

2004

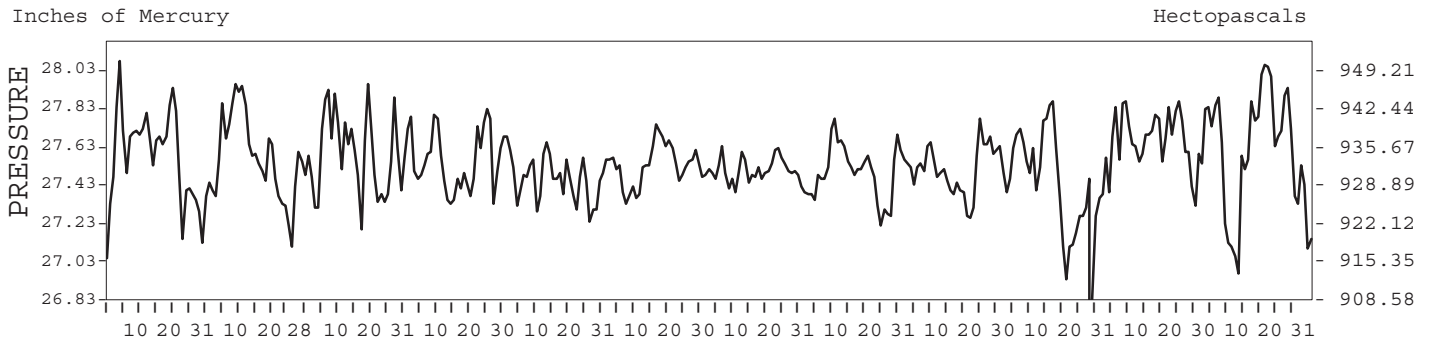
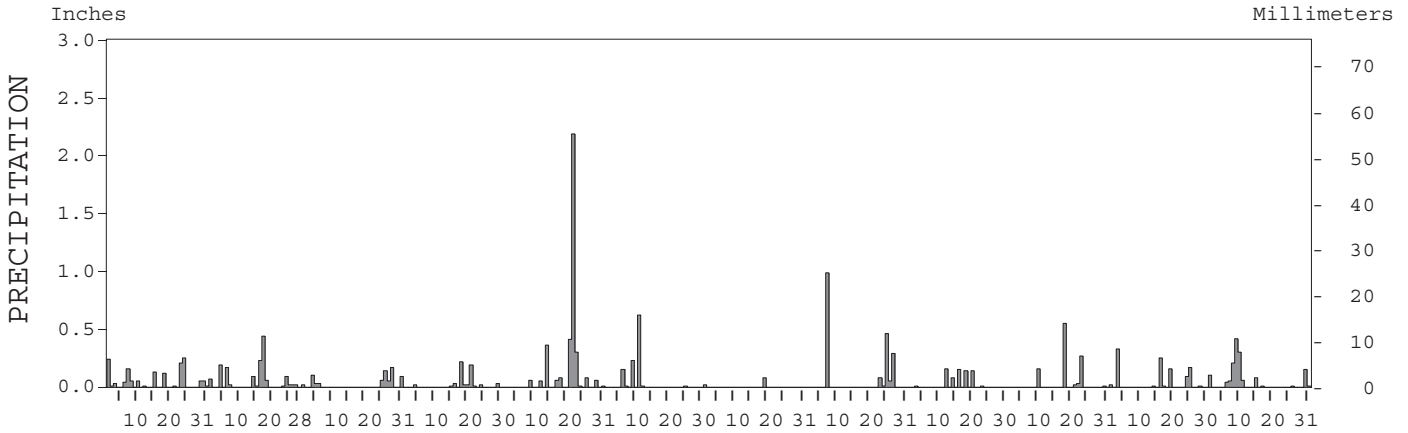
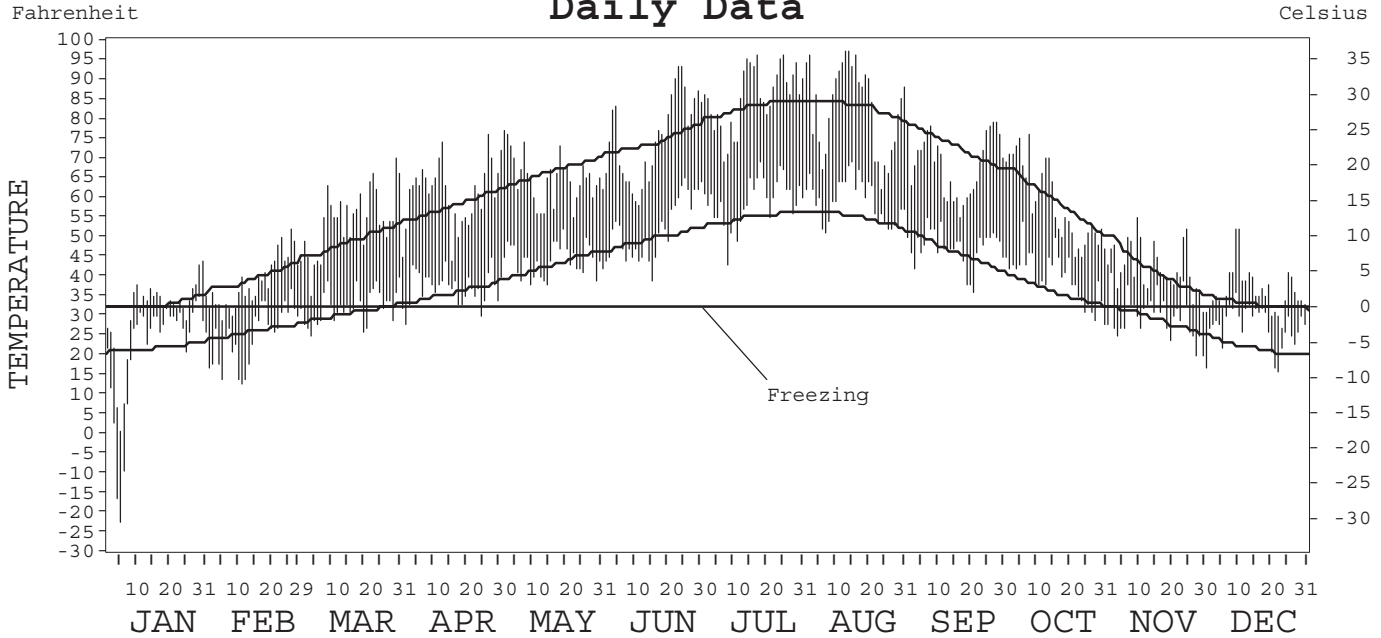
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5485

SPOKANE
WASHINGTON (GEG)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2004

SPOKANE, WA (GEG)

LATITUDE: 47° 37' 17" N LONGITUDE: 117° 31' 40" W ELEVATION (FT): GRND: 2381 BARO: 2384 TIME ZONE: PACIFIC (UTC + 8) WBAN: 24157

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	30.5	38.8	54.1	61.7	64.9	75.2	85.5	82.7	68.6	58.7	42.4	36.4	58.3	
	HIGHEST DAILY MAXIMUM	44	52	70	76	77	93	96	97	79	76	55	52	97	
	DATE OF OCCURRENCE	30	26	29	26	01	24+	25+	14+	28+	08	10	11+	AUG 14+	
	MEAN DAILY MINIMUM	21.9	25.3	32.4	37.4	44.2	52.0	59.0	59.2	47.4	39.9	30.0	27.4	39.7	
	LOWEST DAILY MINIMUM	-22	13	25	28	38	39	43	51	36	28	20	16	-22	
	DATE OF OCCURRENCE	05	11	03	01	14+	15	08	07	21	31	30+	23	JAN 05	
	AVERAGE DRY BULB	26.2	32.1	43.3	49.6	54.6	63.6	72.3	71.0	58.0	49.3	36.2	31.9	49.0	
	MEAN WET BULB	26.2	30.8	37.4	42.6	47.4	53.9	57.7	58.7	50.8		34.6	31.2		
	MEAN DEW POINT	24.5	28.5	29.9	34.6	40.4	45.4	45.8	50.1	44.1		32.3	29.4		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	3	11	11	0	0	0	0	0	25
	MAXIMUM ≤ 32°	13	5	0	0	0	0	0	0	0	0	1	7	26	
	MINIMUM ≤ 32°	29	25	16	2	0	0	0	0	0	4	20	28	124	
MINIMUM ≤ 0°	3	0	0	0	0	0	0	0	0	0	0	0	3		
H/C	HEATING DEGREE DAYS	1193	945	668	455	315	131	16	34	204	480	857	1020	6318	
	COOLING DEGREE DAYS	0	0	0	0	0	96	249	225	1	0	0	0	571	
RH	MEAN (PERCENT)	90	87	63	61	63	55	41	53	64	72	86	89	69	
	HOUR 04 LST	92	92	78	80	82	73	62	69	80	86	92	90	81	
	HOUR 10 LST	91	89	58	54	56	51	38	53	62	71	86	90	67	
	HOUR 16 LST	87	75	43	40	46	37	25	36	45	54	77	87	54	
	HOUR 22 LST	91	90	66	66	68	58	41	55	66	74	89	89	71	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	17	16	2	0	0	0	0	0	1	1	10	10	57	
	THUNDERSTORMS	0	0	0	1	3	4	0	2	0	0	0	0	10	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	27.56	27.56	27.58	27.55	27.45	27.52	27.49	27.49	27.49		27.67	27.56		
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	30.10	30.08	30.03		29.97	29.91	29.92	29.95			30.10		
WINDS	RESULTANT SPEED (MPH)	2.5	1.8	6.1	3.4	5.7	0.7	1.8	3.7	4.1		2.7	2.1		
	RES. DIR. (TENS OF DEGS.)	19	10	21	18	21	15	23	19	20		19	16		
	MEAN SPEED (MPH)	8.1	5.4	11.1	8.1	9.8	8.4	8.4	8.8	8.1	8.6	7.0	7.7	8.3	
	PREVAIL. DIR. (TENS OF DEGS.)	04	05	23	15	21	21	21	22	16	21	20	05	21	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	43	22	46	37	33	30	28	46	30	32	33	32	46	
	DIR. (TENS OF DEGS.)	22	22	23	26	23	01	26	21	25	25	22	22	21	
	DATE OF OCCURRENCE	30	17+	18	23	08	25+	07	02	01	30	25+	11	AUG 02	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	49	25	54	44	38	36	35	54	36	38	40	39	54	
DIR. (TENS OF DEGS.)	22	22	23	26	24	23	27	20	24	27	22	22	20		
DATE OF OCCURRENCE	30	16	18	23	04	05	07	02	11+	30	24	11	AUG 02		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.42	1.46	0.67	0.57	3.67	1.05	0.08	1.88	0.69	1.06	1.13	1.34	15.02	
	GREATEST 24-HOUR (IN.)	0.35	0.50	0.19	0.22	2.19	0.63	0.08	0.99	0.16	0.55	0.33	0.50	2.19	
	DATE OF OCCURRENCE	23-24	17-18	25-26	17	21	10-11	18	06	11	17	02	07-08	MAY 21	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	16	15	8	10	12	7	1	6	7	7	9	11	109		
PRECIPITATION ≥ 0.10	6	4	3	2	4	3	0	3	4	3	5	4	41		
PRECIPITATION ≥ 1.00	0	0	0	0	1	0	0	0	0	0	0	0	1		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	20.3	8.7	2.7	T	0.4	0.0	0.0	0.0	0.0	T	1.5	6.5	40.1	
	GREATEST 24-HOUR (IN.)	5.5	2.7	2.1	T	0.4	0.0	0.0	0.0	0.0	T	1.4	2.3	5.5	
	DATE OF OCCURRENCE	01	04	03	17	21					31	30	05	JAN 01	
	MAXIMUM SNOW DEPTH (IN.)	10	4	2	0	0	0	0	0	0	0	T	4	10	
	DATE OF OCCURRENCE	24	08+	04							30	07		JAN 24	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	7	4	1	0	0	0	0	0	0	0	1	4	17		

NORMALS, MEANS, AND EXTREMES

SPOKANE, WA (GEG)

LATITUDE: 47° 37' 17" N LONGITUDE: 117° 31' 40" W ELEVATION (FT): GRND: 2381 BARO: 2384 TIME ZONE: PACIFIC (UTC + 8) WBAN: 24157

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	32.8	39.3	48.6	57.5	66.2	73.9	82.5	82.6	72.5	58.5	41.1	32.8	57.4
	MEAN DAILY MAXIMUM	57	32.2	39.0	47.4	57.2	66.2	74.1	83.4	82.3	72.6	58.3	41.7	33.4	57.3
	HIGHEST DAILY MAXIMUM	57	59	63	71	90	96	101	103	108	98	86	67	56	108
	YEAR OF OCCURRENCE		1971	1995	1960	1977	1986	1992	1998	1961	1988	1997	1999	1980	AUG 1961
	MEAN OF EXTREME MAXS.	57	46.1	51.2	61.9	73.5	84.2	90.3	96.8	96.0	88.6	75.1	55.7	47.4	72.2
	NORMAL DAILY MINIMUM	30	21.7	25.7	30.4	35.5	42.6	49.2	54.6	54.5	45.9	35.8	28.7	21.6	37.2
	MEAN DAILY MINIMUM	57	20.9	25.3	29.6	35.2	42.7	49.3	54.9	54.4	46.4	36.6	28.6	22.7	37.2
	LOWEST DAILY MINIMUM	57	-22	-24	-7	17	24	33	37	35	22	7	-21	-25	-25
	YEAR OF OCCURRENCE		2004	1996	1989	1966	2002	1984	1981	1965	2000	2002	1985	1968	DEC 1968
	MEAN OF EXTREME MINS.	57	0.1	7.7	16.5	25.6	31.1	38.9	44.3	43.7	33.6	23.5	13.5	3.1	23.5
	NORMAL DRY BULB	30	27.3	32.5	39.5	46.5	54.4	61.6	68.6	68.6	59.2	47.2	34.9	27.2	47.3
	MEAN DRY BULB	57	26.5	32.1	38.5	46.2	54.3	61.7	69.2	68.4	59.6	47.4	35.1	28.0	47.2
	MEAN WET BULB	20	27.9	29.8	35.7	40.9	46.8	52.2	56.1	52.4	49.4	41.1	33.2	26.9	41.0
	MEAN DEW POINT	20	25.5	26.1	29.9	33.6	38.7	43.4	44.9	41.7	39.9	34.3	30.5	24.6	34.4
NORMAL NO. DAYS WITH:															
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	*	0.3	1.5	7.8	7.5	1.0	0.0	0.0	0.0	18.1	
MAXIMUM ≤ 32°	30	13.2	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.3	13.8	37.4	
MINIMUM ≤ 32°	30	25.9	22.3	20.4	10.1	1.7	0.0	0.0	0.0	0.9	9.7	19.9	26.7	137.6	
MINIMUM ≤ 0°	30	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	4.7	
H/C	NORMAL HEATING DEG. DAYS	30	1169	916	790	557	338	149	44	42	196	554	897	1168	6820
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	11	46	155	154	26	1	0	0	394
RH	NORMAL (PERCENT)	30	86	81	72	63	60	56	48	46	54	67	84	88	67
	HOUR 04 LST	30	88	86	83	78	78	76	68	64	73	80	88	88	79
	HOUR 10 LST	30	86	81	70	58	54	50	43	44	52	66	84	87	65
	HOUR 16 LST	30	80	70	55	44	42	37	29	28	34	48	76	83	52
	HOUR 22 LST	30	86	82	75	66	64	60	50	47	57	69	86	88	69
S	PERCENT POSSIBLE SUNSHINE	48	28	41	55	61	65	67	80	78	72	55	29	23	54
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	57	9.6	7.0	3.0	1.2	0.8	0.5	0.2	0.3	0.8	3.8	8.4	8.3	43.9
	THUNDERSTORMS	57	0.0	0.0	0.3	0.7	1.6	2.8	2.4	2.1	0.9	0.3	0.1	0.0	11.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			7.2										
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
CLEAR	1		2.0	3.0		3.0	6.0								
PARTLY CLOUDY	1		3.0	2.0		3.0	1.0								
CLOUDY	1	4.0	3.0	10.0		10.0	4.0								
PR	MEAN STATION PRESSURE (IN)	30	27.57	27.55	27.47	27.49	27.48	27.49	27.52	27.51	27.55	27.58	27.53	27.58	27.53
	MEAN SEA-LEVEL PRES. (IN)	20	30.14	30.10	30.00	29.97	29.93	29.94	29.96	29.95	29.99	30.06	30.09	30.13	30.02
WINDS	MEAN SPEED (MPH)	42	8.5	9.0	9.7	10.0	9.3	9.3	8.7	8.2	8.1	8.2	8.6	8.3	8.8
	PREVAIL. DIR (TENS OF DEGS)	26	05	05	22	22	22	22	22	22	22	21	05	05	22
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	43	44	46	46	44	37	41	46	38	46	48	41	48
	DIR. (TENS OF DEGS)		22	21	23	25	26	25	25	21	26	23	23	22	23
	YEAR OF OCCURRENCE		2004	1999	2004	1997	1997	2000	1998	2004	1999	2003	2003	1998	NOV 2003
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	9	52	53	54	54	48	45	51	54	47	53	63	49	63
DIR. (TENS OF DEGS)		24	22	23	23	26	27	25	20	24	23	22	22	22	
YEAR OF OCCURRENCE		2000	1999	2004	2000	1997	2000	1998	2004	1999	2003	2003	1998	NOV 2003	
PRECIPITATION	NORMAL (IN)	30	1.82	1.51	1.53	1.28	1.60	1.18	0.76	0.68	0.76	1.06	2.24	2.25	16.67
	MAXIMUM MONTHLY (IN)	57	4.96	3.94	3.81	3.08	5.71	3.06	2.33	1.88	2.05	4.05	5.10	5.13	5.71
	YEAR OF OCCURRENCE		1959	1961	1995	1948	1948	1964	1990	2004	1959	1950	1973	1964	MAY 1948
	MINIMUM MONTHLY (IN)	57	0.38	0.35	0.31	0.08	0.20	0.16	T	T	T	0.03	0.22	0.60	T
	YEAR OF OCCURRENCE		1985	1988	1965	1956	1982	1960	1994	1988	1990	1987	1976	1976	JUL 1994
	MAXIMUM IN 24 HOURS (IN)	57	1.48	1.11	1.08	1.51	2.19	2.07	1.80	1.18	1.12	1.23	1.41	1.60	2.19
	YEAR OF OCCURRENCE		1954	1963	1995	2000	2004	1964	1990	2002	1973	1994	1960	1951	MAY 2004
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	13.1	11.1	11.1	9.3	10.1	7.9	5.4	4.6	5.4	7.0	13.0	13.3	111.3	
PRECIPITATION ≥ 1.00	30	*	0.0	0.0	*	0.0	0.1	*	0.0	0.1	0.0	0.1	*	0.3	
SNOWFALL	NORMAL (IN)	30	14.2	6.7	3.6	0.9	0.2	0.0	0.0	0.0	0.3	6.4	15.1	47.4	
	MAXIMUM MONTHLY (IN)	56	56.9	28.5	15.3	6.6	3.5	T	0.0	0.0	T	6.1	24.7	42.0	
	YEAR OF OCCURRENCE		1950	1975	1962	1964	1967	1994			1991	1957	1955	1964	JAN 1950
	MAXIMUM IN 24 HOURS (IN)	56	13.0	11.0	6.1	4.9	3.5	T	0.0	0.0	T	6.1	9.0	12.1	13.0
	YEAR OF OCCURRENCE		1950	1993	1989	1964	1967	1994			1991	1957	1973	1951	JAN 1950
	MAXIMUM SNOW DEPTH (IN)	55	39	42	16	2	0	0	0	0	0	4	12	23	42
	YEAR OF OCCURRENCE		1969	1969	1969	1990						1957	1985	1951	FEB 1969
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	4.4	2.8	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.2	2.0	4.6	15.2	

PRECIPITATION (inches) 2004 SPOKANE WA (GEG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	2.53	3.12	1.83	1.78	1.41	1.45	1.60	0.93	0.03	2.23	1.94	2.42	21.27
1976	1.28	2.04	0.83	0.97	1.24	0.78	0.79	1.83	0.05	0.59	0.22	0.60	11.22
1977	0.75	0.52	1.15	0.13	1.71	1.45	0.11	1.25	1.42	0.44	2.12	4.52	15.57
1978	2.53	1.64	0.77	2.62	2.81	1.22	1.76	1.71	0.93	0.13	2.02	1.05	19.19
1979	1.11	2.19	1.03	0.69	1.60	0.78	0.85	1.01	0.78	1.22	1.15	1.94	14.35
1980	1.96	1.90	0.91	1.06	2.34	0.99	0.21	0.79	0.84	0.64	1.67	3.72	17.03
1981	1.00	1.41	1.57	0.85	2.02	1.92	0.51	0.04	0.59	1.53	0.96	2.51	14.91
1982	1.61	1.67	1.49	2.23	0.20	0.85	1.05	0.25	1.77	1.48	1.86	2.79	17.25
1983	1.89	2.07	2.20	0.61	0.92	2.84	1.85	0.96	0.79	1.33	4.80	2.38	22.64
1984	0.99	1.37	1.80	1.75	2.01	1.89	0.07	0.27	0.56	0.76	4.26	2.28	18.01
1985	0.38	0.93	1.39	0.28	1.13	0.67	0.26	0.19	1.64	1.40	2.23	0.71	11.21
1986	3.08	2.02	1.58	1.33	1.08	0.48	0.44	0.15	1.65	0.46	2.25	1.03	15.55
1987	1.59	0.88	2.18	1.12	0.90	0.59	2.27	1.81	0.01	0.03	1.37	4.93	17.68
1988	1.76	0.35	1.57	2.15	1.50	1.12	0.23	T	1.63	0.11	4.35	1.75	16.52
1989	0.82	1.34	2.87	0.72	2.17	0.41	0.40	1.61	0.18	1.58	1.66	0.95	14.71
1990	2.45	1.01	0.85	1.34	3.11	1.91	2.33	1.03	T	3.05	0.84	1.69	19.61
1991	1.72	0.81	2.31	1.35	1.72	1.13	0.58	0.17	0.01	0.34	3.08	1.23	14.45
1992	2.12	1.76	0.43	0.65	0.28	1.51	1.09	0.33	0.36	0.81	3.02	2.16	14.52
1993	1.40	0.86	1.13	1.90	1.36	0.48	2.08	1.24	0.28	0.42	0.68	1.80	13.63
1994	1.43	0.83	0.49	1.64	1.37	0.90	T	0.10	0.45	2.79	2.24	1.57	13.81
1995	2.74	1.60	3.81	0.93	1.33	2.17	1.08	0.63	0.66	1.50	0.77	2.63	19.85
1996	2.44	2.95	1.61	2.15	1.78	1.19	0.34	0.80	0.79	3.27	4.04	4.10	25.46
1997	1.67	1.40	2.40	2.56	2.27	0.63	0.80	0.14	0.92	1.67	1.99	1.00	17.45
1998	2.08	1.59	1.21	0.89	3.09	0.84	0.26	0.27	0.21	0.27	3.78	3.28	17.77
1999	1.89	3.27	0.69	0.44	0.73	1.36	0.13	1.07	T	0.89	2.06	2.26	14.79
2000	1.96	1.61	1.64	2.16	2.22	0.91	0.35	T	1.12	0.64	1.13	0.93	14.67
2001	0.63	0.66	1.37	1.71	0.79	1.10	0.28	0.26	0.17	2.10	2.61	2.03	13.71
2002	1.15	1.04	1.02	0.88	1.10	1.50	0.25	1.24	0.55	0.18	1.65	3.27	13.83
2003	3.40	0.52	2.13	1.41	1.49	0.22	T	0.44	0.58	0.51	1.57	2.14	14.41
2004	1.42	1.46	0.67	0.57	3.67	1.05	0.08	1.88	0.69	1.06	1.13	1.34	15.02
POR= 123 YRS	2.06	1.58	1.39	1.14	1.42	1.27	0.50	0.62	0.78	1.22	2.04	2.22	16.24

WBAN : 24157

AVERAGE TEMPERATURE (°F) 2004 SPOKANE WA (GEG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	23.6	24.7	34.0	41.7	52.7	59.2	72.4	64.1	61.0	46.9	33.8	30.9	45.4
1976	29.6	32.1	35.1	45.2	54.5	58.5	68.8	65.4	63.4	46.8	35.8	29.6	47.1
1977	22.0	35.1	38.2	50.9	51.6	65.0	67.0	71.2	55.1	46.5	34.0	26.2	46.9
1978	27.6	34.0	42.2	45.7	51.4	62.7	68.3	65.9	56.6	46.6	28.7	19.0	45.7
1979	10.5	28.8	40.4	45.5	54.7	62.7	70.4	70.0	63.1	51.1	30.5	35.2	46.9
1980	20.7	34.5	38.6	51.7	55.8	57.8	69.2	64.1	58.4	47.4	36.3	33.2	47.3
1981	32.8	33.9	40.9	45.7	52.0	57.0	65.1	71.5	59.7	45.9	39.9	29.7	47.8
1982	26.0	32.1	40.3	43.5	54.2	66.5	67.6	69.8	59.5	46.1	31.7	27.3	47.1
1983	35.8	38.1	43.0	46.3	57.1	61.9	65.5	72.3	57.1	49.7	39.3	16.2	48.5
1984	30.5	34.5	41.7	44.0	50.1	59.2	69.1	70.1	56.7	43.4	35.8	20.4	46.3
1985	21.4	24.9	35.9	48.0	56.2	61.8	75.0	64.9	53.3	44.7	19.5	19.3	43.7
1986	30.1	31.6	42.8	44.9	55.3	66.2	64.0	72.6	54.8	49.0	34.8	26.3	47.7
1987	26.5	35.1	41.8	51.1	57.2	65.1	66.6	66.2	62.8	49.5	38.1	25.9	48.8
1988	24.7	35.4	39.7	48.9	54.6	61.1	68.7	68.4	58.9	53.3	36.3	27.0	48.1
1989	28.8	21.8	36.6	48.9	53.1	64.3	68.7	64.8	60.1	47.0	38.0	31.0	46.9
1990	33.4	30.2	40.9	49.7	52.8	60.7	70.4	68.5	65.3	45.1	39.0	21.1	48.1
1991	25.7	39.2	36.8	45.8	51.6	56.6	68.7	70.2	61.8	46.2	34.2	32.8	47.5
1992	31.8	38.9	45.5	48.8	58.9	68.0	67.8	69.6	57.4	49.5	34.3	22.9	49.5
1993	21.9	25.4	37.8	45.5	59.8	60.2	60.2	64.2	58.7	50.0	29.4	30.9	45.3
1994	35.6	29.1	41.8	49.1	56.7	60.8	73.0	69.4	63.4	46.8	32.4	30.3	49.0
1995	31.0	37.3	39.9	45.5	56.8	60.1	67.9	63.9	61.2	43.9	40.2	28.6	48.0
1996	25.4	28.7	36.4	46.3	49.6	60.5	70.0	68.1	56.0	45.3	33.2	24.8	45.4
1997	28.4	31.7	39.2	43.3	56.7	59.9	67.6	71.0	61.9	47.3	38.6	29.3	47.9
1998	30.7	38.1	41.5	48.0	56.1	62.5	75.3	71.7	65.1	46.5	39.9	28.6	50.3
1999	32.2	34.9	39.9	44.9	50.6	59.9	66.2	70.3	59.1	47.4	41.4	31.6	48.2
2000	27.9	33.5	39.0	48.2	53.0	61.0	67.9	67.6	55.8	46.3	26.9	24.7	46.0
2001	27.2	26.8	39.2	43.7	55.4	58.7	68.4	71.1	63.3	45.9	39.9	28.1	47.3
2002	30.6	31.4	34.4	45.4	51.5	62.3	71.4	66.4	58.5	42.9	36.8	33.8	47.1
2003	33.9	33.1	40.8	45.2	53.4	63.6	73.0	70.3	61.9	51.4	29.5	29.8	48.8
2004	26.2	32.1	43.3	49.6	54.6	63.6	72.3	71.0	58.0	49.3	36.2	31.9	49.0
POR= 123 YRS	27.0	31.9	39.5	47.6	55.6	62.4	69.3	68.6	59.5	48.5	36.3	29.7	48.0

HEATING DEGREE DAYS (base 65°F) 2004 SPOKANE WA (GEG)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	22	75	136	554	933	1048	1091	946	922	588	317	213	6845
1976-77	20	71	74	556	871	1089	1324	832	824	436	409	66	6572
1977-78	57	56	289	563	921	1197	1154	862	701	576	412	101	6889
1978-79	37	97	252	562	1083	1424	1684	1011	756	577	313	134	7930
1979-80	41	4	91	423	1029	918	1365	880	809	392	283	211	6446
1980-81	19	77	195	543	854	977	992	867	741	570	395	243	6473
1981-82	73	7	209	584	747	1088	1202	912	761	639	328	76	6626
1982-83	62	17	193	582	996	1163	897	747	672	558	285	113	6285
1983-84	55	2	230	468	765	1508	1065	880	715	621	460	194	6963
1984-85	21	18	264	662	870	1381	1345	1117	895	501	280	128	7482
1985-86	0	64	343	622	1363	1409	1076	927	680	595	357	67	7503
1986-87	81	4	311	488	902	1193	1186	831	710	417	253	86	6462
1987-88	51	50	116	474	799	1206	1240	850	775	477	330	173	6541
1988-89	47	16	240	361	856	1171	1113	1205	873	473	364	65	6784
1989-90	22	76	149	554	805	1048	976	968	739	454	373	166	6330
1990-91	37	42	54	610	774	1356	1212	716	866	568	406	248	6889
1991-92	15	16	108	574	918	992	1024	750	598	477	206	61	5739
1992-93	32	60	232	481	916	1297	1331	1102	834	578	192	165	7220
1993-94	151	83	217	457	1063	1051	904	998	713	469	262	160	6528
1994-95	26	13	81	558	970	1071	1045	771	771	578	262	170	6316
1995-96	21	88	146	648	742	1120	1217	1045	880	556	471	143	7077
1996-97	35	49	281	603	949	1241	1130	928	794	642	264	154	7070
1997-98	35	15	116	549	785	1098	1058	747	721	505	276	90	5995
1998-99	0	20	101	565	748	1119	1010	836	769	594	448	186	6396
1999-00	75	36	181	540	703	1030	1143	908	799	496	363	142	6416
2000-01	51	43	285	572	1134	1245	1168	1060	795	634	320	201	7508
2001-02	33	20	100	588	744	1136	1063	934	938	581	412	137	6686
2002-03	28	26	219	678	839	962	957	885	745	588	365	90	6382
2003-04	9	1	151	418	1056	1083	1193	945	668	455	315	131	6425
2004-	16	34	204	480	857	1020							

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COOLING DEGREE DAYS (base 65°F) 2004 SPOKANE WA (GEG)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	0	7	256	57	20	0	0	0	340
1976	0	0	0	0	0	24	143	93	33	0	0	0	293
1977	0	0	0	18	2	72	126	254	0	0	0	0	472
1978	0	0	0	0	0	42	144	131	9	0	0	0	326
1979	0	0	0	0	1	73	217	166	39	0	0	0	496
1980	0	0	0	1	3	2	156	56	6	3	0	0	227
1981	0	0	0	0	0	9	82	213	60	0	0	0	364
1982	0	0	0	0	2	128	148	171	32	0	0	0	481
1983	0	0	0	0	46	26	77	235	1	0	0	0	385
1984	0	0	0	0	3	28	155	181	23	1	0	0	391
1985	0	0	0	0	15	36	317	68	0	0	0	0	436
1986	0	0	0	0	65	109	57	247	8	0	0	0	486
1987	0	0	0	8	20	94	110	97	53	1	0	0	383
1988	0	0	0	0	12	63	169	128	67	0	0	0	439
1989	0	0	0	0	0	49	145	78	9	0	0	0	281
1990	0	0	0	0	0	42	213	157	68	0	0	0	480
1991	0	0	0	0	0	0	139	187	20	0	0	0	346
1992	0	0	0	0	25	159	124	209	11	8	0	0	536
1993	0	0	0	0	36	27	11	64	34	0	0	0	172
1994	0	0	0	0	9	37	280	159	43	0	0	0	528
1995	0	0	0	0	14	29	119	59	38	0	0	0	259
1996	0	0	0	0	0	16	198	150	17	0	0	0	381
1997	0	0	0	0	14	9	122	209	30	6	0	0	390
1998	0	0	0	0	6	22	325	234	110	0	0	0	697
1999	0	0	0	0	7	41	118	210	14	0	0	0	390
2000	0	0	0	0	0	29	146	129	16	0	0	0	320
2001	0	0	0	0	29	19	146	213	54	0	0	0	461
2002	0	0	0	0	0	63	231	81	30	0	0	0	405
2003	0	0	0	0	12	58	266	174	66	2	0	0	578
2004	0	0	0	0	0	96	249	225	1	0	0	0	571

SNOWFALL (inches) 2004 SPOKANE WA (GEG)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.0	3.9	11.4	6.9	15.3	6.3	4.6	0.4	0.0	0.0	48.8
1976-77	0.0	0.0	0.0	0.0	0.1	4.2	6.8	2.5	2.7	T	T	0.0	16.3
1977-78	0.0	0.0	0.0	0.0	11.2	30.3	19.1	6.6	2.2	T	T	0.0	69.4
1978-79	0.0	0.0	0.0	0.0	15.4	14.8	16.5	10.6	3.4	T	T	0.0	60.7
1979-80	0.0	0.0	0.0	0.0	3.9	10.4	16.6	5.9	1.1	0.4	0.0	0.0	38.3
1980-81	0.0	0.0	0.0	0.0	1.2	6.8	2.6	3.3	T	T	0.3	0.0	14.2
1981-82	0.0	0.0	0.0	T	0.8	13.0	23.3	2.2	2.1	6.0	T	0.0	47.4
1982-83	0.0	0.0	0.0	T	5.4	17.4	8.1	5.5	T	0.2	T	0.0	36.6
1983-84	0.0	0.0	0.0	0.0	5.7	24.8	5.3	8.0	1.9	1.3	0.8	0.0	47.8
1984-85	0.0	0.0	0.0	1.1	12.0	24.7	4.6	14.8	9.6	T	T	0.0	66.8
1985-86	0.0	0.0	0.0	0.4	23.7	8.3	14.7	13.8	T	0.2	T	0.0	61.1
1986-87	0.0	0.0	0.0	0.0	5.0	7.9	11.7	1.1	T	T	T	0.0	25.7
1987-88	0.0	0.0	0.0	0.0	1.5	20.3	9.1	1.2	1.6	T	T	0.0	33.7
1988-89	0.0	0.0	0.0	0.0	10.9	16.3	10.5	19.0	9.4	T	T	0.0	66.1
1989-90	0.0	0.0	0.0	T	5.2	1.1	10.3	18.0	2.6	3.5	T	0.0	40.7
1990-91	0.0	0.0	0.0	0.0	1.2	14.3	15.9	1.1	9.5	0.2	0.0	0.0	42.2
1991-92	0.0	0.0	T	0.8	4.9	2.4	9.0	1.4	0.0	T	0.0	0.0	18.5
1992-93	0.0	0.0	0.0	0.0	11.1	40.2	18.8	15.1	2.1	T	T	T	87.3
1993-94	0.0	0.0	0.0	T	3.7	6.4	0.9	8.2	0.5	T	0.0	T	19.7
1994-95	0.0	0.0	0.0	0.8	13.7	6.3	3.9	4.4	0.7	T	0.0	0.0	29.8
1995-96	0.0	0.0	0.0				22.7						
1996-97						6.4	8.5	1.6	1.8	T	0.0	0.0	
1997-98				T	0.8	11.2	8.7	14.7	3.8	2.7	0.6	0.0	42.5
1998-99	0.0	0.0	0.0	0.0	2.1	9.7	21.3	6.7	1.1	T	0.3		
1999-00	0.0	0.0	0.0	T	10.9	15.1	9.6	8.3	2.2	2.5	0.0	0.0	48.6
2000-01	0.0	0.0	0.0	0.7	12.5	21.9	9.6	6.7	11.7	T	0.9	0.0	64.0
2001-02	0.0	0.0	0.0	T	0.0	11.3	6.8	0.4	2.0	0.7	T	T	21.2
2002-03	0.0	0.0	0.0	0.0	15.4	7.2	20.3	8.7	2.7	T	0.4	0.0	54.7
2003-04	0.0	0.0	0.0	T	1.5	6.5							
2004-	0.0	0.0	0.0	T									
POR= 55 YRS	0.0	0.0	T	0.4	6.4	14.3	15.2	7.3	3.8	0.6	0.1	T	48.1

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REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2004 SPOKANE WASHINGTON (GEG)

Spokane lies on the eastern edge of the broad Columbia Basin area of Washington which is bounded by the Cascade Range on the west and the Rocky Mountains on the east. The elevations in eastern Washington vary from less than 400 feet above sea level near Pasco where the Columbia River flows out of Washington to over 5,000 feet in the mountain areas of the extreme eastern edge of the State. Spokane is located on the upper plateau area where the long gradual slope from the Columbia River meets the sharp rise of the Rocky Mountain Ranges.

Much of the urban area of Spokane lies along both sides of the Spokane River at an elevation of approximately 2,000 feet, but the residential areas have spread to the crests of the plateaus on either side of the river with elevations up to 2,500 feet above sea level. Spokane International Airport is situated on the plateau area 6 miles west-southwest and some 400 feet higher than the downtown business district.

The climate of Spokane combines some of the characteristics of damp coastal type weather and arid interior conditions. Most of the air masses which reach Spokane are brought in by the prevailing westerly and southwesterly circulations. Frequently, much of the moisture in the storms that move eastward and southeastward from the Gulf of Alaska and the eastern Pacific Ocean is precipitated out as the storms are lifted across the Coast and Cascade Ranges. Annual precipitation totals in the Spokane area are generally less than 20 inches and less than 50 percent of the amounts received west of the Cascades. However, the precipitation and total cloudiness in the Spokane vicinity is greater than that of the desert areas of south-central Washington. The lifting action of the air masses as they move up the east slope of the Columbia Basin frequently produces the cooling and condensation necessary for formation of clouds and precipitation.

Infrequently, the Spokane area comes under the influence of dry continental air masses from the north or east. On occasions when these air masses penetrate into eastern Washington the result is high temperatures and very low humidity in the summer and sub-zero temperatures in the winter. In the winter most of the severe arctic outbursts of cold air move southward on the east side of the Continental Divide and do not affect Spokane.

In general, Spokane weather has the characteristics of a mild, arid climate during the summer months and a cold, coastal type in the winter. Approximately 70 percent of the total annual precipitation falls between the first of October and the end of March and about half of that falls as snow. The growing season usually extends over nearly six months from mid-April to mid-October. Irrigation is required for all crops except dry-land type grains. The summer weather is ideal for full enjoyment of the many mountain and lake recreational areas in the immediate vicinity. Winter weather includes many cloudy or foggy days and below freezing temperatures with occasional snowfall of several inches in depth. Sub-zero temperatures and traffic-stopping snowfalls are infrequent.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 6 and the average last occurrence in the spring is May 4.

STATION LOCATION

SPOKANE WASHINGTON

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						SEA LEVEL		GROUND									
						GROUND	SEA LEVEL	WIND INSTRUMENT	EXTREME THERMOMETER S	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE	8 INCH RAIN GAUGE		
*NOTE: <u>AIRPORT</u> Geiger Field (6 mi. SW of city center) + + Spokane International Airport eff. 5/5/60	12/8/47	5/17/65	10.5 mi. SW	47°37'	117°31'	2357h 2356	29e 34f 20	7	5	25	3	5	3	g4	e. Effective 7/18/57. f. Moved to field site 11/25/57. g. Commissioned near center of runway complex 8/1/59. h. Effective 5/17/65. i. Not moved 5/17/65. j. Moved to roof 3/1/77.		
Terminal Building Spokane Int'l AP	5/17/65	11/15/79	0.7 mi. NW	47°38'	117°32'	2356	i20	6	5	7j 33	5	5	5	i4	k. Not moved 11/15/79.		
NWS Building International Airport	11/15/79	09/01/95	0.25 mi. NW	47°38'	117°32'	2357	k20	6	5	6	5	5	5	k4	k. Not moved 11/15/79.		
International Airport	09/01/95	Present	NA	47°37'	117°32'	12381								S	ASOS Commissioned 09/01/95. l. Ground elevation.		

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* NOTES: For earlier station history see previous editions.