.3	2.2	712
	Toluene	01-04-89 to 10-22-18	1.5	70	84	0.3	0.3	23
	Trichloroethylene	01-04-89 to 10-22-18	1.5	70	0	0.3	0.7	146
	Tritium	01-04-89 to 10-22-18	1.5	70	0	0.3	0.7	172
USGS 89	1,1-Dichloroethylene	01-04-89 to 05-09-18	2.1	44	100	0.5	—	—
	1,1,1-Trichloroethane	01-04-89 to 05-09-18	2.1	44	95	0.5	0.5	0
	Carbon tetrachloride	01-04-89 to 05-09-18	2.1	44	100	0.5	1.8	255
	Cesium-137	01-04-89 to 04-14-15	1.1	43	0	0.5	1.3	146
	CFC-12	01-04-89 to 05-09-18	2.1	44	93	0.5	4.1	700
	Chloride	01-04-89 to 05-09-18	2.1	69	0	0.3	0.6	113
	Chloroform	01-04-89 to 05-09-18	2.1	44	100	0.5	—	—
	Nitrate	04-04-89 to 05-09-18	2.1	30	0	1.0	2.1	106
	Plutonium-238	01-04-89 to 04-14-15	1.1	43	0	0.5	1.2	137
	Sodium	04-04-89 to 05-09-18	2.1	29	0	1.0	2.3	129
	Strontium-90	01-04-89 to 04-14-15	1.1	67	0	0.3	0.7	169
	Sulfate	04-04-89 to 05-09-18	4.8	25	4	1.0	1.9	88
	Tetrachloroethylene	01-04-89 to 05-09-18	2.1	44	100	0.5	—	—
	Toluene	01-04-89 to 05-09-18	2.1	44	93	0.5	0.8	52
	Trichloroethylene	01-04-89 to 05-09-18	2.1	44	100	0.5	—	—
	Tritium	01-04-89 to 05-09-18	2.1	70	0	0.3	0.7	172
USGS 9	Cesium-137	05-31-91 to 10-13-15	2.8	31	0	0.7	1.8	146
	Chloride	04-21-89 to 10-17-18	1.1	46	0	0.5	0.9	82
	Chromium	05-31-91 to 10-17-18	2.8	34	35	1.0	2.2	132
	Nitrate	05-31-91 to 10-17-18	2.8	34	0	1.0	2.6	169
	Sodium	10-20-89 to 10-17-18	1.1	39	0	0.9	2.0	113
	Tritium	04-21-89 to 10-17-18	1.1	46	0	0.5	1.3	146
USGS 97	1,1-Dichloroethylene	11-30-89 to 03-26-18	4.3	48	100	0.5	0.7	36
	1,1,1-Trichloroethane	11-30-89 to 03-26-18	4.3	48	100	0.5	0.8	52
	Carbon tetrachloride	11-30-89 to 03-26-18	4.3	48	100	0.5	0.5	0
	Cesium-137	03-14-94 to 05-18-16	1.2	33	6	0.6	1.3	106
	CFC-12	11-30-89 to 03-26-18	4.3	38	100	0.7	3.0	357

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 97	Chloride	04-19-89 to 03-26-18	1.1	95	0	0.2	0.6	137
	Chloroform	11-30-89 to 03-26-18	4.3	38	100	0.7	0.7	0
	Chromium	04-19-89 to 03-26-18	1.3	44	4	0.6	1.2	106
	Nitrate	10-12-89 to 03-26-18	1.2	60	0	0.3	0.7	106
	Plutonium-238	03-14-94 to 03-31-15	1.2	29	0	0.7	1.7	132
	Sodium	04-19-89 to 03-26-18	1.2	39	0	0.9	2.1	129
	Strontium-90	03-14-94 to 05-18-16	1.2	33	6	0.6	1.5	137
	Sulfate	11-30-89 to 03-26-18	1.1	88	0	0.2	0.6	132
	Tetrachloroethylene	11-30-89 to 03-26-18	4.3	48	100	0.5	1.1	113
	Toluene	11-30-89 to 03-26-18	4.3	48	100	0.5	0.8	62
	Trichloroethylene	11-30-89 to 03-26-18	4.3	48	100	0.5	0.7	39
	Tritium	04-19-89 to 03-26-18	1.1	81	1	0.3	0.6	113
USGS 98	1,1-Dichloroethylene	11-29-89 to 10-15-18	4.3	49	100	0.5	0.7	36
	1,1,1-Trichloroethane	11-29-89 to 10-15-18	4.3	49	100	0.5	0.8	48
	Carbon tetrachloride	11-29-89 to 10-15-18	4.3	49	100	0.5	0.5	8
	Cesium-137	11-29-89 to 05-16-16	4.3	34	5	0.6	1.3	130
	CFC-12	11-29-89 to 10-15-18	4.3	38	100	0.7	3.0	357
	Chloride	04-19-89 to 10-15-18	1.0	93	0	0.3	0.7	172
	Chloroform	11-29-89 to 10-15-18	4.3	38	94	0.7	0.7	3
	Chromium	04-19-89 to 10-15-18	1.3	44	4	0.6	1.8	224
	Nitrate	11-29-89 to 10-15-18	1.3	58	0	0.4	1.0	146
	Plutonium-238	11-29-89 to 10-21-15	4.3	30	0	1.0	2.0	113
	Sodium	10-10-89 to 10-15-18	1.5	38	0	0.9	1.7	82
	Strontium-90	11-29-89 to 05-16-16	4.3	34	5	0.6	1.4	146
	Sulfate	11-29-89 to 10-15-18	1.0	86	0	0.3	0.7	146
	Tetrachloroethylene	11-29-89 to 10-15-18	4.3	49	100	0.5	0.8	52
	Toluene	11-29-89 to 10-15-18	4.3	49	100	0.5	1.0	88
	Trichloroethylene	11-29-89 to 10-15-18	4.3	49	100	0.5	0.5	0
	Tritium	04-19-89 to 10-15-18	1.1	79	12	0.3	0.7	100
USGS 99	1,1-Dichloroethylene	11-30-89 to 05-18-16	4.9	20	100	1.0	1.0	1
	1,1,1-Trichloroethane	11-30-89 to 05-18-16	4.9	20	100	1.0	1.0	1
	Carbon tetrachloride	11-30-89 to 05-18-16	4.9	20	100	1.0	1.1	14
	Chloride	04-19-89 to 10-11-18	1.1	96	0	0.3	0.6	146
	Chromium	04-19-89 to 10-11-18	1.3	44	18	0.6	1.4	146
	Sodium	04-19-89 to 10-11-18	1.8	32	0	1.0	2.1	113
	Sulfate	11-30-89 to 10-11-18	1.1	84	0	0.3	0.6	146
	Tetrachloroethylene	11-30-89 to 05-18-16	4.9	20	100	1.0	1.0	1
	Toluene	11-30-89 to 05-18-16	4.9	20	100	1.0	1.0	1

Table 12.1. Reduction in the sampling interval for selected constituents at wells in the in the U.S. Geological Survey aquifer water-quality monitoring network, Idaho National Laboratory and vicinity.—Continued

Well name	Constituent name	Period of record	Longest date gap (years)	Number of unique sampling dates	Percentage of observations with censored values	Median sampling interval (years)	Optimal sampling interval (years)	Sampling reduction (percent)
USGS 99	Trichloroethylene	11-30-89 to 05-18-16	4.9	20	100	1.0	1.4	36
	Tritium	04-19-89 to 10-11-18	1.1	81	3	0.3	1.1	236
WS INEL 1	Chloride	04-19-89 to 04-05-18	1.3	58	0	0.4	1.0	132
	Chromium	04-19-89 to 04-05-18	1.3	41	4	0.6	1.4	146
	Sodium	10-10-89 to 04-05-18	1.8	29	0	1.0	1.4	39
	Sulfate	12-14-89 to 04-05-18	1.8	48	0	0.3	0.8	132
	Tritium	04-19-89 to 04-05-18	1.3	47	0	0.5	1.2	137