



United States Climate Normals, 1971-2000 National Weather Service Snow Normals

National Climatic Data Center/NESDIS/NOAA
October 1, 2002

Description:

A climate normal is defined, by convention, as the arithmetic mean of a climatological element computed over three consecutive decades (WMO, 1989). Based upon this definition, snow normals have been computed for the 1971-2000 period for over 500 National Weather Service first-order stations (please see attached inventory). Snow normals were computed for mean snowfall (503 stations), mean snow depth (267 stations), number of days with snowfall ≥ 0.1 " (525 stations), and number of days with snowfall ≥ 1.0 " (525 stations). The snow normals data includes four monthly ASCII files and two daily ASCII files (derived from the monthly products):

Monthly Products:

Description	Filename*	Code
Mean snowfall	NWS_SNOW_MNFALL_mth.dat	874
Mean snow depth	NWS_SNOW_MNDPTH_mth.dat	884
Number of days with snowfall ≥ 0.1 "	NWS_SNOW_NDYF01_mth.dat	894
Number of days with snowfall ≥ 1.0 "	NWS_SNOW_NDYF10_mth.dat	895

*Format: (I6,I3,12(I6,1x),I7) COOP ID, Code, JAN value, ..., ANNUAL value

Daily Products:

Description	Filename*	Code
Mean snowfall	NWS_SNOW_MNFALL_dly.dat	7
Mean snow depth	NWS_SNOW_MNDPTH_dly.dat	8

*Format: (I6,I1,365(I3)) COOP ID, Code, JAN 1 value, ..., DEC 31 value (No value for FEB 29)

In addition to the data files above, a number of formatted files, in an easy-to-read layout with station information, have been prepared:

Formatted Products:

Description	Filename*
Mean snowfall (monthly/daily)	NWS_SNOW_MNFALL_fmt.dat
Mean snow depth (monthly/daily)	NWS_SNOW_MNDPTH_fmt.dat
Number of days with snowfall ≥ 0.1 ";1.0"	NWS_SNOW_NDYFXX_fmt.dat

*Header information includes Cooperative Network ID, station name, state abbreviation, NCDC climate division, NWS call sign, latitude/longitude (degrees/minutes/seconds), elevation (feet), and other normals elements (X=maximum temperature, N=minimum temperature, P=precipitation). Trace values are indicated with a 'T'.

Computational Methodology:

The snow normals were computed from sequential values for the 1971-2000 period. These values were obtained from the National Climatic Data Center's U.S. Snow Climatology database. For snowfall, the stringent standard for assigning missing monthly values in the Snow Climatology was relaxed in order to maximize completeness of the sequential values.

Thirty-year normals for each month were computed based on the average of non-missing months (with a minimum of ten non-missing years required). The annual value is the sum of the twelve monthly normals. For snow depth and number of days elements, the monthly normals were computed to hundredths of an inch, and then rounded as appropriate for the element: to whole inches for snow depth (with non-zero values of less than 0.50" assigned a Trace); and to tenths of a day for number of days elements. Monthly snowfall was computed to a tenth of an inch, with non-zero of less than 0.05" assigned a trace). All trace values are indicated with a '-88' in the data files and 'T' in the formatted files.

Daily snowfall and snow depth values are *not* simple means of the observed daily values. They are interpolated from the much less variable monthly normals by use of the natural spline function (Greville, 1967). The procedure involved constructing a cumulative series of monthly sums from the monthly normals. The cumulative series was for a 24-month period (July, August, ..., December, January, ..., December, January, ..., June), so that the interpolating function could adequately fit the end points in the annual series.

For daily snow depth, values were computed to hundredths of an inch, rounded to tenths of an inch, spline fit using the monthly values times the number of days, and then rounded to whole inches (with non-zero values of less than 0.50" assigned a trace). Then, consecutive days of trace values separated from the primary winter season rise and fall on non-zero consecutive values were assigned a value of zero to remove spurious trace amounts. For daily snowfall, spline values were augmented with trace values proportional to one-half the number the preceding or following count of days with 0.1" (with less than 10 days of zero values between traces assigned a trace). Non-trace daily snowfall values sum to a non-trace monthly value.

Greville, T.N.E., 1967: "Spline functions, interpolation, and numerical quadrature," *Mathematical Methods for Digital Computers*, Vol. II, A. Ralston and H.S. Wilf (eds.), pp.156-168, Wiley, New York.
World Meteorological Organization, 1989: *Calculation of Monthly and Annual 30-Year Standard Normals, WCDP-No. 10, WMO-TD/No. 341*, Geneva: World Meteorological Organization.

**NWS Snow Normals
Station Inventory
(COOP ID, Call Sign, Elements, Name, State Abbreviation)**

Elements:

A: Mean Snowfall

B: Mean Snow Depth

C: Number of Days with snowfall >= 0.1"

D: Number of Days with snowfall >= 1.0"

010272	KANB	ABCD	ANNISTON METRO AP	AL	046742	KPRB	ABCD	PASO ROBLES MUNICIPAL AP	CA
010831	KBHM	ABCD	BIRMINGHAM INTL AP	AL	047292	KRBL	ABCD	RED BLUFF AP	CA
014064	KHSV	ABCD	HUNTSVILLE INTL AP	AL	047470	KRAL	ABCD	RIVERSIDE FIRE STA 3	CA
015478	KMOB	ABCD	MOBILE RGNL AP	AL	047630	KSAC	ABCD	SACRAMENTO AP	CA
015550	KMGH	ABCD	MONTGOMERY DANNELLY AP	AL	047669	KSNS	ABCD	SALINAS AP	CA
015749	KMSL	ABCD	MUSCLE SHOALS AP	AL	047735	KSDB	-B--	SANDBERG	CA
018380	KTCL	ABCD	TUSCALOOSA ACFD	AL	047740	KSAN	ABCD	SAN DIEGO LINDBERGH AP	CA
022462	KDVT	ABCD	DEER VALLEY (PHOENIX)	AZ	047769	KSFO	ABCD	SAN FRANCISCO INTL AP	CA
022664	KDUG	ABCD	DOUGLAS BISBEE INTL AP	AZ	047905	KSBA	ABCD	SANTA BARBARA MNCPL AP	CA
023010	KFLG	A-CD	FLAGSTAFF PULLIAM AP	AZ	047946	KSMX	ABCD	SANTA MARIA AP	CA
026481	KPHX	ABCD	PHOENIX SKY HRBR INTL AP	AZ	048558	KSCK	ABCD	STOCKTON AP	CA
027390	KSAD	ABCD	SAFFORD AGRICULTRL CTR	AZ	048702	KSVE	A-CD	SUSANVILLE 2 SW	CA
027855	KSOW	ABCD	SHOW LOW AP	AZ	048892	KTRM	ABCD	THERMAL RGNL AP	CA
028820	KTUS	ABCD	TUCSON INTL AP	AZ	048973	KTOA	ABCD	TORRANCE	CA
029439	KINW	ABCD	WINSLOW AP	AZ	049122	KUKI	ABCD	UKIAH	CA
029660	KYUM	ABCD	YUMA AP	AZ	049473	KWVI	ABCD	WATSONVILLE WATERWORKS	CA
032300	KELD	ABCD	EL DORADO S AZ RGNL AP	AR	049866	KSIY	ABCD	YREKA SISKIYOU CO	CA
032444	KFYV	ABCD	FAYETTEVILLE EXP STN	AR	050114	KAKO	A-CD	AKRON 1 N	CO
032574	KFSM	ABCD	FORT SMITH RGNL AP	AR	050130	KALS	A-CD	ALAMOSA BERGMAN FIELD	CO
033165	KHRO	ABCD	HARRISON BOONE CO AP	AR	051778	KCOS	A-CD	COLORADO SPRINGS MNPL AP	CO
034248	KLIT	ABCD	LITTLE ROCK ADAMS AP	AR	052220	KDEN	A-CD	DENVER STAPELTON	CO
035320	KLZK	ABCD	NORTH LITTLE ROCK AP	AR	053488	KGJT	A-CD	GRAND JUNCTION WALKER AP	CO
037048	KTXK	ABCD	TEXARKANA WEBB FIELD	AR	054720	KLHX	A-CD	LA JUNTA 4 NNE	CO
040192	KFUL	ABCD	ANAHEIM	CA	055018	KLIC	A-CD	LIMON	CO
040442	KBFL	ABCD	BAKERSFIELD KERN CO AP	CA	056740	KPUB	A-CD	PUEBLO AP	CO
040609	KBUO	ABCD	BEAUMONT 1 E	CA	058434	KTAD	A-CD	TRINIDAD AP	CO
040822	KBIH	ABCD	BISHOP AP	CA	060806	KBDR	A-CD	BRIDGEPORT SIKORSKY AP	CT
040897	KBLU	A-CD	BLUE CANYON	CA	063456	KBDL	A-CD	HARTFORD BRADLEY INTL AP	CT
040927	KBLH	ABCD	BLYTHE AP	CA	064767	KMMK	ABCD	MIDDLETOWN 4 W (MERIDEN)	CT
041194	KBUR	ABCD	BURBANK VALLEY PUMP PLNT	CA	079595	KILG	A-CD	WILMINGTON NEW CASTLE AP	DE
041424	KCZZ	ABCD	CAMPO	CA	080211	KAAF	ABCD	APALACHICOLA AP	FL
041733	KNID	ABCD	CHINA LAKE ARMITAGE	CA	081986	KCEW	ABCD	CRESTVIEW BOB SIKES AP	FL
042147	KCEC	ABCD	CRESCENT CITY 3 NNW	CA	082008	KCTY	ABCD	CROSS CITY 2 WNW	FL
042257	KDAG	ABCD	DAGGETT BARSTOW AP	CA	082158	KDAB	ABCD	DAYTONA BEACH INTL AP	FL
042910	KEKA	ABCD	EUREKA WFO WOODLEY IS	CA	083163	KFLH	ABCD	FORT LAUDERDALE	FL
043120	KONT	ABCD	FONTANA KAISER (ONTARIO)	CA	083186	KFMY	ABCD	FORT MYERS (PAGE AP)	FL
043257	KFAT	ABCD	FRESNO YOSEMITE INTL	CA	083326	KGNV	ABCD	GAINESVILLE RGNL AP	FL
044223	KIPL	ABCD	IMPERIAL	CA	084358	KJAX	ABCD	JACKSONVILLE INTL AP	FL
044749	KWJF	ABCD	LANCASTER ATC	CA	084570	KEYW	ABCD	KEY WEST INTL AP	FL
045085	KLGB	ABCD	LONG BEACH AP	CA	085612	KMLB	ABCD	MELBOURNE WFO	FL
045114	KLAX	ABCD	LOS ANGELES INTL AP	CA	085663	KMIA	ABCD	MIAMI INTL AP	FL
045115	KCQT	ABCD	LOS ANGELES DOWNTOWN USC	CA	086078	KAPF	ABCD	NAPLES	FL
045738	KMOD	ABCD	MODESTO CITY-COUNTY AP	CA	086628	KMCO	ABCD	ORLANDO INTL AP	FL
045795	KMRY	ABCD	MONTEREY	CA	086842	KPFN	ABCD	PANAMA CITY 5 NE	FL
045866	K87Q	ABCD	MORRO BAY FIRE DEPT	CA	086997	KPNS	ABCD	PENSACOLA RGNL AP	FL
045983	KMHS	ABCD	MOUNT SHASTA	CA	087886	KSPG	ABCD	ST PETERSBURG	FL
046118	KEED	ABCD	NEEDLES AP	CA	087982	KSFB	ABCD	SANFORD ORLANDO	FL
046144	KOAK	ABCD	NEWARK (OAKLAND)	CA	088758	KTLH	ABCD	TALLAHASSEE MUNICIPAL AP	FL
046569	KOXR	ABCD	OXNARD (CAMARILLO)	CA	088788	KTPA	ABCD	TAMPA INTL AP	FL
046635	KPSP	ABCD	PALM SPRINGS	CA	089214	KVRB	ABCD	VERO BEACH MUNI ARPT	FL

089525	KPBI	ABCD	WEST PALM BEACH INTL AP	FL	160549	KBTR	ABCD	BATON ROUGE RYAN AP	LA
090140	KABY	ABCD	ALBANY 3 SE	GA	161157	KBVE	-B--	BOOTHVILLE	LA
090211	KAMG	ABCD	ALMA BACON COUNTY AP	GA	165026	KLFT	ABCD	LAFAYETTE REG AP	LA
090435	KAHN	ABCD	ATHENS BEN EPPS AP	GA	165078	KLCH	ABCD	LAKE CHARLES AP	LA
090451	KATL	ABCD	ATLANTA HARTSFIELD AP	GA	166303	KMLU	ABCD	MONROE RGNL AP	LA
090495	KAGS	ABCD	AUGUSTA BUSH FIELD AP	GA	166660	KMSY	ABCD	NEW ORLEANS INTL AP	LA
091345	KSSI	ABCD	BRUNSWICK MCKINNON AP	GA	168440	KSHV	ABCD	SHREVEPORT AP	LA
092166	KCSG	ABCD	COLUMBUS METRO AP	GA	168543	KLIX	ABCD	SLIDELL WSMO	LA
095443	KMCN	ABCD	MACON MIDDLE GA RGNL AP	GA	170275	KAUG	A-CD	AUGUSTA AP	ME
097600	KRMG	ABCD	ROME	GA	170355	KBGR	A-CD	BANGOR INTL AP	ME
097847	KSAV	ABCD	SAVANNAH MUNICIPAL AP	GA	171175	KCAR	A-CD	CARIBOU MUNICIPAL AP	ME
101022	KBOI	ABCD	BOISE AIR TERMINAL	ID	173892	KHUL	A-CD	HOULTON INTL AP	ME
101303	KBYI	A-CD	BURLEY MUNICIPAL AP	ID	175304	KMLT	A-CD	MILLINOCKET	ME
103143	KP69	ABCD	FENN RANGER STN (LOWELL)	ID	176905	KPWM	A-CD	PORTLAND INTL AP	ME
104457	KIDA	A-CD	IDAHO FALLS FANNING AP	ID	180465	KBWI	ABCD	BALTIMORE-WASHINGTON AP	MD
105241	KLWS	A-CD	LEWISTON AP	ID	188005	KSBY	ABCD	SALISBURY FAA ARPT	MD
105559	KMLD	A-CD	MALAD CITY AP	ID	190736	KMQE	A-CD	BLUE HILL OBS MILTON	MA
105708	KMYL	ABCD	MCCALL	ID	190770	KBOS	A-CD	BOSTON LOGAN INTL AP	MA
107211	KPIH	A-CD	POCATELLO RGNL AP	ID	191386	KCQX	ABCD	CHATHAM MUNICIPAL AP	MA
109303	KTFW	ABCD	TWIN FALLS 6 E	ID	199923	KORH	A-CD	WORCESTER RGNL AP	MA
111549	KORD	A-CD	CHICAGO OHARE INTL AP	IL	200164	KAPN	A-CD	ALPENA COLLINS AP	MI
111577	KMDW	ABCD	CHICAGO MIDWAY AP 3 SW	IL	202103	KDTW	A-CD	DETROIT METRO AP	MI
115751	KMLI	A-CD	MOLINE QUAD CITY AP	IL	202846	KFNT	A-CD	FLINT BISHOP INTL AP	MI
116711	KPIA	A-CD	PEORIA GTR PEORIA AP	IL	203096	KGLR	ABCD	GAYLORD	MI
117072	KUIN	A-CD	QUINCY BALDWIN AP	IL	203333	KGRR	A-CD	GRAND RAPIDS INTL AP	MI
117382	KRFD	A-CD	ROCKFORD AP	IL	203585	KP58	A-CD	HARBOR BEACH 1 SSE	MI
118179	KSPI	A-CD	SPRINGFIELD CAPITAL AP	IL	203908	KCMX	A-CD	HOUGHTON CO AP (HANCOCK)	MI
122738	KEVV	ABCD	EVANSVILLE INTL AP	IN	203936	KHTL	A-CD	HOUGHTON LAKE ROSCOMMON	MI
123037	KFWA	A-CD	FORT WAYNE BAER AP	IN	204090	KIMT	ABCD	IRON MTN-KINGSFORD WWTP	MI
124259	KIND	A-CD	INDIANAPOLIS INTL AP	IN	204150	KJXN	A-CD	JACKSON CO AP	MI
128187	KSNB	A-CD	SOUTH BEND RGNL AP	IN	204641	KLAN	A-CD	LANSING CAPITAL CITY AP	MI
129424	KLAF	A-CD	WEST LAFAYETTE	IN	205184	KMQT	A-CD	MARQUETTE CO AP	MI
131060	KBRL	ABCD	BURLINGTON RADIO KBUR	IA	205650	KMTC	A-CD	MOUNT CLEMENS ANG BASE	MI
131314	KCID	A-CD	CEDAR RAPIDS AP	IA	205712	KMKG	A-CD	MUSKEGON COUNTY AP	MI
132203	KDSM	A-CD	DES MOINES AP	IA	206438	KPLN	A-CD	PELLSTON RGNL AP	MI
132367	KDBQ	A-CD	DUBUQUE AP	IA	207227	KMBS	A-CD	SAGINAW TRI STATE AP	MI
135198	KMIW	ABCD	MARSHALLTOWN	IA	207366	KANJ	A-CD	SAULT STE MARIE AP	MI
135235	KMCW	A-CD	MASON CITY AP	IA	208251	KTVK	A-CD	TRAVERSE CITY AP	MI
136389	KOTM	A-CD	OTTUMWA AP	IA	210112	KAXN	A-CD	ALEXANDRIA CHANDLER AP	MN
137708	KSUX	A-CD	SIOUX CITY AP	IA	212248	KDLH	A-CD	DULUTH INTL AP	MN
137844	KSPW	A-CD	SPENCER 1 N	IA	213730	KHIB	A-CD	HIBBING CHISHOLM AP	MN
138706	KALO	A-CD	WATERLOO MUNICIPAL AP	IA	214026	KINL	A-CD	INTL FALLS AP	MN
141427	KCNU	A-CD	CHANUTE JOHNSON AP	KS	215435	KMSP	A-CD	MINNEAPOLIS INTL AP	MN
141767	KCNK	A-CD	CONCORDIA BLOSSER AP	KS	216360	KPKD	ABCD	PARK RAPIDS 2 S	MN
142164	KDDC	A-CD	DODGE CITY RGNL AP	KS	216835	KRWF	A-CD	REDWOOD FALLS MUNICIPAL	MN
142975	KGCK	A-CD	GARDEN CITY 9 ESE	KS	217004	KRST	A-CD	ROCHESTER MUNICIPAL AP	MN
143153	KGLD	A-CD	GOODLAND RENNER AP	KS	217294	KSTC	A-CD	ST CLOUD MUNICIPAL AP	MN
145173	KP28	A-CD	MEDICINE LODGE	KS	219170	KOTG	ABCD	WORTHINGTON 2 NNE	MN
145856	KHLC	ABCD	NORTON 9 SSE (HILL CITY)	KS	223627	KGWO	ABCD	GREENWOOD LEFLORE AP	MS
147046	KRSL	A-CD	RUSSELL 1 E	KS	224472	KJAN	ABCD	JACKSON THOMPSON AP	MS
147160	KSLN	A-CD	SALINA MUNICIPAL AP	KS	225614	KMCB	ABCD	MCCOMB PIKE CO AP	MS
148167	KTOP	A-CD	TOPEKA BILLARD MNCPL AP	KS	225776	KMEI	ABCD	MERIDIAN KEY AP	MS
148830	KICT	ABCD	WICHITA MID-CONTINENT AP	KS	229003	KTUP	ABCD	TUPELO RGNL AP	MS
150909	KBWG	ABCD	BOWLING GREEN FAA AP	KY	231289	KCGI	A-CD	CAPE GIRARDEAU AP	MO
151855	KCVG	A-CD	CINCINNATI COVINGTON AP	KY	231791	KCOU	A-CD	COLUMBIA RGNL AP	MO
153028	KFFT	-BCD	FRANKFORT LOCK 4	KY	234315	KJLN	ABCD	JOPLIN RGNL AP	MO
154202	KJKL	A-CD	JACKSON CARROLL AP	KY	234358	KMCI	A-CD	KANSAS CITY INTL AP	MO
154746	KLEX	A-CD	LEXINGTON BLUE GRASS AP	KY	234359	KMKC	--CD	KANSAS CITY DOWNTOWN AP	MO
154898	KLOZ	ABCD	LONDON CORBIN AP	KY	234544	KIRK	A-CD	KIRKSVILLE	MO
154954	KSDF	ABCD	LOUISVILLE STANDIFORD AP	KY	236791	KPOF	A-CD	POPLAR BLUFF	MO
156110	KPAH	ABCD	PADUCAH BARKLEY RGNL AP	KY	237435	KSTJ	A-CD	ST JOSEPH 4 WNW	MO
160098	KAEX	ABCD	ALEXANDRIA INTL AP	LA	237455	KSTL	A-CD	ST LOUIS INTL AP	MO
160104	KESF	-BCD	ALEXANDRIA ESLER AP	LA	237632	KDMO	A-CD	SEDALIA WATER PLANT	MO

237976	KSGF	A-CD	SPRINGFIELD REG AP	MO	304130	KISP	--CD	ISLIP LI MACARTHUR AP	NY
238614	KVIH	A-CD	VICHY ROLLA NATL AP	MO	305134	KMSS	A-CD	MASSENA AP	NY
240622	KBZN	A-CD	BELGRADE AP (BOZEMAN)	MT	305801	KNYC	ABCD	NEW YORK CITY CENTRAL PK	NY
240807	KBIL	A-CD	BILLINGS INTL AP	MT	305803	KJFK	ABCD	NEW YORK JFK INTL AP	NY
241318	KBTM	A-CD	BUTTE MOONEY AP	MT	305811	KLGA	ABCD	NEW YORK LA GUARDIA AP	NY
242173	KCTB	A-CD	CUT BANK MUNICIPAL AP	MT	306820	KPOU	A-CD	POUGHKEEPSIE	NY
243558	KGGW	A-CD	GLASGOW INTL AP	MT	307167	KROC	A-CD	ROCHESTER MONROE CO AP	NY
243751	KGTF	A-CD	GREAT FALLS INTL AP	MT	308383	KSyr	A-CD	SYRACUSE HANCOCK INTL AP	NY
243996	KHVR	A-CD	HAVRE CITY CO AP	MT	308737	KUCA	A-CD	UTICA FAA AP	NY
244055	KHLN	A-CD	HELENA AP	MT	309005	KART	A-CD	WATERTOWN AP	NY
244558	KFCN	A-CD	KALISPELL GLACIER PK AP	MT	309140	KHPN	ABCD	WESTCHESTER CO AP	NY
244985	KLWT	A-CD	LEWISTOWN MUNICIPAL AP	MT	310300	KAVL	ABCD	ASHEVILLE RGNL AP	NC
245086	KLVM	ABCD	LIVINGSTON AP	MT	311458	KHSE	ABCD	CAPE HATTERAS NWS BLDG	NC
245690	KMLS	A-CD	MILES CITY AP	MT	311690	KCLT	ABCD	CHARLOTTE DGLAS INTL AP	NC
245745	KMSO	A-CD	MISSOULA INTL AP	MT	312719	KECG	-BCD	ELIZABETH CITY	NC
248857	KWEY	A-CD	WEST YELLOWSTONE	MT	313510	KGSB	ABCD	GOLDSBORO 4 SE	NC
251200	KBBW	A-CD	BROKEN BOW 2 W	NE	313630	KGSO	ABCD	GREENSBORO RGNL AP	NC
251575	KCDR	A-CD	CHADRON 1 SSW	NE	314020	KHKY	ABCD	HICKORY RGNL AP	NC
252850	KFNB	ABCD	FALLS CITY 2 NE	NE	316108	KEWN	ABCD	NEW BERN CRAVEN CO AP	NC
253395	KGRI	A-CD	GRAND ISLAND CTR NE AP	NE	316891	KPOB	ABCD	POPE AFB	NC
253660	KHSI	ABCD	HASTINGS 4 N	NE	317069	KRDU	ABCD	RALEIGH DURHAM AP	NC
254110	KIML	ABCD	IMPERIAL MUNICIPAL AP	NE	319457	KILM	ABCD	WILMINGTON NEW HANVR AP	NC
254335	KEAR	A-CD	KEARNEY 4 NE	NE	320819	KBIS	A-CD	BISMARCK MUNICIPAL AP	ND
254795	KLNK	A-CD	LINCOLN AP	NE	322183	KDIK	A-CD	DICKINSON AP	ND
255310	KMCK	ABCD	MCCOOK	NE	322859	KFAR	A-CD	FARGO HECTOR AP	ND
255995	KOFK	A-CD	NORFOLK AP	NE	323376	KN60	--CD	GARRISON 1 NNW	ND
256040	KODX	ABCD	NORTH LOUP ORD	NE	323616	KGFK	A-CD	GRAND FORKS INTL AP	ND
256065	KLBF	A-CD	NORTH PLATTE RGNL AP	NE	324413	KJMS	A-CD	JAMESTOWN MUNICIPAL AP	ND
256255	KOMA	A-CD	OMAHA EPPELY AP	NE	325988	KMOT	A-CD	MINOT AP	ND
257665	KBFF	A-CD	SCOTTSBLUFF AP	NE	329425	KISN	A-CD	WILLISTON SLOULIN AP	ND
257835	KSNY	A-CD	SIDNEY 3 S	NE	330058	KCAK	A-CD	AKRON CANTON AP	OH
258760	KVTN	A-CD	VALENTINE MILLER AP	NE	331576	KLUK	A-CD	CINCINNATI LUNKEN AP	OH
261358	KP38	A-CD	CALIENTE	NV	331657	KCLE	A-CD	CLEVELAND HOPKNS INTL AP	OH
262251	KDRA	--CD	DESERT ROCK AP	NV	331786	KCMH	ABCD	COLUMBUS INTL AP	OH
262573	KEKO	A-CD	ELKO	NV	332075	KDAY	ABCD	DAYTON INTL AP	OH
262631	KELY	A-CD	ELY	NV	332786	KFDY	A-CD	FINDLAY AP	OH
262708	KP68	A-CD	EUREKA	NV	334865	KMFD	A-CD	MANSFIELD LAHM AP	OH
264436	KLAS	ABCD	LAS VEGAS AP	NV	338357	KTOL	A-CD	TOLEDO EXPRESS AP	OH
264700	KLOL	ABCD	LOVELOCK DERBY AP	NV	339219	KILN	ABCD	WILMINGTON 3 N	OH
266779	KRNO	A-CD	RENO CANNON INTL AP	NV	339406	KYNG	A-CD	YOUNGSTOWN MUNICIPAL AP	OH
268170	KTPH	A-CD	TONOPAH AP	NV	340548	KBVO	ABCD	BARTLESVILLE 2 W	OK
269171	KWMC	A-CD	WINNEMUCCA MUNICIPAL AP	NV	343407	KGAG	ABCD	GAGE AP	OK
271683	KCON	A-CD	CONCORD MUNICIPAL AP	NH	344204	KHBR	ABCD	HOBART MUNICIPAL AP	OK
274656	KLEB	A-CD	LEBANON MUNICIPAL AP	NH	345664	KMLC	ABCD	MCLESTER MUNICIPAL AP	OK
275639	KMWN	A-CD	MOUNT WASHINGTON	NH	346661	KOKC	ABCD	OKLAHOMA CITY AP	OK
280311	KACY	ABCD	ATLANTIC CITY AP	NJ	347201	KPNC	ABCD	PONCA CITY FAA AP	OK
285581	KMIV	ABCD	MILLVILLE MUNICIPAL AP	NJ	348501	KSWO	ABCD	STILLWATER 2 W	OK
286026	KEWR	ABCD	NEWARK INTL AP	NJ	348992	KTUL	ABCD	TULSA INTL AP	OK
290234	KABQ	ABCD	ALBUQUERQUE INTL AP	NM	350328	KAST	-BCD	ASTORIA CLATSOP CO AP	OR
291475	KCNM	ABCD	CARLSBAD AP	NM	350412	KBKE	A-CD	BAKER	OR
291887	KCAO	A-CD	CLAYTON MUNICIPAL AP	NM	351175	KBNO	A-CD	BURNS MUNICIPAL AP	OR
293422	KGUP	A-CD	GALLUP MUNICIPAL AP	NM	352709	KEUG	-BCD	EUGENE MAHLON SWEET AP	OR
293682	KGNT	ABCD	GRANTS MILAN AP	NM	355429	KMFR	ABCD	MEDFORD AP	OR
294856	KLVS	A-CD	LAS VEGAS MUNICIPAL AP	NM	356032	KJNW	ABCD	NEWPORT	OR
295490	KRTN	A-CD	MAXWELL 3 NW (RATON)	NM	356073	KOTH	ABCD	NORTH BEND AP	OR
297610	KROW	ABCD	ROSWELL AP	NM	356546	KPDT	ABCD	PENDLETON MUNICIPAL AP	OR
299156	KTCC	ABCD	TUCUMCARI 4 NE	NM	356634	KMEH	ABCD	PILOT ROCK 1 SE	OR
300042	KALB	A-CD	ALBANY INTL AP	NY	356751	KPDY	ABCD	PORTLAND INTL AP	OR
300687	KBGM	A-CD	BINGHAMTON BROOME CO AP	NY	357062	KRDM	A-CD	REDMOND ROBERTS AP	OR
301012	KBUF	A-CD	BUFFALO NIAGARA INTL	NY	357310	KREO	ABCD	ROME 2 NW	OR
302610	KELM	ABCD	ELMIRA	NY	357331	KRBG	ABCD	ROSEBURG KQEN	OR
303294	KGFL	A-CD	GLENS FALLS AP	NY	357500	KSLE	ABCD	SALEM MCNARY AP	OR
303507	KRME	A-CD	GRIFFISS AFB	NY	357698	KSXT	A-CD	SEXTON SUMMIT	OR

360106	KABE	A-CD	ALLENTOWN LEHIGH VLY AP	PA	416750	KPSX	ABCD	PALACIOS MUNICIPAL AP	TX
360130	KA00	A-CD	ALTOONA BLAIR CO AP	PA	417174	KBPT	ABCD	PORT ARTHUR AP BEAUMONT	TX
360865	KBFD	A-CD	BRADFORD RGNL AP	PA	417943	KSJT	ABCD	SAN ANGELO MATHIS AP	TX
362260	KDUJ	A-CD	DUBOIS JEFFERSON CO AP	PA	417945	KSAT	ABCD	SAN ANTONIO INTL AP	TX
362682	KERI	A-CD	ERIE AP	PA	419207	KTYR	-BCD	TYLER	TX
363699	KMDT	--CD	HARRISBURG CAPITAL CITY	PA	419364	KVCT	ABCD	VICTORIA RGNL AP	TX
366889	KPHL	ABCD	PHILADELPHIA INTL AP	PA	419419	KACT	ABCD	WACO RGNL AP	TX
366993	KPIT	A-CD	PITTSBURGH INTL AP	PA	419729	KSPS	ABCD	WICHITA FALLS SHEPPRD AP	TX
369705	KAVP	A-CD	WILKES BRE SCTN AP AVOCA	PA	419830	KINK	ABCD	WINK WINKLER CO AP	TX
369728	KIPT	A-CD	WILLIAMSPORT LYCOMING AP	PA	421267	KCDC	A-CD	CEDAR CITY AP	UT
376698	KPVD	A-CD	PROVIDENCE GREEN AP	RI	425186	KLGU	ABCD	LOGAN UTAH STATE UNIV	UT
380170	KAND	ABCD	ANDERSON CO AP	SC	425654	KMLF	A-CD	MILFORD	UT
381544	KCHS	ABCD	CHARLESTON INTL AP	SC	427598	KSLC	A-CD	SALT LAKE CITY INTL AP	UT
381939	KCAE	ABCD	COLUMBIA METRO AP	SC	429382	KENV	--CD	WENDOVER	UT
383106	KFLO	ABCD	FLORENCE RGNL AP	SC	431081	KBTV	A-CD	BURLINGTON INTL AP	VT
383747	KGSP	ABCD	GRNVL SPART AP GREER	SC	435278	KMPV	A-CD	MONTPELIER AP	VT
390020	KABR	A-CD	ABERDEEN RGNL AP	SD	437054	K1V4	ABCD	SAINT JOHNSBURY	VT
392087	KCUR	A-CD	CUSTER	SD	440766	KBCB	ABCD	BLACKSBURG	VA
392852	KD07	ABCD	FAITH	SD	444720	KLFI	ABCD	LANGLEY AIR FORCE BASE	VA
394127	KHON	A-CD	HURON AP	SD	445120	KLYH	A-CD	LYNCHBURG MUNICIPAL AP	VA
394516	K9V9	ABCD	KENNEBEC	SD	446139	KORF	ABCD	NORFOLK INTL AP	VA
395671	KMHE	A-CD	MITCHELL 2 N	SD	447201	KRIC	ABCD	RICHMOND BYRD INTL AP	VA
395691	KMBG	ABCD	MOBRIDGE 2 NNW	SD	447285	KROA	ABCD	ROANOKE WOODRUM AP	VA
396552	KPHP	ABCD	PHILIP 1 S	SD	448323	KWAL	-BCD	TANGIER ISLAND	VA
396597	KPIR	A-CD	PIERRE RGNL AP	SD	448903	KIAD	ABCD	WASHINGTON DULLES INTL	VA
396937	KRAP	A-CD	RAPID CITY RGNL AP	SD	448906	KDCA	ABCD	WASHINGTON REAGAN NTL AP	VA
397062	K2WX	ABCD	REDIG 11 NE BUFFALO	SD	450574	KBLI	ABCD	BELLINGHAM INTL AP	WA
397667	KFSD	A-CD	SIOUX FALLS AP	SD	451968	KDLS	ABCD	DALLESPORE AP	WA
397742	K8D3	A-CD	SISSETON	SD	452614	KEPH	--CD	EPHRATA AP	WA
398932	KATY	A-CD	WATERTOWN MUNICIPAL AP	SD	452614	KMWH	--CD	EPHRATA AP	WA
401094	KTRI	ABCD	BRISTOL TRI CITY AP	TN	453807	KHQM	ABCD	HOQUIAM AP	WA
401656	KCHA	ABCD	CHATTANOOGA AP	TN	456114	KOLM	ABCD	OLYMPIA AP	WA
402197	KCSV	ABCD	CROSSVILLE AP	TN	456789	KPUW	A-CD	PULLMAN 2 NW	WA
402685	KDYR	ABCD	DYERSBURG AP	TN	456803	KTIW	ABCD	PUYALLUP 2 W EXP STN	WA
404556	KMKL	ABCD	JACKSON MCKELLAR-SPES AP	TN	456858	KUIL	ABCD	QUILLAYUTE AP	WA
404950	KTYS	ABCD	KNOXVILLE AP	TN	457473	KSEA	ABCD	SEATTLE TACOMA AP	WA
405954	KMEM	ABCD	MEMPHIS INTL AP	TN	457584	KSHN	-BCD	SHELTON	WA
406402	KBNA	ABCD	NASHVILLE INTL AP	TN	457938	KGEG	--CD	SPOKANE AP	WA
406750	KOQT	ABCD	OAK RIDGE ATDD	TN	457938	KSFF	--CD	SPOKANE AP	WA
410016	KABI	ABCD	ABILENE MUNICIPAL AP	TX	458009	KSMP	A-CD	STAMPEDE PASS	WA
410144	KALI	ABCD	ALICE	TX	458928	KALW	A-CD	WALLA WALLA RGNL AP	WA
410211	KAMA	ABCD	AMARILLO INTL AP	TX	459082	KEAT	A-CD	WENATCHEE AP	WA
410428	KATT	ABCD	AUSTIN CITY (CAMP MABRY)	TX	459465	KYKM	A-CD	YAKIMA MUNICIPAL AP	WA
411136	KBRO	ABCD	BROWNSVILLE AP	TX	460582	KBKW	A-CD	BECKLEY AP	WV
411698	KCDS	ABCD	CHILDRESS MUNICIPAL AP	TX	460921	KBLF	A-CD	BLUEFIELD AP	WV
411889	KCLL	ABCD	COLLEGE STATION ETRWD AP	TX	461570	KCRW	A-CD	CHARLESTON YEAGER AP	WV
412015	KCRP	ABCD	CORPUS CHRISTI INTL AP	TX	462718	KEKN	A-CD	ELKINS AP	WV
412240	KDHT	ABCD	DALHART MUNICIPAL AP	TX	464393	KHTS	ABCD	HUNTINGTON TRI STATE	WV
412242	KDFW	ABCD	DALLAS-FT WORTH INTL AP	TX	465707	KMRB	A-CD	MARTINSBURG RGNL AP	WV
412244	KDAL	ABCD	DALLAS LOVE AP	TX	466202	KMGW	A-CD	MORGANTOWN HART AP	WV
412360	KDRT	ABCD	DEL RIO INTL AP	TX	466849	KPKB	ABCD	PARKERSBURG AP	WV
412797	KELP	ABCD	EL PASO INTL AP	TX	470349	KASX	A-CD	ASHLAND EXP FARM	WI
413430	KGLS	ABCD	GALVESTON	TX	472428	KEAU	A-CD	EAU CLAIRE RGNL AP	WI
414256	KHDO	ABCD	HONDO AP	TX	472839	KFLD	ABCD	FOND DU LAC	WI
414300	KIAH	ABCD	HOUSTON BUSH INTL AP	TX	473269	KGRB	A-CD	GREEN BAY STRBL INTL AP	WI
414307	KHOU	ABCD	HOUSTON HOBBY AP	TX	474370	KLSE	A-CD	LA CROSSE MUNICIPAL AP	WI
414670	KJCT	ABCD	JUNCTION 4 SSW	TX	474821	KLNR	--CD	LONE ROCK TRI CO	WI
415341	KGGG	ABCD	LONGVIEW	TX	474961	KMSN	A-CD	MADISON DANE CO AP	WI
415411	KLBB	ABCD	LUBBOCK RGNL AP	TX	475120	KMFI	A-CD	MARSHFIELD EXP FARM	WI
415424	KLFK	ABCD	LUFKIN ANGELINA CO AP	TX	475479	KMKE	A-CD	MILWAUKEE MITCHELL AP	WI
415702	KMFE	ABCD	MCALLEN MILLER INTL AP	TX	476330	KOSH	A-CD	OSHKOSH	WI
415890	KMAF	ABCD	MIDLAND INTL AP	TX	478968	KAUW	A-CD	WAUSAU AP	WI
415958	KMWL	ABCD	MINERAL WELLS AP	TX	479335	KISW	A-CD	WISCONSIN RAPIDS	WI

480695	KBPI	--CD	BIG PINEY	WY	502820	PAED	A-CD	ELMENDORF AFB	AK
481570	KCPR	A-CD	CASPER NATRONA CO AP	WY	502968	PAFA	A-CD	FAIRBANKS INTL AP	AK
481675	KCYS	A-CD	CHEYENNE MUNICIPAL AP	WY	503465	PAGK	A-CD	GULKANA AP	AK
483855	KGCC	ABCD	GILLETTE 6 SE	WY	503490	PAHN	A-CD	HAINES	AK
484910	KJAC	A-CD	JACKSON	WY	503665	PAHO	A-CD	HOMER AP	AK
485345	KP60	A-CD	LAKE YELLOWSTONE	WY	503905	PAIL	A-CD	ILIAMNA AP	AK
485390	KLND	A-CD	LANDER AP	WY	504100	PAJN	A-CD	JUNEAU INTL AP	AK
485415	KLAR	A-CD	LARAMIE RGNL AP	WY	504546	PAEN	A-CD	KENAI MUNICIPAL AP	AK
487533	KRWL	A-CD	RAWLINS AP	WY	504766	PAKN	A-CD	KING SALMON AP	AK
487760	KRIW	ABCD	RIVERTON	WY	504988	PADQ	ABCD	KODIAK AP	AK
487845	KRKS	A-CD	ROCK SPRINGS AP	WY	505076	PAOT	A-CD	KOTZEBUE WIEN AP	AK
488155	KSHR	A-CD	SHERIDAN AP	WY	505769	PAMC	A-CD	MCGRATH AP	AK
489785	KWRL	A-CD	WORLAND MUNICIPAL AP	WY	506496	PAOM	A-CD	NOME AP	AK
500026	PADK	A-CD	ADAK	AK	506586	PAOR	A-CD	NORTHWAY AP	AK
500280	PANC	A-CD	ANCHORAGE INTL AP	AK	507783	PAPT	A-CD	PUNTILLA	AK
500352	PANT	ABCD	ANNETTE AP	AK	508118	PASN	A-CD	ST PAUL ISLAND AP	AK
500546	PABR	A-CD	BARROW AP	AK	508419	PASY	A-CD	SHEMYA USAF BASE	AK
500754	PABE	A-CD	BETHEL AP	AK	508494	PASI	A-CD	SITKA JAPONSKI AP	AK
500761	PABT	A-CD	BETTLES AP	AK	508976	PATK	A-CD	TALKEETNA AP	AK
500770	PABI	A-CD	BIG DELTA ALLEN AAF	AK	509014	PATA	A-CD	TANANA AP	AK
501492	PALR	A-CD	CHANDALAR LAKE	AK	509539	PAUM	--CD	UMIAT	AK
502102	PACD	A-CD	COLD BAY AP	AK	509686	PAVW	A-CD	VALDEZ	AK
502177	PACV	A-CD	CORDOVA AP	AK	509739	PWAA	A-CD	WALES	AK
502457	PADL	--CD	DILLINGHAM AP	AK	509941	PAYA	A-CD	YAKUTAT AP	AK
502785	PALV	ABCD	ELFIN COVE	AK					