

Salt Lake City Public Utilities
Hydrology department
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Snow Survey for March 1st
by Dan Schenck & Larry Alser

Little Cottonwood Watersl

Alta Central snow course
19 years of record elevation 8800'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling
2002	29.4	81	81	36	96%
2001	21.8	72	72	30	71%
2000	27.9	89	89	31	91%
1999	25.3	76	76	33	82%
1998	36.1	130	130	28	118%
1997	44.4	129	129	34	145%
1996	39	126	126	31	127%
1995	35.8	92	92	39	117%
1994	27.2	80	80	34	89%
1993	37.2	113	113	33	121%
1992	23.8	66	66	36	78%
1991	24.2	73	73	33	79%
1990	27.9	75	75	37	91%
1989	31	81	81	38	101%
1988	19.7	54.0	54.0	37.0	64%
1984	46.9	115.0	115.0	41.0	153%
average	30.7				

Little Cottonwood snowpack 101% of normal

Parleys Waters

Parleys Summit snow course
69 years of record elevation 7700'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling
2002	15.2	47	47	32	94%
2001	11.3	40	40	28	70%
2000	14.2	52	52	27	88%
1999	15.1	53	53	28	94%

1998	18.5	67	28	115%
1997	20.7	65	32	129%
1996	20.9	74	28	130%
1995	17	52	32	106%
1994	14	51	28	87%
1993	20.4	65	31	127%
1992	10.8	44	24	67%
1991	12.4	43	29	77%
1990	12.0	43	28	75%
1989	11.8	40	30	73%
1984	15.3	54	28	95%
1983	17.8	54	32	111%
1977	6.8	38	18	42%
1952	25.4	70	36	158%
average	16.1			

Parleys Snowpack

90% of normal

Emigration Watershed

Killyon snow course

17 years of record

elevation 6300'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling
2002	9	28	33	115%	26-Feb
2001	5.6	18	31	72%	
2000	5.9	22	27	76%	
1999	6.3	19	33	81%	
1998	11.1	48	23	142%	
1997	9.7	36	27	124%	
1996	12.3	37	33	158%	
1995	7.2	17	42	92%	
1994	8.5	30	29	109%	
1993	12.4	38	32	159%	
1992	3.4	10	36	44%	
1991	6.3	16	39	81%	
1990	4.8	13	36	62%	
1989	10.2	26	39	131%	
1988	6.1	18	33	78%	
1987	7.5	23	33	96%	
1986	5.5	12	45	71%	
average	7.8				

City Creek Watershed

Hidden Springs snow course

21 years of record

elevation 5500'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling
2002	7.2	20	35	120%	27-Feb
2001	6	19	32	100%	
2000	2.8	9	31	47%	
1999	4.2	13	32	70%	
1998	10.2	35	29	170%	
1997	4.8	17.5	28	80%	
1996	8.1	22	37	135%	
1995	3.4	8	41	57%	
1994	6	20	30	100%	
1993	11.8	37	32	197%	
1992	2.6	8	35	43%	
1991	4.7	13	37	78%	
1990	4.3	10	44	72%	
1989	8.5	24	35	142%	
1988	2.5	7	34	42%	
1984	8.9	23	38	148%	
1983	4.5	11	39	75%	
average	6				

Louis Meadow snow course

26 years of record

elevation 6700'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling
2002	17.1	50	34	95%	27-Feb
2001	14.8	48	31	82%	
2000	18.5	58	32	103%	
1999	15.7	50	31	87%	
1998	25.5	82	31	142%	
1997	23.4	71	33	130%	
1996	20.9	57	36	116%	
1995	18.8	47	40	104%	
1994	17.2	61	28	96%	
1993	21.6	68	32	120%	

1992	10.8	37	29	60%
1991	15.4	51	30	86%
1990	11.1	36	31	62%
1989	20.3	50	41	113%
1988	9.2	28	33	51%
1987	11.3	39	29	63%
1986	16.8	42	40	93%
1985	21.2	63	34	118%
average	18			

City Creek Lakes snow course

18 years of record

elevation 7550'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling
2002	21.9	62	35	96%	27-Feb
2001	17.9	59	30	78%	
2000	22.8	72	32	100%	
1999	19.8	60	33	86%	
1998	29.4	94	32	128%	
1997	32.4	91	35	141%	
1996	29	83	35	127%	
1995	24.1	63	38	105%	
1994	21	72	29	92%	
1993	27.5	82	33	120%	
1992	13.9	47	30	61%	
1991	21.1	70	30	92%	
1990	17.1	50	35	75%	
1989	24.9	65	38	109%	
1988	13.0	41.0	31.0	57%	
1984	33.4	90.8	37.0	146%	
average	22.9				

City Creek snowpack

103.5% of normal

Snowpack p

above 7500 feet :

7500 feet and lower :

Total Wasatch Front:

Narrative:

Due to a very low precipitation month and the excessive cold that we have been experiencing, our snowpack for the Wasatch Front dropped 12% of normal to 98%. The lower elevational stations are showing a large percent of normal due to such cold weather that is retaining this shallow snow.

melting. With March yet to come and a very stagnant high pressure looming for the first part it looks like a slightly below normal runoff can be expected for 2002. I anticipate the runoff will be very late in the normal sequence due to the unusually low temperatures that have been seen will be keeping densities low through snowmelt. March usually brings some maritime climate precipitation with it in which influences data dramatically if we miss it or get it. My guess is that wet storms toward the end of the month of March to bring us back to or exceed normal come

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es/snow_survey.htm

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Snowbird						
26 years of record						
elevation 9160'						
year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling	
2002	31.5	96	33	106%	26-Feb	
2001	22.4	79	28	75%		
2000	30.1	100	30	101%		
1999	27.3	81	34	92%		
1998	32	116	28	107%		
1997	45.5			153%		
1996	41.5	135	31	139%		
1995	39.8	109	36	134%		
1994	25.2	88	29	85%		
1992	19.6	70	28	66%		
1991	22.0	69	32	74%		
1990	30.6	95	32	103%		
1989	30.0	85	35	101%		
1988	19.2	59	33	64%		
1984	39.6	107	37	133%		
1983	31.4	101	31	105%		
1977	11.4	50	23	38%		
average	29.8					

hed

Lambs snow course						
31 years of record						
elevation 7600'						
year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling	
2002	12.1	40	30	85%	28-Feb	
2001	10.6	38	28	74%		
2000	14.5	51	28	101%		
1999	15	52	29	105%		

1998	17.1	62	28	120%
1997	20.2	64	32	141%
1996	18.4	67	27	129%
1995	15.2	45	34	106%
1994	13.2	47	28	92%
1993	18.2	59	31	127%
1992	8.8	35	25	62%
1991	11.2	37	31	78%
1990	11.5	40	29	80%
1989	15.4	46	33	108%
1988	11.0	37	30	77%
1984	20.0	58	35	140%
1983	13.9	47	29	97%
1977	5.9	34	17	41%
average	14.3			

Millcreek Watershed

Millcreek snow course

29 years of record

elevation 7000'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal	date of sampling
2002	15.5	46	34	95%	28-Feb
2001	12.6	43	29	77%	
2000	16.4	57	29	100%	
1999	15.6	55	28	95%	
1998	21.2	76	28	129%	
1997	21.8	70	31	133%	
1996	19.2	65	30	117%	
1995	19.9	58	34	121%	
1994	16.1	55	29	98%	
1993	21.7	71	31	132%	
1992	10.6	41	26	65%	
1991	13.2	44	30	80%	
1990	13.4	46	29	82%	
1989	17.4	50	35	106%	
1988	11.4	40	29	70%	
1984	21.9	66	33	134%	
1983	17.7	58	31	108%	
average	16.4				

Big Cottonwood Watershed

Brighton Cabin snow course
81 years of record

elevation 8700'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal
2002	20.6	61	34	91.6%
2001	17.4	61	29	77.3%
2000	20	67	30	88.9%
1999	21.4	69	31	95.1%
1998	25.4	88	29	112.9%
1997	34.2	108	32	152.0%
1996	27.7	89	31	123.1%
1995	23.7	67	36	105.3%
1994	20	67	30	88.9%
1993	30	105	29	133.3%
1992	15.4	47	32	68.4%
1991	13.9	49	28	61.8%
1988	12.9	41	31	57.3%
1984	28.1	76	37	124.9%
1983	26.8	82	33	119.1%
1977	8.4	38	38	37.3%
1952	32.0			142.2%
average	22.5			

Silver Lake snow course

68 years of record

elevation 8700'

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal
2002	18.5	57	33	89.4%
2001	17	59	29	82.1%
2000	18	66	27	87.0%
1999	20.3	63	32	98.1%
1998	26	87	30	125.6%
1997	32.9	96	34	158.9%
1996	25.4	79	32	122.7%
1995	23.6	67	35	114.0%
1994	18.2	59	31	87.9%
1993	25.9	88	29	125.1%

1992	13.1	49	27	63.3%
1991	14.9	48	31	72.0%
1990	18.8	57	33	90.8%
1988	12.4	39	32	59.9%
1984	25.0	67	37	120.8%
1983	23.0	67	34	111.1%
1977	5.9	36	16	28.5%
1952	30.6	88	35	147.8%
average	20.7			

Mill D snow course

67 years of record

elevation 7400

year	water content (inches)	snow depth (inches)	density (percent)	percent of normal
2002	16.2	54	30	98.2%
2001	11.5	41	28	69.7%
2000	16.4	58	28	99.4%
1999	14.8	48	31	89.7%
1998	19.3	76	25	117.0%
1997	23.2	76	30	140.6%
1996	22.1	78	28	133.9%
1995	15.5	46	34	93.9%
1994	16	53	30	97.0%
1993	18.7	66	28	113.3%
1992	9.8	40	24	59.4%
1991	12.8	43	30	77.6%
1988	10.8	36	30	65.5%
1984	22.9	63	36	138.8%
1983	18.4	59	31	111.5%
1977	13	6	19	78.8%
average	16.5			

Big Cottonwood Snowpack

93.0% of normal

percent of normal

93.9%

104.6%

98.3%

experiencing,
bands are
snowpack from

of the month,
ill be timed
all winter which
;
at we will get some very
my April 1st Snow Survey's.

date of
sampling
1-Mar

00'

date of
sampling
1-Mar

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date of
sampling
1-Mar

