

72694 SLE Salem Observations at 00Z 22 Sep 2016

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1006.0	61	21.8	8.8	43	7.11	325	7	294.4	315.3	295.7
1000.0	116	20.2	7.2	43	6.41	340	6	293.4	312.1	294.5
998.0	133	19.6	6.6	43	6.16	341	6	292.9	310.9	294.0
978.1	305	17.9	6.3	46	6.15	350	3	292.9	310.9	294.0
943.6	610	15.0	5.7	54	6.13	340	6	293.0	310.9	294.1
925.0	780	13.4	5.4	58	6.11	350	7	293.0	310.9	294.1
910.3	914	12.2	4.8	61	5.97	355	8	293.1	310.6	294.1
904.0	973	11.6	4.6	62	5.91	353	8	293.1	310.4	294.1
888.0	1122	10.2	3.2	62	5.45	348	9	293.1	309.2	294.1
877.6	1219	9.8	0.0	50	4.39	345	10	293.7	306.8	294.5
866.0	1330	9.4	-3.6	40	3.40	347	10	294.4	304.7	295.0
850.0	1484	8.0	-6.0	36	2.89	350	10	294.5	303.4	295.0
843.0	1552	7.4	-5.6	39	3.00	348	10	294.6	303.8	295.1
814.9	1829	4.8	-5.3	48	3.17	340	11	294.7	304.3	295.2
786.0	2123	2.0	-5.0	60	3.37	326	9	294.8	305.0	295.4
784.9	2134	1.9	-5.3	59	3.31	325	9	294.8	304.8	295.4
769.0	2299	0.8	-9.2	47	2.49	333	7	295.3	303.0	295.8
755.8	2438	-0.7	-9.8	50	2.41	340	6	295.1	302.6	295.6
754.0	2457	-0.9	-9.9	50	2.40	342	6	295.1	302.6	295.6
747.0	2531	-1.5	-12.5	43	1.97	351	5	295.3	301.4	295.6
728.0	2736	-3.3	-13.3	46	1.89	14	3	295.5	301.4	295.8
727.3	2743	-3.3	-13.5	45	1.86	15	3	295.5	301.4	295.9
715.0	2878	-3.9	-17.9	33	1.32	19	4	296.3	300.6	296.6
700.0	3045	-5.3	-16.3	42	1.54	25	6	296.6	301.5	296.9
693.0	3124	-5.7	-11.7	63	2.26	27	6	297.0	304.1	297.4
682.0	3249	-6.7	-15.7	49	1.66	30	6	297.2	302.5	297.5
672.0	3364	-7.7	-14.7	57	1.83	33	5	297.4	303.2	297.7
670.0	3387	-7.7	-14.7	57	1.83	33	5	297.6	303.5	298.0
666.0	3433	-7.9	-19.9	38	1.19	34	5	297.9	301.8	298.1
647.0	3658	-8.9	-23.5	30	0.89	40	5	299.2	302.2	299.4
644.0	3694	-9.1	-24.1	29	0.85	38	5	299.4	302.3	299.6
630.0	3863	-9.7	-31.7	15	0.43	27	4	300.6	302.1	300.7
597.0	4267	-12.7	-34.7	14	0.34	0	1	301.8	303.0	301.8
550.5	4877	-17.3	-39.3	13	0.23	115	3	303.4	304.3	303.5
500.0	5600	-22.7	-44.7	12	0.14	165	1	305.3	305.9	305.3
499.0	5615	-22.9	-44.9	12	0.14	166	1	305.2	305.8	305.3
467.1	6096	-25.3	-50.1	8	0.08	200	4	308.0	308.4	308.0
465.0	6128	-25.5	-50.5	8	0.08	206	4	308.2	308.5	308.2
447.5	6401	-27.7	-50.6	9	0.08	255	2	308.9	309.2	308.9
400.0	7200	-34.1	-51.1	16	0.09	275	5	310.6	310.9	310.6
376.5	7620	-37.8	-54.1	17	0.07	225	4	311.1	311.4	311.1
366.0	7817	-39.5	-55.5	17	0.06	221	6	311.4	311.6	311.4
332.0	8480	-43.9	-60.9	13	0.03	206	12	314.1	314.3	314.1
329.3	8534	-44.0	-61.1	13	0.03	205	13	314.8	314.9	314.8
314.0	8855	-44.5	-62.5	12	0.03	205	20	318.4	318.5	318.4
303.0	9094	-45.9	-63.9	11	0.02	205	25	319.6	319.7	319.6
300.7	9144	-45.6	-64.4	10	0.02	205	25	320.8	320.9	320.8
300.0	9160	-45.5	-64.5	10	0.02	205	23	321.1	321.2	321.1
294.0	9294	-45.5	-65.5	9	0.02	203	24	323.0	323.1	323.0
274.3	9754	-46.9	-67.9	7	0.02	195	27	327.4	327.5	327.4
274.0	9762	-46.9	-67.9	7	0.01	195	27	327.5	327.6	327.5
265.0	9983	-45.9	-67.9	7	0.02	199	22	332.1	332.2	332.1
260.0	10110	-46.3	-69.3	6	0.01	201	20	333.3	333.4	333.3
256.0	10212	-45.7	-69.7	5	0.01	203	18	335.7	335.8	335.7
253.0	10291	-46.3	-70.3	5	0.01	204	16	335.9	336.0	335.9
250.3	10363	-45.2	-70.1	4	0.01	205	15	338.6	338.7	338.6
250.0	10370	-45.1	-70.1	4	0.01	200	20	338.9	338.9	338.9

249.0	10397	-44.9	-69.9	4	0.01	200	20	339.6	339.6	339.6
242.0	10587	-45.9	-72.9	3	0.01	204	21	340.8	340.9	340.9
239.1	10668	-45.8	-73.9	3	0.01	205	22	342.2	342.2	342.2
237.0	10727	-45.7	-74.7	2	0.01	209	21	343.2	343.2	343.2
234.0	10812	-44.9	-74.9	2	0.01	214	21	345.6	345.7	345.6
228.4	10973	-45.2	-76.4	2	0.01	225	19	347.6	347.6	347.6
220.0	11224	-45.7	-78.7	1	0.00	223	19	350.6	350.6	350.6
210.0	11535	-45.3	-79.3	1	0.00	220	20	355.9	355.9	355.9
208.5	11582	-45.5	-79.5	1	0.00	220	20	356.4	356.4	356.4
200.0	11860	-46.3	-80.3	1	0.00	215	19	359.3	359.3	359.3
199.2	11887	-46.5	-80.5	1	0.00	205	20	359.4	359.5	359.4
198.0	11927	-46.7	-80.7	1	0.00	206	21	359.7	359.7	359.7
190.0	12200	-45.7	-80.7	1	0.00	213	25	365.6	365.6	365.6
185.0	12377	-46.9				217	28	366.4		366.4
181.7	12497	-47.1				220	30	367.9		367.9
172.0	12858	-47.9				226	24	372.5		372.5
165.7	13106	-47.7				230	20	376.9		376.9
156.0	13502	-47.3				249	19	384.0		384.0
151.0	13716	-48.3				260	18	385.9		385.9
150.0	13760	-48.5				260	16	386.3		386.3
144.1	14021	-49.4				230	10	389.1		389.1
137.5	14326	-50.5				215	18	392.4		392.4
132.0	14594	-51.5				225	22	395.3		395.3
122.0	15105	-50.9				229	29	405.4		405.4
119.5	15240	-51.4				230	31	406.9		406.9
116.0	15432	-52.1				232	29	409.1		409.1
114.0	15544	-51.5				234	28	412.2		412.2
110.0	15775	-51.9				237	25	415.7		415.7
100.0	16390	-53.1				245	18	424.9		424.9
89.5	17104	-55.1				236	21	434.6		434.6
82.1	17658	-54.1				228	23	447.4		447.4
76.2	18136	-55.9				222	25	453.3		453.3
74.4	18288	-55.6				220	26	457.1		457.1
73.0	18410	-55.3				225	25	460.2		460.2
71.5	18543	-53.5				230	25	466.7		466.7
70.0	18680	-53.9				235	24	468.7		468.7
67.7	18898	-53.7				245	14	473.6		473.6
64.5	19202	-53.5				215	8	480.6		480.6
64.4	19214	-53.5				214	8	480.9		480.9
61.5	19507	-55.0				195	15	484.0		484.0
57.2	19968	-57.3				244	20	488.9		488.9
55.9	20117	-57.0				260	22	492.8		492.8
53.2	20422	-56.5				295	15	500.9		500.9
52.4	20521	-56.3				315	14	503.6		503.6
50.7	20731	-54.3				356	12	513.0		513.0
50.7	20726	-54.4				355	12	512.8		512.8
50.0	20820	-54.5				15	14	514.6		514.6
46.1	21336	-54.8				200	10	526.0		526.0
30.3	24017	-56.1				278	5	589.4		589.4
30.0	24080	-55.9				280	5	591.6		591.6
28.6	24384	-54.4				55	3	603.8		603.8
28.3	24453	-54.1				53	3	606.6		606.6
26.3	24922	-54.3				37	4	618.9		618.9
24.5	25379	-51.9				23	5	638.4		638.4
21.8	26133	-53.3				358	6	655.9		655.9
20.0	26690	-51.5				340	7	677.8		677.8
18.8	27092	-50.3				358	1	693.6		693.6
18.7	27127	-50.3				0	0	694.7		694.7
17.9	27432	-50.3				210	8	704.0		704.0
16.2	28063	-50.3				227	8	723.7		723.7
14.5	28790	-47.5				246	8	756.4		756.4
12.0	30035	-49.1				278	9	792.8		792.8
11.2	30480	-47.7				290	9	813.2		813.2
10.0	31240	-45.3				225	12	849.3		849.3
9.8	31375	-44.9				226	12	855.8		855.8

8.2	32567	-44.5	234	17	902.0	902.0
7.6	33078	-42.3	237	18	930.7	930.7
7.1	33528	-42.1	240	20	949.2	949.2
7.0	33634	-42.1			953.7	953.7

Station information and sounding indices

Station identifier: SLE
Station number: 72694
Observation time: 160922/0000
Station latitude: 44.91
Station longitude: -123.00
Station elevation: 61.0
Showalter index: 3.99
Lifted index: -1.11
LIFT computed using virtual temperature: -1.29
SWEAT index: 21.00
K index: 13.70
Cross totals index: 16.70
Vertical totals index: 30.70
Totals totals index: 47.40
Convective Available Potential Energy: 154.97
CAPE using virtual temperature: 204.39
Convective Inhibition: -37.67
CINS using virtual temperature: -21.38
Equilibrium Level: 472.97
Equilibrium Level using virtual temperature: 469.96
Level of Free Convection: 774.18
LFCT using virtual temperature: 792.96
Bulk Richardson Number: 1113.75
Bulk Richardson Number using CAPV: 1468.87
Temp [K] of the Lifted Condensation Level: 277.06
Pres [hPa] of the Lifted Condensation Level: 821.68
Mean mixed layer potential temperature: 293.06
Mean mixed layer mixing ratio: 6.21
1000 hPa to 500 hPa thickness: 5484.00
Precipitable water [mm] for entire sounding: 14.19

Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)
