

CHEMICAL QUALITY OF PRECIPITATION

SILVER LAKE BASIN

430701121040001 SILVER LAKE RANGER STATION, OR

LOCATION.--Lat 43°07'01", Long 121°04'00", in NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.21, T.28 S., R.14 E., Lake County, Hydrologic Unit 17120005, at Silver Lake Ranger Station, 0.5 mi south of State Highway 31, and 1 mi southwest of town of Silver Lake.

PERIOD OF RECORD.--August 1983 to current year (weekly composite).

INSTRUMENTATION.--The wet-deposition sample collector is an Aerochem Metrics Model 301 wet/dry deposition collector. Refer to WDR OR-92-1 for further description of instrumentation.

REMARKS.--Inches of precipitation obtained from an on-site recording weighing-bucket gage. Samples are collected by Silver Lake Ranger Station personnel and analyzed by the Illinois State Water Survey Central Analytical Laboratory.

CHEMICAL QUALITY OF PRECIPITATION

SILVER LAKE BASIN—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Precipitation total for defined period, inches (00193)	pH, wet atm dep unfltrd field, std units (83106)	pH wet atm dep unfltrd lab, std units (83107)	Specif. conduc-tance, wet dep unfltrd field, uS/cm (83154)	Specif. conduc-tance, wet dep unfltrd lab, uS/cm (83156)	Calcium wet atm dep fltrd, mg/L (82932)	Magnesium, wet atm dep fltrd, mg/L (83002)	Potas-sium, wet atm dep fltrd, mg/L (83120)	Sodium, wet atm dep fltrd, mg/L (83138)	Chlor-ide, wet atm dep fltrd, mg/L (82944)	Sulfate wet atm dep fltrd, mg/L (83160)	Ammonia wet atm dep fltrd, mg/L as NH4 (83047)	Nitrate wet atm dep fltrd, mg/L (83071)
SEP 28- OCT 05	.00	--	--	--	--	--	-	--	--	--	--	--	--
OCT 05-12	.14	5.02	5.17	5.9	3.9	.05	.007	.010	.011	.04	.12	<.02	.34
OCT 12-19	.27	5.87	5.56	2.3	2.1	.02	<.003	.020	.003	.03	.08	<.02	.07
OCT 19-26	.70	5.29	5.56	2.6	2.4	.01	<.003	.005	.004	.01	.11	<.02	.08
OCT 26- NOV 02	.18	4.99	5.00	5.7	5.8	.02	.004	.009	.006	.04	.17	.05	.57
NOV 02-09	.28	5.29	5.34	3.1	3.0	.02	<.003	<.003	.009	.12	.06	<.02	.11
NOV 09-16	<.01	--	--	--	--	--	--	--	--	--	--	--	--
NOV 16-23	.01	--	--	--	--	--	--	--	--	--	--	--	--
NOV 23-30	.12	5.70	5.33	2.6	2.7	.02	.003	.003	.006	.02	.07	<.02	.21
NOV 30- DEC 07	.52	5.61	5.46	2.4	2.3	.02	<.003	<.003	<.003	.02	.04	<.02	.14
DEC 07-14	1.66	5.36	5.36	2.4	2.0	.01	<.003	<.003	<.003	<.01	.04	<.02	.10
DEC 14-21	.00	--	--	--	--	--	--	--	--	--	--	--	--
DEC 21-28	.13	5.09	5.22	4.3	4.2	.04	.005	.014	.018	.07	.10	.07	.60
DEC 28 2004- JAN 03 2005	.33	--	5.50	--	2.2	.02	<.003	<.003	.016	.03	.03	.02	.18
JAN 03-11	.38	--	5.54	--	1.8	.01	<.003	<.003	.007	.02	.02	<.02	.09
JAN 11-18	.08	--	5.71	--	2.2	.02	<.003	.003	.012	.03	.08	.07	.22
JAN 18-25	.00	--	--	--	--	--	--	--	--	--	--	--	--
JAN 25- FEB 01	<.01	--	--	--	--	--	--	--	--	--	--	--	--
FEB 01-08	.04	--	5.73	--	2.0	.03	.003	.008	.007	.01	.07	<.02	.17
FEB 08-15	.06	--	5.28	--	3.8	.06	.007	<.003	.014	.03	.10	<.02	.37
FEB 15-22	.00	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22- MAR 01	.00	--	--	--	--	--	--	--	--	--	--	--	--
MAR 01-08	.02	--	--	--	--	--	--	--	--	--	--	--	--
MAR 08-15	.00	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15-22	.12	--	6.09	--	1.9	.03	.004	.015	.151	.03	.04	.05	.15
MAR 22-29	.43	--	5.53	--	2.2	.02	.003	.005	.008	.02	.08	.06	.17
MAR 29- APR 05	.02	--	--	--	--	--	--	--	--	--	--	--	--
APR 05-12	.07	--	5.60	--	1.7	.04	.003	.004	.007	.02	.06	<.02	.05
APR 12-19	.19	--	5.37	--	2.6	.05	.006	.004	.007	.03	.10	<.02	.22
APR 19-26	.24	--	5.76	--	7.4	.24	.031	.029	.049	.09	.70	.50	1.38
APR 26- MAY 03	.76	--	5.28	--	6.1	.11	.012	.021	.010	.02	.65	.24	.50
MAY 03-09	.51	--	5.37	--	3.1	.02	.004	.022	.022	.04	.21	.04	.17
MAY 09-17	.38	--	5.16	--	5.8	.12	.015	.016	.020	.06	.54	.14	.48
MAY 17-24	.36	--	5.27	--	3.9	.03	.008	.008	.050	.09	.22	.06	.25
MAY 24-31	1.43	--	5.37	--	7.7	.19	.019	.046	.171	.15	.87	.32	.76

CHEMICAL QUALITY OF PRECIPITATION

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WATER-QUALITY DATA

Date	Precipitation total for defined period, inches (00193)	pH wet atm dep unfltrd lab, std units (83107)	Specif. conductance, wet dep unfltrd lab, uS/cm (83156)	Calcium wet atm dep fltrd, mg/L (82932)	Magnesium, wet atm dep fltrd, mg/L (83002)	Potassium, wet atm dep fltrd, mg/L (83120)	Sodium, wet atm dep fltrd, mg/L (83138)	Chloride, wet atm dep fltrd, mg/L (82944)	Sulfate wet atm dep fltrd, mg/L (83160)	Ammonia wet atm dep fltrd, mg/L as NH4 (83047)	Nitrate wet atm dep fltrd, mg/L (83071)
MAY 31- JUN 07	.13	4.93	8.7	.08	.026	.041	.156	.18	.70	.14	.68
JUN 07-14	.07	4.96	6.1	.05	.010	.036	.044	.08	.45	<.02	.30
JUN 14-21	.00	--	--	--	--	--	--	--	--	--	--
JUN 21-28	.13	5.26	5.1	.06	.026	.298	.055	.07	.56	<.02	<.01
JUN 28- JUL 06	.00	--	--	--	--	--	--	--	--	--	--
JUL 06-12	.20	4.71	10.3	.06	.009	.023	.022	.07	.59	.09	.80
JUL 12-19	.00	--	--	--	--	--	--	--	--	--	--
JUL 19-26	.02	--	--	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than.