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CLIMATOGRAPHY OF THE UNITED STATES NO. 81-8

DECENNIAL CENSUS OF UNITED STATES CLIMATE—

MONTHLY NORMALS OF TEMPERATURE, PRECIPITATION, AND HEATING DEGREE DAYS

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PREFACE

The climatological standard normals presented in this publication are based on records for the 30-year period 1931-1960 inclusive. For the first time, normals have been computed for substations and divisions using a base period identical to that used for first-order stations.

Previous normals were published in Weather Bureau Technical Paper No. 31, "Monthly Normal Temperatures, Precipitation, and Degree Days," and were based on records for the period 1921-1950. Earlier sets of normals are described in [1].

This is the first series of publications resulting from the project "The Decennial Census of United States Climate, 1960." The project is a continuation of earlier censuses of the climate of the United States that date back to the early 19th Century and are described in [2]. Future publications of this project will be listings of daily normals of temperature, and degree days; summaries of hourly observations; and listings of monthly divisional averages of temperature and precipitation.

Units used in this publication are degrees F. for temperatures, and inches for precipitation. The heating degree day normals are derived from the monthly normal temperatures, and are computed on the standard base of 65°F. Monthly normals of less than 5 degree days are shown as zero.

Standard Normals for Weather Bureau First Order Stations

A normal of a climatological element is an arithmetic mean for a specific period of record which estimates the true mean of the element at the current exposure of the meteorological instrument measuring the element. The true mean is the mean of all possible observations (population) at the current exposure. It is from this population that future observations will come, not from values in the past record. This is what makes it important to obtain an estimate of this mean. The true mean can never be known exactly but must be estimated from a sample of the past record ([3] p. 53 section 4. 3). The normals presented here are estimates of the true mean obtained from the 30-year sample record 1931-1960. They are called standard normals because they conform to the World Meteorological Organization standard for climatological normals.

If no exposure changes have occurred at a station the normal is estimated by simply averaging the 30 values from the 1931-1960 record. Since it is next to impossible to maintain a multiple purpose network of meteorological stations without having exposure changes, it is first necessary to find and evaluate these changes and then make adjustments for them if necessary.

Heterogeneities in record due to exposure changes are found in two ways: by determining them from the station histories and by use of statistical tests. The statistical test when standardized for the purpose is easy to apply and will often find heterogeneities which are not defined by the station histories as well as those which have been so determined. Two statistical tests were employed: one for temperature and the other for precipitation. These are described in [4].

After the periods of heterogeneity have been determined, adjustments are applied to remove the heterogeneities introduced into the mean. This is done by comparing the record at the base station, for which the normal is desired, to the record at a supplementary station with a homogeneous period which covers the heterogeneous period at the base station. The difference method is applied to the monthly average maximum and minimum temperatures and the ratio method to the monthly total precipitation. A weighted average of the various partial means of the adjusted and unadjusted record is then prepared to give the normal. Brief discussions of the methods of adjustment are found in [3] (p. 49, section 4. 24).

Normal heating degree days are derived by the method described in [5].

Normals for Substations and Divisions

Normals for substations were computed somewhat differently than those for first-order stations. Monthly substation normals are the simple arithmetic averages of the monthly values of temperature and precipitation for the period 1931-1960. These were computed for only those substations that were active during the entire period and no attempt was made to adjust for minor changes in location of the observing site, or for changes in the time of observation. Normals were not computed for substations that were moved a significant distance during the 1931-1960 period. Missing values in the data series were estimated by methods described in [6]. Substations whose locations were essentially unchanged during the 1931-1960 period are identified in the tables.

Monthly divisional normals are the means of the monthly divisional averages of temperature and precipitation for the period 1931-1960. In calculating the monthly divisional averages, all of the stations in the division that furnished both temperature and precipitation data during the particular month were used. The averages therefore were obtained from a variable station sample. As a result, the divisional normals often differ from the averages of the normals for stations in the division.

Annual substation and divisional normals are the averages of the 12 monthly temperature normals and the sums of the 12 monthly precipitation normals.

References

1. U. S. Weather Bureau, "History of Climatological Publications," Key to Meteorological Records Documentation No. 4. 1, Washington, D. C., 1958.

2. H. E. Landsberg, "The Decennial United States Census of Climate 1960 and Its Antecedents," Key to Meteorological Records Documentation No. 6. 2, U. S. Weather Bureau, Washington, D. C., 1960.

3. U. S. Weather Bureau, Climatology at Work, Gerald L. Barger, ed., Washington, D. C., 1960.

4. H. C. S. Thom, "Tests of Significance for Temperature and Precipitation Normals," U. S. Weather Bureau Manuscript, 1961.

5. H. C. S. Thom, "The Rational Relationship Between Heating Degree Days and Temperature," Monthly Weather Review, Vol. 82, No. 1, January 1954.

6. U. S. Weather Bureau, Administrative Manual, Vol. III, Chap. C-05, paras. C-0509 and C-0510.

NOTES

1. Station Names

In Table I, "AP" after the city name indicates "airport station" "CO" indicates "city office station." Figures and letters following the station name indicate a rural location, and refer to the distance and direction of the station from the nearest post office.

- # indicates a station whose location has been essentially unchanged during the period 1931-1960.
- H indicates the ground elevation of the station in feet above sea level, as of December 31, 1960.
- G indicates the elevation at hygrothermometer site (where different from "H").
- T indicates the height of the thermometer in feet above the ground as of December 31, 1960.

/NO TEST/ indicates that significant difference tests were not made.

2. Table Content

- * indicates that the departure of the 1951-60 record from the 1921-50 normal is statistically significant, but through the adjustments for changes in location and exposure the absolute difference between old and new normals may even in these cases be very small.
- T in the data tables indicates a monthly precipitation amount of only a trace.

February monthly normals are for a 28-day month.

TABLE I - NORMALS FOR FIRST ORDER STATIONS

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
BOISE AP H2838 T 7														
	MAX TEMP	36.1	42.4	51.5*	62.3	70.9	78.5	90.4	87.7*	77.8*	65.3	48.4	39.4	62.6
	MIN TEMP	21.1	25.5	30.9*	37.4	44.5	51.1	59.0	56.5*	48.6	39.9	29.7*	25.0	39.1
	AVG TEMP	28.6	34.0	41.2*	49.9	57.7	64.8	74.7	72.1*	63.2*	52.6	39.1*	32.2	50.8
	DEG DAYS	1128	868	738*	453	254	96	0	0	120*	384	777*	1017	5835
	PRECIP	1.32	1.33	1.32	1.16	1.29	.89	.21	.16	.39	.84	1.20	1.32	11.43
IDAHO FALLS 42 NW H4780 T 6		/NO TEST/												
	MAX TEMP	26.5	32.2	42.4	58.2	68.7	76.9	89.0	86.4	75.5	61.6	41.9	31.3	57.6
	MIN TEMP	.2	5.6	16.1	27.9	36.6	42.7	49.2	46.3	36.7	26.6	14.2	6.3	25.7
	AVG TEMP	13.4	18.9	29.3	43.1	52.7	59.8	69.1	66.4	56.1	44.1	28.1	18.8	41.7
	DEG DAYS	1600	1291	1107	657	388	192	16	40	282	648	1107	1432	8760
	PRECIP	.55	.49	.46	.49	.88	1.24	.44	.49	.63	.41	.33	.61	7.02
IDAHO FALLS 46 W H4933 T 6														
	MAX TEMP	27.5	32.7	42.2	57.5	67.5	75.9	87.9	85.7	74.9*	61.5*	43.0	32.6	57.4
	MIN TEMP	3.2	8.0	17.8	29.1	37.7	43.6	50.1	47.4*	38.0	28.2	16.5*	8.9	27.4
	AVG TEMP	15.4	20.4	30.0	43.3	52.6	59.8	69.0	66.6*	56.5*	44.9*	29.8*	20.8	42.4
	DEG DAYS	1538	1249	1085	651	391	192	16	34*	270*	623*	1056*	1370	8475
	PRECIP	.73	.77	.62	.51	1.10	1.09	.26	.48	.35	.66*	.41	.59	7.57
LEWISTON AP H1413 T 4														
	MAX TEMP	37.7	44.1	52.5	62.7	71.3	77.8	89.8*	87.8*	78.3	63.6	47.6	41.5*	62.9
	MIN TEMP	23.7	27.7	32.7*	38.8*	45.5*	51.8*	57.8*	55.5*	48.7	40.3	31.9*	28.3	40.2
	AVG TEMP	30.7	35.9	42.6*	50.8*	58.4*	64.8*	73.8*	71.7*	63.5	52.0	39.8*	34.9*	51.6
	DEG DAYS	1063	815	694*	426*	239*	90*	0	0	123	403	756*	933*	5542
	PRECIP	1.10	.97	1.18	1.14	1.55	1.73	.43	.43*	.90	1.21	1.23	1.37	13.24
POCATELLO AP H4444 T 6														
	MAX TEMP	31.6	36.5	46.1*	59.7	69.3	77.8	89.6	87.4	77.0	63.8	45.4	36.3	60.0
	MIN TEMP	13.0	17.8	25.5	33.2	40.9	47.7	55.1*	52.7	43.5	34.3	24.5*	18.5	33.9
	AVG TEMP	22.3	27.2	35.8*	46.5	55.1	62.8	72.4*	70.0	60.2	49.1	35.0*	27.4	47.0
	DEG DAYS	1324	1058	905*	555	319	141	0	6	174	493	900*	1166	7041
	PRECIP	1.21	.92	1.02*	1.06	1.13	.96	.51*	.55	.61*	.89*	.99*	1.00*	10.85

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

TEMPERATURE (°F)

STATIONS (By Divisions)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
PANHANDLE													
BONNERS FERRY 1 SW	*	*	*	*	*	*	*	*	*	*	*	*	*
#COEUR D ALENE RS	27.5	30.8	37.6	46.9	55.4	61.3	69.1	67.8	59.6	48.7	36.8	31.7	47.8
PORTHILL	24.0	27.6	35.7	46.3	54.7	60.2	66.8	64.7	56.5	45.6	33.9	28.5	45.4
PRIEST RIVER EXP STA	23.8	27.6	34.4	43.9	52.5	58.2	64.6	62.5	55.3	44.9	32.9	28.0	44.1
SAINT MARIES	27.8	32.2	38.6	47.3	55.2	60.7	67.6	65.8	58.6	48.5	36.6	31.6	47.5
#SANDPOINT EXP STA	25.6	29.2	36.0	45.8	53.8	59.3	65.3	63.4	56.1	46.1	34.9	29.7	45.4
DIVISION	25.8	29.5	36.5	46.0	54.2	59.9	66.6	64.7	57.1	46.7	35.0	29.9	46.0
NORTH CENTRAL PRAIRIES													
COTTONWOOD	*	*	*	*	*	*	*	*	*	*	*	*	*
GRANGEVILLE	27.7	31.5	36.9	44.9	52.2	57.9	67.0	65.9	58.1	47.8	36.4	31.3	46.5
MOSCOW U OF I	28.2	32.5	38.9	47.1	54.4	60.0	67.3	65.6	59.2	49.5	37.8	32.4	47.7
NEZPERCE	26.5	30.7	36.5	44.7	52.1	57.6	65.5	64.5	57.4	47.5	35.7	30.6	45.8
POTLATCH	28.7	32.4	38.4	46.5	53.5	59.0	65.6	63.8	57.4	48.5	37.8	32.7	47.0
DIVISION	27.4	31.2	37.0	45.1	52.4	57.9	65.9	64.4	57.5	47.9	36.5	31.3	46.2
NORTH CENTRAL CANYONS													
#KOOSKIA	30.3	36.0	43.0	50.9	58.5	64.3	71.8	69.6	62.4	51.5	39.0	33.5	50.9
LEWISTON AP	30.7	35.9	42.6	50.8	58.4	64.8	73.8	71.7	63.5	52.0	39.8	34.9	51.6
#OROFINO	31.0	36.4	43.2	51.9	59.6	65.8	73.8	71.7	63.5	52.0	39.7	34.1	51.9
RIGGINS RS	*	*	*	*	*	*	*	*	*	*	*	*	*
DIVISION	31.4	36.5	43.4	51.7	59.3	65.4	73.7	71.7	63.7	53.1	39.9	34.6	52.0
CENTRAL MOUNTAINS													
#ARROWROCK DAM	24.5	29.6	37.8	48.4	56.7	63.8	74.1	72.2	62.7	50.7	36.6	29.3	48.9
#AVERY RS	27.8	31.7	37.9	46.6	55.0	60.7	68.0	66.5	59.3	49.1	35.7	30.6	47.4
#DEADWOOD DAM	16.8	21.3	26.9	36.3	45.3	52.2	60.4	58.4	51.1	42.2	28.8	20.1	38.3
GARDEN VALLEY RS	24.2	30.1	37.5	47.0	55.0	61.6	70.9	68.6	60.5	49.1	34.9	27.4	47.2
#HAILEY RS	18.7	23.4	30.8	43.3	52.3	58.8	68.0	66.0	57.5	47.0	32.2	23.6	43.5
#HILL CITY	15.3	19.5	26.8	40.5	50.0	56.3	65.8	63.7	54.7	44.3	30.6	21.8	40.8
IDAHO CITY	22.9	27.3	34.2	44.2	52.2	58.4	66.9	64.8	57.1	47.5	34.5	27.0	44.8
#IDAHO CITY 11 SW	*	*	*	*	*	*	*	*	*	*	*	*	*
#KELLOGG	27.2	31.5	38.1	47.0	55.1	60.8	68.2	66.1	58.6	48.4	36.3	31.2	47.4
LOWMAN	22.2	27.6	34.1	43.6	51.2	57.3	65.0	62.9	55.0	45.9	32.3	25.1	43.5
#MC CALL	18.5	21.8	27.6	37.2	47.1	54.1	62.8	60.4	52.6	43.1	30.2	22.9	39.9
#NEW MEADOWS RS	19.1	23.9	30.9	41.7	49.5	55.7	62.7	60.3	52.8	43.6	31.2	23.3	41.2
OBSIDIAN 3 SSE	14.3	18.4	24.0	33.3	42.6	48.6	56.8	55.1	48.2	39.7	26.0	17.4	35.4
PIERCE RS	*	*	*	*	*	*	*	*	*	*	*	*	*
WALLACE	26.8	30.9	36.5	45.5	53.2	58.5	65.7	63.8	56.5	46.8	35.1	30.3	45.8
#WALLACE WOODLAND PARK	25.8	29.4	34.9	43.7	51.4	57.1	64.3	62.6	55.6	46.7	35.1	29.9	44.7
DIVISION	21.0	25.2	31.4	41.4	50.0	56.3	64.6	62.5	54.8	45.1	32.0	25.0	42.4
SOUTHWESTERN VALLEYS													
BOISE AP	28.6	34.0	41.2	49.9	57.7	64.8	74.7	72.1	63.2	52.6	39.1	32.2	50.8
CALDWELL	28.9	34.6	42.5	51.4	58.8	65.2	73.5	70.4	61.5	51.2	38.3	32.3	50.7
CAMBRIDGE	22.3	27.5	37.9	49.2	57.3	63.9	74.1	71.0	61.0	49.8	36.0	28.0	48.2
COUNCIL	24.7	29.2	37.5	48.3	56.6	63.0	72.8	70.4	61.6	50.5	36.9	29.0	48.4
#DEER FLAT DAM	28.6	34.0	41.8	50.8	58.2	64.8	73.5	70.7	61.7	51.2	38.3	32.3	50.5
EMMETT 2 E	29.5	35.1	43.1	51.9	59.5	65.5	73.7	71.1	63.0	52.6	39.4	33.3	51.5
#GLENNS FERRY	*	*	*	*	*	*	*	*	*	*	*	*	*
GRAND VIEW	29.4	35.4	43.0	52.7	60.8	67.9	76.5	73.4	63.5	52.3	39.0	32.3	52.2
KUNA 2 NNE	29.0	34.5	41.8	50.3	57.6	63.7	72.0	69.4	61.3	51.8	38.8	32.4	50.2
MOUNTAIN HOME 1 SE	28.3	33.2	40.4	49.6	57.4	64.4	73.7	71.1	62.2	51.9	38.7	31.9	50.2
PARMA EXP STA	28.3	34.3	42.6	51.5	58.8	65.4	73.6	71.0	62.0	51.5	38.3	32.0	50.8
PAYETTE	27.5	33.2	42.4	51.7	59.5	66.3	75.3	72.3	62.5	51.3	38.0	31.5	51.0
WEISER 2 SE	27.5	33.3	42.8	52.1	60.1	66.8	75.4	72.5	63.1	52.0	38.5	31.6	51.3
DIVISION	28.2	33.6	41.7	51.0	58.8	65.4	74.4	71.6	62.6	52.0	38.7	32.0	50.8
SOUTHWESTERN HIGHLANDS													
#HOLLISTER	26.6	31.2	37.1	46.0	53.9	60.9	71.3	68.8	59.9	49.9	37.1	30.8	47.8
DIVISION	26.0	30.2	35.9	44.8	52.6	59.4	69.4	67.0	58.4	50.2	36.5	30.0	46.7

PRECIPITATION (In.)

STATIONS (By Divisions)	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
PANHANDLE													
BONNERS FERRY 1 SW	3.16	2.24	1.76	1.11	1.37	1.62	.78	.78	1.26	2.41	3.08	3.51	23.08
#COEUR D ALENE RS	3.42	2.52	2.34	1.71	2.04	1.93	.66	.72	1.35	2.50	3.20	3.74	26.13
PORTHILL	2.18	1.55	1.42	1.02	1.38	1.94	.74	1.05	1.26	2.03	2.26	2.42	19.25
PRIEST RIVER EXP STA	4.31	3.13	2.84	2.03	2.18	2.59	.90	.89	1.60	3.29	3.92	4.78	32.46
SAINT MARIES	3.79	2.87	2.63	1.99	1.99	2.18	.71	.67	1.43	2.79	3.58	4.08	28.71
#SANDPOINT EXP STA	4.49	3.30	2.97	1.97	2.05	2.33	.63	.83	1.71	3.37	4.21	4.88	32.74
DIVISION	3.56	2.60	2.38	1.67	1.85	2.09	.73	.82	1.45	2.82	3.42	3.98	27.37
NORTH CENTRAL PRAIRIES													
COTTONWOOD	1.54	1.60	1.54	1.75	2.65	2.69	.91	.88	1.28	1.81	1.81	1.58	20.04
GRANGEVILLE	1.38	1.52	2.05	2.68	3.30	3.04	.88	.76	1.51	2.20	1.82	1.51	22.65
MOSCOW U OF I	2.80	2.14	2.12	1.69	1.63	1.74	.51	.52	1.24	2.03	2.64	3.15	22.21
NEZPERCE	1.53	1.45	1.78	2.13	2.75	2.66	.86	.71	1.35	1.95	1.83	1.70	20.70
POTLATCH	3.10	2.35	2.28	1.82	1.94	2.06	.55	.52	1.38	2.33	2.80	3.36	24.49
DIVISION	2.07	1.81	2.00	2.05	2.50	2.48	.73	.68	1.37	2.09	2.17	2.25	22.20
NORTH CENTRAL CANYONS													
#KOOSKIA	1.93	1.86	2.39	2.82	3.05	2.89	.85	.74	1.50	2.46	2.24	1.99	24.72
LEWISTON AP	1.10	.97	1.18	1.14	1.55	1.73	.43	.43	.90	1.21	1.23	1.37	13.24
#OROFINO	2.79	2.61	2.63	2.06	2.27	2.29	.60	.47	1.43	2.36	3.05	3.37	25.93
RIGGINS RS	.90	1.22	1.49	1.54	2.08	1.91	.62	.56	1.02	1.42	1.37	1.33	15.46
DIVISION	2.10	2.02	2.35	2.12	2.31	2.30	.62	.59	1.35	2.13	2.38	2.48	22.75
CENTRAL MOUNTAINS													
#ARROWROCK DAM	2.77	2.60	2.14	1.49	1.42	1.10	.27	.15	.47	1.28	2.32	2.81	18.82
#AVERY RS	3.57	3.02	3.20	2.45	2.41	2.51	1.04	.95	1.75	3.36	3.89	4.31	32.46
#DEADWOOD DAM	4.79	4.23	3.51	1.95	2.11	1.83	.61	.60	1.00	2.27	3.64	5.43	31.97
GARDEN VALLEY RS	3.38	3.02	2.66	1.77	1.75	1.39	.33	.41	.72	1.74	2.89	3.76	23.82
#HAILEY RS	2.11	1.88	1.28	1.07	1.33	1.04	.41	.42	.60	.90	1.31	2.18	14.53
#HILL CITY	2.32	1.94	1.41	1.01	1.26	.85	.27	.33	.41	1.00	1.71	2.18	14.69
IDAHO CITY	3.41	3.20	2.57	1.68	1.86	1.38	.34	.29	.57	1.62	2.64	3.63	23.19
#IDAHO CITY 11 SW	4.22	3.91	3.10	1.66	1.61	1.20	.31	.33	.62	1.69	3.41	4.52	26.58
#KELLOGG	3.61	2.92	2.97	2.38	2.41	2.42	.83	.83	1.70	3.18	3.71	4.01	30.97
LOWMAN	3.24	3.06	2.61	1.83	1.91	1.46	.45	.32	.86	1.95	2.92	3.76	24.37
#MC CALL	3.62	3.15	2.75	1.87	2.35	2.07	.55	.61	1.19	2.28	2.78	3.53	26.75
#NEW MEADOWS RS	3.30	2.70	2.37	1.94	2.07	1.99	.55	.55	1.15	2.22	2.87	3.58	25.29
OBSIDIAN 3 SSE	1.71	1.38	1.43	.98	1.31	1.26	.57	.54	.79	1.04	1.28	1.86	14.15
PIERCE RS	4.82	4.42	4.39	3.47	3.29	3.26	1.07	.78	2.02	3.43	4.67	5.72	41.34
WALLACE	5.33	4.38	3.99	2.73	2.54	2.78	1.10	.89	2.16	4.23	5.57	6.36	42.06
#WALLACE WOODLAND PARK	4.30	3.43	3.42	2.47	2.45	2.72	1.01	.87	1.93	3.62	4.45	5.08	35.75
DIVISION	3.56	3.11	2.78	1.97	2.06	1.93	.66	.63	1.20	2.34	3.16	3.96	27.36
SOUTHWESTERN VALLEYS													
BOISE AP	1.32	1.33	1.32	1.16	1.29	.89	.21	.16	.39	.84	1.20	1.32	11.43
CALDWELL	1.29	1.26	1.17	1.01	1.08	.78	.24	.11	.41	.79	1.21	1.26	10.61
CAMBRIDGE	2.88	2.57	1.99	1.43	1.45	1.43	.25	.23	.65	1.45	2.45	2.93	19.71
COUNCIL	3.82	3.34	2.77	2.09	2.02	1.83	.35	.39	.86	2.14	3.18	4.01	26.80
#DEER FLAT DAM	1.06	.94	1.11	.87	1.06	.73	.18	.16	.36	.69	1.02	1.08	9.26
EMMETT 2 E	1.55	1.44	1.31	1.07	1.28	1.01	.15	.12	.55	.95	1.37	1.63	12.43
#GLENNS FERRY	1.25	.94	1.02	.75	.90	.59	.25	.14	.25	.55	1.05	.99	8.68
GRAND VIEW	.71	.58	.91	.70	1.09	.83	.16	.11	.33	.47	.68	.69	7.26
KUNA 2 NNE	1.12	1.03	1.20	1.03	1.37	.88	.19	.14	.40	.79	1.18	1.03	10.36
MOUNTAIN HOME 1 SE	1.04	.87	1.10	.84	1.02	.73	.24	.15	.30	.65	.93	.91	8.78
PARMA EXP STA	1.11	.98	.91	.80	1.04	.79	.14	.23	.44	.78	1.00	1.12	9.34
PAYETTE	1.51	1.26	1.10	.88	1.00	.87	.22	.22	.42	.90	1.21	1.37	10.96
WEISER 2 SE	1.70	1.45	1.11	.90	.99	.82	.11	.22	.39	.86	1.28	1.48	11.31
DIVISION	1.54	1.36	1.30	1.04	1.22	.97	.21	.18	.44	.91	1.35	1.48	12.00
SOUTHWESTERN HIGHLANDS													
#HOLLISTER	1.09	.74	1.01	1.09	1.23	1.06	.40	.28	.43	.74	.91	1.01	9.99
DIVISION	1.11	.80	1.07	1.16	1.44	1.14	.41	.31	.44	.98	.89	1.02	10.77

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

IDAHO

STATIONS (By Divisions)	TEMPERATURE (°F) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	PRECIPITATION (In.) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
CENTRAL PLAINS																										
#BLISS	•	•	•	•	•	•	•	•	•	•	•	•	•	1.24	.92	.92	.66	.88	.61	.22	.11	.27	.55	1.05	1.11	8.54
BUHL	28.1	33.3	40.6	49.8	57.6	64.1	73.4	71.0	62.6	52.7	39.3	32.1	50.4	.96	.76	.78	.76	.98	.83	.23	.17	.34	.64	.82	.82	8.09
#BURLEY	26.6	31.5	39.1	48.6	56.9	64.2	73.8	71.4	62.1	51.3	38.0	31.3	49.6	1.11	.92	.84	.79	.87	.72	.26	.28	.40	.63	.85	.94	8.61
#HAZELTON	26.3	31.4	39.2	48.7	57.0	64.5	73.6	71.1	61.9	51.2	37.8	30.8	49.5	1.35	1.06	.98	.99	1.09	.83	.25	.19	.39	.79	1.07	1.12	10.11
JEROME	26.5	31.2	39.0	49.1	57.4	64.6	74.1	71.4	62.4	51.5	38.1	30.8	49.7	1.26	.99	.93	.79	.87	.66	.18	.15	.41	.64	.95	1.04	8.87
RICHFIELD	•	•	•	•	•	•	•	•	•	•	•	•	•	1.41	1.13	.88	.70	.85	.64	.26	.30	.39	.71	1.05	1.32	9.64
#RUPERT	24.7	29.4	37.5	47.3	55.8	63.2	72.6	69.6	60.3	49.7	36.5	29.7	48.0	1.02	.85	.82	.74	.82	.76	.23	.23	.41	.68	.81	.90	8.27
SHOSHONE 1 WNW	23.1	27.7	36.6	47.5	55.9	63.3	72.9	69.9	60.5	49.7	35.8	28.2	47.6	1.58	1.25	.98	.79	.99	.64	.22	.22	.43	.74	1.09	1.35	10.28
TWIN FALLS 2 NNE	27.3	32.7	39.9	49.2	57.4	64.4	72.9	69.9	61.3	51.0	38.1	31.6	49.6	1.04	.70	.84	.93	1.00	.79	.24	.17	.49	.76	.92	.86	8.74
#TWIN FALLS 3 SE	26.9	31.9	38.9	48.3	56.5	63.6	72.3	69.2	60.5	50.3	37.6	31.0	48.9	1.02	.72	.87	.86	1.01	.79	.21	.21	.46	.75	.93	.91	8.74
DIVISION	25.4	30.3	38.2	48.0	56.2	63.4	72.7	69.9	61.0	50.5	37.1	30.1	48.6	1.18	.91	.87	.81	.95	.74	.25	.22	.40	.71	.95	1.01	9.00
NORTHEASTERN VALLEYS																										
#CHALLIS	18.4	25.0	34.2	44.7	52.9	59.7	68.1	65.9	57.5	47.1	32.4	23.0	44.1	.48	.33	.35	.53	1.11	1.18	.58	.53	.60	.46	.31	.47	6.93
#MACKAY RS	16.9	21.2	30.0	42.4	51.0	58.1	66.8	64.6	56.3	46.0	30.6	21.6	42.1	.81	.68	.56	.62	1.09	1.26	.85	.79	.71	.64	.54	.70	9.25
SALMON	17.9	24.7	35.1	45.7	53.9	60.2	67.8	65.6	56.6	45.8	31.8	22.5	44.0	.56	.50	.53	.64	1.38	1.35	.81	.56	.72	.66	.63	.59	8.93
DIVISION	16.7	22.6	32.1	43.2	51.6	58.2	66.2	64.1	55.6	45.5	30.8	21.5	42.3	.57	.45	.46	.60	1.25	1.28	.91	.67	.70	.66	.46	.58	8.59
UPPER SNAKE RIVER PLAINS																										
#ABERDEEN EXP STA	21.2	26.2	35.5	46.0	54.4	61.6	70.2	67.8	58.7	48.0	34.3	26.5	45.9	.78	.60	.70	.76	.91	.81	.31	.36	.46	.72	.67	.79	7.87
ASHTON 1 S	18.1	21.7	27.9	41.4	51.7	57.6	64.5	62.5	54.8	45.4	30.3	22.1	41.5	1.82	1.77	1.39	1.04	1.45	1.91	.82	.95	.94	1.35	1.56	1.89	16.89
BLACKFOOT 2 SSW	•	•	•	•	•	•	•	•	•	•	•	•	•	1.00	.80	.84	.84	1.12	1.13	.40	.51	.64	.82	.88	.92	9.90
#DUBOIS EXP STA	17.8	21.2	28.4	42.3	52.2	59.4	69.4	67.4	58.0	46.2	30.7	22.6	43.0	.89	.79	.69	.79	1.42	1.79	.67	.76	.71	.82	.69	.92	10.94
FORT HALL IND AGENCY	22.7	27.6	36.1	46.4	55.1	62.1	70.6	68.2	59.6	49.2	35.0	27.2	46.7	.86	.70	.73	.89	1.14	1.22	.42	.57	.70	.88	.81	.76	9.68
#IDAHO FALLS FAA AP	19.3	24.2	33.2	45.2	53.9	60.5	69.2	66.9	58.0	47.3	33.0	24.5	44.6	.89	.71	.66	.66	.98	1.13	.46	.50	.63	.63	.62	.80	8.67
IDAHO FALLS 42 NW	13.4	18.9	29.3	43.1	52.7	59.8	69.1	66.4	56.1	44.1	28.1	18.8	41.7	.55	.49	.46	.49	.88	1.24	.44	.49	.63	.41	.33	.61	7.02
IDAHO FALLS 46 W	15.4	20.4	30.0	43.3	52.6	59.8	69.0	66.6	56.5	44.9	29.8	20.8	42.4	.73	.77	.62	.51	1.10	1.09	.26	.48	.35	.66	.41	.59	7.57
POCATELLO AP	22.3	27.2	35.8	46.5	55.1	62.8	72.4	70.0	60.2	49.1	35.0	27.4	47.0	1.21	.92	1.02	1.06	1.13	.96	.51	.55	.61	.89	.99	1.00	10.85
SUGAR	17.5	21.5	29.9	43.8	52.6	59.3	66.6	63.9	55.6	45.5	31.3	22.7	42.5	1.12	1.15	.89	.80	1.13	1.42	.51	.62	.73	.78	.88	1.21	11.24
DIVISION	19.6	24.1	32.6	44.6	53.5	60.5	69.1	66.7	57.8	47.2	32.6	24.5	44.4	1.03	.89	.82	.85	1.16	1.26	.50	.58	.65	.81	.80	.96	10.31
EASTERN HIGHLANDS																										
#DRIGGS	17.3	21.1	27.1	38.6	47.9	55.0	63.7	62.1	53.7	43.6	29.0	21.9	40.1	1.41	1.40	1.17	1.10	1.74	2.05	.86	1.22	1.11	1.29	1.05	1.39	15.79
#GRACE	18.9	22.5	29.4	41.3	50.5	57.4	65.8	64.3	56.1	45.7	31.3	23.5	42.2	1.14	1.17	1.13	1.36	1.81	1.46	.78	.91	1.04	1.13	1.14	1.13	14.20
#LIFTON PUMPING STA	17.4	19.4	26.7	40.5	51.2	59.0	66.9	64.4	55.6	44.8	31.1	23.3	41.7	.68	.67	.77	1.02	1.16	.94	.58	.75	.78	.91	.68	.68	9.62
#MALAD	22.7	27.2	35.4	46.4	54.7	62.1	71.0	69.3	60.4	49.3	35.1	27.3	46.7	1.51	1.32	1.11	1.21	1.38	1.25	.74	.79	.90	.98	1.25	1.53	13.97
#MONTPELIER RS	17.8	20.8	28.0	40.8	50.5	58.0	66.4	64.4	55.6	44.8	30.6	22.6	41.7	1.15	1.11	1.28	1.38	1.44	1.48	.65	.84	.93	1.16	1.08	1.17	13.67
OAKLEY	27.5	31.9	38.4	47.2	55.0	62.0	71.3	69.2	60.7	51.0	38.4	31.7	48.7	.82	.69	.84	1.08	1.37	1.07	.62	.57	.61	.78	.80	.83	10.08
#PRESTON 2 SE	21.9	26.6	35.1	46.2	54.5	61.7	70.3	68.4	59.5	48.8	34.9	27.1	46.3	1.50	1.28	1.41	1.73	1.75	1.40	.65	.84	.96	1.19	1.41	1.37	15.49
DIVISION	19.1	23.0	29.9	41.6	50.7	57.8	66.3	64.5	56.0	45.6	31.4	23.7	42.5	1.37	1.29	1.24	1.27	1.64	1.60	.76	.92	.96	1.16	1.19	1.42	14.82

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1963 REVISIONS AND ADDITIONS TO CLIMATOGRAPHY OF THE UNITED STATES NO. 81-8
IDAHO
TABLE I — NORMALS FOR FIRST ORDER STATIONS

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
BOISE AP													
G2838 T 5													
MAX TEMP	36.1	42.4	51.5	63.3	71.9	80.5	91.4	88.7	78.8	65.3	48.4	39.4	63.1
MIN TEMP	22.1	26.5	31.9	37.4	44.5	51.1	59.0	55.5	46.6	37.9	28.7	25.0	38.9
AVG TEMP	29.1	34.5	41.7	50.4	58.2	65.8	75.2	72.1	62.7	51.6	38.6	32.2	51.0
DEG DAYS	1113	854	722	438	245	81	0	0	132	415	792	1017	5809
POCATELLO AP H4444 T 6													
AVG TEMP								70.1	60.3				
DEG DAYS								0	172				7033

REVISIONS TO FIRST ORDER STATIONS IN TABLE I AFFECT THE SAME STATIONS IN TABLE II.

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