

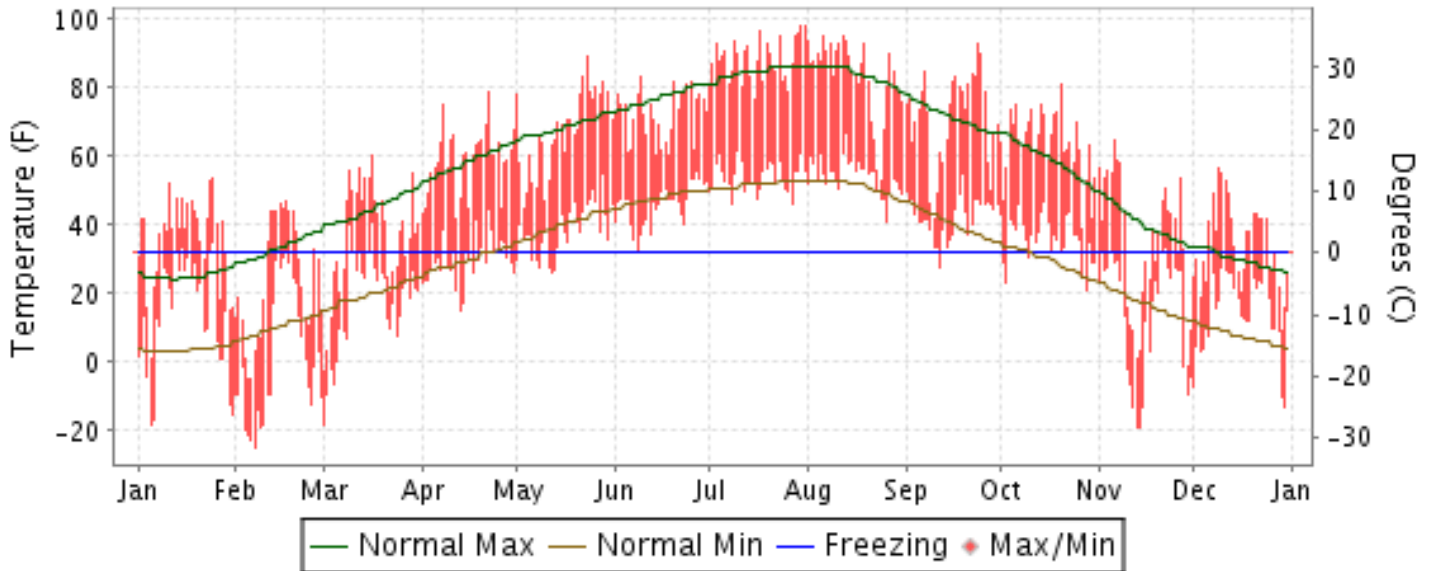


2014 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

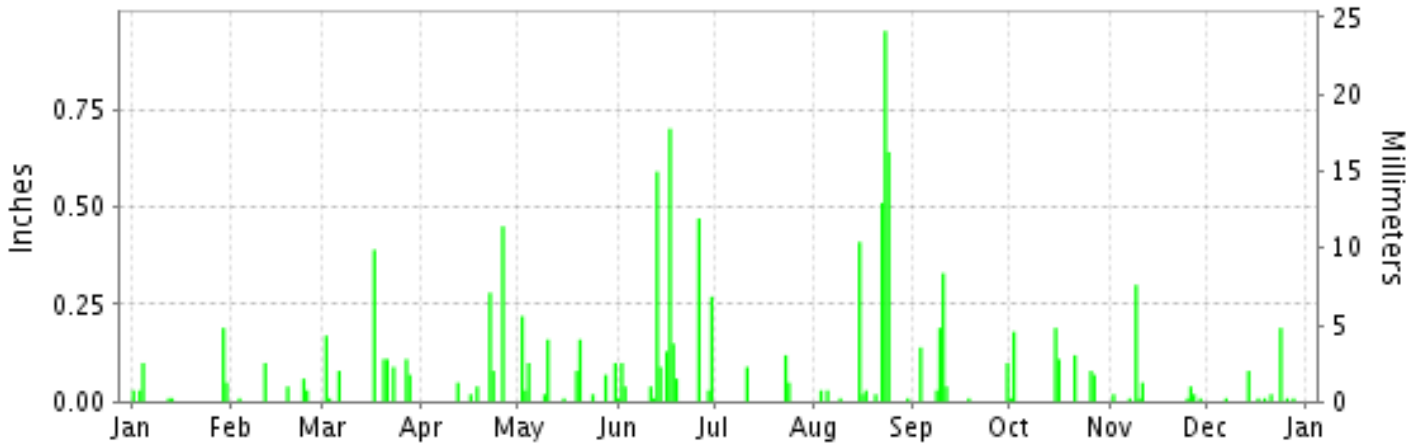
ISSN 0198-3008

HAVRE, MONTANA (KHVR)

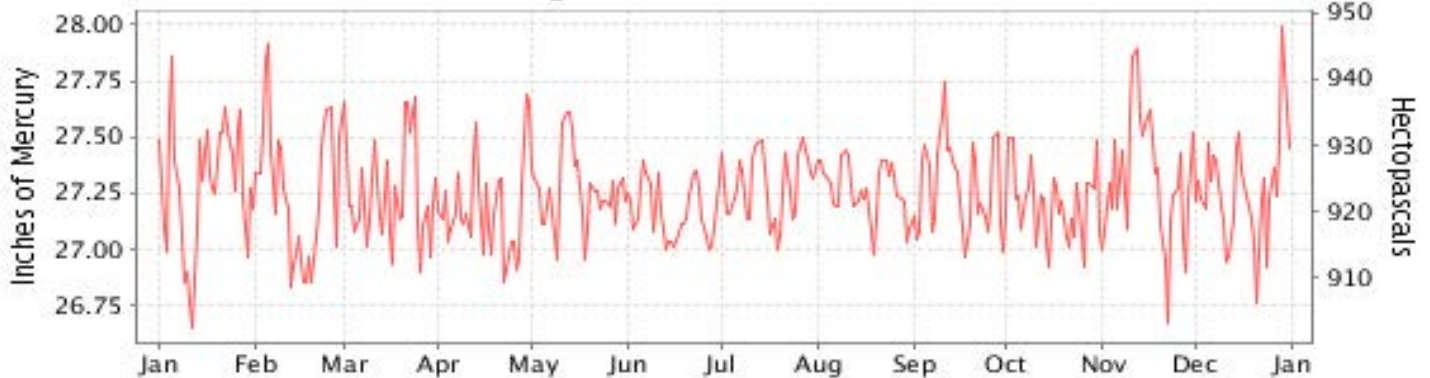
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2014

HAVRE (KHVR)

LATITUDE: 48° 32'N LONGITUDE: 109° 45'W ELEVATION (FT): GRND: 2585 BARO: 2584 TIME ZONE: MOUNTAIN (UTC -7) WBAN: 94012

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	36.0	23.9	36.9	58.9	67.6	72.2	88.3	83.4	71.5	63.8	35.3	34.3	56.0	
	HIGHEST DAILY MAXIMUM	54	47	60	79	89	83	98	95	93	81	65	57	98	
	DATE OF OCCURRENCE	25	17	16	22	23	09	31+	12+	24	20	06	09	JUL 31+	
	MEAN DAILY MINIMUM	13.8	1.2	17.6	29.9	38.6	46.0	54.2	54.6	42.6	36.1	14.4	14.3	30.3	
	LOWEST DAILY MINIMUM	-18	-25	-18	15	26	33	46	41	28	21	-19	-13	-25	
	DATE OF OCCURRENCE	05	07	01	13	12	08	27+	26	12	28	14+	30	FEB 07	
	AVERAGE DRY BULB	24.9	12.6	27.3	44.4	53.1	59.1	71.2	69.0	57.1	50.0	24.9	24.3	43.2	
	MEAN WET BULB	22.0	10.4	24.0	37.0	45.8	51.8	58.2	58.3	49.1	42.6	22.0	22.7	37.0	
	MEAN DEW POINT	16.5	4.0	18.6	26.8	36.9	45.2	48.0	51.2	42.4	35.5	17.5	18.6	30.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	14	11	2	0	0	0	27	
MAXIMUM <= 32°	10	17	12	0	0	0	0	0	0	0	12	15	66		
MINIMUM <= 32°	28	28	28	21	7	0	0	0	1	8	29	31	181		
MINIMUM <= 0°	5	16	5	0	0	0	0	0	0	0	9	3	38		
H/C	HEATING DEGREE DAYS	1235	1463	1162	610	367	175	0	44	241	456	1196	1253	8202	
	COOLING DEGREE DAYS	0	0	0	0	7	6	201	176	12	0	0	0	402	
RH	MEAN (PERCENT)	71	69	72	56	58	64	48	60	64	64	75	78	65	
	HOUR 05 LST	76	74	79	79	79	83	72	82	85	80	81	83	79	
	HOUR 11 LST	63	62	65	38	41	49	29	45	46	44	68	72	52	
	HOUR 17 LST	71	67	65	36	41	49	27	41	49	56	75	79	55	
	HOUR 23 LST	72	74	78	70	70	78	62	71	75	77	77	81	74	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	1	0	0	2	0	0	1	0	2	4	3	13	
	THUNDERSTORMS	0	0	0	0	2	4	4	3	1	0	0	0	14	
PR	MEAN STATION PRESS. (IN.)	27.29	27.27	27.25	27.18	27.26	27.17	27.29	27.27	27.27	27.20	27.31	27.27	27.25	
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	30.13	30.05	29.92	29.98	29.86	29.96	29.94	29.99	29.93	30.13	30.09	30.01	
WINDS	RESULTANT SPEED (MPH)	7.8	6.4	2.5	5.2	1.6	2.8	0.8	0.6	1.1	4.4	6.5	4.5	3.5	
	RES. DIR. (TENS OF DEGS.)	25	25	24	27	29	27	26	36	23	25	26	24	26	
	MEAN SPEED (MPH)	12.3	11.5	10.5	11.6	8.6	10.2	9.7	8.5	8.7	10.6	11.1	8.4	10.1	
	PREVAIL.DIR.(TENS OF DEGS.)	23	22	22	23	07	22	08	08	22	23	23	23	23	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	45	40	33	38	37	43	51	41	36	46	43	33	51	
	DIR. (TENS OF DEGS.)	28	29	21	26	32	25	27	24	28	25	26	22	27	
	DATE OF OCCURRENCE	13	19	08	23	13	02	24	15	03	26	22	30	JUL 24	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	55	51	40	48	47	51	62	55	44	63	53	41	63	
DIR. (TENS OF DEGS.)	28	28	21	25	31	25	27	23	29	25	27	22	25		
DATE OF OCCURRENCE	13	19	08	23	13	02	24	15	03	26	22	30	OCT 26		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.42	0.24	1.14	0.92	0.97	2.69	0.26	2.66	0.84	0.76	0.47	0.34	11.71	
	GREATEST 24-HOUR (IN.)	0.24	0.10	0.39	0.45	0.25	0.70	0.13	1.19	0.37	0.30	0.30	0.19	1.19	
	DATE OF OCCURRENCE	29-30	11	17	26	02-03	17	23-24	23-24	10-11	15-16	09	24	AUG 23-24	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	7	5	9	6	11	14	3	11	7	7	9	8	97		
PRECIPITATION 0.10	2	1	5	2	5	7	1	4	4	4	1	1	37		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL		4.2	7.0	T	0.0	0.0	0.0	0.0	T	T	4.6			
	TOTAL (IN.)	3.0	3.0	2.0	T	0.0	0.0	0.0	0.0	T	T	3.0			
	GREATEST 24-HOUR (IN.)	30	11	28	16+					11+	27+	10			
	DATE OF OCCURRENCE	5	7	3	T	0	0	0	0	0	0	4	T	7	
	MAXIMUM SNOW DEPTH (IN.)	02+	12	28+	16							20+	31+	FEB 12	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	3	1	5	0	0	0	0	0	0	0	2	0	11		

NORMALS, MEANS, AND EXTREMES HAVRE (KHVR)

LATITUDE:
48° 32'N

LONGITUDE:
109° 45'W

ELEVATION (FT):
GRND: 2585 BARO: 2584

TIME ZONE:
MOUNTAIN (UTC -7)

WBAN: 94012

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	28.8	33.6	44.6	58.0	67.5	75.8	84.9	84.0	71.4	58.2	41.6	30.2	56.6
	MEAN DAILY MAXIMUM	47	26.6	32.3	43.5	56.9	67.2	75.5	84.7	83.3	71.3	58.9	41.9	30.0	56.0
	HIGHEST DAILY MAXIMUM	15	64	64	79	91	96	100	106	109	99	89	78	61	109
	YEAR OF OCCURRENCE		2005	2002	2004	2001	2001	2006	2007	2001	2013	2011	1999	2002	AUG 2001
	MEAN OF EXTREME MAXS.	47	51.3	53.7	66.8	78.4	86.3	93.3	98.9	98.5	91.5	80.8	65.5	53.0	76.5
	NORMAL DAILY MINIMUM	30	7.2	10.9	21.0	30.8	40.5	48.5	53.6	52.0	41.6	30.4	18.8	8.0	30.3
	MEAN DAILY MINIMUM	47	5.1	10.0	20.0	30.5	40.4	48.1	53.1	51.8	41.5	31.0	18.4	8.0	29.8
	LOWEST DAILY MINIMUM	15	-37	-42	-27	4	14	31	39	34	21	-2	-19	-39	-42
	YEAR OF OCCURRENCE		2010	2011	2002	2002	2005	2009	2000	2002	2000	2003	2014	2013	FEB 2011
	MEAN OF EXTREME MINS.	47	-22.9	-16.0	-4.2	14.0	27.2	36.7	43.0	40.4	28.0	13.4	-6.4	-20.6	11.1
	NORMAL DRY BULB	30	18.0	22.2	32.8	44.4	54.0	62.2	69.2	68.0	56.5	44.3	30.2	19.1	43.4
	MEAN DRY BULB	15	19.5	20.4	31.8	43.9	53.2	61.3	70.9	68.5	57.7	44.5	31.4	20.0	43.6
	MEAN WET BULB	25	16.0	17.2	26.2	34.1	42.4	49.6	52.8	50.9	43.4	34.5	24.1	17.1	34.0
	MEAN DEW POINT	25	14.3	13.8	24.5	31.3	38.8	46.8	49.9	48.3	41.2	32.0	22.5	14.8	31.5
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.5	2.4	9.7	9.2	1.9	0.0	0.0	0.0	23.7
	MAXIMUM <= 32	30	14.6	11.5	5.5	0.6	0.0	0.0	0.0	0.0	0.0	1.0	6.7	13.9	53.8
MINIMUM <= 32	30	29.2	26.5	27.3	16.3	3.9	0.1	0.0	0.0	2.9	17.1	26.5	30.0	179.8	
MINIMUM <= 0	30	10.0	6.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.3	8.5	30.7	
H/C	NORMAL HEATING DEG. DAYS	30	1457	1197	998	619	351	133	30	53	274	642	1044	1423	8221
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	10	48	162	146	19	1	0	0	387
RH	NORMAL (PERCENT)	30	72	70	68	56	54	54	50	49	56	61	71	70	61
	HOURLY 05 LST	30	75	76	80	74	73	75	72	70	73	74	76	74	74
	HOURLY 11 LST	30	70	66	60	47	45	43	38	40	46	51	64	68	53
	HOURLY 17 LST	30	69	63	52	40	38	37	31	30	36	44	62	68	48
	HOURLY 23 LST	30	74	75	74	63	61	64	58	54	62	66	74	74	67
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	39	1.2	1.7	1.8	1.1	0.5	0.2	0.1	0.2	0.3	1.2	1.7	1.5	11.5
	THUNDERSTORMS	41	0.0	0.0	0.1	0.6	2.5	5.5	6.8	5.3	1.6	0.3	0.0	0.0	22.7
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	25	27.28	27.27	27.22	27.21	27.21	27.20	27.24	27.26	27.27	27.27	27.26	27.26	27.25
	MEAN SEA-LEVEL PRES. (IN)	25	30.11	30.10	30.00	29.95	29.92	29.89	29.92	29.94	29.98	30.02	30.05	30.08	30.00
WINDS	MEAN SPEED (MPH)	25	9.8	8.9	9.7	10.3	10.1	9.4	8.3	8.2	8.5	9.1	9.6	9.6	9.3
	PREVAIL.DIR(TENS OF DEGS)	9	23	23	23	23	23	23	23	23	23	23	23	23	23
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	46	45	51	52	51	58	52	49	45	60	53	47	60
	DIR. (TENS OF DEGS)		28	30	27	28	31	21	20	26	20	27	22	29	27
	YEAR OF OCCURRENCE		2012	2002	2008	2010	2010	2006	2008	2004	2013	1999	2011	2011	OCT 1999
	MAXIMUM 3-SECOND SPEED (MPH)	15	58	55	62	61	64	76	67	71	58	69	64	56	76
	DIR. (TENS OF DEGS)		27	26	28	25	30	22	20	32	20	26	22	30	22
YEAR OF OCCURRENCE		2012	2011	2012	2010	2010	2006	2008	2013	2013	1999	2011	2013	JUN 2006	
PRECIPITATION	NORMAL (IN)	30	0.33	0.28	0.54	0.84	1.74	2.19	1.64	1.11	1.12	0.58	0.43	0.40	11.20
	MAXIMUM MONTHLY (IN)	15	1.14	0.80	1.91	2.22	4.60	5.13	2.97	2.66	2.05	1.16	1.28	1.29	5.13
	YEAR OF OCCURRENCE		2011	2007	2012	2010	2013	2005	2001	2014	2013	2012	2008	2013	JUN 2005
	MINIMUM MONTHLY (IN)	15	0.03	0.01	0.07	0.18	0.61	0.59	0.07	0.13	0.19	0.03	T	0.01	0.01
	YEAR OF OCCURRENCE		2005	2005	2009	2002	2001	2000	2006	2000	2012	2008	2009	2001	FEB 2005
	MAXIMUM IN 24 HOURS (IN)	15	0.61	0.40	1.76	1.08	1.96	2.23	1.79	1.40	0.89	0.79	0.74	0.41	2.23
	YEAR OF OCCURRENCE		2013	2007	2012	2007	2013	2013	2002	2002	2007	2012	2008	2013	JUN 2013
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	6.0	5.6	6.9	7.2	9.7	11.4	8.0	7.2	7.5	5.7	5.9	6.1	87.2
PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.0	0.1	0.5	0.3	0.1	0.1	0.0	0.0	0.0	1.1	
SNOWFALL	NORMAL (IN)	30	7.1	5.8	6.3	3.0	1.8	0.0	0.0	0.0	0.3	2.0	5.3	7.4	39.0
	MAXIMUM MONTHLY (IN)	9	17.9	13.4	12.1	6.5	3.6	0.0	0.0	0.0	T	2.8	18.4	20.2	20.2
	YEAR OF OCCURRENCE		2013	2007	2005	2007	2004				2014	2004	2010	2013	DEC 2013
	MAXIMUM IN 24 HOURS (IN)	10	10.2	3.0	11.9	2.7	3.1	0.0	0.0	0.0	T	1.7	12.0	8.0	12.0
	YEAR OF OCCURRENCE		2013	2014	2012	2004	2004				2014	2004	2010	2010	NOV 2010
	MAXIMUM SNOW DEPTH (IN)	10	19	17	13	3	3	0	0	0	0	2	12	30	30
	YEAR OF OCCURRENCE		2009	2011	2010	2008	2004					2012	2012	2010	DEC 2010
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.3	2.3	2.1	1.2	0.3	0.0	0.0	0.0	0.0	0.7	1.7	2.6	13.2	

PRECIPITATION (inches) 2014 HAVRE (KHVR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1999			0.19	1.39	1.80	3.27	0.39	1.01	1.21	0.87	0.18	0.02	
2000	0.15	0.11	0.44	0.54	2.06	0.59	1.79	0.13	0.93	0.64	0.18	0.15	7.71
2001	0.23	0.09	0.07	0.62	0.61	1.45	2.97	0.18	0.33	0.34	0.04	0.01	6.94
2002	0.25	0.19	0.20	0.18	1.59	4.64	2.31	2.40	1.16	0.40	0.29	0.08	13.69
2003	0.22	0.14	0.20	1.96	1.65	2.39	0.42	0.77	1.36	0.37	0.09	0.24	9.81
2004	0.19	0.05	0.09	0.76	3.50	2.06	1.08	1.50	1.36	0.67	0.10	0.16	11.52
2005	0.03	0.01	0.62	0.49	0.85	5.13	0.37	1.10	0.50	0.98	0.70	0.42	11.20
2006	0.32	0.36	0.22	0.88	1.63	1.80	0.07	0.80	1.13	0.69	0.45	0.27	8.62
2007	0.37	0.80	0.81	2.13	2.39	1.86	1.22	0.25	1.73	0.23	0.08	0.22	12.09
2008	0.11	0.66	0.16	0.23	2.73	2.83	1.17	1.13	1.10	0.03	1.28	0.48	11.91
2009	0.40	0.10	0.07	1.27	0.68	1.39	1.48	1.08	0.84	0.79	T	0.65	8.75
2010	0.30	0.23	0.38	2.22	2.58	2.11	1.50	1.34	1.72	0.20	1.20	1.03	14.81
2011	1.14	0.32	0.84	0.84	3.53	2.95	1.29	0.26	0.27	0.17	0.51	0.12	12.24
2012	0.29	0.26	1.91	1.79	2.56	1.76	1.26	0.31	0.19	1.16	0.93	0.39	12.81
2013	1.10	0.42	0.40	0.80	4.60	3.89	2.75	1.14	2.05	0.32	0.40	1.29	19.16
2014	0.42	0.24	1.14	0.92	0.97	2.69	0.26	2.66	0.84	0.76	0.47	0.34	11.71
POR= 15 YRS	0.37	0.26	0.48	1.06	2.11	2.55	1.27	1.00	1.05	0.54	0.43	0.37	11.49

WBAN : 94012

AVERAGE TEMPERATURE (°F) 2014 HAVRE (KHVR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1999			37.7	42.7	52.5	60.1	65.5	69.8	54.0	45.8	38.2	32.4	
2000	16.1	23.7	36.1	45.0	54.2	60.7	71.2	69.3	56.9	42.8	25.8	13.6	43.0
2001	24.9	11.4	36.7	46.7	60.2	65.5	74.2	74.6	60.7	43.9	36.4	21.2	46.4
2002	21.6	28.0	12.6	39.1	49.9	61.4	70.8	63.5	56.7	37.7	36.2	27.8	42.1
2003	20.8	19.6	27.7	47.2	52.7	62.6	73.0	73.3	55.9	49.2	21.2	24.0	43.9
2004	11.3	17.9	38.5	47.2	49.8	58.9	69.2	65.2	56.1	42.8	34.6	26.1	43.1
2005	12.7	28.3	34.9	45.5	52.0	61.3	70.6	65.5	56.6	46.1	35.3	18.4	43.9
2006	33.8	23.6	29.7	47.4	57.0	65.0	75.5	68.3	57.4	41.0	29.9	23.9	46.0
2007	22.5	18.3	39.8	41.9	55.3	63.3	76.6	68.6	55.9	47.7	32.2	20.6	45.2
2008	18.0	20.9	32.9	39.2	52.9	59.6	68.9	67.3	55.4	44.4	36.5	11.2	42.3
2009	14.7	19.0	26.2	42.8	53.1	59.1	68.3	66.1	62.9	39.9	37.8	4.9	41.2
2010	12.5	11.2	33.0	44.3	49.1	59.9	66.4	66.1	55.7	48.5	25.3	10.1	40.2
2011	13.4	13.0	24.0	41.7	51.0	59.3	69.5	69.5	60.5	47.4	31.3	29.3	42.5
2012	25.2	24.6	40.9	46.6	52.2	62.3	73.5	69.3	59.5	41.8	29.5	20.2	45.5
2013	19.5	27.4	31.0	40.1	55.3	62.5	69.3	70.2	62.1	43.3	28.3	12.6	43.5
2014	24.9	12.6	27.3	44.4	53.1	59.1	71.2	69.0	57.1	50.0	24.9	24.3	43.2
POR= 15 YRS	19.5	20.4	31.8	43.9	53.2	61.3	70.9	68.5	57.7	44.5	31.4	20.0	43.6

HEATING DEGREE DAYS (base 65°F) 2014 HAVRE (KHVR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1998-99									841	660	389	153	
1999-00	85	17	333	586	799	1002	1508	1192	889	593	330	147	7481
2000-01	9	38	254	683	1170	1585	1236	1496	870	545	187	72	8145
2001-02	4	2	146	646	848	1352	1340	1032	1617	771	464	165	8387
2002-03	20	90	259	840	859	1146	1365	1262	1152	525	384	127	8029
2003-04	10	21	303	495	1306	1262	1656	1358	814	530	465	189	8409
2004-05	23	62	272	681	906	1197	1617	1023	928	577	397	137	7820
2005-06	11	82	257	581	883	1438	962	1154	1087	523	277	58	7313
2006-07	1	28	233	739	1047	1266	1309	1303	773	687	300	92	7778
2007-08	3	30	298	528	977	1367	1450	1273	990	766	378	175	8235
2008-09	11	53	281	632	848	1662	1551	1283	1196	659	366	196	8738
2009-10	24	43	127	770	810	1855	1622	1499	984	615	489	174	9012
2010-11	38	68	280	504	1184	1693	1593	1451	1262	694	425	188	9380
2011-12	12	14	159	540	1004	1102	1228	1163	739	545	392	114	7012
2012-13	2	40	172	713	1060	1383	1400	1046	1047	739	303	113	8018
2013-14	8	10	150	664	1094	1617	1235	1463	1162	610	367	175	8555
2014-	0	44	241	456	1196	1253							

WBAN : 94012

COOLING DEGREE DAYS (base 65°F) 2014 HAVRE (KHVR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1999			0	0	9	12	108	175	10	0	0	0	
2000	0	0	0	0	3	25	205	178	15	0	0	0	426
2001	0	0	0	6	46	92	298	308	25	0	0	0	775
2002	0	0	0	0	2	64	209	51	17	0	0	0	343
2003	0	0	0	0	11	60	263	286	37	9	0	0	666
2004	0	0	0	0	0	15	161	76	11	0	0	0	263
2005	0	0	0	0	1	32	192	105	12	0	0	0	342
2006	0	0	0	0	36	64	334	138	14	0	0	0	586
2007	0	0	0	0	6	50	367	146	32	0	0	0	601
2008	0	0	0	0	7	23	138	130	2	0	0	0	300
2009	0	0	0	0	4	24	132	87	72	0	0	0	319
2010	0	0	0	0	5	28	87	111	6	0	0	0	237
2011	0	0	0	0	0	20	155	160	33	2	0	0	370
2012	0	0	0	0	4	40	271	180	12	0	0	0	507
2013	0	0	0	0	7	43	146	179	70	0	0	0	445
2014	0	0	0	0	7	6	201	176	12	0	0	0	402

SNOWFALL (inches) 2014 HAVRE (KHVR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2003-04							0.0	0.0	0.0	2.7	3.6	0.0	
2004-05	0.0	0.0	0.0	2.8	1.2	0.9	4.5	0.2	12.1	T	T	0.0	21.7
2005-06	0.0	0.0	0.0	T	6.0	9.5	5.5	7.5	5.7	T	T	0.0	34.2
2006-07	0.0	0.0	T	1.2	7.3	5.4	5.5	13.4	T	6.5	0.0	0.0	39.3
2007-08	0.0	0.0	0.0	0.0	0.6	3.2	1.8	9.0	1.7	3.5	0.0	0.0	19.8
2008-09	0.0	0.0	0.0	T	2.6	16.2	12.1	2.8	1.6	5.2	0.8	0.0	41.3
2009-10	0.0	0.0	0.0	1.0	T	17.1	14.5	3.9	0.8	3.0	1.0	0.0	41.3
2010-11	0.0	0.0	T	T	18.4		17.5	6.2	9.7	2.0	0.0	0.0	
2011-12	0.0	0.0	0.0	0.0	1.3	1.0	1.7	1.5	11.9	T	T	0.0	17.4
2012-13	0.0	0.0	0.0	1.5	16.5	7.0	17.9	1.3	2.8	3.6	0.0	0.0	50.6
2013-14	0.0	0.0	0.0	1.0	4.8	20.2		4.2	7.0	T	0.0	0.0	
2014-	0.0	0.0	T	T	4.6								
POR= 11 YRS	0.0	0.0	T	0.7	5.8	7.3	7.4	4.2	4.8	2.4	0.5	0.0	33.1

WBAN : 94012

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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: 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</p>	<p>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. 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2014 HAVRE MONTANA (KHVR)

Havre, Montana, is located in a level valley formed by the Milk River, which courses through the city from west to east. Most of the city lies on the south side of the river. On the north side, hills rise abruptly to about 200 feet above the valley floor. The land mass north to the Canadian border is gently rolling and increases slightly in elevation. During winter months, frequent invasions of cold polar continental air move down across these rolling plains, bringing snow and sub-zero temperatures.

The Bearpaw Mountains extend from 15 to 30 miles south of Havre. Most of the peaks are from 4,000 to 5,000 feet above sea level, and several are above 6,000 feet. The highest is Old Baldy, 6,916 feet above sea level.

Winters are cold in the Havre area, but snow cover is seldom more than a few inches, and usually some ground is bare. Spells of mild weather do occur at least a few times each winter, arriving with sometimes fresh to strong southwest to west foehn winds. During winter months, rain rarely falls. Winter precipitation is almost always in the form of snow. The transition from winter to spring conditions is fairly rapid in the usual year, but cold snaps and snow can occur as late as early May or as early as September.

Summers are characterized by warm weather, seldom exceeding 95 degrees. Daytime warmest readings usually run from the 80s to the mid-90s during most of July and August, but summer relative humidities are seldom as high as 50 percent during afternoon hours. Summertime night temperatures are rarely oppressively warm. Most spring and summer precipitation falls as showers, but occasionally steady rains lasting several hours are observed in May and June, and again in September. Fall seasons are characterized by much clear weather, although cold snaps of a day or two, with some snow, can occur as early as mid-September.

Station History

HAVRE, MT

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
HAVRE CITY COUNTY AP	1976-06-01	1976-10-31	48° 33'	-109° 46'	2585		AIRWAYS, WXSVC
HAVRE CITY COUNTY AP	1959-11-02	1961-01-25	48° 33'	-109° 46'			AIRWAYS
HAVRE CITY COUNTY AP	1994-04-01	1995-03-01	48° 32'	-109° 45'	2584		ASOS, COOP
HAVRE CITY COUNTY AP	1998-01-02	2006-08-09	48° 32'	-109° 45'	2585	.2 MI SSW	ASOS, COOP
HAVRE CITY COUNTY AP	1988-03-01	1994-04-01	48° 33'	-109° 46'	2584		COOP
HAVRE CITY COUNTY AP	1978-05-01	1981-12-31	48° 33'	-109° 46'	2585		AIRWAYS, WXSVC
HAVRE CITY COUNTY AP	1961-01-25	1970-01-01	48° 33'	-109° 46'	2585		AIRWAYS
HAVRE CITY COUNTY AP	1970-01-01	1976-06-01	48° 33'	-109° 46'	2585		WXSVC
HAVRE CITY COUNTY AP	1976-10-31	1978-05-01	48° 33'	-109° 46'	2585		WXSVC
HAVRE CITY COUNTY AP	1988-02-01	1988-03-01	48° 33'	-109° 46'	2585		COOP
HAVRE CITY COUNTY AP	2006-08-09	Present	48° 32'	-109° 45'	2585		ASOS, COOP
HAVRE CITY COUNTY AP	1995-03-01	1998-01-02	48° 32'	-109° 45'	2583		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1959-11-02	1982-01-01	DAILY	2400	UNIV	RCRD	
WIND	2011-01-06	Present	HOURLY	UNKN	ANEMSONIC		
TEMP	1988-03-01	1994-04-01	DAILY	2400	MXMN		
WIND	1994-04-01	2005-11-07	HOURLY	UNKN	ANEMCUP		
PRECIP	2005-11-07	2006-08-09	DAILY	2400	TB	RCRD	
PRECIP	1988-03-01	1994-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	2005-11-07	2006-08-09	HOURLY	2400	TB	RCRD	
TEMP	2006-08-09	2011-01-06	DAILY	2400	ATEMP		
TEMP	2011-01-06	Present	DAILY	2400	ATEMP		
PRECIP	2011-01-06	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1982-01-01	1988-03-01	DAILY	2400	UNIV	RCRD	
TEMP	1982-01-01	1988-03-01	DAILY	2400			
PRECIP	1988-03-01	1994-04-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1994-04-01	2005-11-07	HOURLY	2400	TB	RCRD	
PRECIP	1994-04-01	2005-11-07	DAILY	2400	TB	RCRD	
TEMP	2005-11-07	2006-08-09	DAILY	2400	HYGR		
PRECIP	2006-08-09	2011-01-06	HOURLY	2400	TB	RCRD	
PRECIP	2011-01-06	Present	DAILY	2400	PCPNX		
PRECIP	1982-01-01	1988-03-01	HOURLY	2400	UNIV	RCRD	
WIND	2006-08-09	2011-01-06	HOURLY	UNKN	ANEMSONIC		
TEMP	1959-11-02	1982-01-01	DAILY	2400			
TEMP	1994-04-01	2005-11-07	DAILY	2400	HYGR		
WIND	2005-11-07	2006-08-09	HOURLY	UNKN	ANEMSONIC		
PRECIP	2006-08-09	2011-01-06	DAILY	2400	PCPNX		

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asos2implementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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