

Appendix D

Water Quality Sampling Data

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- Stream Chemistry Data

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Appendix D Stream-chemistry data

[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Station number	Date	Sample start time	Source	Hydrologic event	Temperature, air, degrees Celsius
Haines Branch near the Holmes Creek confluence	--	7/14/1951	--	K-M, 1963	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06803093	8/28/1995	1935	USGS	9	27
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	04/26/1999	17:10	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	05/04/1999	09:50	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	05/11/1999	10:25	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	05/18/1999	12:55	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	05/25/1999	13:35	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	06/03/1999	12:15	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	06/08/1999	08:05	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	06/15/1999	07:45	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	06/22/1999	09:20	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	06/26/1999	08:15	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	06/29/1999	08:15	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	07/08/1999	08:20	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	07/13/1999	08:00	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	07/20/1999	07:35	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	07/27/1999	08:00	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	08/03/1999	08:43	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	08/10/1999	08:25	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	08/17/1999	07:50	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	08/24/1999	08:30	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	08/31/1999	09:25	NDEQ	--	--

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[K-M, 1963, Kister and Mundorff, 1963; USGS, U.S. Geological Survey; NDEQ, Nebraska Department of Environmental Quality; --, no data; 9, Routine sample; J, Storm; <, less than; >, greater than; E, estimated;]

Station name	Station number	Date	Sample start time	Source	Hydrologic event	Temperature, air, degrees Celsius
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	09/09/1999	09:00	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	09/14/1999	09:45	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	09/21/1999	09:15	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	SLP2HNSBR190	09/29/1999	09:20	NDEQ	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06803093	5/1/2013	1400	USGS	9	3.8
Haines Branch at SW 56th St at Lincoln, Nebr.	06803093	8/7/2013	1400	USGS	9	29.4
Haines Branch at SW 56th St at Lincoln, Nebr.	06803093	11/5/2013	1540	USGS	J	6
Haines Branch at Van Dorn St at Lincoln, Nebr.	06803097	5/24/1951	--	K-M, 1963	--	--
Haines Branch at Van Dorn St at Lincoln, Nebr.	06803097	8/29/1995	730	USGS	9	24.5
Haines Branch at Van Dorn St at Lincoln, Nebr.	06803097	5/1/2013	1200	USGS	9	4.2
Haines Branch at Van Dorn St at Lincoln, Nebr.	06803097	8/7/2013	1100	USGS	9	28.3
Haines Branch at Van Dorn St at Lincoln, Nebr.	06803097	11/5/2013	1630	USGS	J	5

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Station name	Date	Discharge, instantaneous, cubic feet per second	Dissolved oxygen, water, unfiltered, milligrams per liter	pH, water, unfiltered, field, standard units	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius	Temperature, water, degrees Celsius
Haines Branch near the Holmes Creek confluence	7/14/1951	--	--	8.1	889	--
Haines Branch at SW 56th St at Lincoln, Nebr.	8/28/1995	1.9	9	8.5	1250	30.5
Haines Branch at SW 56th St at Lincoln, Nebr.	04/26/1999	24	10.8	9.5	741	12.5
Haines Branch at SW 56th St at Lincoln, Nebr.	05/04/1999	22	8.7	8.4	772	15.6
Haines Branch at SW 56th St at Lincoln, Nebr.	05/11/1999	23	9.5	8.5	743	13.9
Haines Branch at SW 56th St at Lincoln, Nebr.	05/18/1999	53	8.54	8.37	620	17.6
Haines Branch at SW 56th St at Lincoln, Nebr.	05/25/1999	40	8.37	8.38	683	19.55
Haines Branch at SW 56th St at Lincoln, Nebr.	06/03/1999	21	8.5	9.5	762	19.77
Haines Branch at SW 56th St at Lincoln, Nebr.	06/08/1999	14	7.22	8.72	844	21.3
Haines Branch at SW 56th St at Lincoln, Nebr.	06/15/1999	15	8.23	8.74	756	18
Haines Branch at SW 56th St at Lincoln, Nebr.	06/22/1999	13	8.45	8.88	854	20.96
Haines Branch at SW 56th St at Lincoln, Nebr.	06/26/1999	11	8.41	8.8	708	17.85
Haines Branch at SW 56th St at Lincoln, Nebr.	06/29/1999	16	--	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	07/08/1999	17	6.82	8.81	609	23.74
Haines Branch at SW 56th St at Lincoln, Nebr.	07/13/1999	11	6.92	8.95	732	19.38
Haines Branch at SW 56th St at Lincoln, Nebr.	07/20/1999	8.5	8.01	6.29	679	23.6
Haines Branch at SW 56th St at Lincoln, Nebr.	07/27/1999	4.7	7.2	8.32	839	23.6
Haines Branch at SW 56th St at Lincoln, Nebr.	08/03/1999	4.4	10.17	8.38	892	19.9

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Station name	Date	Discharge, instantaneous, cubic feet per second	Dissolved oxygen, water, unfiltered, milligrams per liter	pH, water, unfiltered, field, standard units	Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius	Temperature, water, degrees Celsius
Haines Branch at SW 56th St at Lincoln, Nebr.	08/10/1999	3.4	7.78	8.02	960	21.7
Haines Branch at SW 56th St at Lincoln, Nebr.	08/17/1999	2.4	6.12	8.82	880	20.5
Haines Branch at SW 56th St at Lincoln, Nebr.	08/24/1999	1.6	9.35	8.12	1650	17.5
Haines Branch at SW 56th St at Lincoln, Nebr.	08/31/1999	1.4	6.85	8.65	1100	26.3
Haines Branch at SW 56th St at Lincoln, Nebr.	09/09/1999	1.6	6.87	8.05	1350	14.2
Haines Branch at SW 56th St at Lincoln, Nebr.	09/14/1999	1.9	6.08	8.25	1390	13.65
Haines Branch at SW 56th St at Lincoln, Nebr.	09/21/1999	2.8	4.93	8.21	1347	8.7
Haines Branch at SW 56th St at Lincoln, Nebr.	09/29/1999	8.6	4.13	8.43	753	12.79
Haines Branch at SW 56th St at Lincoln, Nebr.	5/1/2013	2.2	10.3	8.3	1240	9.5
Haines Branch at SW 56th St at Lincoln, Nebr.	8/7/2013	0.92	7.6	8	1630	24.5
Haines Branch at SW 56th St at Lincoln, Nebr.	11/5/2013	2.4	8.7	7.5	1800	7.7
Haines Branch at Van Dorn St at Lincoln, Nebr.	5/24/1951	--	--	8	1700	--
Haines Branch at Van Dorn St at Lincoln, Nebr.	8/29/1995	4.6	5.3	7.9	1190	22
Haines Branch at Van Dorn St at Lincoln, Nebr.	5/1/2013	E7.2	7.5	7.9	6830	11.7
Haines Branch at Van Dorn St at Lincoln, Nebr.	8/7/2013	E 5.3	13.1	8.3	8700	22
Haines Branch at Van Dorn St at Lincoln, Nebr.	11/5/2013	E 9.7	8.5	7.6	7810	8.4

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Station name	Date	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +-2.5 degrees, formazin nephelometric units (FNU)	Suspended solids, water, unfiltered, milligrams per liter	Hardness, water, milligrams per liter as calcium carbonate	Calcium, water, filtered, milligrams per liter	Magnesium, water, filtered, milligrams per liter
Haines Branch near the Holmes Creek confluence	7/14/1951	--	--	372	122	16
Haines Branch at SW 56th St at Lincoln, Nebr.	8/28/1995	--	232	294	80	23
Haines Branch at SW 56th St at Lincoln, Nebr.	04/26/1999	--	99	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	05/04/1999	--	90	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	05/11/1999	--	70	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	05/18/1999	--	218	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	05/25/1999	--	253	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06/03/1999	--	94	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06/08/1999	--	72	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06/15/1999	--	99	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06/22/1999	--	64.5	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06/26/1999	--	--	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06/29/1999	--	113	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	07/08/1999	--	164	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	07/13/1999	--	69	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	07/20/1999	--	92.5	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	07/27/1999	--	46	--	--	--

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Station name	Date	Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +-2.5 degrees, formazin nephelometric units (FNU)	Suspended solids, water, unfiltered, milligrams per liter	Hardness, water, milligrams per liter as calcium carbonate	Calcium, water, filtered, milligrams per liter	Magnesium, water, filtered, milligrams per liter
Haines Branch at SW 56th St at Lincoln, Nebr.	08/03/1999	--	16	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	08/10/1999	--	21	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	08/17/1999	--	22.5	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	08/24/1999	--	23.5	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	08/31/1999	--	28	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	09/09/1999	--	14	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	09/14/1999	--	33	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	09/21/1999	--	7.5	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	09/29/1999	--	69	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	5/1/2013	22	26	382	109	26.6
Haines Branch at SW 56th St at Lincoln, Nebr.	8/7/2013	18	38	322	93.2	21.8
Haines Branch at SW 56th St at Lincoln, Nebr.	11/5/2013	44	64	256	69.7	19.8
Haines Branch at Van Dorn St at Lincoln, Nebr.	5/24/1951	--	--	472	136	32
Haines Branch at Van Dorn St at Lincoln, Nebr.	8/29/1995	--	25	394	90	41
Haines Branch at Van Dorn St at Lincoln, Nebr.	5/1/2013	17	<15	388	97.3	35.3
Haines Branch at Van Dorn St at Lincoln, Nebr.	8/7/2013	9.6	16	381	92	36.8
Haines Branch at Van Dorn St at Lincoln, Nebr.	11/5/2013	150	90	315	73	32.2

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Station name	Date	Sodium adsorption ratio, water, number	Sodium, water, filtered, milligrams per liter	Ammonia, water, filtered, milligrams per liter as nitrogen	Phosphorus, water, unfiltered, milligrams per liter as phosphorus
Haines Branch near the Holmes Creek confluence	7/14/1951	1.3	55	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	8/28/1995	3.8	150	0.1	0.45
Haines Branch at SW 56th St at Lincoln, Nebr.	04/26/1999	--	40.2	0.09	0.33
Haines Branch at SW 56th St at Lincoln, Nebr.	05/04/1999	--	45	0.06	0.33
Haines Branch at SW 56th St at Lincoln, Nebr.	05/11/1999	--	42	0.06	0.31
Haines Branch at SW 56th St at Lincoln, Nebr.	05/18/1999	--	32.4	0.14	0.38
Haines Branch at SW 56th St at Lincoln, Nebr.	05/25/1999	--	25	0.06	0.33
Haines Branch at SW 56th St at Lincoln, Nebr.	06/03/1999	--	46	0.11	0.36
Haines Branch at SW 56th St at Lincoln, Nebr.	06/08/1999	--	55.6	0.07	0.38
Haines Branch at SW 56th St at Lincoln, Nebr.	06/15/1999	--	51.8	0.08	0.4
Haines Branch at SW 56th St at Lincoln, Nebr.	06/22/1999	--	57.2	0.05	0.38
Haines Branch at SW 56th St at Lincoln, Nebr.	06/26/1999	--	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	06/29/1999	--	41.4	<0.05	0.37
Haines Branch at SW 56th St at Lincoln, Nebr.	07/08/1999	--	37.2	0.05	0.37
Haines Branch at SW 56th St at Lincoln, Nebr.	07/13/1999	--	48.2	0.06	0.33
Haines Branch at SW 56th St at Lincoln, Nebr.	07/20/1999	--	53	0.07	0.49
Haines Branch at SW 56th St at Lincoln, Nebr.	07/27/1999	--	89	0.08	0.39
Haines Branch at SW 56th St at Lincoln, Nebr.	08/03/1999	--	102	0.08	0.33
Haines Branch at SW 56th St at Lincoln, Nebr.	08/10/1999	--	115	0.1	0.27
Haines Branch at SW 56th St at Lincoln, Nebr.	08/17/1999	--	133	0.09	0.27

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Station name	Date	Sodium adsorption ratio, water, number	Sodium, water, filtered, milligrams per liter	Ammonia, water, filtered, milligrams per liter as nitrogen	Phosphorus, water, unfiltered, milligrams per liter as phosphorus
Haines Branch at SW 56th St at Lincoln, Nebr.	08/24/1999	--	138	<0.05	0.32
Haines Branch at SW 56th St at Lincoln, Nebr.	08/31/1999	--	140	0.12	0.36
Haines Branch at SW 56th St at Lincoln, Nebr.	09/09/1999	--	195	0.13	0.35
Haines Branch at SW 56th St at Lincoln, Nebr.	09/14/1999	--	180	0.11	0.36
Haines Branch at SW 56th St at Lincoln, Nebr.	09/21/1999	--	169	0.12	0.31
Haines Branch at SW 56th St at Lincoln, Nebr.	09/29/1999	--	48.5	0.08	0.21
Haines Branch at SW 56th St at Lincoln, Nebr.	5/1/2013	2.84	128	0.086	0.43
Haines Branch at SW 56th St at Lincoln, Nebr.	8/7/2013	5.06	209	0.135	0.44
Haines Branch at SW 56th St at Lincoln, Nebr.	11/5/2013	7.17	263	<0.010	0.41
Haines Branch at Van Dorn St at Lincoln, Nebr.	5/24/1951	4.1	205	--	--
Haines Branch at Van Dorn St at Lincoln, Nebr.	8/29/1995	35.1	1600	0.17	0.2
Haines Branch at Van Dorn St at Lincoln, Nebr.	5/1/2013	26.3	1190	0.61	0.36
Haines Branch at Van Dorn St at Lincoln, Nebr.	8/7/2013	33.1	1480	0.02	0.17
Haines Branch at Van Dorn St at Lincoln, Nebr.	11/5/2013	37	1510	0.1	0.31

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Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Haines Branch near the Holmes Creek confluence	7/14/1951	--	--	--	--	--	--
Haines Branch at SW 56th St at Lincoln, Nebr.	8/28/1995	--	--	--	--	7.3	--
Haines Branch at SW 56th St at Lincoln, Nebr.	4/26/1999	--	--	--	--	--	1.46
Haines Branch at SW 56th St at Lincoln, Nebr.	5/04/1999	--	--	--	--	--	1.22
Haines Branch at SW 56th St at Lincoln, Nebr.	5/11/1999	--	--	--	--	--	1.63
Haines Branch at SW 56th St at Lincoln, Nebr.	5/18/1999	--	--	--	--	--	3.44
Haines Branch at SW 56th St at Lincoln, Nebr.	5/25/1999	--	--	--	--	--	3.66
Haines Branch at SW 56th St at Lincoln, Nebr.	6/03/1999	--	--	--	--	--	1.85
Haines Branch at SW 56th St at Lincoln, Nebr.	6/08/1999	--	--	--	--	--	1.33
Haines Branch at SW 56th St at Lincoln, Nebr.	6/15/1999	--	--	--	--	--	4.57
Haines Branch at SW 56th St at Lincoln, Nebr.	6/22/1999	--	--	--	--	--	1.51
Haines Branch at SW 56th St at Lincoln, Nebr.	6/26/1999	2000	--	--	--	--	4.68
Haines Branch at SW 56th St at Lincoln, Nebr.	6/29/1999	--	--	--	--	--	--

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Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Haines Branch at SW 56th St at Lincoln, Nebr.	7/08/1999	--	--	--	--	--	1.65
Haines Branch at SW 56th St at Lincoln, Nebr.	7/13/1999	--	--	--	--	--	1.12
Haines Branch at SW 56th St at Lincoln, Nebr.	7/20/1999	--	--	--	--	--	1.24
Haines Branch at SW 56th St at Lincoln, Nebr.	7/27/1999	--	--	--	--	--	0.41
Haines Branch at SW 56th St at Lincoln, Nebr.	8/03/1999	--	--	--	--	--	0.15
Haines Branch at SW 56th St at Lincoln, Nebr.	8/10/1999	--	--	--	--	--	0.19
Haines Branch at SW 56th St at Lincoln, Nebr.	8/17/1999	--	--	--	--	--	0.22
Haines Branch at SW 56th St at Lincoln, Nebr.	8/24/1999	--	--	--	--	--	0.26
Haines Branch at SW 56th St at Lincoln, Nebr.	8/31/1999	--	--	--	--	--	0.36
Haines Branch at SW 56th St at Lincoln, Nebr.	9/09/1999	--	--	--	--	--	0.13
Haines Branch at SW 56th St at Lincoln, Nebr.	9/14/1999	--	--	--	--	--	0.11
Haines Branch at SW 56th St at Lincoln, Nebr.	9/21/1999	--	--	--	--	--	0.13
Haines Branch at SW 56th St at Lincoln, Nebr.	9/29/1999	--	--	--	--	--	1.82
Haines Branch at SW 56th St at Lincoln, Nebr.	5/1/2013	510	>24000	<0.8	2.1	16.1	--
Haines Branch at SW 56th St at Lincoln, Nebr.	8/7/2013	450	>24000	1.1	2	6.2	--

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Station name	Date	Escherichia coli, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Total coliforms, defined substrate test method (DSTM), water, most probable number per 100 milliliters	Copper, water, filtered, micrograms per liter	Selenium, water, filtered, micrograms per liter	Organic carbon, water, unfiltered, milligrams per liter	Atrazine, total, micrograms per liter
Haines Branch at SW 56th St at Lincoln, Nebr.	11/5/2013	2600	>24000	1	0.91	10.6	--
Haines Branch at Van Dorn St at Lincoln, Nebr.	5/24/1951	--	--	--	--	--	--
Haines Branch at Van Dorn St at Lincoln, Nebr.	8/29/1995	--	--	--	--	9	--
Haines Branch at Van Dorn St at Lincoln, Nebr.	5/1/2013	210	4400	<4.0	1.5	11.1	--
Haines Branch at Van Dorn St at Lincoln, Nebr.	8/7/2013	1100	>24000	<4.0	1.1	4.6	--
Haines Branch at Van Dorn St at Lincoln, Nebr.	11/5/2013	3100	55000	<3.2	1.3	9	--

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