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Computer Forecasts of Maximum and Minimum Surface Temperatures

William H. Klein, Frank Lewis, and George P. Casely



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COMPUTER FORECASTS OF MAXIMUM AND
MINIMUM SURFACE TEMPERATURES

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and
George P. Casely



OFFICE OF SYSTEMS DEVELOPMENT
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ABSTRACT

An automated system for predicting maximum and minimum surface temperatures for 12- to 60-hour projections is described. The system uses multiple regression equations derived for 131 cities in the United States and 12 in southern Canada from 18 years of daily data stratified by 2-month periods. The predictors are selected by screening upper level heights and thicknesses observed at 67 grid points in North America and surface temperatures observed at the network of 143 cities. On the average, about three-fourth of the temperature variance is explained by 4-5 variables, and the standard error of estimate is just over 4°F.

The system has been applied on an iterative basis twice daily at the National Meteorological Center (NMC) in Suitland, Md. since March 1968. Verification statistics are presented for 18 months of operational forecasts made by utilizing the barotropic and Reed numerical models as input to the multiple regression equations. During this period the automated temperature forecasts have been superior to persistence and almost as good as subjective forecasts. Results of a one-month experiment are cited to demonstrate the improvement in temperature forecasting attainable by utilizing the NMC primitive equation model as numerical input to the system. Suggestions are also made for subjective improvements by considering factors neglected in the derivation. To aid the local forecaster, a complete list of equations used in the system is presented in the appendix.

1. INTRODUCTION

In an earlier paper (Klein, Lewis, and Casely, 1967) we described an automated system for making nationwide forecasts of maximum and minimum surface temperature. Although this system was used on an operational basis as guidance at the National Meteorological Center (NMC) in Suitland, Md., from 1965 through 1967, the temperature forecasts were not as good as those produced subjectively by experienced forecasters of NMC.

At the beginning of 1968 we detected several serious errors in the data tapes and computer programs which had been used to derive the equations and make the forecasts. For example, 700- to 1000-thickness has been calculated incorrectly whenever sea level pressure was below 1000 mb, and all grid points at odd latitudes had been misplaced by ten degrees of longitude. It was therefore necessary to re-derive the multiple regression equations used for prediction. At the same time, we added 24 cities to the list of stations, changed somewhat the grid of predictors, added 2 years of recent data to the period of record, and dropped the "inflation" scheme described in our earlier paper (Klein et al., 1967). The modified system went into operation at NMC in March 1968, and the objective temperature forecasts have been competitive with subjective forecasts since that date.

Since September 16, 1968, computer forecasts of maximum and minimum surface temperatures for 24 to 60 hours in advance have been sent over national teletype, Service C, twice-daily at 0342Z and 1755Z. The forecasts are transmitted for 131 cities in the conterminous United States in the order shown in table 1, where the cities have been arranged by Weather Bureau forecast centers from west to east. The teletype code and examples are given

Table 1. Call letters and names of 131 U.S. cities for maximum-minimum temperatures (In order of transmission)

GEG - Spokane, Wash.	BOI - Boise, Idaho
PDT - Pendleton, Oreg.	SLC - Salt Lake City, Utah
YKM - Yakima, Wash.	MLF - Milford, Utah
PDX - Portland, Oreg.	ELY - Ely, Nev.
SEA - Seattle, Wash.	ABQ - Albuquerque, N. Mex.
TTI - Tatoosh, Wash.	INW - Winslow, Ariz.
BNO - Burns, Oreg.	TUS - Tuscon, Ariz.
MFR - Medford, Oreg.	PHX - Phoenix, Ariz.
SLE - Salem, Oreg.	YUM - Yuma, Ariz.
SAC - Sacramento, Calif.	CRP - Casper, Wyo.
SFO - San Francisco, Calif.	LND - Lander, Wyo.
WMC - Winnemucca, Nev.	DEN - Denver, Colo.
RNO - Reno, Nev.	PUB - Pueblo, Colo.
RBL - Red Bluff, Calif.	GJT - Grand Junction, Colo.
EKA - Eureka, Calif.	MAF - Midland, Tex.
BFL - Bakersfield, Calif.	ELP - El Paso, Tex.
FAT - Fresno, Calif.	SAT - San Antonio, Tex.
SMX - Santa Maria, Calif.	DRT - Del Rio, Tex.
LAS - Las Vegas, Nev.	HOU - Houston, Tex.
SAN - San Diego, Calif.	CRP - Corpus Christi, Tex.
LAX - Los Angeles, Calif.	BRO - Brownsville, Tex.
GGW - Glasgow, Mont. (also GSG)	OKC - Oklahoma City, Okla.
BIL - Billings, Mont.	AMA - Amarillo, Tex.
GTF - Great Falls, Mont.	FTW - Ft. Worth, Tex.
HLN - Helena, Mont.	DSM - Des Moines, Iowa
MSO - Missoula, Mont.	OMA - Omaha, Nebr.
PIH - Pocatello, Idaho	LBF - North Platte, Nebr.

MKC - Kansas City, Mo.	ATL - Atlanta, Ga.
TOP - Topeka, Kans.	BHM - Birmingham, Ala.
ICT - Wichita, Kans.	MGM - Montgomery, Ala.
DDC - Dodge City, Kans.	MOB - Mobile, Ala.
INL - International Falls, Minn.	SYR - Syracuse, N.Y.
DLH - Duluth, Minn.	BUF - Buffalo, N.Y.
STC - Saint Cloud, Minn.	PIT - Pittsburg, Pa.
FAR - Fargo, N. Dak.	CLE - Cleveland, Ohio
BIS - Bismarck, N. Dak.	CMH - Columbus, Ohio
ISN - Williston, N. Dak.	DAY - Dayton, Ohio
MSP - Minneapolis, Minn.	CVG - Cincinnati, Ohio
HON - Huron, S. Dak.	JAX - Jacksonville, Fla.
RAP - Rapid City, S. Dak.	ORL - Orlando, Fla.
STL - St. Louis, Mo.	TPA - Tampa, Fla.
CBI - Columbia, Mo.	MIA - Miami, Fla.
LOU - Louisville, Ky.	EYW - Key West, Fla.
TYS - Knoxville, Tenn.	CHS - Charleston, S.C.
BNA - Nashville, Tenn.	CLT - Charlotte, N.C.
MEM - Memphis, Tenn.	HAT - Hatteras, N.C.
LIT - Little Rock, Ark.	RDU - Raleigh, N.C.
FSM - Fort Smith, Ark.	GSO - Greensboro, N.C.
JAN - Jackson, Miss.	SBY - Salisbury, Md.
SHV - Shreveport, La.	DCA - Washington, D.C.
TLH - Tallahassee, Fla.	CRW - Charleston, W. Va.
MSY - New Orleans, La.	HTS - Huntington, W. Va.
LCH - Lake Charles, La.	ORF - Norfolk, Va.
SSM - S. Ste. Marie, Mich.	RIC - Richmond, Va.
DET - Detroit, Mich.	ROA - Roanoke, Va.
FNT - Flint, Mich.	HFD - Hartford, Conn.
GRR - Grand Rapids, Mich.	ALB - Albany, N.Y.
MKE - Milwaukee, Wis.	NYC - New York, N.Y.
GRB - Green Bay, Wis.	PHL - Philadelphia, Pa.
MSN - Madison, Wis.	IPT - Williamsport, Pa.
IND - Indianapolis, Ind.	CAR - Caribou, Maine
CHI - Chicago, Ill.	FWM - Portland, Maine
PIA - Peoria, Ill.	BTV - Burlington, Vt.
MLI - Moline, Ill.	ACK - Nantucket, Mass.
AGS - Augusta, Ga.	BOS - Boston, Mass.
AHN - Athens, Ga.	

in table 2, while part of an operational message is reproduced in figure 1. The purposes of the present paper are to explain the forecast system currently in use, present verification figures on its accuracy, and suggest ways of improving it. In addition, a complete list of the forecast equations is presented in the Appendix for information and use by local forecasters.

2. METHOD

The forecasts are prepared by a method which makes use of multiple regression equations derived for 131 first-order stations in the conterminous United States and 12 in southern Canada (plotted in fig. 2) from 18 years of daily data (1948-1965) stratified by 2-month periods

(January-February, March-April, etc.) The basic temperature data were obtained from the National Weather Records Center in Asheville, N. C., for the stations listed in table 3. The predictors were selected by the computer by screening (by pairs) the following parameters:

a) 700-mb height and 700- to 1000-mb thickness observed at 67 grid points in North America about 12 hours before the valid time of the prognostic temperature;

Table 2. Format of temperature forecast bulletin

a) If prepared from 1200 GMT data on Sept. 16:

FMUS 1 KWBC 161200

MAX-MIN TEMP FCST

HRS 24 36 48 60

STA MN MX MN MX

TUS 75101 78104

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Stations are identified by standard FAA call letters (Department of Transportation, 1968). Here the surface temperatures forecast for Tucson are: minimum of 75°F on the 17th (24 hours in advance), maximum of 101°F on the 17th (36 hours in advance, minimum of 78°F on the 18th (48 hours in advance), and maximum of 104°F on the 18th (60 hours in advance).

b) If prepared from 0000 GMT data on Jan. 23:

FMUS 1 KWBC 230000

MAX-MIN TEMP FCST

HRS 24 36 48 60

STA MX MN MX MN

INL -1-10 15 1

.

.

.

Here the forecasts for International Falls are: maximum of -1°F on the 23rd (24-hour projection), minimum of -10°F on the 24th (36-hour projection), maximum of 15°F on the 24th (48-hour projection), and minimum of 1°F on the 25th (60-hour projection).

FMUS1 KWBC 280000

		MAX MIN TEMP FCST						MAX MIN TEMP FCST			
HRS		24	36	48	60	HRS		24	36	48	60
STA		MX	MN	MX	MN	STA		MX	MN	MX	MN
GEG	74	50	77	49	PDT	80	55	84	55		
YKM	78	46	82	45	PDX	73	55	78	53		
SEA	69	55	74	54	TTI	60	53	61	52		
BNO	75	44	81	45	MFR	84	52	90	52		
LE	75	52	81	50							
SAC	93	60	98	60	SFO	80	53	82	51		
WMC	90	43	88	42	RNO	90	43	91	43		
FBL	97	64	105	65	EKA	65	53	62	52		
BFL	91	62	93	64	FAT	96	57	100	58		
SMX	83	54	83	53							
LAS	102	71	101	71	SAN	81	65	81	65		
LAX	81	64	80	64							
GGW	83	50	79	47	BIL	79	50	72	49		
GIF	78	50	71	50	HLN	80	50	75	46		
MBO	73	45	76	44							
PIH	84	50	86	48	BOI	83	50	81	50		
SLC	86	53	87	51	MLF	87	54	86	51		
ELY	84	46	82	43							
ABQ	92	61	91	61	INW	91	59	92	59		
TUS	98	73	99	73	PHX	104	74	106	73		
YUM	109	80	111	81							
CPR	86	52	82	49	LND	85	48	80	47		
DEN	86	56	82	52	PUB	89	59	88	58		
GJT	85	60	86	58							

Figure 1. -- Portion of a sample teletype bulletin giving the computer temperature forecasts prepared from data of September 28, 1968, 0000 GMT.

- b) maximum and minimum temperatures observed at the network of 143 stations about 12 or 24 hours before the prognostic valid time; and
- c) the day of the year.

Since the screening program used here can accommodate a maximum of 190 independent and 50 dependent variables, the derivations were made separately for four different parts of the continent, as illustrated by figures 3 through 6. Figure 3 shows the grid of points used for the northeast quadrant of the area. The solid black circles locate the predictand cities

Table 3. Identifying information for stations used
in derivation of temperature equations

<u>Station Call Letters</u>	<u>Asheville WBAN No.</u>	<u>Lat.</u>	<u>Long.</u>	<u>Identifier</u>
GEG	24157	47°37"	117°31"	
PDT	24155	45 41	118 51	
YKM	24243	46 34	120 32	
PDX	24229	45 36	122 36	
SEA	24233	47 26	122 20	Seattle-Tacoma Airport
TTI	24240	48 23	124 44	
BNO	24134	43 35	119 03	
MFR	24225	42 23	122 52	
SLE	24232	44 55	123 00	
SAC	23232	38 31	121 30	
SFO	23234	37 37	122 23	
WMC	24128	40 54	117 46	
RNO	23185	39 30	119 47	
RBL	24216	40 09	122 15	
EKA	24213	40 48	124 11	
BFL	23155	35 25	119 03	
FAT	93193	36 46	119 43	
SMX	23273	34 54	120 28	
LAS	23169	36 05	115 10	McCarran Field
SAN	23188	32 44	117 10	Lindbergh Field
LAX	23174	33 56	118 23	
GGW	24034	48 11	106 38	
BIL	24033	45 48	108 32	
GTF	24143	47 30	111 21	
HLN	24144	46 36	112 00	
MSO	24153	46 55	114 05	
PIH	24156	42 55	112 32	
BOI	24131	43 34	116 13	
SLC	24127	40 47	111 58	
MLF	23176	38 25	113 01	
ELY	23154	39 17	114 51	
ABQ	23050	35 03	106 37	
INW	23194	35 01	110 44	
TUS	23160	32 07	110 56	
PHX	23183	33 36	112 01	
YUM	23195	32 40	114 36	
CPR	24089	42 55	106 28	
LND	24021	42 48	108 43	
DEN	23062	39 96	104 53	
PUB	93058	38 17	104 31	
GJT	23066	39 06	108 32	
MAF	23023	31 56	102 12	Sloan Field
ELP	23044	31 48	106 24	Municipal Airport
SAT	12921	29 32	98 28	
DRT	22004	29 20	100 53	

Table 3. Continued

<u>Station Call Letters</u>	<u>Asheville WBAN No.</u>	<u>Lat.</u>	<u>Long.</u>	<u>Identifier</u>
HOU	12918	29°39"	95°17"	
CRP	12924	27 46	97 26	
BRO	12919	25 55	97 28	
OKC	13967	35 24	97 36	Will Rogers Field
AMA	23047	35 14	101 42	English Field
FTW	03927	32 50	97 03	Amon Carter
DSM	14933	41 32	93 39	
OMA	14942	41 18	95 54	
LBF	24023	41 08	100 42	
MKC	13988	39 07	94 35	
TOP	13996	39 04	95 37	
ICT	03928	37 39	97 25	
DDC	13985	37 46	99 58	
INL	14918	48 36	93 24	
DLH	14913	46 50	92 11	
STC	14926	45 35	94 11	
FAR	14914	46 54	96 48	
BIS	24011	46 46	100 45	
ISN	94014	48 10	103 38	
MSP	14922	44 53	93 15	
HON	14936	44 23	98 13	
RAP	24090	44 02	103 03	Municipal Airport
STL	13994	38 45	90 23	
CBI	13983	38 58	92 22	
LOU	93821	38 11	85 44	Standiford Field
TYS	13891	35 49	83 59	
BNA	13897	36 07	86 41	Berry Field
MEM	13893	35 03	89 59	
LIT	13963	34 44	92 14	Adams Field
FSM	13964	35 20	94 22	Municipal Airport
JAN	13956	32 20	90 13	Hawkins Field
SHV	13957	32 28	93 49	Municipal Airport
TLH	93805	30 26	84 20	
MSY	12916	29 59	90 15	Moisant Airport
LCH	13941	30 13	93 10	
SSM	14847	46 28	84 22	
DET	14822	42 24	83 00	
FNT	14826	42 58	83 44	
GRR	14830	42 54	85 40	
MKE	14839	42 57	87 54	
GRB	14898	44 29	88 08	Straubel Airport
MSN	14837	43 08	89 20	
IND	93819	39 44	86 16	Weir Cook
CHI	94846	41 59	87 54	O'Hare Airport
PIA	14842	40 40	89 41	
MLI	14923	41 27	90 31	Quad City Airport
AGS	03820	33 22	81 58	Bush Field

Table 3. Continued

<u>Station Call Letters</u>	<u>Asheville WBAN No.</u>	<u>Lat.</u>	<u>Long.</u>	<u>Identifier</u>
AHN	13873	33°57"	83°19"	
ATL	13874	33 39	84 25	
BHM	13876	33°34"	86°45"	
MGM	13895	32 18	86 24	
MOB	13894	30 41	88 14	
SYR	14771	43 04	76 16	
BUF	14733	42 56	78 43	
PIT	94823	40 30	80 13	Greater Pittsburgh Hopkins Airport
CLE	14820	41 24	81 51	
CMH	14821	40 00	82 53	
DAY	93815	39 54	84 12	
CVG	93814	39 04	80 40	Greater Cincinnati Airport
JAX	13889	30 25	81 39	
ORL	12841	28 33	81 20	
TPA	12842	27 58	82 32	
MIA	12839	25 49	80 17	
EYW	12836	24 35	81 42	
CHS	13880	32 54	80 02	
CLT	13881	35 14	80 56	
HAT	13745	35 15	75 40	
RDU	13722	35 52	78 47	
GSO	13723	36 05	79 57	
SBY	93720	38 20	75 30	
DCA	13743	38 51	77 02	
CRW	13866	38 22	81 36	
HTS	93818	38 25	82 30	
ORF	13737	36 53	76 12	
RIC	13740	37 30	77 20	
ROA	13741	37 19	79 58	
HFD	14740	41 56	72 41	Windsor Locks, Bradley Field
ALB	14735	42 45	73 48	
NYC	14732	40 46	73 52	La Guardia Field
PHL	13739	39 53	75 14	
IPT	14778	41 14	76 55	FAA
CAR	14607	46 53	67 58	
FWM	14764	43 39	70 19	
BTV	14742	44 28	73 09	
ACK	14756	41 15	70 04	
BOS	14739	42 22	71 02	

Table 3. Continued

<u>Station</u> <u>Call Letters</u>	<u>Asheville</u> <u>WBAN No.</u>	<u>Lat.</u>	<u>Long.</u>	<u>Identifier</u>
<u>Canadian Stations</u>				
YB	04705	46°22"	79°25"	North Bay Airport
QB	04708	46 48	71 23	Quebec (Ancienne Lorette)
WG	14996	49 54	97 14	Winnipeg Int'l. Airport
LH	15802	52 14	87 53	Lansdowne House, Ont.
VR	24287	49 11	123 10	Vancouver Int'l. Airport
QD	25004	53 58	101 06	The Pas
QR	25005	50 26	104 40	Regina
PA	25013	53 13	105 41	Prince Albert
YC	25110	51 06	114 01	Calgary
EG	25111	53 34	113 31	Edmonton Int'l. Airport
XS	25206	53 50	122 48	Prince George
QT	94804	48 22	89 19	Fort William (Lakehead)

for which equations were derived, the plus signs locate cities whose maximum and minimum temperatures were used as predictors, and the squares delineate the diamond grid of points where both 700-mb height and 700- to 1000-mb thickness were used as predictors. Figure 4 is similar but for the southeast quadrant of the area.

Figures 5 and 6 represent the northwest and southwest quadrants, respectively. Here an attempt was made to compensate for the absence of surface temperatures in the Pacific by use of additional heights and thicknesses, extending from latitude 25° to 70° N. and from longitude 75° to 150°W.

3. EQUATIONS

The derivation scheme is presented below. First, linear multiple regression equations were derived by the method of least squares as follows:

$$T_x^0 = a + \sum b_i Z7_i^{12} + \sum c_i H7_i^{12} + \sum d_i T_n^0 + \sum e_i T_x^{-1} + fD \quad (1)$$

$$T_n^0 = g + \sum h_i Z7_i^{00} + \sum j_i H7_i^{00} + \sum k_i T_n^{-1} + \sum l_i T_x^{-1} + mD \quad (2)$$

The first equation gives the maximum temperature today (T_x^0) as the sum of a constant (a) plus certain observed 700-mb heights at 1200 GMT ($Z7_i^{12}$), 700- to 1000-mb thicknesses at the same time ($H7_i^{12}$), minimum temperatures today (T_n^0), maximum temperatures yesterday (T_x^{-1}), and the day of the year (D), where each predictor is multiplied by its appropriate regression coefficient. Similarly, today's minimum temperature (T_n^0) is given as a linear combination of selected 700-mb heights ($Z7_i^{00}$) and thicknesses ($H7_i^{00}$) at 0000 GMT,

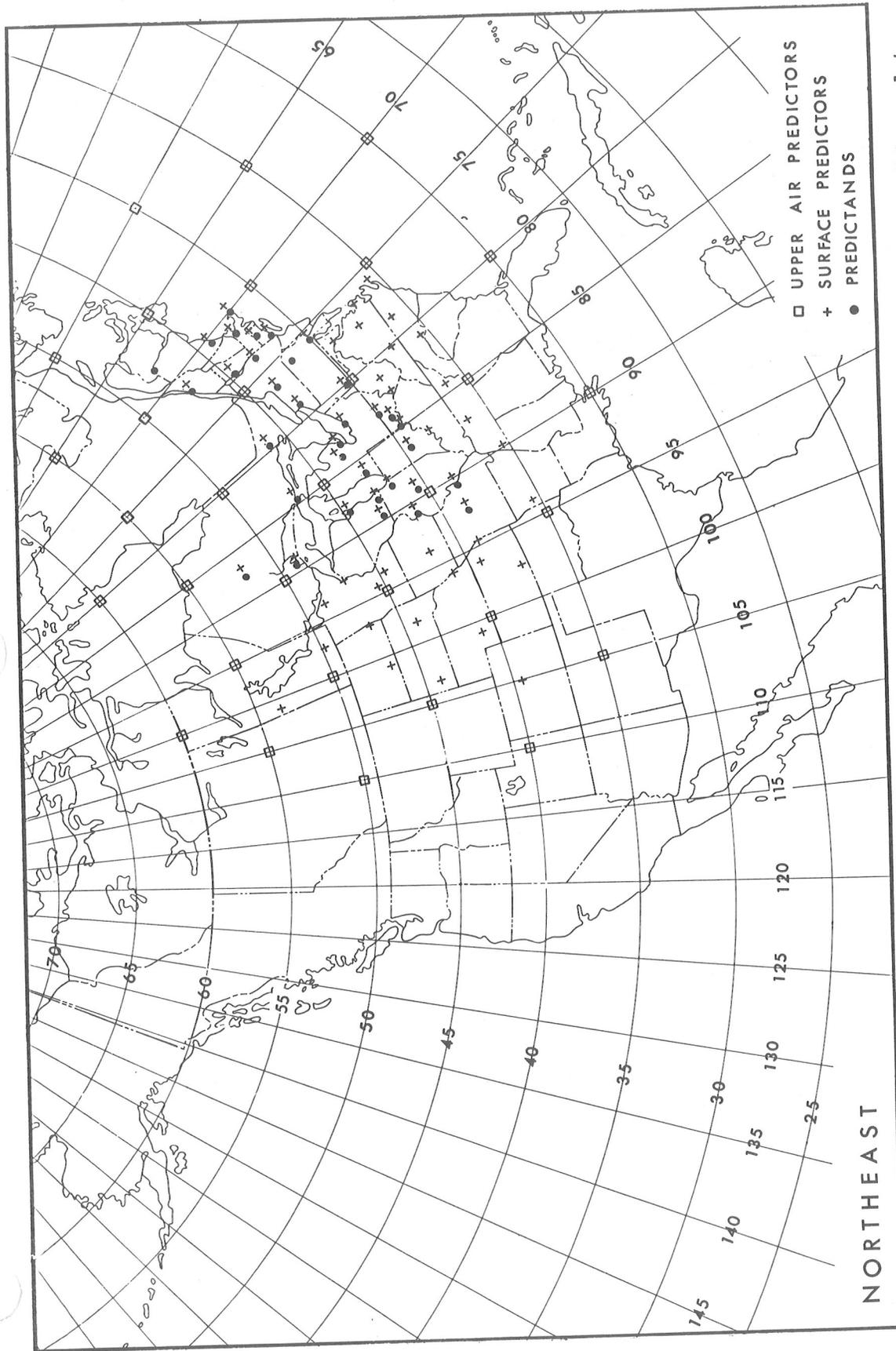


Figure 3. -- Grid of points used for the northeast quadrant. For each of the cities located by a dot, equations were derived from surface temperatures at each of the crosses and from heights and thicknesses at each of the squares.

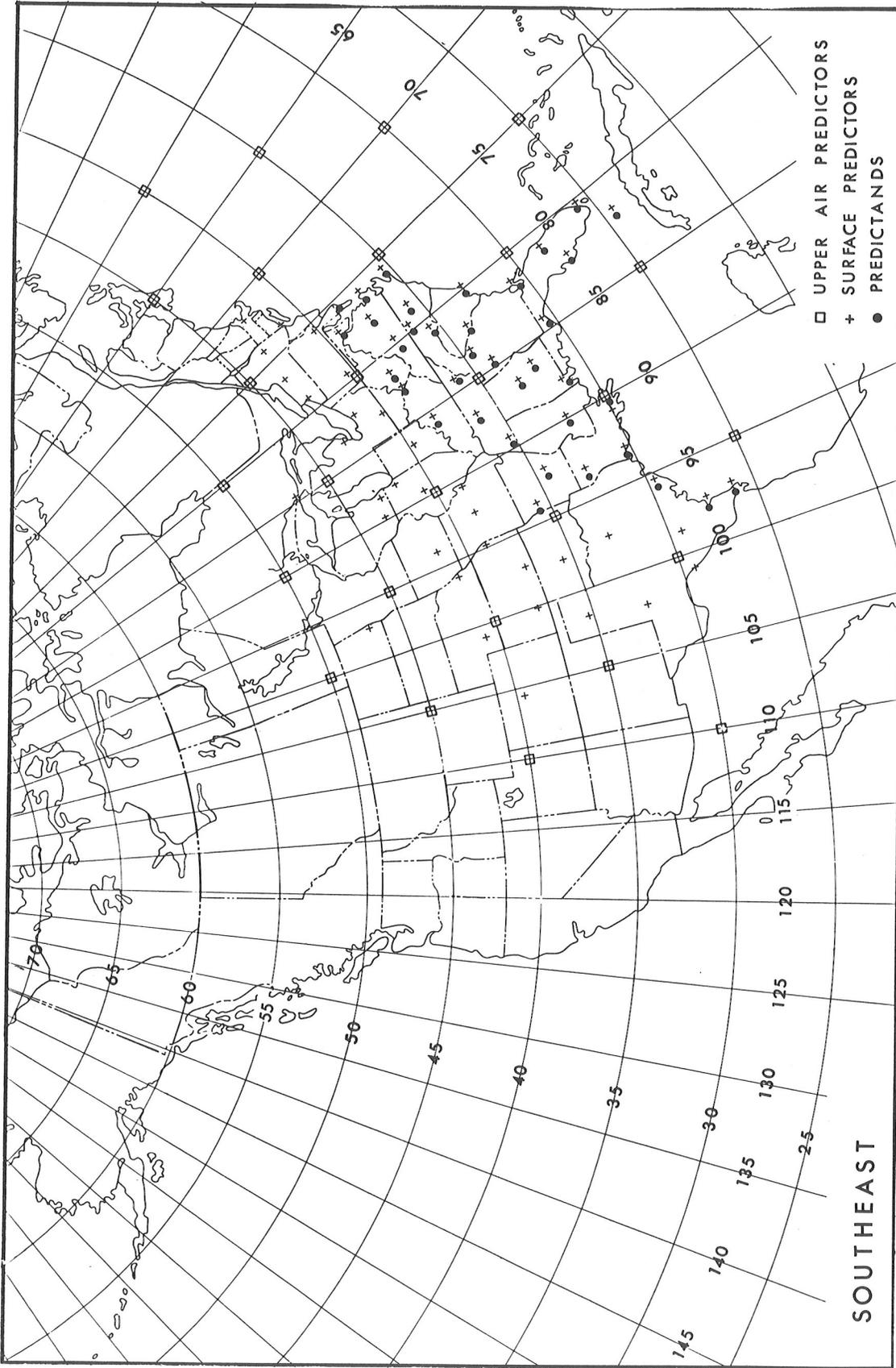


Figure 4. -- Grid of points used for the southeast quadrant. For each of the cities located by a dot, equations were derived from surface temperatures at each of the crosses and from heights and thicknesses at each of the squares.

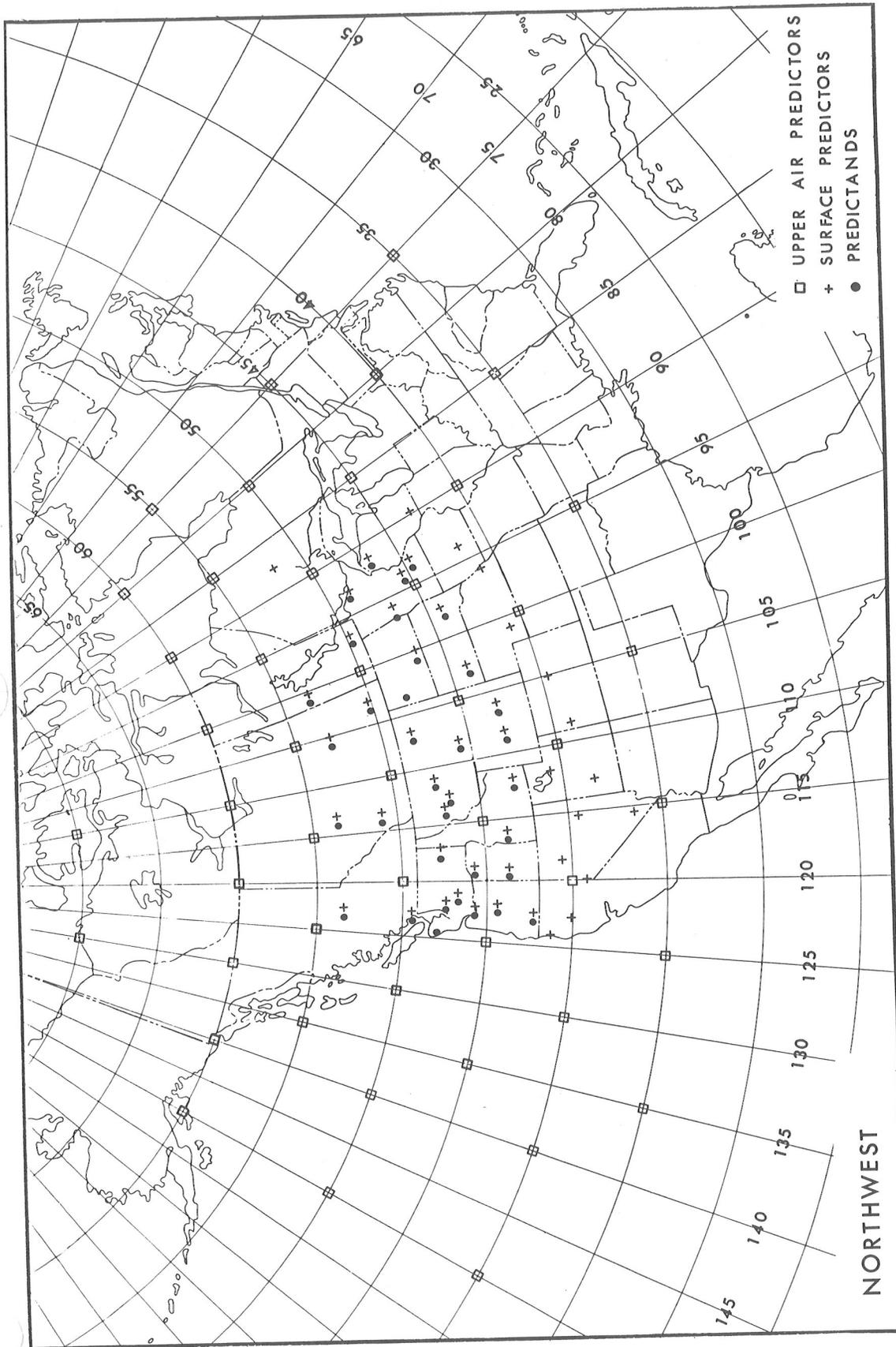


Figure 5. -- Grid of points used for the northwest quadrant. For each of the cities located by a dot, equations were derived from surface temperatures at each of the crosses and from heights and thicknesses at each of the squares.

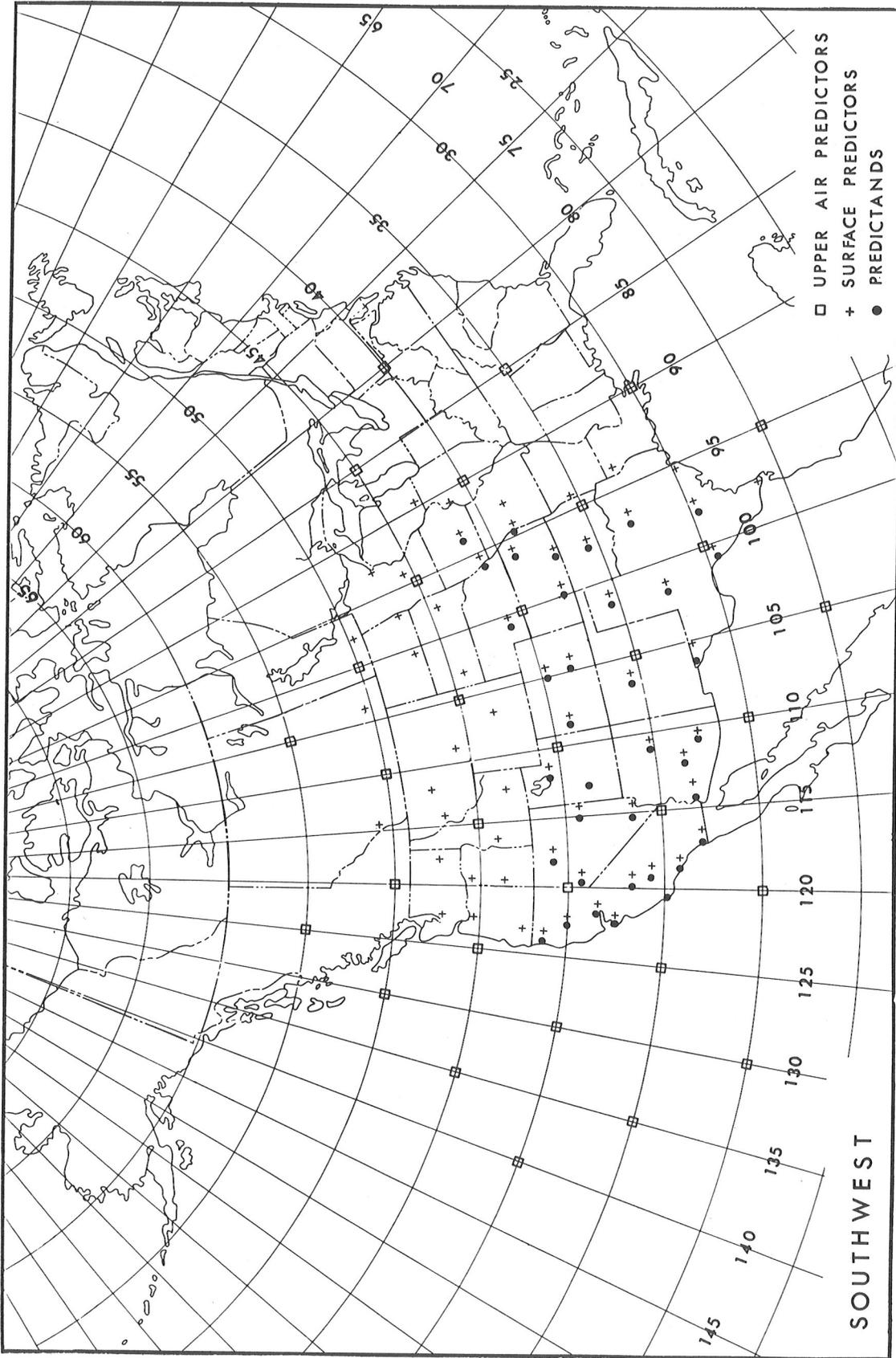


Figure 6. -- Grid of points used for the southwest quadrant. For each of the cities located by a dot, equations were derived from surface temperatures at each of the crosses and from heights and thicknesses at each of the squares.

minimum (T_n^{-1}) and maximum (T_x^{-1}) temperatures observed yesterday, and the date (D).

Because of operational considerations, a second set of multiple regression equations was derived for two new variables, called U and V, consisting of those 700-mb heights and 700- to 1000-mb thicknesses which had been selected in the first regression. These new variables were screened as functions of concurrent 500-mb heights and 500- to 1000-mb thicknesses from 5 years of data which were available for the period 1955-1960. The resulting equations may be written:

$$U = \sum b_i Z7_i^{12} + \sum c_i H7_i^{12} = n + \sum o_i Z5_i^{12} + \sum p_i H5_i^{12} \quad (3)$$

$$V = \sum h_i Z7_i^{00} + \sum j_i H7_i^{00} = q + \sum r_i Z5_i^{00} + \sum s_i H5_i^{00} \quad (4)$$

where ($Z5_i^{12}$) is the 500-mb height at selected grid points at 1200 GMT, ($H5_i^{12}$) is the 500- to 1000-mb thickness at the same time, and ($Z5_i^{00}$) and ($H5_i^{00}$) are selected 500-mb heights and thicknesses at 0000 GMT.

The third and final set of equations was obtained by substituting the new values of U and V given by equations (3) and (4) into equations (1) and (2). This set of equations is the one actually used on an operational basis and is of the type:

$$T_x^0 = a + n + \sum o_i Z5_i^{12} + \sum p_i H5_i^{12} + \sum d_i T_n^0 + \sum e_i T_x^{-1} + fD \quad (5)$$

$$T_n^0 = g + q + \sum r_i Z5_i^{00} + \sum s_i H5_i^{00} + \sum k_i T_n^{-1} + \sum l_i T_x^{-1} + mD \quad (6)$$

A typical equation resulting from the derivation scheme described above is illustrated in figure 7. This figure shows the first set of regression equations for the maximum temperature at Columbus, Ohio, during January and February. The first variable selected is the thickness just east of Columbus at 40° N., 80° W. Taken by itself, this predictor would explain 68 percent of the temperature variance and produce a standard error of estimate of 6.8° F. The second variable selected is the maximum temperature on the previous day at Columbia, Mo., which, taken in conjunction with the thickness selected first, raises the reduction of variance to 76.5 percent and lowers the standard error to 5.8° F. The third variable selected is the minimum temperature on the same day at Dayton, Ohio, and the fourth is the thickness at 40° N., 90° W. The fifth variable is the 700-mb height at 45° N., 95° W. The negative sign before this term indicates that cold weather at Columbus goes with a strong upper level ridge to the northwest, while warm weather is accompanied by southwestly flow aloft. The screening was stopped at this point because no other pair of predictors could increase the variance explained by even 2 percent. This criterion was used as an

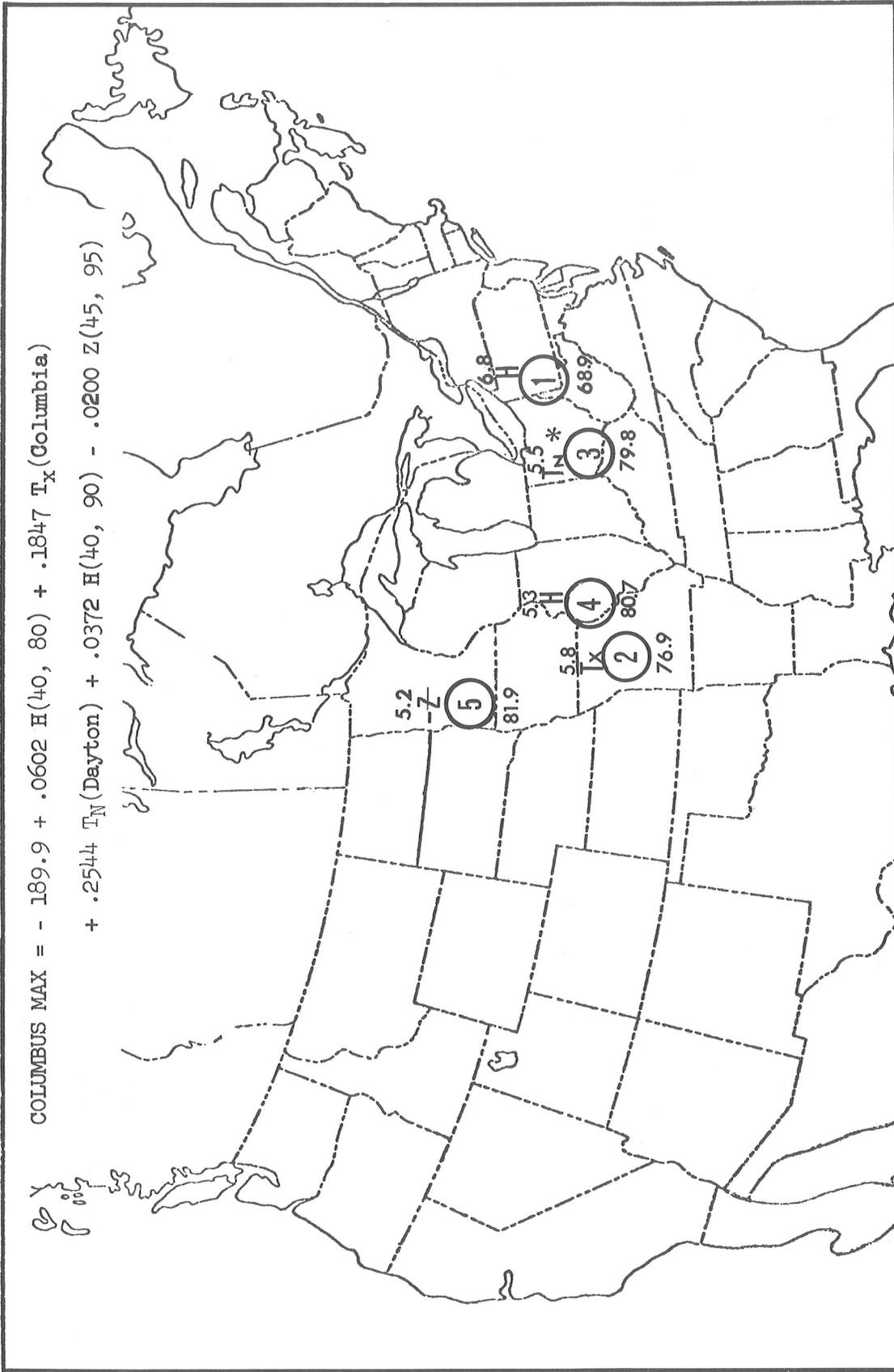


Figure 7. -- Multiple regression equation derived by screening the maximum temperature at Columbus, Ohio (star) during January-February as a function of selected 700-mb heights (Z), 700-1000 mb thicknesses (H), maximum temperatures (T_x), and minimum temperatures (T_N). Units are °F for temperatures and meters for heights and thicknesses.

automatic cutoff point in all screening runs made in this project. The final multiple regression is written at the top of figure 7. It gives a reduction of variance of 81.5 percent and a standard error of estimate of 5.2° F.

Figure 8 illustrates the second set of regression equations for Columbus maximum temperature in January and February. The squares locate the particular 700-mb height and 700- to 1000-mb thicknesses selected in the first screening run and combined as the predictand in this screening. The circles locate the NMC grid points where 500-mb heights and 500- to 1000-mb thicknesses were selected by screening in the order (from 1 to 3) marked inside the circles, with reductions of variance increasing from 85 to 93 percent. As expected, the original 700-mb height with a negative sign is approximated by a nearby 500-mb height with a negative sign, while the original 700- to 1000-mb thicknesses with positive signs are estimated by two nearby 500- to 1000-mb thicknesses with positive signs.

Table 4 summarizes the characteristics of the multiple regression

Table 4. Characteristics of regression equations for predicting maximum and minimum temperatures from 700-mb height, 700- to 1000-mb thickness, and surface temperatures, averaged for 131 cities in the United States

	<u>Jan.-</u> <u>Feb.</u>	<u>Mar.-</u> <u>Apr.</u>	<u>May-</u> <u>June</u>	<u>July-</u> <u>Aug.</u>	<u>Sept.-</u> <u>Oct.</u>	<u>Nov.-</u> <u>Dec.</u>	<u>Mean</u>
a) <u>For Predicting Maximum Temperatures</u>							
Standard deviation (°F)	11.3	12.0	9.2	6.2	10.2	11.5	10.1
Reduction of variance (%)	79.4	80.9	76.1	61.4	81.0	82.5	76.9
Standard error (°F)	5.0	5.1	4.3	3.8	4.3	4.7	4.5
No. of variables	4.3	4.3	4.5	5.3	4.2	4.2	4.5
No. of max. temps.	1.1	1.1	1.0	1.7	1.0	1.1	1.2
No. of min. temps.	0.8	0.6	0.7	1.4	0.6	0.7	0.8
No. of 700-mb heights	1.0	1.2	1.5	1.5	1.1	0.8	1.2
No. of thicknesses	1.4	1.2	1.3	0.7	1.3	1.3	1.2
No. of days of year	0.0	0.2	0.0	0.0	0.2	0.3	0.1
No. of local temps.	0.6	0.4	0.6	0.6	0.5	0.6	0.6
b) <u>For Predicting Minimum Temperatures</u>							
Standard deviation (°F)	11.1	9.9	7.4	5.0	8.9	10.6	8.8
Reduction of variance (%)	74.2	76.9	76.2	61.4	77.5	75.4	73.6
Standard error (°F)	5.6	4.5	3.6	3.0	4.1	5.2	4.3
No. of variables	4.4	4.5	4.3	5.5	4.3	4.4	4.6
No. of max. temps.	0.2	0.6	0.4	0.8	0.3	0.2	0.4
No. of min. temps.	1.5	1.5	1.4	2.2	1.6	1.8	1.7
No. of 700-mb heights	1.3	1.1	1.0	1.5	1.1	1.2	1.2
No. of thicknesses	1.4	1.2	1.2	0.8	0.9	1.1	1.1
No. of days of year	0.0	0.1	0.3	0.2	0.4	0.1	0.2
No. of local temps.	0.7	0.7	0.8	0.9	0.8	0.8	0.8

$$\begin{aligned}
 &.0602 H_7(40, 80) + .0372 H_7(40, 90) - .0200 Z_7(45, 95) \\
 &= - 2.1421 + .1238 H_5(1) - .0545 Z_5(2) + .0563 H_5(3)
 \end{aligned}$$

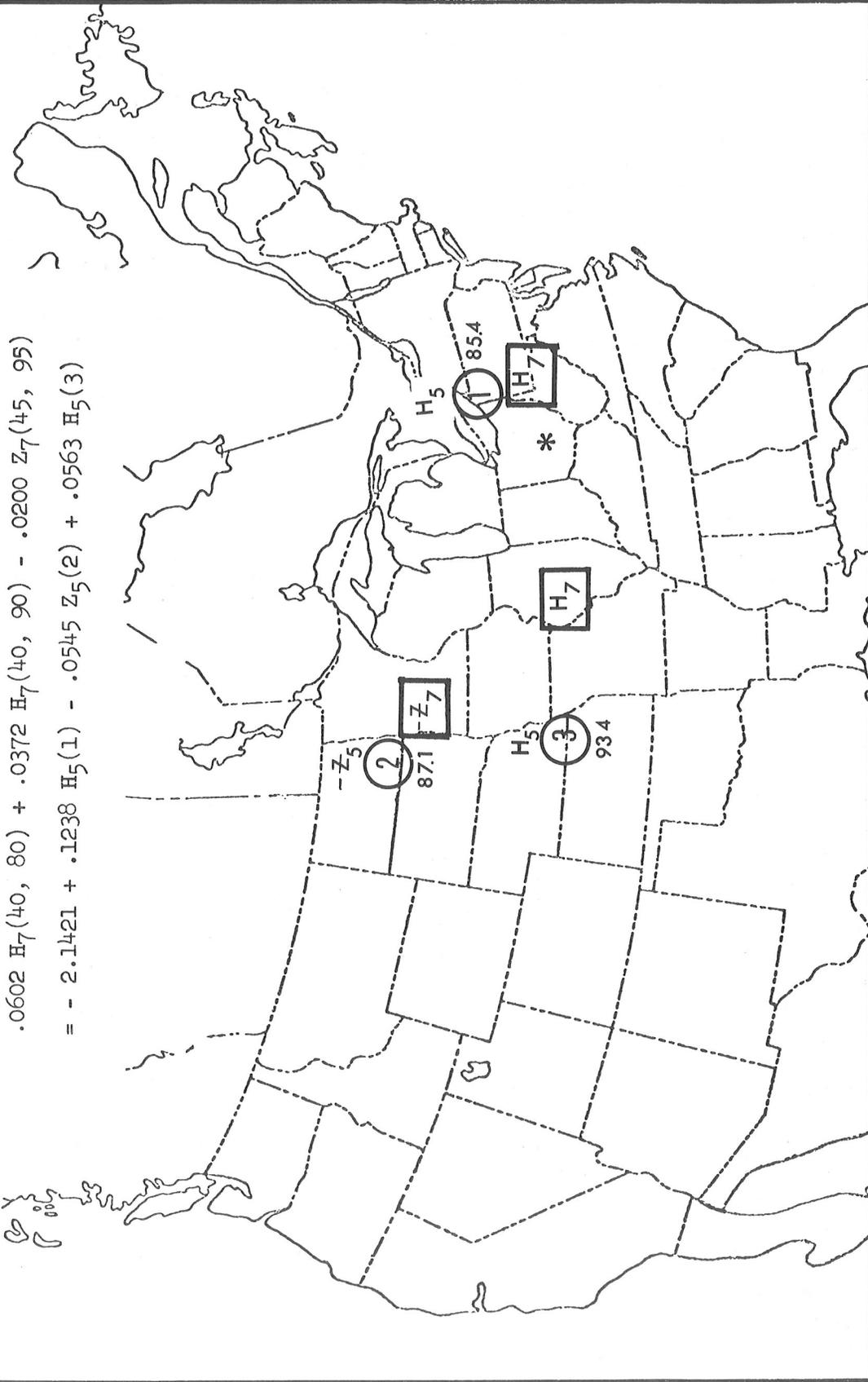


Figure 8. -- Multiple regression equation derived by screening the linear combination of 700-mb heights (Z_7) and 700-1000 mb thicknesses (H_7) used in figure 7 as a function of selected 500-mb heights (Z_5) and 500-1000 mb thicknesses (H_5) (in meters).

equations derived in the first screening for the 131 cities in the United States and all months of the year. The first row gives the standard deviation of temperature and illustrates the well-known fact that temperatures are less variable in summer than in other seasons. This makes it difficult to explain a high percent of summer variability, so that the reduction of variance averages only 61 percent in July-August, compared to about 78 percent in the other months. In nearly all months, both the standard deviation and the reduction of variance are slightly higher for the maximum than for the minimum. The standard error of estimate varies from 3.0° F for the minimum in July-August to 5.6° F for the minimum in January-February. For all months, it averages slightly larger for the maximum (4.5° F) than for the minimum (4.3° F).

The regression equations usually contain four to five variables, made up of at least one maximum temperature, one minimum temperature, one 700-mb height, and one 700- to 1000-mb thickness. Equations which forecast the minimum temperature select more than four times as many minimum (1.7) as maximum (0.4) temperature predictors, but equations for the maximum select only slightly more maximum (1.2) than minimum (0.8) predictors. The day of the year is quite unimportant, being selected only 15 percent of the time on the average. The local temperature, at the reference station itself, is selected about 70 percent of the time, but slightly more often for the minimum than the maximum. The forecaster should consult the list of equations given in the Appendix for specific information on a particular city or month.

Table 5 summarizes the properties of the multiple regression equation derived in the second screening run. For all months except July-August, over 90 percent of the variance of those 700-mb heights and 700- to 1000-mb thicknesses selected in the first regression (table 4) can be explained by a linear combination of concurrent 500-mb heights and 500- to 1000-mb thicknesses. On the average, between four and five variables at 500 mb are selected to specify two to three variables at 700 mb. There is little difference between maximum and minimum temperatures, different months of the year, and different parts of the country with regard to any of these characteristics. This shows what a close relation normally exists between the 700- and 500-mb circulations.

4. OPERATIONAL SYSTEM

Table 6 illustrates the system used in preparing maximum and minimum temperature forecasts on an operational basis. The forecasts are prepared twice a day on the IBM 7094 in Suitland, and the same equations are used in 12-hour steps on an iterative basis. Here we assume that minimum and maximum temperatures occur at their normal times of day; namely, in the early morning and late afternoon. For example, at 1200 GMT, the first forecast made is for the maximum that afternoon, and it is based on heights and thicknesses observed at forecast time, on the minimum temperature reported for the 12 hours ending 1200 GMT, and on the maximum temperature observed on the previous day. The second forecast is for the minimum the following day and is based on 12-hour numerical forecasts of 500-mb height and 500- to 1000-mb thickness, on the same minimum used as input for the 12-hour forecasts, and on the maximum for today generated in the first step. The

Table 5. Characteristics of multiple regression equations for predicting 700-mb height and 700- to 1000-mb thickness from 500-mb height and 500- to 1000-mb thickness, averaged for 131 cities in the United States

	<u>Jan.-</u> <u>Feb.</u>	<u>Mar.-</u> <u>Apr.</u>	<u>May-</u> <u>June</u>	<u>July-</u> <u>Aug.</u>	<u>Sept.-</u> <u>Oct.</u>	<u>Nov.-</u> <u>Dec.</u>	<u>Mean</u>
a) <u>For Predicting Maximum Temperatures</u>							
Reduction of variance (%)	92.9	93.8	92.4	87.2	93.4	93.5	92.2
No. of 700-mb heights	1.0	1.2	1.5	1.5	1.1	0.8	1.2
No. of 700-mb thicknesses	1.4	1.2	1.3	0.7	1.3	1.3	1.2
No. of 700-mb variables	2.4	2.4	2.8	2.2	2.4	2.1	2.4
No. of 500-mb heights	1.7	1.7	1.8	2.7	1.4	1.3	1.8
No. of 500-mb thicknesses	2.5	2.0	2.2	2.2	2.1	2.3	2.2
No. of 500-mb variables	4.2	3.7	4.0	4.9	3.5	3.6	4.0
b) <u>For Predicting Minimum Temperatures</u>							
Reduction of variance (%)	93.7	93.8	92.1	85.5	93.9	93.7	92.1
No. of 700-mb heights	1.3	1.1	1.0	1.5	1.1	1.2	1.2
No. of 700-mb thicknesses	1.4	1.2	1.2	0.8	0.9	1.1	1.1
No. of 700-mb variables	2.7	2.3	2.2	2.3	2.0	2.3	2.3
No. of 500-mb heights	2.0	1.6	1.5	3.0	1.8	1.6	1.9
No. of 500-mb thicknesses	2.4	2.6	2.4	2.4	2.5	2.4	2.5
No. of 500-mb variables	4.4	4.2	3.9	5.4	4.3	4.0	4.4

Table 6. System for preparation of operational maximum and minimum temperature forecasts for 12 to 60 hours in advance

<u>Forecast</u>	<u>Output</u>	<u>Ht. and Thickness Input</u>	<u>Surface Temperature Input</u>
a) <u>From 1200 GMT Data</u>			
12-hr	Max	Observed 1200 GMT today	Min obs today, max obs yesterday
24-hr	Min	12-hr numerical progs	Min obs today, 12-hr prog max
36-hr	Max	24-hr numerical progs	24-hr prog min, 12-hr prog max
48-hr	Min	36-hr numerical progs	24-hr prog min, 36-hr prog max
60-hr	Max	48-hr numerical progs	48-hr prog min, 36-hr prog max
b) <u>From 0000 GMT Data</u>			
12-hr	Min	Observed 0000 GMT today	Max and min observed yesterday
24-hr	Max	12-hr numerical progs	Max obs yesterday, 12-hr prog min
36-hr	Min	24-hr numerical progs	24-hr prog max, 12-hr prog min
48-hr	Max	36-hr numerical progs	24-hr prog max, 36-hr prog min
60-hr	Min	48-hr numerical progs	48-hr prog max, 36-hr prog min

third forecast is for the maximum tomorrow and is based on 24-hour numerical forecasts of height and thickness, on the 24-hour forecast of the minimum temperature made in step 2, and on the 12-hour forecast of the maximum made in step 1. The fourth forecast, for the minimum the day after tomorrow, is based on 36-hour numerical forecasts of upper air input and on the system's 24- and 36-hour surface temperature forecasts. The fifth forecast, for the maximum the day after tomorrow, uses as input 48-hour numerical prognoses and automated 48- and 36-hour temperature forecasts. The system is stopped at this point because of increasing errors and because no thickness forecasts are routinely available beyond 48 hours.

The numerical forecasts used as input to the prediction equations are 500-mb heights obtained from the NMC barotropic-mesh model run from "Radat" data reported about 1 1/2 hours after observation time (Roberts, 1965). The 500- to 1000-mb thickness forecasts are obtained from the Reed 1000-mb numerical model run by NMC at the same time as the barotropic model (Reed, 1963).

Temperature input to the prediction equations consists of observed maximum and minimum temperatures transmitted in the synoptic code at 0000 and 1200 GMT. These teletype reports (Schedule C) are monitored by the NMC automatic data processing system. Unfortunately, on the average, about a dozen reports are reported missing each day. In these cases, the computer uses the objective forecast made 12 hours previously in place of the missing temperature, so that the prediction system is fully automated.

5. VERIFICATION

The relative accuracy of the computer temperature forecasts since the modified system went into operation in March 1968 is shown in table 7, which gives the verification figures for each of six seasons from the spring of 1968 through the summer of 1969. This table is based on twice-daily verifications conducted routinely by the NMC Analysis and Forecast Division (A&FD) for 60 cities covering all parts of the conterminous United States. The figures were obtained by averaging mean absolute errors of forecasts of maximum and minimum temperatures for 24 hours in advance, 36 hours in advance, etc. The mean error of the objective forecasts during the 18-month test period increased from 4.2 degrees for 24-hour projections to 5.6 degrees for 60-hour forecasts (line 1). Although the objectives were considerably better than persistence (Pers), which is verified in line 3, they were not quite as good as the forecasts prepared subjectively a few hours later by the forecasters of the A&FD (line 2), who use the automated temperature forecasts as guidance. The last line (headed A&FD/Obj) gives the ratio of the A&FD error to the objective error and shows that the computer forecasts were 90 percent as good as the manual forecasts for 24-hour projections and 94 percent as good for 60 hours in advance. Overall, the A&FD forecasters improved their objective guidance by about four-tenths of a degree and about 7 percent.

Table 7 shows the expected seasonal variation, with all forecasts exhibiting largest errors in the winter and smallest errors in the summer. It is noteworthy that the ratio of the A&FD error to the objective error was

Table 7. Mean absolute error of maximum and minimum temperature forecasts (°F) during 18 months at 60 cities in the United States

	<u>Spring</u> Mar-May 1968	<u>Summer</u> June-Aug 1968	<u>Fall</u> Sept-Nov 1968	<u>Winter</u> Dec 1968- Feb 1969	<u>Spring</u> Mar-May 1969	<u>Summer</u> June-Aug 1969	<u>Mean</u>
a) <u>24-Hour Projection</u>							
Obj	4.5	3.3	4.0	5.3	5.0	3.2	4.2
A&FD	4.1	3.0	3.6	4.5	3.8	2.9	3.7
Pers	6.3	4.3	5.6	7.2	5.9	4.0	5.5
<u>A&FD</u>	0.93	0.90	0.92	0.86	0.90	0.90	0.90
Obj							
b) <u>36-Hour Projection</u>							
Obj	5.2	3.8	4.6	6.1	4.9	3.6	4.7
A&FD	4.8	3.6	4.2	5.3	4.6	3.5	4.3
Pers	8.7	5.7	7.5	9.7	8.0	5.3	7.5
<u>A&FD</u>	0.94	0.95	0.93	0.87	0.94	0.95	0.93
Obj							
c) <u>48-Hour Projection</u>							
Obj	5.7	4.2	4.9	6.7	5.4	4.0	5.2
A&FD	5.3	3.9	4.6	5.9	4.9	3.8	4.7
Pers	8.7	5.7	7.5	9.7	8.0	5.3	7.5
<u>A&FD</u>	0.93	0.93	0.94	0.89	0.92	0.95	0.93
Obj							
d) <u>60-Hour Projection</u>							
Obj	6.3	4.4	5.3	7.5	5.9	4.2	5.6
A&FD	6.0	4.3	5.0	6.7	5.5	4.1	5.3
Pers	9.8	6.1	8.3	10.5	8.6	5.9	8.2
<u>A&FD</u>	0.95	0.95	0.94	0.89	0.93	0.97	0.94
Obj							

below .90 for all projections in the winter but uniformly .90 or above in the other three seasons. This indicates that the A&FD forecasters improved their objective guidance most during the winter season.

Table 8 presents the results of some computer verifications routinely prepared each month for the five forecast periods from 12 to 60 hours in advance. The verifications are performed separately each month at each city, and table 8 gives the averages for the 18-month period from March 1968 through August 1969, and for the 131 cities in the United States (table 1). The verification is given in terms of three statistics: the root-mean-square error (RMSE) of the forecasts, the simple linear correlation coefficient

Table 8. Verification of computer temperature forecasts for 12 to 60 hours in advance averaged over 131 cities in the United States for the 18 month period March 1968-August 1969

<u>Projection</u>	<u>RMSE (°F)</u>		<u>Correlation</u> (Fcst. vs. obs.)		<u>Change</u> <u>correlation</u>	
	<u>Forecast</u>	<u>Persistence</u>	<u>Forecast</u>	<u>Persistence</u>	<u>Forecast</u>	<u>Persistence</u>
a) <u>Minimum</u>						
12 hr	4.8	7.1	0.74	0.49	0.75	0.00
24 hr	5.2	7.5	0.71	0.45	0.69	0.00
36 hr	5.5	9.2	0.66	0.19	0.50	-0.14
48 hr	6.1	9.5	0.61	0.15	0.43	-0.11
60 hr	6.4	9.9	0.55	0.06	0.35	0.06
b) <u>Maximum</u>						
12 hr	4.9	7.2	0.78	0.55	0.75	0.00
24 hr	5.3	7.3	0.74	0.55	0.70	0.04
36 hr	6.2	9.7	0.66	0.21	0.50	-0.14
48 hr	6.8	9.8	0.60	0.22	0.45	-0.13
60 hr	7.5	10.8	0.51	0.05	0.35	0.07

between forecast and observed temperatures, and the correlation between forecast and observed temperature changes over a 24-hour period. Comparison with persistence of the last daily temperature (considered as a forecast) is included, but the subjective forecasts by A&FD were not available on punched cards for comparative verification.

Table 8 reveals that all three verification statistics show the expected decrease of accuracy with forecast projection. The root-mean-square error of the computer forecasts for 12 to 60 hours in advance varies from 4.8 to 6.4 degrees for the minimum and from 4.9 to 7.5 degrees for the maximum. The correlation between forecast and observed temperatures ranges from 0.74 to 0.55 for minimum and 0.78 to 0.51 for the maximum. The change correlation decreases more rapidly from 0.75 for 12 hours to 0.35 at 60 hours. On an overall basis, the objective forecasts maintain positive skill over persistence in terms of all statistics during all time periods.

6. MODIFICATIONS

Since the computer forecasts are based on correlations between surface temperatures and large-scale upper air conditions, they do not take into account, except indirectly, specific localized conditions which may affect temperature. These factors include surface wind speed and direction, land and sea breezes, clouds and precipitation, low-level air trajectories, sharp frontal zones, sea-surface temperature, snow cover, surface moisture, and urban-suburban differences. When these conditions are important or abnormal, adjustments should be made by individual stations for their particular area

of responsibility, with the aid of later data and local information. Local adjustments should also be made when a station is known to have been moved from the original location for which its equations were derived (see table 3). For example, change of station location from airport to city office may produce a cold bias in the forecasts. In addition, temperatures from other levels should be considered by the forecaster, particularly in the boundary layer and at 850 mb. It seems likely that the 850- to 1000-mb thickness is more closely related to surface temperature than the 700- to 1000-mb thickness used here, except in mountainous terrain where the 700- to 850 or 500- to 700-mb thickness may be best.

A good example of how the objective temperature forecasts can be successfully modified is illustrated in figure 9. This chart was prepared

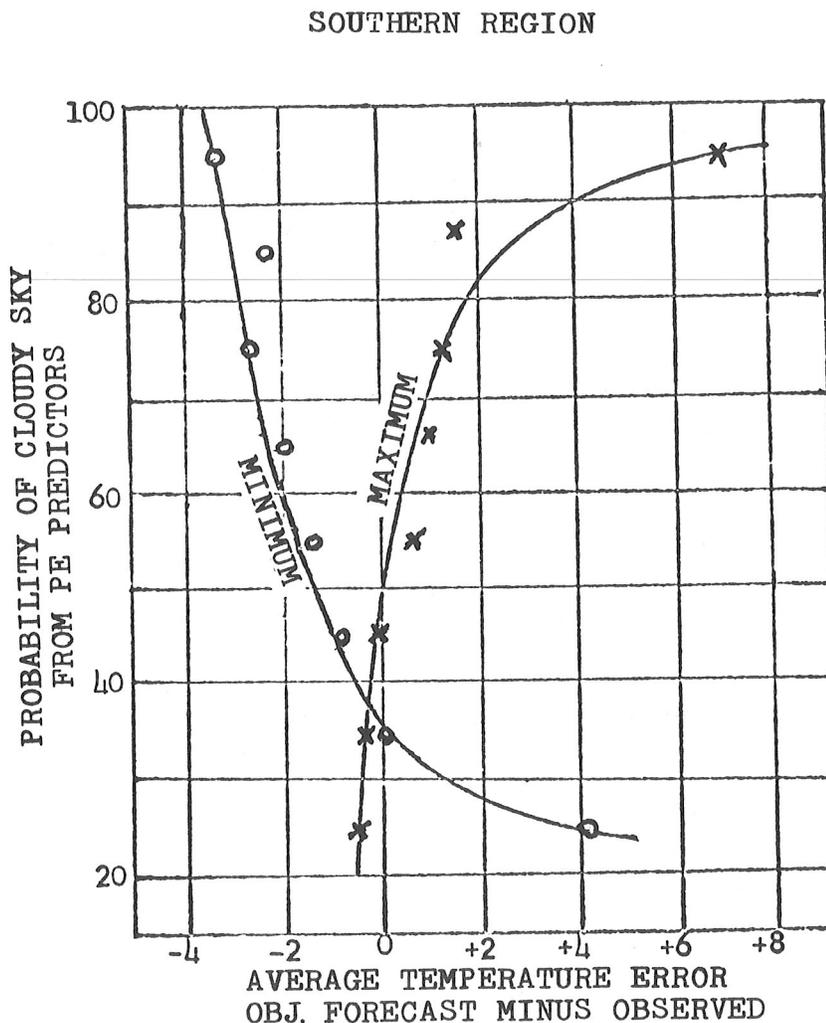


Figure 9. -- Scatter diagram showing average error of objective maximum and minimum temperature forecasts as a function of cloudiness probability.

by the Scientific Services Division of the Weather Bureau's Southern Region from data at 37 stations in the South during the period September 19 through October 19, 1968. It shows the average error in the objective temperature forecast, plotted separately for maximum and minimum, as a function of the probability of cloudy weather determined from numerically forecast mean relative humidity and vertical velocity (Moore and Pruett, 1968). Since cloudiness is one of the most important factors neglected in the original derivation of the automated temperature forecasts, the minimum temperature forecast tends to be too high under clear skies, when radiational cooling is effective, and too low under overcast skies, when long wave radiation is inhibited. Conversely, forecasts of the maximum temperature tend to be too high under cloudy skies, when lack of sunshine holds temperatures down, and too low under clear skies, when solar heating is enhanced.

Another method of modifying the objective temperature forecasts has recently been described by Hughes and Sangster (1969). They studied maximum temperature 24 hours in advance in Nebraska during spring and found that estimates for Grand Island, taken as a linear function of the objective forecasts for Omaha, were too low in cases of prominent warm air advection and too high with cold advection. Errors due to overcast or clear skies were also noted and in the expected direction, but they were smaller in magnitude than errors caused by low level advection or cold frontal passages.

7. USE OF PE INPUT

Some improvement in the objective temperature forecasts is anticipated if the operational system is modified to accept input from the NMC primitive equation (PE) model (Shuman and Hovermale, 1968). This model should give more accurate height and thickness forecasts, particularly at the 700-mb and 1000-mb levels, than are presently obtained from the barotropic and Reed models. This change would allow the temperature forecasts to be based directly on equations (1) and (2), thereby eliminating small errors introduced by interpolation from 500 to 700 mb in equations (3) and (4). Use of the PE model in this way is currently being tested.

A comparative test for the month of January 1969 was recently completed. Temperature forecasts were made each day from 1000- and 700-mb heights observed at 0000 GMT and forecast from the PE model for 12 to 36 hours in advance. The forecasts were verified by computer in terms of the root-mean-square error, the correlation coefficient between forecast and observed temperatures, and the correlation between forecast and observed 24-hour temperature change. Average results for 131 cities in the United States are given in table 9, together with the corresponding verification for the operational forecasts (made from barotropic and Reed models) and for persistence. Although based on only a limited sample, the results are encouraging. They show that use of the PE model was superior to the operational model in terms of all three statistics tested. The superiority of the PE input increased with forecast projection, with the RMSE advantage being less than half a degree at 12 hours but almost 2 degrees at 48 hours.

In view of these promising results, a program is now being written to produce objective temperature forecasts from the PE model on the CDC 6600 on

Table 9. Verification of computer temperature forecasts for 12 to 48 hours in advance averaged over 131 cities in the United States for January 1969 (0000 GMT data)

<u>Projection</u>	<u>RMSE (°F)</u>			<u>Correlation (Fcst. vs. obs.)</u>			<u>Change Correlation</u>		
	<u>PE</u>	<u>Oper.</u>	<u>Pers.</u>	<u>PE</u>	<u>Oper.</u>	<u>Pers.</u>	<u>PE</u>	<u>Oper.</u>	<u>Pers.</u>
a) <u>Minimum</u>									
12 hr	6.6	6.6	9.6	0.82	0.81	0.60	0.78	0.76	0.00
36 hr	7.4	8.0	13.1	0.75	0.72	0.28	0.56	0.54	-0.19
b) <u>Maximum</u>									
24 hr	6.3	7.2	9.6	0.82	0.79	0.59	0.75	0.73	0.13
48 hr	7.9	9.9	12.6	0.73	0.66	0.25	0.58	0.52	-0.08

an operational basis in Suitland. Since the PE model is prepared about three hours later than the barotropic-Reed run, it may well be feasible to use maximum and minimum temperatures reported at 0600 and 1800 GMT, in addition to those reported at 0000 and 1200 GMT, as input into the system. Not only should this produce more accurate values of today's maximum and minimum (particularly in the West where 1200 GMT is only 4 A.M. local time), but it should also alleviate the problem of missing data mentioned in Section 4. Hopefully, this step will result in further improvements in the objective temperature forecasts.

It is expected that a revised operational system, based upon PE model input and six hours later temperature reports, will be implemented by the end of 1969. Meanwhile, forecasters should realize that the current computer temperature forecasts are based on the barotropic "Radat" package and should be modified in cases where prognostic maps of the primitive equation model are inconsistent with the earlier numerical guidance.

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REFERENCES

- Department of Transportation, Federal Aviation Administration, "Location Identifiers," Publication No. 7350.1H, January 1, 1968.
- [Hughes, L. and Sangster, W.] , "Localizing Guidance Values," Central Region News and Views, Technical Attachment A, July 1, 1969.
- Klein, W. H., Lewis, F., and Casely, G. P., "Automated Nationwide Forecasts of Maximum and Minimum Temperature," Journal of Applied Meteorology, Vol. 6, No. 2, April 1967, pp. 216-228.
- [Moore, P. and Pruett, J.] , "The Relationship of Precipitation and Cloudiness to Some Predictors from the NMC Six-Layer Model," Staff, Scientific Services Division, ESSA Technical Memorandum WBTM SR-39, October 1968, 40 pp.
- Reed, R. J., "Experiments in 1000-mb Prognosis," NMC Technical Memorandum No. 26, 1968, 42 pp.
- Roberts, C. F., "Present and Future Operational Numerical Prediction Models," ESSA Technical Note 16-FCST-3, 1965, 15 pp.
- Shuman, F. G. and Hovermale, J. B., "An Operational Six-Layer Primitive Equation Model," Journal of Applied Meteorology, Vol. 7, No. 4, August 1968, pp. 525-547.

APPENDIX

This appendix presents machine printouts for 131 cities in the United States. It lists all equations derived in the first set of regression (equations (1) and (2)) for maximum and minimum temperature in °F as a function of preceding temperatures, day of year (from 1 to 365), 700-mb height in meters, and 700- to 1000-mb thickness in meters. The cities are given by standard call letters (tables 1 and 3), and the upper air parameters are located at standard grid points in degrees of latitude and longitude. In addition to the multiple regression equation, the printouts include values of the multiple correlation coefficient (R), the standard error of estimate in °F, the reduction of variance (R^2), and the standard deviation of the maximum and minimum temperature (°F). For detailed presentation of an individual equation, see figure 7.

The equations are presented separately for maximum and minimum, six sets of bi-monthly periods (January - February, March-April, etc.), and four quadrants of the country (Northwest, Southwest, Southeast, and Northeast). The names of the cities in each quadrant and their order of presentation are listed below:

Northwest

INL - International Falls, Minn.	PDX - Portland, Oreg.
DLH - Duluth, Minn.	SEA - Seattle, Wash.
STC - Saint Cloud, Minn.	TTI - Tatoosh, Wash.
FAR - Fargo, N. Dak.	MSP - Minneapolis, Minn.
BIS - Bismarck, N. Dak.	HON - Huron, S. Dak.
ISN - Williston, N. Dak.	RAP - Rapid City, S. Dak.
GGW - Glasgow, Mont.	CPR - Casper, Wyo.
BIL - Billings, Mont.	LND - Lander, Wyo.
GTF - Great Falls, Mont.	PIH - Pocatello, Idaho
HLN - Helena, Mont.	BOI - Boise, Idaho
MSO - Missoula, Mont.	BNO - Burns, Oreg.
GEG - Spokane, Wash.	MFR - Medford, Oreg.
PDT - Pendleton, Oreg.	SLE - Salem, Oreg.
YKM - Yakima, Wash.	

Southwest

DSM - Des Moines, Iowa	DDC - Dodge City, Kans.
OMA - Omaha, Nebr.	PUB - Pueblo, Colo.
LBF - North Platte, Nebr.	GJT - Grand Junction, Colo.
DEN - Denver, Colo.	MLF - Milford, Utah
SLC - Salt Lake City, Utah	ELY - Ely, Nev.
WMC - Winnemucca, Nev.	SAC - Sacramento, Calif.
RNO - Reno, Nev.	SFO - San Francisco, Calif.
RBL - Red Bluff, Calif.	OKC - Oklahoma City, Okla.
EKA - Eureka, Calif.	AMA - Amarillo, Tex.
MKC - Kansas City, Mo.	ABQ - Albuquerque, N. Mex.
TOP - Topeka, Kans.	INW - Winslow, Ariz.
ICT - Wichita, Kans.	LAS - Las Vegas, Nev.

Southwest - continued

BFL - Bakersfield, Calif.	PHX - Phoenix, Ariz.
FAT - Fresno, Calif.	YUM - Yuma, Ariz.
SMX - Santa Maria, Calif.	SAN - San Diego, Calif.
FTW - Fort Worth, Tex.	LAX - Los Angeles, Calif.
MAF - Midland, Tex.	SAT - San Antonio, Tex.
ELP - El Paso, Tex.	DRT - Del Rio, Tex.
PHX - Phoenix, Ariz.	

Southeast

SBY - Salisbury, Md	AHN - Athens, Ga.
DCA - Washington, D.C.	ATL - Atlanta, Ga.
CRW - Charleston, W. Va.	BHM - Birmingham, Ala.
HPS - Huntington, W. Va.	JAN - Jackson, Miss.
LOU - Louisville, Ky.	SHV - Shreveport, La.
ORF - Norfolk, Va.	JAX - Jacksonville, Fla.
RIC - Richmond, Va.	TLH - Tallahassee, Fla.
ROA - Roanoke, Va.	MGM - Montgomery, Ala.
HAT - Hatteras, N.C.	MOB - Mobile, Ala.
RDU - Raleigh, N.C.	MSY - New Orleans, La.
GSO - Greensboro, N.C.	LCH - Lake Charles, La.
TYS - Knoxville, Tenn.	HOU - Houston, Tex.
BNA - Nashville, Tenn.	CRP - Corpus Christi, Tex.
MEM - Memphis, Tenn.	BRO - Brownsville, Tex.
LIT - Little Rock, Ark.	ORL - Orlando, Fla.
FSM - Fort Smith, Ark.	TPA - Tampa, Fla.
CHS - Charleston, S.C.	MIA - Miami, Fla.
CLT - Charlotte, N.C.	EYW - Key West, Fla.
AGS - Augusta, Ga.	

Northeast

CAR - Caribou, Maine	ALB - Albany, N.Y.
SSM - S. Ste. Marie, Mich.	NYC - New York, N.Y.
PWM - Portland, Maine	PHL - Philadelphia, Pa.
BTV - Burlington, Vt.	IPT - Williamsport, Pa.
SYR - Syracuse, N.Y.	PIT - Pittsburgh, Pa.
BUF - Buffalo, N.Y.	CLE - Cleveland, Ohio
DET - Detroit, Mich.	CMH - Columbus, Ohio
FNT - Flint, Mich.	DAY - Dayton, Ohio
GRR - Grand Rapids, Mich.	CVG - Cincinnati, Ohio
MKE - Milwaukee, Wis.	IND - Indianapolis, Ind.
GRB - Green Bay, Wis.	CHI - Chicago, Ill.
MSN - Madison, Wis.	PIA - Peoria, Ill.
ACK - Nantucket, Mass.	MLI - Moline, Ill.
BOS - Boston, Mass.	STL - St. Louis, Mo.
HFD - Hartford, Conn.	CBI - Columbia, Mo.

Northwest Max

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL	MAX	R = .91565	STANDARD ERROR = 5.45217	REDUCTION OF VARIANCE = .83841	STD. DEV. OF PND. 13.56339		
INL	MAX	= -247.6797 +	.0480 X 50/100 THK +	.2761 X DLH MIN +	.0492 X 50/090 THK +	.1707 X QD	MAX +
DLH	MAX	R = .91705	STANDARD ERROR = 4.84861	REDUCTION OF VARIANCE = .84099	STD. DEV. OF PND. 12.15906		
DLH	MAX	= -216.9701 +	.2330 X DLH MIN +	.0398 X 50/090 THK +	.0458 X 45/095 THK +	.1829 X INL	MAX +
STC	MAX	R = .90971	STANDARD ERROR = 5.22627	REDUCTION OF VARIANCE = .82757	STD. DEV. OF PND. 12.58587		
STC	MAX	= -200.8929 +	.0800 X 45/095 THK +	.2892 X STC MIN +	.1755 X PA		MAX +
FAR	MAX	R = .92173	STANDARD ERROR = 5.46181	REDUCTION OF VARIANCE = .84959	STD. DEV. OF PND. 14.08308		
FAR	MAX	= -110.7773 +	.4311 X FAR MIN +	.0725 X 50/100 THK +	.1661 X QR		MAX +
							-.0245 X 50/100 HGT +
BIS	MAX	R = .92500	STANDARD ERROR = 5.88909	REDUCTION OF VARIANCE = .85562	STD. DEV. OF PND. 15.49882		
BIS	MAX	= -192.9848 +	.0708 X 50/100 THK +	.3082 X BIS MIN +	-.0325 X 55/095 HGT +	.0397 X 50/110 THK +	
			.1986 X QR				MAX +
ISN	MAX	R = .92696	STANDARD ERROR = 5.98796	REDUCTION OF VARIANCE = .85925	STD. DEV. OF PND. 15.96071		
ISN	MAX	= -291.0339 +	.0798 X 50/110 THK +	.3258 X GSG MIN +	.0610 X 50/100 THK +	-.0265 X 55/105 HGT +	
GSG	MAX	R = .92381	STANDARD ERROR = 6.35793	REDUCTION OF VARIANCE = .85343	STD. DEV. OF PND. 16.60685		
GSG	MAX	= -213.8516 +	.1085 X 50/110 THK +	.3438 X GSG MIN +	-.0242 X 55/105 HGT +	.1787 X GSG	MAX +
BIL	MAX	R = .92226	STANDARD ERROR = 6.29009	REDUCTION OF VARIANCE = .85056	STD. DEV. OF PND. 16.27153		
BIL	MAX	= -368.1741 +	.4293 X BIL MIN +	.0844 X 45/105 THK +	.0571 X 50/120 THK +		
GTF	MAX	R = .90642	STANDARD ERROR = 7.40556	REDUCTION OF VARIANCE = .82159	STD. DEV. OF PND. 17.53261		
GTF	MAX	= -313.9843 +	.4364 X GTF MIN +	.0676 X 50/110 THK +	.0550 X 50/120 THK +		
HLN	MAX	R = .91216	STANDARD ERROR = 6.62324	REDUCTION OF VARIANCE = .83203	STD. DEV. OF PND. 16.16056		
HLN	MAX	= -144.0498 +	.6538 X HLN MIN +	.0598 X 45/105 THK +			
MSO	MAX	R = .92075	STANDARD ERROR = 4.60182	REDUCTION OF VARIANCE = .84777	STD. DEV. OF PND. 11.79469		
MSO	MAX	= -77.2960 +	.5026 X MSO MIN +	.0336 X 45/105 THK +	.2270 X MSO		MAX +
GEO	MAX	R = .92183	STANDARD ERROR = 3.96191	REDUCTION OF VARIANCE = .84978	STD. DEV. OF PND. 10.22205		
GEO	MAX	= 10.4709 +	.4902 X GEO MIN +	.3858 X GEO			MAX +
PDT	MAX	R = .90953	STANDARD ERROR = 5.32649	REDUCTION OF VARIANCE = .82724	STD. DEV. OF PND. 12.81496		
PDT	MAX	= 55.7218 +	.5269 X PDT MIN +	.2855 X PDT			MAX +
							-.0172 X 60/120 HGT +
							.2659 X VR MIN +
YKM	MAX	R = .89272	STANDARD ERROR = 5.04492	REDUCTION OF VARIANCE = .79695	STD. DEV. OF PND. 11.19569		
YKM	MAX	= -26.9027 +	.3102 X PDT MIN +	.4225 X YKM			MAX +
							.0123 X 45/135 HGT +
							.2318 X GEO MIN +
PDX	MAX	R = .88941	STANDARD ERROR = 3.66396	REDUCTION OF VARIANCE = .79105	STD. DEV. OF PND. 8.01548		
PDX	MAX	= -73.7038 +	.3057 X PDT MIN +	.3703 X PDX			MAX +
							.0331 X 45/125 THK +
SEA	MAX	R = .87954	STANDARD ERROR = 3.47125	REDUCTION OF VARIANCE = .77359	STD. DEV. OF PND. 7.29518		
SEA	MAX	= -75.7508 +	.3736 X SEA MIN +	.4108 X SEA			MAX +
							.0314 X 45/125 THK +
TTI	MAX	R = .88663	STANDARD ERROR = 2.38576	REDUCTION OF VARIANCE = .78612	STD. DEV. OF PND. 5.19869		
TTI	MAX	= -82.3669 +	.0206 X 50/120 THK +	.2541 X SEA MIN +	.1797 X VR		MAX +
							.0191 X 50/130 THK +
MSP	MAX	R = .90876	STANDARD ERROR = 5.24305	REDUCTION OF VARIANCE = .82585	STD. DEV. OF PND. 12.56395		
MSP	MAX	= -208.7235 +	.0832 X 45/095 THK +	.3307 X MSP MIN +	.1163 X PA		MAX +

HON	MAX	R= .90364	STANDARD ERROR =	6.17959	REDUCTION OF VARIANCE =	.81657	STD. DEV. OF PND.	14.42846
HON	MAX	= -155.6093 +	.4010 X HON	MIN +	.0574 X 50/100 THK +	-.0311 X 55/095 HGT +	.0376 X 45/105 THK +	
			.1631 X HON	MAX +				
RAP	MAX	R= .90765	STANDARD ERROR =	7.00944	REDUCTION OF VARIANCE =	.82383	STD. DEV. OF PND.	16.70000
RAP	MAX	= -467.7841 +	.1528 X 45/105 THK +		.0620 X 50/110 THK +	-.0347 X 55/105 HGT +		
CPR	MAX	R= .91298	STANDARD ERROR =	5.33428	REDUCTION OF VARIANCE =	.83354	STD. DEV. OF PND.	13.07442
CPR	MAX	= -240.0242 +	.3312 X CPR	MIN +	.0613 X 45/115 THK +	.3016 X DEN	MIN +	.0299 X 35/105 HGT +
LND	MAX	R= .91858	STANDARD ERROR =	5.50786	REDUCTION OF VARIANCE =	.84379	STD. DEV. OF PND.	13.93546
LND	MAX	= -153.5396 +	.6850 X LND	MIN +	.0513 X 40/110 HGT +	-.0410 X 50/110 HGT +	.0512 X 45/115 THK +	
PIH	MAX	R= .92153	STANDARD ERROR =	4.22381	REDUCTION OF VARIANCE =	.84921	STD. DEV. OF PND.	10.87730
PIH	MAX	= -234.1549 +	.2983 X PIH	MIN +	.0460 X 45/115 THK +	.2540 X PIH	MAX +	.0433 X 40/120 THK +
BOI	MAX	R= .90701	STANDARD ERROR =	4.45174	REDUCTION OF VARIANCE =	.82266	STD. DEV. OF PND.	10.57134
BOI	MAX	= 12.4957 +	.3368 X BOI	MIN +	.3773 X BOI	MAX +	.2381 X BNO	MIN +
BNO	MAX	R= .87894	STANDARD ERROR =	4.50855	REDUCTION OF VARIANCE =	.77253	STD. DEV. OF PND.	9.45315
BNO	MAX	= -128.5350 +	.3987 X BNO	MIN +	.2680 X BNO	MAX +	.0152 X 45/125 HGT +	.0368 X 45/115 THK +
MFR	MAX	R= .76844	STANDARD ERROR =	5.25582	REDUCTION OF VARIANCE =	.59051	STD. DEV. OF PND.	8.21327
MFR	MAX	= -93.4175 +	.5401 X MFR	MAX +	.0366 X 45/125 THK +	.2727 X EKA	MIN +	
SLE	MAX	R= .85859	STANDARD ERROR =	3.85676	REDUCTION OF VARIANCE =	.73718	STD. DEV. OF PND.	7.52302
SLE	MAX	= -72.9456 +	.4041 X SLE	MAX +	.1946 X SLE	MIN +	.0320 X 45/125 THK +	.1339 X PDT
							MIN +	

Northwest Min

		HGT: (700MB HEIGHT) IN METERS		THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS.		MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.		
INL	MIN	R= .87949	STANDARD ERROR =	7.62250	REDUCTION OF VARIANCE =	.77350	STD. DEV. OF PND.	16.01650
INL	MIN	= -268.5781 +	.2973 X W6	MAX +	.0899 X 50/100 THK +	.0684 X 50/090 HGT +	-.0625 X 50/100 HGT +	
			.1675 X INL	MIN +				
DLH	MIN	R= .87786	STANDARD ERROR =	6.84927	REDUCTION OF VARIANCE =	.77064	STD. DEV. OF PND.	14.30166
DLH	MIN	= -219.2392 +	.0349 X 45/095 THK +		.2043 X W6	MAX +	.0379 X 50/090 HGT +	.2565 X FAR
			-.0323 X 50/110 HGT +		.0397	50/100 THK +		
STC	MIN	R= .86065	STANDARD ERROR =	7.24605	REDUCTION OF VARIANCE =	.74071	STD. DEV. OF PND.	14.23018
STC	MIN	= -218.7373 +	.4648 X FAR	MIN +	.0809 X 50/100 THK +	.0328 X 40/090 HGT +	-.0330 X 45/105 HGT +	
FAR	MIN	R= .86435	STANDARD ERROR =	7.34590	REDUCTION OF VARIANCE =	.74710	STD. DEV. OF PND.	14.60717
FAR	MIN	= -280.8690 +	.1029 X 50/100 THK +		.5261 X FAR	MIN +	-.2043 X DLH	MIN +
BIS	MIN	R= .85286	STANDARD ERROR =	7.93136	REDUCTION OF VARIANCE =	.72738	STD. DEV. OF PND.	15.19026
BIS	MIN	= -152.7398 +	.3887 X BIS	MIN +	.0536 X 50/110 THK +	.2790 X QR	MAX +	
ISN	MIN	R= .87279	STANDARD ERROR =	7.69307	REDUCTION OF VARIANCE =	.76176	STD. DEV. OF PND.	15.76116
ISN	MIN	= -293.2722 +	.1051 X 50/110 THK +		.2606 X QR	MAX +	.1665 X BIS	MIN +
GS6	MIN	R= .87857	STANDARD ERROR =	7.62486	REDUCTION OF VARIANCE =	.77189	STD. DEV. OF PND.	15.96464
GS6	MIN	= -287.2987 +	.1039 X 50/110 THK +		.4224 X GS6	MIN +		
BIL	MIN	R= .88635	STANDARD ERROR =	7.40856	REDUCTION OF VARIANCE =	.78561	STD. DEV. OF PND.	16.00052
BIL	MIN	= -359.5249 +	.1109 X 50/110 THK +		.2005 X HLN	MIN +	-.0289 X 60/130 HGT +	.0515 X 45/125 THK +
GTF	MIN	R= .88904	STANDARD ERROR =	8.21443	REDUCTION OF VARIANCE =	.79039	STD. DEV. OF PND.	17.94190
GTF	MIN	= -404.2129 +	.0991 X 50/110 THK +		-.0424 X 60/140 HGT +	.0447 X 45/115 HGT +	.0470 X 55/125 THK +	

HLN	MIN	R = .87119	STANDARD ERROR = 8.46765	REDUCTION OF VARIANCE = .75898	STD. DEV. OF PND. 17.24715
HLN	MIN	= -197.9861 + .5175 X HLN	MIN + .0643 X 50/120 THK +	-.0420 X 60/130 HGT +	.0501 X 45/125 THK +
M50	MIN	R = .86421	STANDARD ERROR = 6.87976	REDUCTION OF VARIANCE = .74687	STD. DEV. OF PND. 13.67409
M50	MIN	= -154.3579 + .5738 X M50	MIN + .0612 X 50/120 THK +	-.0691 X 50/120 HGT +	.0643 X 45/115 HGT +
GEG	MIN	R = .89922	STANDARD ERROR = 5.33686	REDUCTION OF VARIANCE = .80859	STD. DEV. OF PND. 12.19848
GEG	MIN	= -87.9429 + .6805 X GEG	MIN + .0565 X 45/125 THK +	-.0232 X 55/135 HGT +	
PDT	MIN	R = .90082	STANDARD ERROR = 5.21183	REDUCTION OF VARIANCE = .81147	STD. DEV. OF PND. 12.00327
PDT	MIN	= -80.2073 + .4704 X PDT	MIN + -.0185 X 55/135 HGT +	.0480 X 45/125 THK +	.2633 X PDT MAX +
YKM	MIN	R = .87942	STANDARD ERROR = 5.52400	REDUCTION OF VARIANCE = .77339	STD. DEV. OF PND. 11.60413
YKM	MIN	= -126.0381 + .4772 X YKM	MIN + .0456 X 45/125 THK +	.3126 X GEG MIN +	
PDX	MIN	R = .83987	STANDARD ERROR = 4.33794	REDUCTION OF VARIANCE = .70539	STD. DEV. OF PND. 7.99204
PDX	MIN	= -38.1735 + .6597 X PDX	MIN + -.0139 X 55/135 HGT +	.0314 X 45/125 THK +	
SEA	MIN	R = .86230	STANDARD ERROR = 3.85751	REDUCTION OF VARIANCE = .74356	STD. DEV. OF PND. 7.61755
SEA	MIN	= -65.0032 + .6117 X SEA	MIN + .0406 X 45/125 THK +	-.0132 X 55/135 HGT +	
TTI	MIN	R = .86275	STANDARD ERROR = 2.62355	REDUCTION OF VARIANCE = .74434	STD. DEV. OF PND. 5.18874
TTI	MIN	= -86.2371 + .3055 X SEA	MIN + .0312 X 50/130 THK +	.0151 X 55/125 THK +	-.0055 X 50/150 HGT +
MSP	MIN	R = .87312	STANDARD ERROR = 6.69341	REDUCTION OF VARIANCE = .76234	STD. DEV. OF PND. 13.72991
MSP	MIN	= -240.1727 + .0559 X 45/095 THK +	.3880 X FAR MIN +	.0467 X 50/110 THK +	-.0342 X 45/115 HGT +
			.0225 X 45/085 HGT +		
HON	MIN	R = .85209	STANDARD ERROR = 7.60747	REDUCTION OF VARIANCE = .72606	STD. DEV. OF PND. 14.53488
HON	MIN	= -278.1057 + .4430 X HON	MIN + .0506 X 50/100 THK +	.0505 X 45/105 THK +	
RAP	MIN	R = .89342	STANDARD ERROR = 6.09602	REDUCTION OF VARIANCE = .79821	STD. DEV. OF PND. 13.57043
RAP	MIN	= -353.7613 + .0664 X 45/105 THK +	.0633 X 50/110 THK +	.2445 X RAP MIN +	
CPR	MIN	R = .85444	STANDARD ERROR = 7.35462	REDUCTION OF VARIANCE = .73007	STD. DEV. OF PND. 14.15574
CPR	MIN	= -191.7175 + .0263 X 45/105 THK +	.0685 X 40/110 HGT +	-.0374 X 60/130 HGT +	-.0285 X 40/130 HGT +
			.0407 X 50/120 THK +	.2255 X CPP MIN +	
LND	MIN	R = .88068	STANDARD ERROR = 6.21796	REDUCTION OF VARIANCE = .77560	STD. DEV. OF PND. 13.12597
LND	MIN	= -183.4395 + .5230 X LND	MAX + .0776 X 45/115 THK +	-.0152 X 50/130 HGT +	
PIH	MIN	R = .85350	STANDARD ERROR = 7.23526	REDUCTION OF VARIANCE = .72846	STD. DEV. OF PND. 13.88483
PIH	MIN	= -3.0249 + .4453 X PIH	MIN + .3857 X BNO MIN +	-.0319 X 55/125 HGT +	.0322 X 40/110 HGT +
BOI	MIN	R = .88757	STANDARD ERROR = 5.07881	REDUCTION OF VARIANCE = .78779	STD. DEV. OF PND. 11.02491
BOI	MIN	= -84.2438 + .6718 X BOI	MIN + .0382 X 45/125 THK +	-.0276 X 50/130 HGT +	.0209 X 40/120 HGT +
BNO	MIN	R = .82795	STANDARD ERROR = 6.35372	REDUCTION OF VARIANCE = .68950	STD. DEV. OF PND. 11.32973
BNO	MIN	= -175.9672 + .5527 X BNO	MIN + .0545 X 45/125 THK +	-.0496 X 45/125 HGT +	.0580 X 40/120 HGT +
MFR	MIN	R = .82720	STANDARD ERROR = 4.27555	REDUCTION OF VARIANCE = .68425	STD. DEV. OF PND. 7.60891
MFR	MIN	= -43.6470 + .5874 X MFR	MIN + -.0212 X 50/130 HGT +	.0253 X 45/125 THK +	.0151 X 40/120 HGT +
SLE	MIN	R = .82680	STANDARD ERROR = 4.78095	REDUCTION OF VARIANCE = .67322	STD. DEV. OF PND. 8.36352
SLE	MIN	= -26.5542 + .6036 X SLE	MIN + -.0180 X 55/135 HGT +	.0320 X 45/125 THK +	

Southwest Max

January-February

HGT: (700MR HEIGHT) IN METERS THK: (700MR HEIGHT - 1000MR HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MAX	R = .90103	STANDARD ERROR = 5.69821	REDUCTION OF VARIANCE = .81186	STD. DEV. OF PND, 13.13712
DSM	MAX	= -137.7053 +	.0904 X 45/095 THK +	.2841 X OMA MAX +	.3122 X DSM MIN +
			.0366 X 35/095 HGT +	-.0373 X 35/095 THK +	-.0343 X 50/100 HGT +
OMA	MAX	R = .87869	STANDARD ERROR = 6.35299	REDUCTION OF VARIANCE = .77210	STD. DEV. OF PND, 13.30780
OMA	MAX	= -120.6674 +	.3978 X OMA MIN +	.1135 X 40/100 THK +	-.0617 X 35/105 THK +
					.1696 X OMA MAX +
LRF	MAX	R = .89453	STANDARD ERROR = 6.79060	REDUCTION OF VARIANCE = .80019	STD. DEV. OF PND, 15.19143
LRF	MAX	= -354.2235 +	.1381 X 45/105 THK +	.2940 X LRF MAX +	-.0392 X 50/100 HGT +
					.0344 X 35/105 HGT +
DEN	MAX	R = .91467	STANDARD ERROR = 5.87888	REDUCTION OF VARIANCE = .83662	STD. DEV. OF PND, 14.54448
DEN	MAX	= -375.4397 +	.4099 X DEN MIN +	.0663 X 35/105 HGT +	.0730 X 45/105 THK +
			.0497 X 40/120 THK +		-.0477 X 50/110 HGT +
SLC	MAX	R = .91615	STANDARD ERROR = 4.26658	REDUCTION OF VARIANCE = .83933	STD. DEV. OF PND, 10.64427
SLC	MAX	= -114.3027 +	.1956 X SLC MIN +	.3478 X SLC MAX +	.0606 X 40/120 THK +
			.1586 X PIH MIN +		-.0135 X 40/130 HGT +
WMC	MAX	R = .88863	STANDARD ERROR = 4.82513	REDUCTION OF VARIANCE = .78966	STD. DEV. OF PND, 10.52085
WMC	MAX	= -258.8222 +	.0988 X 40/120 THK +	.3125 X WMC MAX +	.2411 X BNO MIN +
RNO	MAX	R = .87440	STANDARD ERROR = 5.10496	REDUCTION OF VARIANCE = .76457	STD. DEV. OF PND, 10.52103
RNO	MAX	= -212.1527 +	.0561 X 40/120 THK +	.4107 X RNO MAX +	.2255 X BNO MIN +
					.0244 X 40/120 HGT +
RBL	MAX	R = .81291	STANDARD ERROR = 4.91048	REDUCTION OF VARIANCE = .66083	STD. DEV. OF PND, 8.43166
RBL	MAX	= -195.3356 +	.3641 X SAC MAX +	.0360 X 45/125 HGT +	.2012 X LAS MIN +
			.0116 X 40/140 HGT +	.2897 X SFO MAX +	.0229 X 45/115 THK +
EKA	MAX	R = .83877	STANDARD ERROR = 2.96765	REDUCTION OF VARIANCE = .70353	STD. DEV. OF PND, 5.45033
EKA	MAX	= -35.1899 +	.2637 X EKA MIN +	.0165 X 45/115 HGT +	.2491 X EKA MAX +
			.0172 X 40/130 THK +		-.0114 X 40/140 HGT +
MKC	MAX	R = .87689	STANDARD ERROR = 6.51434	REDUCTION OF VARIANCE = .76894	STD. DEV. OF PND, 13.55220
MKC	MAX	= -216.5858 +	.3988 X MKC MIN +	.0841 X 40/100 THK +	.2366 X TOP MAX +
TOP	MAX	R = .87848	STANDARD ERROR = 6.64938	REDUCTION OF VARIANCE = .77172	STD. DEV. OF PND, 13.91710
TOP	MAX	= -214.5077 +	.1688 X 40/100 THK +	.3277 X OMA MIN +	.2078 X TOP MAX +
					-.0230 X 45/095 HGT +
ICT	MAX	R = .89050	STANDARD ERROR = 6.39967	REDUCTION OF VARIANCE = .79298	STD. DEV. OF PND, 14.06548
ICT	MAX	= -146.3459 +	.1150 X 40/100 THK +	.2392 X ICT MAX +	-.0303 X 45/095 HGT +
			.0234 X 35/085 THK +		.3619 X ICT MIN +
DDC	MAX	R = .89968	STANDARD ERROR = 6.65803	REDUCTION OF VARIANCE = .80943	STD. DEV. OF PND, 15.25173
DDC	MAX	= -369.2351 +	.1835 X 40/100 THK +	.2627 X DDC MAX +	-.0542 X 35/095 THK +
			-.0729 X 40/100 HGT +		.0835 X 35/105 HGT +
PUB	MAX	R = .89773	STANDARD ERROR = 6.40374	REDUCTION OF VARIANCE = .80592	STD. DEV. OF PND, 14.53593
PUB	MAX	= -569.7475 +	.1264 X 40/100 THK +	.1163 X 35/105 HGT +	-.0688 X 40/100 HGT +
			-.0260 X 50/110 HGT +		.0651 X 45/115 THK +
GJT	MAX	R = .90716	STANDARD ERROR = 4.25962	REDUCTION OF VARIANCE = .82294	STD. DEV. OF PND, 10.12292
GJT	MAX	= -190.4691 +	.3822 X GJT MAX +	.0538 X 40/110 THK +	.3126 X GJT MIN +
					.0181 X 40/110 HGT +
MLF	MAX	R = .87534	STANDARD ERROR = 5.86821	REDUCTION OF VARIANCE = .76622	STD. DEV. OF PND, 12.13677
MLF	MAX	= -194.9808 +	.2596 X ELY MIN +	.0740 X 40/120 THK +	.2720 X SLC MAX +
					.2367 X ELY MAX +
ELY	MAX	R = .90161	STANDARD ERROR = 4.78333	REDUCTION OF VARIANCE = .81290	STD. DEV. OF PND, 11.05839
ELY	MAX	= -358.4527 +	.1057 X 40/120 THK +	.3752 X ELY MAX +	.0516 X 40/110 HGT +
					-.0267 X 50/110 HGT +
SAC	MAX	R = .82919	STANDARD ERROR = 3.86177	REDUCTION OF VARIANCE = .68756	STD. DEV. OF PND, 6.90884
SAC	MAX	= -17.1919 +	.4837 X SAC MAX +	.1895 X RBL MIN +	.2316 X FAT MAX +
					.0085 X 45/125 HGT +

SFO MAX R = .80349 STANDARD ERROR = 3.16937 REDUCTION OF VARIANCE = .64560 STD. DEV. OF PND. 5.32382
SFO MAX = -28.7169 + .4846 X SFO MAX + .2347 X RBL MTN + .0161 X 40/120 HGT +

OKC MAX R = .88701 STANDARD ERROR = 6.49717 REDUCTION OF VARIANCE = .78678 STD. DEV. OF PND. 14.07054
OKC MAX = -171.7566 + .1116 X 40/100 THK + 2763 X ICT MAX + -.0402 X 45/095 HGT + .3229 X OKC MIN +

AMA MAX R = .89472 STANDARD ERROR = 6.57489 REDUCTION OF VARIANCE = .80053 STD. DEV. OF PND. 14.72130
AMA MAX = -386.2834 + .1443 X 40/100 THK + -.0832 X 40/100 HGT + .1280 X 35/105 HGT + .2118 X AMA MAX +
-.0424 X 45/105 HGT +

ABQ MAX R = .88983 STANDARD ERROR = 4.58362 REDUCTION OF VARIANCE = .79179 STD. DEV. OF PND. 10.04519
ABQ MAX = -384.0049 + .0763 X 35/105 THK + .0668 X 35/115 THK + .3313 X ABQ MAX +

INW MAX R = .87540 STANDARD ERROR = 5.27058 REDUCTION OF VARIANCE = .76632 STD. DEV. OF PND. 10.90310
INW MAX = -173.1810 + .4436 X INW MAX + .0911 X 35/115 THK + -.0228 X 45/115 HGT + .1769 X SLC MIN +

LAS MAX R = .89675 STANDARD ERROR = 3.89153 REDUCTION OF VARIANCE = .80416 STD. DEV. OF PND. 8.79372
LAS MAX = -274.2795 + .4465 X LAS MAX + .0515 X 40/120 THK + .0544 X 35/115 THK +

BFL MAX R = .84758 STANDARD ERROR = 4.21089 REDUCTION OF VARIANCE = .71839 STD. DEV. OF PND. 7.93510
BFL MAX = -144.9868 + .4056 X FAT MAX + .0389 X 40/120 THK + .4149 X SAC MAX + .0222 X 40/130 HGT +
-.1593 X ELY MAX + .0414 X 35/125 THK +

FAT MAX R = .84009 STANDARD ERROR = 4.10723 REDUCTION OF VARIANCE = .70576 STD. DEV. OF PND. 7.57176
FAT MAX = -93.8678 + .4471 X FAT MAX + .4030 X SAC MAX + .0507 X 40/120 THK + -.1592 X ELY MAX +
-.0117 X 35/135 HGT +

SMX MAX R = .85042 STANDARD ERROR = 3.82142 REDUCTION OF VARIANCE = .72322 STD. DEV. OF PND. 7.26368
SMX MAX = -180.5505 + .0443 X 40/120 HGT + .3076 X SAN MAX + .1896 X YUM MIN + .0275 X 35/125 THK +

FTW MAX R = .88764 STANDARD ERROR = 6.33467 REDUCTION OF VARIANCE = .78790 STD. DEV. OF PND. 13.75495
FTW MAX = -97.1412 + .1515 X AMA MAX + .3001 X FTW MIN + .0344 X 40/100 THK + -.0430 X 40/090 HGT +
.1058 X 35/095 THK + -.0505 X 30/090 THK + .1589 X FTW MAX +

MAF MAX R = .86772 STANDARD ERROR = 6.51904 REDUCTION OF VARIANCE = .75293 STD. DEV. OF PND. 13.11521
MAF MAX = -446.9395 + .0891 X 35/105 THK + -.0693 X 40/100 HGT + .0825 X 40/100 THK + .2326 X MAF MAX +
.0660 X 25/105 HGT +

ELP MAX R = .89194 STANDARD ERROR = 4.45744 REDUCTION OF VARIANCE = .79556 STD. DEV. OF PND. 9.85840
ELP MAX = -285.7832 + .0808 X 35/105 THK + .3055 X YUM MAX + .2374 X ELP MAX + .0595 X 30/110 HGT +
-.0362 X 40/110 HGT +

TUS MAX R = .91395 STANDARD ERROR = 3.71684 REDUCTION OF VARIANCE = .83530 STD. DEV. OF PND. 9.15855
TUS MAX = -363.6323 + .0790 X 35/115 THK + .3415 X TUS MAX + .0571 X 30/110 HGT +

PHX MAX R = .90132 STANDARD ERROR = 3.55494 REDUCTION OF VARIANCE = .81238 STD. DEV. OF PND. 8.20716
PHX MAX = -212.6063 + .5070 X PHX MAX + .0292 X 35/115 HGT + .0534 X 35/115 THK +

YUM MAX R = .91473 STANDARD ERROR = 3.33771 REDUCTION OF VARIANCE = .83672 STD. DEV. OF PND. 8.26014
YUM MAX = -252.2664 + .0712 X 35/115 THK + .4046 X YUM MAX + .0263 X 30/120 HGT + .1180 X MPR MAX +

SAN MAX R = .83751 STANDARD ERROR = 3.47442 REDUCTION OF VARIANCE = .70142 STD. DEV. OF PND. 6.35844
SAN MAX = -83.2290 + .4346 X SAN MAX + .0370 X 40/120 HGT + .1692 X YUM MIN +

LAX MAX R = .81407 STANDARD ERROR = 4.26698 REDUCTION OF VARIANCE = .66271 STD. DEV. OF PND. 7.34715
LAX MAX = -98.0491 + .4194 X LAX MAX + .0417 X 40/120 HGT + .1936 X YUM MIN +

SAT MAX R = .87807 STANDARD ERROR = 5.56874 REDUCTION OF VARIANCE = .77100 STD. DEV. OF PND. 11.63701
SAT MAX = -107.0848 + .3071 X MAF MAX + .1047 X 35/095 THK + -.0614 X 35/095 HGT + .0453 X 30/110 HGT +
.2670 X HOU MIN + -.0388 X 30/090 THK +

DRT MAX R = .86674 STANDARD ERROR = 5.69172 REDUCTION OF VARIANCE = .75124 STD. DEV. OF PND. 11.41173
DRT MAX = -198.2569 + .2166 X MAF MAX + .0614 X 35/095 THK + -.0522 X 35/095 HGT + .0753 X 35/105 THK +
.2057 X SAT MAX +

Southwest Min

January-February

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MIN R= .85441	STANDARD ERROR = 6.85247	REDUCTION OF VARIANCE = .73001	STD. DEV. OF PND. 13.18788
DSM	MIN = -216.3370 +	.1227 X 45/095 THK +	.4106 X DSM MIN +	-.0418 X 45/085 THK +
OMA	MIN R= .85150	STANDARD ERROR = 6.61958	REDUCTION OF VARIANCE = .72506	STD. DEV. OF PND. 12.62435
OMA	MIN = -238.9696 +	.3062 X OMA MIN +	.0429 X 50/100 THK +	.0450 X 40/100 THK +
				.1623 X HON MAY +
LBF	MIN R= .85252	STANDARD ERROR = 5.92918	REDUCTION OF VARIANCE = .72678	STD. DEV. OF PND. 11.34337
LBF	MIN = -221.7262 +	.0811 X 45/105 THK +	.4233 X LBF MIN +	
DEN	MIN R= .88873	STANDARD ERROR = 5.50457	REDUCTION OF VARIANCE = .78983	STD. DEV. OF PND. 12.00718
DEN	MIN = -209.2674 +	.0690 X 45/105 THK +	.3952 X DEN MIN +	.0790 X 40/110 HGT +
		-.0215 X 45/125 HGT +		-.0504 X 45/105 HGT +
SLC	MIN R= .86911	STANDARD ERROR = 5.69473	REDUCTION OF VARIANCE = .75535	STD. DEV. OF PND. 11.51342
SLC	MIN = -129.1719 +	.5557 X SLC MIN +	.0329 X 40/120 THK +	-.0497 X 45/115 HGT +
		.1738 X BNO MIN +		.0624 X 40/110 HGT +
WMC	MIN R= .83626	STANDARD ERROR = 7.03849	REDUCTION OF VARIANCE = .69933	STD. DEV. OF PND. 12.83614
WMC	MIN = -135.8872 +	.5760 X WMC MIN +	.0688 X 40/120 HGT +	-.0686 X 45/125 HGT +
				.0487 X 45/125 THK +
RNO	MIN R= .82430	STANDARD ERROR = 6.10960	REDUCTION OF VARIANCE = .67947	STD. DEV. OF PND. 10.79149
RNO	MIN = -113.0109 +	.5773 X RNO MIN +	.0571 X 40/120 HGT +	-.0555 X 45/125 HGT +
				.0398 X 45/125 THK +
RBL	MIN R= .80487	STANDARD ERROR = 4.04079	REDUCTION OF VARIANCE = .64781	STD. DEV. OF PND. 6.80893
RBL	MIN = 2.2671 +	.5278 X RBL MIN +	.3825 X EKA MIN +	
EKA	MIN R= .81872	STANDARD ERROR = 3.45538	REDUCTION OF VARIANCE = .67030	STD. DEV. OF PND. 6.01775
EKA	MIN = -50.0970 +	.4386 X EKA MIN +	.0308 X 40/130 THK +	-.0185 X 45/135 HGT +
				.0129 X 40/120 HGT +
MKC	MIN R= .86063	STANDARD ERROR = 5.75327	REDUCTION OF VARIANCE = .74069	STD. DEV. OF PND. 11.29799
MKC	MIN = -220.8979 +	.0474 X 40/100 THK +	.3144 X OMA MIN +	.0442 X 50/100 THK +
		.0236 X 40/090 HGT +		-.0295 X 50/110 HGT +
TOP	MIN R= .86212	STANDARD ERROR = 5.62635	REDUCTION OF VARIANCE = .74325	STD. DEV. OF PND. 11.10385
TOP	MIN = -111.2485 +	.0468 X 40/100 THK +	.3828 X TOP MIN +	.0296 X 50/100 THK +
		.0436 X 40/090 HGT +	.1997 X RAP MIN +	-.0440 X 45/105 HGT +
				-.0326 X 40/090 THK +
ICT	MIN R= .84655	STANDARD ERROR = 5.55319	REDUCTION OF VARIANCE = .71665	STD. DEV. OF PND. 10.43233
ICT	MIN = -195.4582 +	.0642 X 40/100 THK +	.3587 X ICT MIN +	.0335 X 50/110 THK +
				-.0224 X 50/110 HGT +
DDC	MIN R= .87527	STANDARD ERROR = 5.13882	REDUCTION OF VARIANCE = .76610	STD. DEV. OF PND. 10.62555
DDC	MIN = -145.0133 +	.0598 X 45/105 THK +	.3468 X DDC MIN +	-.0600 X 45/105 HGT +
		.1446 X BIL MIN +		.0553 X 40/100 HGT +
PUB	MIN R= .85160	STANDARD ERROR = 6.23616	REDUCTION OF VARIANCE = .72522	STD. DEV. OF PND. 11.89661
PUB	MIN = 49.7341 +	.2512 X DEN MAX +	.3166 X PUB MIN +	.2826 X CPR MIN +
				-.0184 X 50/110 HGT +
GJT	MIN R= .87322	STANDARD ERROR = 4.96340	REDUCTION OF VARIANCE = .76252	STD. DEV. OF PND. 10.18510
GJT	MIN = -1.9042 +	.4717 X GJT MIN +	.1900 X ELY MIN +	.2594 X GJT MAX +
MLF	MIN R= .83004	STANDARD ERROR = 7.32938	REDUCTION OF VARIANCE = .68896	STD. DEV. OF PND. 13.14203
MLF	MIN = -44.7192 +	.4808 X ELY MIN +	.3182 X BOI MIN +	-.0590 X 40/120 HGT +
				.0739 X 35/115 HGT +
ELY	MIN R= .84347	STANDARD ERROR = 7.11450	REDUCTION OF VARIANCE = .71144	STD. DEV. OF PND. 13.24419
ELY	MIN = -173.6415 +	.4535 X ELY MIN +	.0531 X 35/115 HGT +	-.0372 X 45/125 HGT +
		.2326 X ELY MAX +		.0417 X 45/125 THK +
SAC	MIN R= .85380	STANDARD ERROR = 3.60217	REDUCTION OF VARIANCE = .72898	STD. DEV. OF PND. 6.91927
SAC	MIN = 12.1157 +	.4960 X SAC MIN +	.2838 X EKA MIN +	-.0219 X 40/130 HGT +
				.0205 X 40/120 HGT +

SFO MIN R= .83376 STANDARD ERROR = 3.25557 REDUCTION OF VARIANCE = .69515 STD. DEV. OF PND. 5.89639
 SFO MIN = -10.5149 + .3231 X SFO MIN + .2749 X EKA MIN + -.0201 X 40/130 HGT + .0285 X 40/130 THK +
 .1126 X FAT MAX +

OKC MIN R= .85387 STANDARD ERROR = 5.39288 REDUCTION OF VARIANCE = .72910 STD. DEV. OF PND. 10.36138
 OKC MIN = -85.9416 + .0562 X 40/100 THK + .3543 X ICT MIN + -.0185 X 40/120 HGT + .1655 X CPR MIN +

AMA MIN R= .85749 STANDARD ERROR = 5.27822 REDUCTION OF VARIANCE = .73529 STD. DEV. OF PND. 10.25902
 AMA MIN = -55.0836 + .0703 X 40/100 THK + .3168 X AMA MIN + .1684 X CPR MIN + -.0230 X 35/125 HGT +
 -.0213 X 40/090 THK +

ABQ MIN R= .84150 STANDARD ERROR = 4.57944 REDUCTION OF VARIANCE = .70812 STD. DEV. OF PND. 8.47634
 ABQ MIN = -164.5256 + .0609 X 35/105 THK + .4214 X ABQ MIN + .1193 X ELY MIN +

INW MIN R= .85411 STANDARD ERROR = 4.88001 REDUCTION OF VARIANCE = .72950 STD. DEV. OF PND. 9.38298
 INW MIN = -80.2892 + .4739 X INW MIN + .0405 X 35/115 THK + -.0370 X 40/120 HGT + .0255 X 35/105 HGT +
 .1682 X INW MAX +

LAS MIN R= .84759 STANDARD ERROR = 3.97914 REDUCTION OF VARIANCE = .71840 STD. DEV. OF PND. 7.49851
 LAS MIN = -57.2450 + .2667 X FAT MIN + .0337 X 40/110 THK + .2531 X LAS MIN + .2318 X YUM MAX +
 -.0132 X 35/125 HGT +

BFL MIN R= .86226 STANDARD ERROR = 3.51167 REDUCTION OF VARIANCE = .74348 STD. DEV. OF PND. 6.93358
 BFL MIN = 48.3058 + .3897 X FAT MIN + .2404 X BFL MAX + -.0151 X 35/135 HGT + .2252 X SAC MIN +

FAT MIN R= .86847 STANDARD ERROR = 3.51067 REDUCTION OF VARIANCE = .75424 STD. DEV. OF PND. 7.08165
 FAT MIN = -56.1377 + .3777 X FAT MIN + .0245 X 40/120 THK + -.0180 X 40/130 HGT + .2532 X SAC MIN +
 .0175 X 35/115 HGT +

SMX MIN R= .79118 STANDARD ERROR = 4.09778 REDUCTION OF VARIANCE = .62596 STD. DEV. OF PND. 6.70025
 SMX MIN = -65.8484 + .2803 X SFO MIN + .0255 X 35/115 THK + -.0191 X 35/135 HGT + .2488 X FAT MIN +
 .0234 X 35/125 THK +

FTW MIN R= .85040 STANDARD ERROR = 5.77333 REDUCTION OF VARIANCE = .72318 STD. DEV. OF PND. 10.97299
 FTW MIN = -129.3605 + .0506 X 40/100 THK + .2254 X FTW MIN + -.0357 X 40/110 HGT + .0369 X 30/090 HGT +
 .1867 X CPR MIN + .1975 X ICT MIN +

MAF MIN R= .85102 STANDARD ERROR = 5.03394 REDUCTION OF VARIANCE = .72423 STD. DEV. OF PND. 9.58601
 MAF MIN = -125.5767 + .0723 X 40/100 THK + .3050 X MAF MIN + -.0221 X 40/120 HGT + .1593 X ELP MAX +

ELP MIN R= .82841 STANDARD ERROR = 5.10144 REDUCTION OF VARIANCE = .68627 STD. DEV. OF PND. 9.10779
 ELP MIN = -136.8637 + .0738 X 35/105 THK + .2565 X ELP MIN + -.0224 X 45/115 HGT + .3238 X PHX MIN +

TUS MIN R= .87330 STANDARD ERROR = 3.54829 REDUCTION OF VARIANCE = .76265 STD. DEV. OF PND. 7.28330
 TUS MIN = -146.5674 + .4101 X TUS MIN + .0587 X 35/115 THK + -.0322 X 35/125 HGT + .0316 X 35/105 HGT +

PHX MIN R= .85294 STANDARD ERROR = 3.65821 REDUCTION OF VARIANCE = .72751 STD. DEV. OF PND. 7.00802
 PHX MIN = -80.4998 + .3810 X PHX MIN + .0389 X 35/115 THK + -.0298 X 35/125 HGT + .0252 X 35/105 HGT +
 .1810 X LAS MIN +

YUM MIN R= .84651 STANDARD ERROR = 3.42503 REDUCTION OF VARIANCE = .71659 STD. DEV. OF PND. 6.43360
 YUM MIN = -47.9978 + .2729 X YUM MAX + .2515 X YUM MIN + .1593 X FAT MIN + .0175 X 35/105 HGT +
 .1054 X INW MIN +

SAN MIN R= .83313 STANDARD ERROR = 2.71066 REDUCTION OF VARIANCE = .69411 STD. DEV. OF PND. 4.90105
 SAN MIN = -65.1585 + .4411 X SAN MIN + .0316 X 35/115 THK + -.0222 X 35/125 HGT + .1186 X EKA MIN +
 .0215 X 35/125 THK +

LAX MIN R= .81527 STANDARD ERROR = 3.01257 REDUCTION OF VARIANCE = .66466 STD. DEV. OF PND. 5.20230
 LAX MIN = -74.9480 + .4988 X LAX MIN + .0314 X 35/115 THK + .1512 X EKA MIN +

SAT MIN R= .86751 STANDARD ERROR = 5.47962 REDUCTION OF VARIANCE = .75257 STD. DEV. OF PND. 11.01606
 SAT MIN = -71.3001 + .0182 X 35/095 THK + .4113 X SAT MIN + .2860 X AMA MIN + -.0350 X 40/110 HGT +
 .0340 X 30/090 HGT + .0338 X 40/100 THK + -.0209 X 40/080 THK +

DRT MIN R= .86585 STANDARD ERROR = 4.93364 REDUCTION OF VARIANCE = .74969 STD. DEV. OF PND. 9.86113
 DRT MIN = -107.4488 + .4946 X DRT MIN + .0533 X 30/100 THK + .0441 X 40/100 THK + -.0300 X 35/115 HGT +
 -.0222 X 40/080 THK +

Southeast Max

January-February

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

SBY	MAX	R = .90048	STANDARD ERROR =	4.90180	REDUCTION OF VARIANCE =	.81087	STD. DEV. OF PND,	11.27136
SBY	MAX	= -91.8623 +	.0458 X 40/080 THK +	.1721 X CRW	MAX +	-.0265 X 45/085 HGT +	.3085 X NYC	MIN +
			.0203 X 35/075 HGT +	.1986 X IND	MAX +			
DCA	MAX	R = .88039	STANDARD ERROR =	5.29975	REDUCTION OF VARIANCE =	.77510	STD. DEV. OF PND,	11.17521
DCA	MAX	= -39.4307 +	.4297 X NYC	MIN +	.2161 X STL	MAX +	.1025 X CRW	MAX +
			.0775 X 40/080 THK +				-.0182 X 50/080 HGT +	
CRW	MAX	R = .91719	STANDARD ERROR =	5.39703	REDUCTION OF VARIANCE =	.84125	STD. DEV. OF PND,	13.54537
CRW	MAX	= -285.1598 +	.0631 X 40/080 THK +	.1207 X CRI	MAX +	.0311 X 35/075 HGT +	.0472 X 40/090 THK +	
			-.0309 X 45/095 HGT +	.2343 X LOU	MAX +			
HTS	MAX	R = .90095	STANDARD ERROR =	5.65348	REDUCTION OF VARIANCE =	.81170	STD. DEV. OF PND,	13.02852
HTS	MAX	= -292.0788 +	.0547 X 40/080 THK +	.2999 X STL	MAX +	.0562 X 40/090 THK +	.0267 X 35/075 HGT +	
			-.0266 X 45/095 HGT +					
LOU	MAX	R = .90758	STANDARD ERROR =	5.39017	REDUCTION OF VARIANCE =	.82371	STD. DEV. OF PND,	12.83759
LOU	MAX	= -278.1887 +	.1148 X 40/090 THK +	.3001 X STL	MAX +	-.0597 X 40/090 HGT +	.0541 X 35/085 HGT +	
ORF	MAX	R = .89605	STANDARD ERROR =	5.36725	REDUCTION OF VARIANCE =	.80290	STD. DEV. OF PND,	12.08955
ORF	MAX	= -176.4933 +	.3511 X RIC	MIN +	.0799 X 40/080 THK +	-.0030 X 45/085 HGT +	.2837 X LOU	MAX +
			.0643 X 35/075 HGT +	-.0668 X 40/080 HGT +		-.1908 X MGM	MIN +	
RIC	MAX	R = .87754	STANDARD ERROR =	5.64506	REDUCTION OF VARIANCE =	.77007	STD. DEV. OF PND,	11.77256
RIC	MAX	= -146.3572 +	.3185 X LOU	MAX +	.0659 X 40/080 THK +	-.0363 X 45/075 HGT +	.3871 X NYC	MIN +
			.0289 X 30/080 HGT +					
ROA	MAX	R = .86572	STANDARD ERROR =	5.75063	REDUCTION OF VARIANCE =	.74948	STD. DEV. OF PND,	11.48921
ROA	MAX	= -201.2944 +	.0777 X 40/080 THK +	.2899 X LOU	MAX +	-.0373 X 45/075 HGT +	.0422 X 35/085 HGT +	
			.2528 X NYC	MIN +				
HAT	MAX	R = .88052	STANDARD ERROR =	4.57786	REDUCTION OF VARIANCE =	.77531	STD. DEV. OF PND,	9.65766
HAT	MAX	= -67.0330 +	.0610 X 35/075 THK +	.2130 X BNA	MAX +	.0266 X 35/065 HGT +	-.0227 X 40/090 HGT +	
			.2157 X RIC	MIN +	-.0297 X 35/065 THK +			
RDU	MAX	R = .88067	STANDARD ERROR =	5.51117	REDUCTION OF VARIANCE =	.77559	STD. DEV. OF PND,	11.63378
RDU	MAX	= -191.6780 +	.3786 X ROA	MIN +	.3490 X BNA	MAX +	.0728 X 40/080 THK +	-.0288 X 45/075 HGT +
			.0327 X 30/080 HGT +	-.1989 X MGM	MIN +			
GSO	MAX	R = .87229	STANDARD ERROR =	5.50288	REDUCTION OF VARIANCE =	.76088	STD. DEV. OF PND,	11.25340
GSO	MAX	= -141.6053 +	.4309 X ROA	MIN +	.1006 X STL	MAX +	.2674 X BNA	MAX +
			-.0289 X 45/075 HGT +	.0540 X 40/080 THK +		-.1810 X MGM	MIN +	.0330 X 35/085 HGT +
TYS	MAX	R = .88242	STANDARD ERROR =	5.52344	REDUCTION OF VARIANCE =	.77866	STD. DEV. OF PND,	11.74031
TYS	MAX	= -274.1003 +	.1052 X 35/085 THK +	.2196 X FSM	MAX +	.2076 X TYS	MAX +	
BNA	MAX	R = .90150	STANDARD ERROR =	5.52900	REDUCTION OF VARIANCE =	.81271	STD. DEV. OF PND,	12.77587
BNA	MAX	= -271.1139 +	.1072 X 40/090 THK +	.3395 X FSM	MAX +	.0678 X 35/085 HGT +	-.0690 X 40/090 HGT +	
MEM	MAX	R = .89710	STANDARD ERROR =	5.63889	REDUCTION OF VARIANCE =	.80489	STD. DEV. OF PND,	12.76291
MEM	MAX	= -290.4112 +	.0704 X 40/090 THK +	.3329 X FSM	MAX +	.0603 X 35/095 THK +	-.0516 X 40/090 HGT +	
			.0349 X 35/085 HGT +					
LIT	MAX	R = .88126	STANDARD ERROR =	6.02558	REDUCTION OF VARIANCE =	.77661	STD. DEV. OF PND,	12.74882
LIT	MAX	= -236.9199 +	.0775 X 35/095 THK +	.3272 X OKC	MAX +	.0591 X 40/090 THK +	-.0391 X 40/090 HGT +	
FSM	MAX	R = .87942	STANDARD ERROR =	6.11312	REDUCTION OF VARIANCE =	.77338	STD. DEV. OF PND,	12.84157
FSM	MAX	= -271.6586 +	.0746 X 35/095 THK +	.3451 X OKC	MAX +	.0605 X 40/100 THK +	-.0276 X 45/095 HGT +	
CHS	MAX	R = .88676	STANDARD ERROR =	4.90597	REDUCTION OF VARIANCE =	.78635	STD. DEV. OF PND,	10.61388
CHS	MAX	= -149.7143 +	.2524 X RDU	MIN +	.2676 X JAN	MAX +	.0713 X 35/085 THK +	-.0407 X 40/080 HGT +
			.0337 X 35/075 HGT +					
CLT	MAX	R = .85486	STANDARD ERROR =	5.61129	REDUCTION OF VARIANCE =	.73078	STD. DEV. OF PND,	10.81461
CLT	MAX	= -101.2141 +	.4483 X ROA	MIN +	.1622 X STL	MAX +	.1770 X JAN	MAX +
			.0433 X 35/085 THK +	.1648 X CLT	MAX +		-.2192 X MGM	MIN +

AGS MAX R = .86066 STANDARD ERROR = 5.56973 REDUCTION OF VARIANCE = .74074 STD. DEV. OF PND. 10.93871
 AGS MAX = -165.1392 + .0672 X 35/085 THK + .2340 X LIT MAX + .2166 X AGS MAX + .2095 X DCA MIN +

AHN MAX R = .85845 STANDARD ERROR = 5.27335 REDUCTION OF VARIANCE = .73693 STD. DEV. OF PND. 10.28132
 AHN MAX = -132.1268 + .3636 X ATL MAX + .0576 X 35/085 THK + .1552 X LIT MAX + -.2194 X TPA MIN +
 .2111 X ROA MIN +

ATL MAX R = .87138 STANDARD ERROR = 5.33890 REDUCTION OF VARIANCE = .75931 STD. DEV. OF PND. 10.88228
 ATL MAX = -208.5693 + .0847 X 35/085 THK + .2605 X LIT MAX + .5029 X ATL MIN + -.3201 X MGM MIN +

BHM MAX R = .88486 STANDARD ERROR = 5.34233 REDUCTION OF VARIANCE = .78298 STD. DEV. OF PND. 11.46781
 BHM MAX = -353.3475 + .0962 X 35/085 THK + .2354 X SHV MAX + .0413 X 35/095 THK +

JAN MAX R = .89484 STANDARD ERROR = 5.60377 REDUCTION OF VARIANCE = .80074 STD. DEV. OF PND. 12.55370
 JAN MAX = -272.2580 + .1122 X 35/095 THK + .1536 X MOB MIN + .2917 X SHV MAX + -.0659 X 35/095 HGT +
 .7595 X 30/090 HGT +

SHV MAX R = .89059 STANDARD ERROR = 5.69633 REDUCTION OF VARIANCE = .79316 STD. DEV. OF PND. 12.52498
 SHV MAX = -264.7985 + .1376 X 35/095 THK + .3260 X FTW MAX + -.0309 X 40/090 HGT +

JAX MAX R = .89901 STANDARD ERROR = 4.37772 REDUCTION OF VARIANCE = .90822 STD. DEV. OF PND. 9.99649
 JAX MAX = -167.5820 + .0767 X 35/085 THK + .2696 X MSY MAX + .2138 X JAX MIN + -.0402 X 40/080 HGT +
 .0348 X 35/075 HGT +

TLH MAX R = .88986 STANDARD ERROR = 4.34679 REDUCTION OF VARIANCE = .79186 STD. DEV. OF PND. 9.52768
 TLH MAX = -272.2361 + .0566 X 35/085 THK + .2795 X MOR MAX + .0535 X 30/090 THK +

MGM MAX R = .88778 STANDARD ERROR = 5.23264 REDUCTION OF VARIANCE = .78815 STD. DEV. OF PND. 11.36865
 MGM MAX = -314.8964 + .0883 X 35/085 THK + .2841 X JAN MAX + .0361 X 35/095 THK +

MOB MAX R = .88956 STANDARD ERROR = 4.69095 REDUCTION OF VARIANCE = .79131 STD. DEV. OF PND. 10.26865
 MOB MAX = -182.9050 + .1000 X 30/090 THK + .2494 X JAN MAX + -.0650 X 25/085 THK + .0458 X 35/085 THK +

MSY MAX R = .89559 STANDARD ERROR = 4.80483 REDUCTION OF VARIANCE = .80209 STD. DEV. OF PND. 10.80046
 MSY MAX = -84.4087 + .2967 X MOR MIN + .1447 X MAF MAX + .1037 X 30/090 THK + -.0625 X 25/085 THK +
 .1585 X LCH MAX +

LCH MAX R = .87812 STANDARD ERROR = 5.23392 REDUCTION OF VARIANCE = .77109 STD. DEV. OF PND. 10.93941
 LCH MAX = -164.9597 + .4079 X LCH MIN + .0672 X 30/100 THK + .2122 X FTW MAX +

HOU MAX R = .90062 STANDARD ERROR = 4.94459 REDUCTION OF VARIANCE = .81111 STD. DEV. OF PND. 11.37707
 HOU MAX = -238.9553 + .0645 X 30/100 THK + .2319 X FTW MAX + .1856 X LCH MIN + .0565 X 35/095 THK +
 -.0240 X 40/090 HGT +

CRP MAX R = .88182 STANDARD ERROR = 5.23344 REDUCTION OF VARIANCE = .77761 STD. DEV. OF PND. 11.09763
 CRP MAX = -158.1005 + .1331 X 30/100 THK + .2212 X FTW MAX + -.0702 X 30/100 HGT + .0463 X 30/110 HGT +
 .2409 X BRO MIN + -.0119 X 25/095 THK +

BRO MAX R = .87185 STANDARD ERROR = 4.82866 REDUCTION OF VARIANCE = .76012 STD. DEV. OF PND. 9.85903
 BRO MAX = -163.2237 + .1079 X 30/100 THK + .2475 X DRT MAX + -.0677 X 30/100 HGT + .1791 X BRO MIN +
 .0333 X 35/105 HGT +

ORL MAX R = .89432 STANDARD ERROR = 3.90068 REDUCTION OF VARIANCE = .79981 STD. DEV. OF PND. 8.71812
 ORL MAX = -176.6996 + .2936 X ORL MIN + .0434 X 30/090 THK + .0219 X 30/080 THK + .1701 X MSY MAX +
 .0455 X 30/080 HGT + -.0355 X 30/090 HGT +

TPA MAX R = .90174 STANDARD ERROR = 3.44721 REDUCTION OF VARIANCE = .81314 STD. DEV. OF PND. 7.97455
 TPA MAX = -176.5051 + .0428 X 30/090 THK + .4471 X EYW MIN + .0274 X 35/075 HGT + .1533 X MOB MAX +

MIA MAX R = .87033 STANDARD ERROR = 2.93475 REDUCTION OF VARIANCE = .75747 STD. DEV. OF PND. 5.95918
 MIA MAX = -187.5336 + .0515 X 30/080 THK + .3995 X EYW MIN + -.0134 X 40/080 THK + .0414 X 25/085 THK +

EYW MAX R = .87747 STANDARD ERROR = 2.84471 REDUCTION OF VARIANCE = .76995 STD. DEV. OF PND. 5.93095
 EYW MAX = -141.2960 + .5989 X EYW MIN + .0595 X 25/085 THK +

Southeast Min

January-February

HGT: (700M HEIGHT) IN METERS THK: (700M HEIGHT - 1000M HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

SBY	MIN	R = .82946	STANDARD ERROR = 5.66017	REDUCTION OF VARIANCE = .68800	STD. DEV. OF PND, 10.13337
SBY	MIN	= -180.9765 + .0716 X 40/080 THK + .2970 X CMH	MIN + .2122 X ORF	MAX + -.1932 X GSO	MAX +
DCA	MIN	R = .86968	STANDARD ERROR = 4.27396	REDUCTION OF VARIANCE = .75634	STD. DEV. OF PND, 8.65844
DCA	MIN	= -109.4560 + .1813 X CMH	MIN + .0449 X 40/090 THK + .1894 X PHL	MIN + .1428 X STL	MIN +
CRW	MIN	R = .86495	STANDARD ERROR = 6.02338	REDUCTION OF VARIANCE = .74814	STD. DEV. OF PND, 12.00220
CRW	MIN	= -227.6033 + .0263 X 40/080 THK + .2669 X STL	MIN + .0237 X 40/070 HGT + .2388 X LOU	MIN + .0346 X 40/090 THK +	MIN +
HTS	MIN	R = .85012	STANDARD ERROR = 5.99402	REDUCTION OF VARIANCE = .72271	STD. DEV. OF PND, 11.38275
HTS	MIN	= -196.7780 + .2858 X STL	MIN + .2707 X HTS	MIN + .0502 X 40/090 THK + .0230 X 40/070 HGT +	MIN +
LOU	MIN	R = .87450	STANDARD ERROR = 5.71805	REDUCTION OF VARIANCE = .76474	STD. DEV. OF PND, 11.78900
LOU	MIN	= -205.8244 + .3608 X STL	MIN + .0537 X 40/090 THK + .0230 X 40/080 HGT + .1711 X LOU	MIN +	MIN +
ORF	MIN	R = .87578	STANDARD ERROR = 4.19544	REDUCTION OF VARIANCE = .76699	STD. DEV. OF PND, 8.69135
ORF	MIN	= -109.4834 + .0433 X 40/080 THK + .2757 X LOU	MIN + .0166 X 35/065 HGT + .1501 X ORF	MIN + -.0141 X 40/100 HGT +	MIN +
RIC	MIN	R = .85664	STANDARD ERROR = 5.14052	REDUCTION OF VARIANCE = .73384	STD. DEV. OF PND, 9.96405
RIC	MIN	= -209.4912 + .0609 X 40/080 THK + .3455 X LOU	MIN + .0189 X 35/065 HGT +	MIN +	MIN +
ROA	MIN	R = .85712	STANDARD ERROR = 4.96434	REDUCTION OF VARIANCE = .73465	STD. DEV. OF PND, 9.63718
ROA	MIN	= -123.9988 + .4016 X LOU	MIN + .0620 X 40/080 THK + -.0116 X 50/080 HGT +	MIN +	MIN +
HAT	MIN	R = .85563	STANDARD ERROR = 4.58112	REDUCTION OF VARIANCE = .73211	STD. DEV. OF PND, 8.85100
HAT	MIN	= -162.7412 + .0445 X 40/080 THK + .2224 X HAT	MIN + .2076 X BNA	MIN + .0204 X 35/065 HGT +	MIN +
RDU	MIN	R = .83350	STANDARD ERROR = 6.04798	REDUCTION OF VARIANCE = .69471	STD. DEV. OF PND, 10.94605
RDU	MIN	= -166.9752 + .0649 X 40/080 THK + .2532 X BHM	MIN + .1996 X LOU	MIN +	MIN +
GSO	MIN	R = .87427	STANDARD ERROR = 4.83951	REDUCTION OF VARIANCE = .76434	STD. DEV. OF PND, 9.96915
GSO	MIN	= -190.2713 + .0385 X 40/090 THK + .2306 X BHM	MIN + .1686 X LOU	MIN + .0341 X 35/085 THK +	MIN +
TYS	MIN	R = .88336	STANDARD ERROR = 5.23787	REDUCTION OF VARIANCE = .78032	STD. DEV. OF PND, 11.17539
TYS	MIN	= -178.9736 + .4087 X BHM	MIN + .2563 X STL	MIN + .0288 X 35/075 HGT + .0353 X 35/095 THK +	MIN +
BNA	MIN	R = .86805	STANDARD ERROR = 6.14337	REDUCTION OF VARIANCE = .75352	STD. DEV. OF PND, 12.37408
BNA	MIN	= -271.7147 + .0598 X 40/090 THK + .2899 X MEM	MIN + .0379 X 30/080 HGT + .2703 X CBI	MIN +	MIN +
MEM	MIN	R = .87879	STANDARD ERROR = 5.45868	REDUCTION OF VARIANCE = .77226	STD. DEV. OF PND, 11.43858
MEM	MIN	= -197.6830 + .0349 X 35/095 THK + .2464 X CBI	MIN + -.0354 X 40/110 HGT + .0311 X 30/080 HGT +	MIN + .0446 X 40/100 THK + .2397 X MEM	MIN +
LIT	MIN	R = .87145	STANDARD ERROR = 5.25713	REDUCTION OF VARIANCE = .75942	STD. DEV. OF PND, 10.71809
LIT	MIN	= -142.7270 + .0188 X 35/095 THK + .3193 X OKC	MIN + .2531 X LIT	MIN + -.0295 X 40/110 HGT +	MIN + .0397 X 40/100 THK + .0266 X 35/085 HGT +
FSM	MIN	R = .85234	STANDARD ERROR = 5.23487	REDUCTION OF VARIANCE = .72648	STD. DEV. OF PND, 10.00946
FSM	MIN	= -137.5667 + .0182 X 35/095 THK + .3245 X OKC	MIN + .0270 X 40/090 HGT + -.0316 X 40/110 HGT +	MIN + .0406 X 40/100 THK + .1580 X DRT	MIN +
CHS	MIN	R = .87210	STANDARD ERROR = 4.94421	REDUCTION OF VARIANCE = .76056	STD. DEV. OF PND, 10.10410
CHS	MIN	= -142.7182 + .3834 X MGM	MIN + .0689 X 35/085 THK + .0207 X 35/065 HGT + -.0247 X 35/095 HGT +	MIN +	MIN +
CLT	MIN	R = .87217	STANDARD ERROR = 4.84243	REDUCTION OF VARIANCE = .76069	STD. DEV. OF PND, 9.89873
CLT	MIN	= -191.2327 + .0731 X 35/085 THK + .2848 X BHM	MIN + .1418 X CLE	MIN +	MIN +

AGS MIN R = .85454 STANDARD ERROR = 5.40774 REDUCTION OF VARIANCE = .73024 STD. DEV. OF PND. 10.41182
 AGS MIN = -231.2647 + .4047 X BHM MIN + .0588 X 35/095 THK + .0267 X 30/070 HGT +
 AHN MIN R = .88842 STANDARD ERROR = 4.69871 REDUCTION OF VARIANCE = .78928 STD. DEV. OF PND. 10.23600
 AHN MIN = -195.9854 + .4194 X BHM MIN + .0749 X 35/085 THK +
 ATL MIN R = .88460 STANDARD ERROR = 4.81202 REDUCTION OF VARIANCE = .78252 STD. DEV. OF PND. 10.31851
 ATL MIN = -243.8557 + .0659 X 35/085 THK + .2957 X BHM MIN + .1081 X STL MIN + .0264 X 35/095 THK +
 BHM MIN R = .87756 STANDARD ERROR = 5.73093 REDUCTION OF VARIANCE = .77011 STD. DEV. OF PND. 11.95261
 BHM MIN = -199.1203 + .1681 X MEM MIN + .0377 X 35/075 HGT + .0786 X 35/095 THK + -.0395 X 35/105 HGT +
 .2326 X BHM MIN +
 JAN MIN R = .87969 STANDARD ERROR = 5.60667 REDUCTION OF VARIANCE = .77385 STD. DEV. OF PND. 11.78983
 JAN MIN = -279.3521 + .0837 X 35/095 THK + .0445 X 30/080 HGT + .4076 X FSM MIN + -.0248 X 40/110 HGT +
 SHV MIN R = .88552 STANDARD ERROR = 5.09569 REDUCTION OF VARIANCE = .78415 STD. DEV. OF PND. 10.96806
 SHV MIN = -199.1638 + .0497 X 35/095 THK + .2611 X OKC MIN + .0233 X 35/085 HGT + -.0286 X 40/110 HGT +
 .0334 X 40/100 THK + .1911 X SAT MIN +
 JAX MIN R = .88920 STANDARD ERROR = 4.66403 REDUCTION OF VARIANCE = .79067 STD. DEV. OF PND. 10.19413
 JAX MIN = -112.6247 + .2521 X MOB MIN + .0319 X 35/075 HGT + -.0363 X 30/100 HGT + .2522 X JAX MIN +
 .0514 X 30/090 THK +
 TLH MIN R = .89159 STANDARD ERROR = 4.91605 REDUCTION OF VARIANCE = .79493 STD. DEV. OF PND. 10.85591
 TLH MIN = -161.3090 + .0653 X 30/090 THK + .3245 X TLH MIN + .0303 X 35/075 HGT + -.0337 X 30/100 HGT +
 .2230 X LCH MIN +
 MGM MIN R = .89103 STANDARD ERROR = 5.10462 REDUCTION OF VARIANCE = .79393 STD. DEV. OF PND. 11.24495
 MGM MIN = -134.6113 + .0120 X 35/085 THK + .1791 X JAN MIN + -.0321 X 35/105 HGT + .0278 X 35/075 HGT +
 .0456 X 35/095 THK + .3250 X MOB MIN +
 MOB MIN R = .89912 STANDARD ERROR = 5.03340 REDUCTION OF VARIANCE = .80842 STD. DEV. OF PND. 11.49968
 MOB MIN = -200.5235 + .0018 X 35/085 THK + .2508 X LCH MIN + .0693 X 35/095 THK + -.0378 X 35/105 HGT +
 .0424 X 30/080 HGT + .2363 X MOB MIN +
 MSY MIN R = .88645 STANDARD ERROR = 5.01215 REDUCTION OF VARIANCE = .78580 STD. DEV. OF PND. 10.82969
 MSY MIN = -217.2698 + .2341 X MSY MIN + .0670 X 35/095 THK + .0392 X 30/080 HGT + -.0240 X 35/105 HGT +
 .2379 X LCH MIN +
 LCH MIN R = .87605 STANDARD ERROR = 5.12032 REDUCTION OF VARIANCE = .76746 STD. DEV. OF PND. 10.61804
 LCH MIN = -187.9690 + .0603 X 35/095 THK + .2961 X HOU MIN + .0341 X 30/080 HGT + -.0218 X 40/110 HGT +
 .2138 X AMA MIN +
 HOU MIN R = .87772 STANDARD ERROR = 5.13304 REDUCTION OF VARIANCE = .77040 STD. DEV. OF PND. 10.71246
 HOU MIN = -140.7709 + .0260 X 35/095 THK + .3099 X CRP MIN + -.0356 X 40/110 HGT + .2720 X AMA MIN +
 .0376 X 30/090 HGT + .0282 X 40/100 THK +
 CRP MIN R = .87152 STANDARD ERROR = 5.34187 REDUCTION OF VARIANCE = .75954 STD. DEV. OF PND. 10.89363
 CRP MIN = -97.4313 + .0213 X 35/095 THK + .3945 X CRP MIN + .0308 X 40/100 THK + -.0448 X 40/110 HGT +
 .0521 X 25/095 HGT + .2871 X AMA MIN + -.0202 X 40/080 THK +
 BRO MIN R = .86500 STANDARD ERROR = 5.21102 REDUCTION OF VARIANCE = .74823 STD. DEV. OF PND. 10.38532
 BRO MIN = -117.8920 + .0629 X 30/100 THK + .3178 X CRP MIN + .0208 X 40/100 THK + -.0370 X 40/110 HGT +
 .0365 X 30/090 HGT + -.0333 X 35/085 THK + .1832 X OKC MIN +
 ORL MIN R = .89197 STANDARD ERROR = 3.90949 REDUCTION OF VARIANCE = .79561 STD. DEV. OF PND. 8.64752
 ORL MIN = -78.7736 + .1612 X TLH MIN + .0428 X 35/075 HGT + .0175 X 25/095 THK + -.0480 X 25/095 HGT +
 .3084 X ORL MIN + -.0159 X 40/070 THK +
 TPA MIN R = .88635 STANDARD ERROR = 4.06848 REDUCTION OF VARIANCE = .78561 STD. DEV. OF PND. 8.78676
 TPA MIN = -78.4116 + .2304 X TLH MIN + .0317 X 35/075 HGT + .0155 X 25/095 THK + -.0480 X 25/095 HGT +
 .3022 X TPA MAX +
 MIA MIN R = .87382 STANDARD ERROR = 4.08669 REDUCTION OF VARIANCE = .76356 STD. DEV. OF PND. 8.40450
 MIA MIN = -53.5521 + .0465 X 35/075 HGT + .4518 X MIA MIN + .0160 X 25/095 THK + -.0508 X 25/095 HGT +
 -.0189 X 40/070 THK +
 EYW MIN R = .89267 STANDARD ERROR = 2.60942 REDUCTION OF VARIANCE = .79686 STD. DEV. OF PND. 5.78961
 EYW MIN = -44.9779 + .5580 X EYW MIN + .0201 X 35/075 HGT + .0123 X 25/095 THK + -.0263 X 25/095 HGT +
 -.0093 X 45/065 THK +

Northeast Max

January-February

HGT: (700M+ HEIGHT) IN METERS THK: (700M+ HEIGHT - 1000M+ HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

CAR	MAX	R = .89691	STANDARD ERROR = 4.86882	REDUCTION OF VARIANCE = .80445	STD. DEV. OF PND, 11.01020
CAR	MAX	= -199.4747 + .0495 X 45/065 THK + .1809 X YB MAX + .0676 X 50/070 THK + .2106 X 0B MAX + -.0215 X 50/070 HGT + .0172 X 40/060 HGT + -.0336 X 40/060 THK +			
SSM	MAX	R = .89640	STANDARD ERROR = 4.29885	REDUCTION OF VARIANCE = .80354	STD. DEV. OF PND, 9.69871
SSM	MAX	= -149.6936 + .0620 X 45/085 THK + .2763 X SSM MIN + .1438 X LH MAX +			
PWM	MAX	R = .86863	STANDARD ERROR = 4.67036	REDUCTION OF VARIANCE = .75452	STD. DEV. OF PND, 9.42635
PWM	MAX	= -2.0475 + .3802 X BOS MIN + .0498 X 45/065 THK + .2196 X YB MAX + -.0111 X 55/075 HGT + -.0293 X 35/065 THK +			
RTV	MAX	R = .90472	STANDARD ERROR = 4.75371	REDUCTION OF VARIANCE = .81853	STD. DEV. OF PND, 11.15905
RTV	MAX	= -83.6327 + .3610 X YB MAX + .0581 X 45/075 THK + -.0204 X 55/085 HGT + .2040 X 8TV MIN +			
SYR	MAX	R = .89890	STANDARD ERROR = 4.88625	REDUCTION OF VARIANCE = .80801	STD. DEV. OF PND, 11.15167
SYR	MAX	= -140.3161 + .0612 X 45/075 THK + -.0233 X 55/085 HGT + .2729 X BUF MIN + .2783 X 6RR MAX + .0187 X 40/070 HGT +			
RUF	MAX	R = .91554	STANDARD ERROR = 4.47912	REDUCTION OF VARIANCE = .83821	STD. DEV. OF PND, 11.13558
RUF	MAX	= -261.9076 + -.0100 X 40/080 THK + .0544 X 45/075 THK + -.0086 X 50/090 HGT + .0630 X 45/085 THK + .2316 X IND MAX + .0527 X 40/080 HGT + -.0486 X 45/085 HGT +			
DET	MAX	R = .91508	STANDARD ERROR = 4.13064	REDUCTION OF VARIANCE = .83737	STD. DEV. OF PND, 10.24262
DET	MAX	= -170.0578 + .0737 X 45/085 THK + .2155 X PTA MAX + -.0381 X 45/085 HGT + .0332 X 40/080 HGT + .2309 X DET MIN +			
FNT	MAX	R = .90630	STANDARD ERROR = 4.24921	REDUCTION OF VARIANCE = .82137	STD. DEV. OF PND, 10.05394
FNT	MAX	= -140.9227 + .0763 X 45/085 THK + .2077 X MLI MAX + -.0175 X 50/090 HGT + .2460 X DET MIN +			
GRR	MAX	R = .90408	STANDARD ERROR = 4.00776	REDUCTION OF VARIANCE = .81735	STD. DEV. OF PND, 9.37770
GRR	MAX	= -152.7502 + .0603 X 45/095 THK + .1615 X DSM MAX + .2623 X DET MIN + .0280 X 40/090 HGT + -.0258 X 45/095 HGT +			
MKE	MAX	R = .90392	STANDARD ERROR = 4.63435	REDUCTION OF VARIANCE = .81707	STD. DEV. OF PND, 10.83555
MKE	MAX	= -199.6029 + .0512 X 40/090 THK + .2439 X MKE MIN + .2095 X MSN MAX + .0274 X 45/095 THK +			
GRR	MAX	R = .91075	STANDARD ERROR = 4.3661	REDUCTION OF VARIANCE = .82947	STD. DEV. OF PND, 10.57417
GRR	MAX	= -199.9952 + .0536 X 45/085 THK + .2045 X MSN MIN + .1826 X STC MAX + .0262 X 45/095 THK +			
MSN	MAX	R = .89820	STANDARD ERROR = 4.92832	REDUCTION OF VARIANCE = .80675	STD. DEV. OF PND, 11.21101
MSN	MAX	= -208.2834 + .0359 X 45/085 THK + .0471 X 45/095 THK + .1907 X DSM MAX + .2169 X MSN MIN +			
ACK	MAX	R = .86950	STANDARD ERROR = 3.62779	REDUCTION OF VARIANCE = .75603	STD. DEV. OF PND, 7.34467
ACK	MAX	= -110.8749 + .0387 X 40/070 THK + .2521 X BOS MIN + .1358 X BUF MAX + .0100 X 40/060 HGT +			
BOS	MAX	R = .87820	STANDARD ERROR = 4.60739	REDUCTION OF VARIANCE = .77124	STD. DEV. OF PND, 9.63307
BOS	MAX	= -104.4645 + .3308 X BOS MIN + .2004 X BUF MAX + .0508 X 45/075 THK + -.0322 X 45/075 HGT + .0274 X 40/070 HGT +			
HFD	MAX	R = .87870	STANDARD ERROR = 4.63863	REDUCTION OF VARIANCE = .77212	STD. DEV. OF PND, 9.71699
HFD	MAX	= -42.0247 + .3355 X BOS MIN + .1348 X IND MAX + .1352 X YB MAX + -.0119 X 55/075 HGT + .0330 X 45/075 THK + .1342 X HFD MAX +			
ALB	MAX	R = .90155	STANDARD ERROR = 4.35906	REDUCTION OF VARIANCE = .81280	STD. DEV. OF PND, 10.07479
ALB	MAX	= -74.0491 + .3335 X NYC MIN + .1914 X YB MAX + .0495 X 45/075 THK + -.0170 X 50/080 HGT + .1487 X SYR MAX +			
NYC	MAX	R = .88314	STANDARD ERROR = 4.48233	REDUCTION OF VARIANCE = .77993	STD. DEV. OF PND, 9.55488
NYC	MAX	= -95.1579 + .4515 X NYC MIN + .2153 X IND MAX + .0162 X 35/065 HGT + .0381 X 45/075 THK + -.0140 X 50/070 HGT +			
PHL	MAX	R = .87394	STANDARD ERROR = 4.99026	REDUCTION OF VARIANCE = .76377	STD. DEV. OF PND, 10.26738
PHL	MAX	= -31.5964 + .6171 X NYC MIN + .3061 X IND MAX + .0145 X 35/075 HGT +			

IPT MAX R= .86919 STANDARD ERROR = 4.46377 REDUCTION OF VARIANCE = .75548 STD. DEV. OF PND. 9.02710
 IPT MAX = -45.573 + .4805 X NYC MIN + .2359 X IND MAX + .0218 X 45/075 THK +
 PIT MAX R= .89667 STANDARD ERROR = 5.50326 REDUCTION OF VARIANCE = .80401 STD. DEV. OF PND. 12.43105
 PIT MAX = -320.6652 + .1241 X 40/080 THK + .2313 X CBI MAX +
 CLE MAX R= .92114 STANDARD ERROR = 4.62589 REDUCTION OF VARIANCE = .84850 STD. DEV. OF PND. 11.88460
 CLE MAX = -221.3851 + .0126 X 40/080 THK + .0742 X 45/085 THK + .2338 X IND MAX + -.0464 X 45/085 HGT +
 .0465 X 40/080 HGT + .2110 X DAY MIN +
 CMH MAX R= .90500 STANDARD ERROR = 5.17662 REDUCTION OF VARIANCE = .81902 STD. DEV. OF PND. 12.16842
 CMH MAX = -189.9317 + .0602 X 40/080 THK + .1847 X CRI MAX + .2544 X DAY MIN + .0372 X 40/090 THK +
 -.0200 X 45/095 HGT +
 DAY MAX R= .90680 STANDARD ERROR = 5.10154 REDUCTION OF VARIANCE = .82229 STD. DEV. OF PND. 12.10153
 DAY MAX = -190.0085 + .0420 X 40/080 THK + .0577 X 40/090 THK + .1983 X CHI MAX + -.0226 X 45/095 HGT +
 .2293 X DAY MIN +
 CVG MAX R= .90066 STANDARD ERROR = 5.45830 REDUCTION OF VARIANCE = .81118 STD. DEV. OF PND. 12.56126
 CVG MAX = -277.9797 + .0839 X 40/090 THK + .0491 X 40/080 THK + .2586 X STL MAX + -.0225 X 45/095 HGT +
 IND MAX R= .90989 STANDARD ERROR = 5.15727 REDUCTION OF VARIANCE = .82790 STD. DEV. OF PND. 12.43168
 IND MAX = -188.2921 + .0962 X 40/090 THK + .2572 X DAY MIN + .1994 X CBI MAX + -.0199 X 45/095 HGT +
 CHI MAX R= .89730 STANDARD ERROR = 4.94472 REDUCTION OF VARIANCE = .80515 STD. DEV. OF PND. 11.20190
 CHI MAX = -224.7994 + .0573 X 40/090 THK + .1858 X MSN MAX + .2190 X PIA MIN + .0314 X 45/085 THK +
 PIA MAX R= .88813 STANDARD ERROR = 5.57326 REDUCTION OF VARIANCE = .78877 STD. DEV. OF PND. 12.12652
 PIA MAX = -221.2513 + .0863 X 40/090 THK + .2586 X MKC MIN + .2137 X USM MAX +
 MLI MAX R= .90586 STANDARD ERROR = 5.13126 REDUCTION OF VARIANCE = .82059 STD. DEV. OF PND. 12.11439
 MLI MAX = -183.3988 + .0067 X 40/090 THK + .0783 X 45/095 THK + .2712 X USM MAX + -.0569 X 45/095 HGT +
 .0454 X 40/090 HGT + .1967 X CHI MIN +
 STL MAX R= .90902 STANDARD ERROR = 5.59019 REDUCTION OF VARIANCE = .82631 STD. DEV. OF PND. 13.41336
 STL MAX = -135.4599 + .0875 X 40/090 THK + .2867 X MKC MAX + .0311 X 40/100 THK + -.0401 X 45/095 HGT +
 .2918 X STL MIN + -.0529 X 35/085 THK + .0306 X 35/085 HGT +
 CRI MAX R= .89560 STANDARD ERROR = 6.09819 REDUCTION OF VARIANCE = .80211 STD. DEV. OF PND. 13.70839
 CRI MAX = -151.7356 + .2802 X MKC MIN + .0849 X 40/090 THK + .0448 X 40/100 THK + .2574 X MKC MAX +
 -.0253 X 50/100 HGT + -.0410 X 35/085 THK +

Northeast Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT = 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

CAR MIN R= .82150 STANDARD ERROR = 7.7433V REDUCTION OF VARIANCE = .67487 STD. DEV. OF PND. 13.57991
 CAR MIN = -314.3120 + .0837 X 50/070 THK + .2334 X BTV MIN + .0448 X 45/085 THK + -.0265 X 40/080 HGT +
 .0161 X 50/060 HGT +
 SSM MIN R= .84502 STANDARD ERROR = 6.56281 REDUCTION OF VARIANCE = .71405 STD. DEV. OF PND. 12.27288
 SSM MIN = -179.6228 + .0997 X 50/090 THK + .4612 X SSM MIN + -.0391 X 50/090 HGT + .0413 X 45/075 HGT +
 -.0339 X 45/075 THK +
 PWM MIN R= .82902 STANDARD ERROR = 7.04186 REDUCTION OF VARIANCE = .68728 STD. DEV. OF PND. 12.59245
 PWM MIN = -199.1652 + .0717 X 45/075 THK + .2760 X PWM MIN + .2079 X SSM MIN + .0229 X 45/065 HGT +
 -.0186 X 40/080 HGT +
 BTV MIN R= .83210 STANDARD ERROR = 7.77012 REDUCTION OF VARIANCE = .69239 STD. DEV. OF PND. 14.00960
 BTV MIN = -129.7180 + .0404 X 45/075 THK + .2575 X SSM MIN + .3539 X BTV MIN + -.0333 X 50/090 HGT +
 .0495 X 50/080 THK + .0283 X 45/065 HGT + -.0347 X 45/065 THK +
 SYR MIN R= .82744 STANDARD ERROR = 6.69769 REDUCTION OF VARIANCE = .68466 STD. DEV. OF PND. 11.92719
 SYR MIN = -187.8238 + .0103 X 45/075 THK + .2546 X SSM MIN + -.0292 X 50/090 HGT + .0480 X 45/085 THK +
 .2406 X SYR MIN + .0218 X 40/070 HGT + .0214 X 55/075 THK +
 BUF MIN R= .85781 STANDARD ERROR = 5.43562 REDUCTION OF VARIANCE = .73584 STD. DEV. OF PND. 10.57591
 BUF MIN = -184.5735 + .0749 X 45/085 THK + .2153 X SSM MIN + .0164 X 40/070 HGT + -.0190 X 45/095 HGT +
 .1618 X BUF MIN +

DET	MIN R= .85907	STANDARD ERROR = 5.03969	REDUCTION OF VARIANCE = .73801	STD. DEV. OF PND. 9.84602
DET	MIN = -190.2535 +	.0749 X 45/085 THK +	.2026 X PIA MIN +	.1308 X SSM MIN +
FNT	MIN R= .85207	STANDARD ERROR = 6.02678	REDUCTION OF VARIANCE = .72602	STD. DEV. OF PND. 11.51389
FNT	MIN = -222.3348 +	.0440 X 45/085 THK +	.3014 X FNT MIN +	.1113 X MKC MIN +
		-.0327 X 45/095 HGT +	.0442 X 45/095 THK +	.0279 X 40/080 HGT +
GRR	MIN R= .83429	STANDARD ERROR = 5.91239	REDUCTION OF VARIANCE = .69604	STD. DEV. OF PND. 10.72382
GRR	MIN = -218.1475 +	.0313 X 45/085 THK +	.3394 X GRR MIN +	.0602 X 45/095 THK +
		.0235 X 40/080 HGT +		-.0319 X 45/095 HGT +
MKE	MIN R= .87092	STANDARD ERROR = 6.22923	REDUCTION OF VARIANCE = .75850	STD. DEV. OF PND. 12.67577
MKE	MIN = -239.4283 +	.0846 X 45/095 THK +	.3531 X MLI MIN +	.0300 X 45/085 HGT +
				-.0242 X 45/105 HGT +
GRB	MIN R= .85918	STANDARD ERROR = 6.77559	REDUCTION OF VARIANCE = .73818	STD. DEV. OF PND. 13.24184
GRB	MIN = -235.0228 +	.0815 X 45/095 THK +	.2404 X GRB MIN +	.0485 X 45/085 HGT +
		.1862 X STC MIN +		-.0398 X 45/095 HGT +
MSN	MIN R= .87040	STANDARD ERROR = 6.68076	REDUCTION OF VARIANCE = .75760	STD. DEV. OF PND. 13.56930
MSN	MIN = -223.8965 +	.1244 X 45/095 THK +	.4092 X MSN MIN +	.0568 X 45/085 HGT +
		-.0424 X 45/085 THK +		-.0554 X 45/095 HGT +
ACK	MIN R= .80816	STANDARD ERROR = 4.73940	REDUCTION OF VARIANCE = .65312	STD. DEV. OF PND. 8.04696
ACK	MIN = -170.2959 +	.0513 X 45/075 THK +	.0170 X 40/060 HGT +	.2552 X DET MIN +
BOS	MIN R= .87071	STANDARD ERROR = 4.79443	REDUCTION OF VARIANCE = .75813	STD. DEV. OF PND. 9.74868
BOS	MIN = -160.6873 +	.0397 X 45/075 THK +	.1990 X SSM MIN +	.2446 X BOS MIN +
		-.0167 X 50/090 HGT +	.0251 X 50/080 THK +	.0161 X 40/070 HGT +
HFD	MIN R= .83528	STANDARD ERROR = 6.23334	REDUCTION OF VARIANCE = .69770	STD. DEV. OF PND. 11.33710
HFD	MIN = -109.6741 +	.0582 X 45/075 THK +	.3966 X HFD MIN +	.2029 X SSM MIN +
		-.0324 X 40/060 THK +		.0177 X 40/060 HGT +
ALB	MIN R= .81589	STANDARD ERROR = 7.47874	REDUCTION OF VARIANCE = .66567	STD. DEV. OF PND. 12.93426
ALB	MIN = -198.4986 +	.0582 X 45/075 THK +	.2666 X ALB MIN +	.3261 X SSM MIN +
				.0160 X 40/070 HGT +
NYC	MIN R= .87505	STANDARD ERROR = 4.23787	REDUCTION OF VARIANCE = .76571	STD. DEV. OF PND. 8.75523
NYC	MIN = -114.5161 +	.0127 X 40/080 THK +	.2088 X SSM MIN +	.3002 X NYC MIN +
		.0357 X 45/085 THK +	.0145 X 40/070 HGT +	-.0157 X 50/090 HGT +
PHL	MIN R= .86746	STANDARD ERROR = 4.53762	REDUCTION OF VARIANCE = .75249	STD. DEV. OF PND. 9.12070
PHL	MIN = -179.1776 +	.1686 X CMH MIN +	.0432 X 45/075 THK +	.2970 X PHL MIN +
		.0245 X 30/070 HGT +	-.1275 X ROA MAX +	.1934 X STL MIN +
IPT	MIN R= .82641	STANDARD ERROR = 6.09763	REDUCTION OF VARIANCE = .68295	STD. DEV. OF PND. 10.82929
IPT	MIN = -133.5549 +	.3809 X IND MIN +	.0510 X 45/075 THK +	.2221 X PHL MIN +
PIT	MIN R= .88454	STANDARD ERROR = 5.47070	REDUCTION OF VARIANCE = .78241	STD. DEV. OF PND. 11.72790
PIT	MIN = -273.0374 +	.0328 X 40/080 THK +	.3581 X STL MIN +	.0437 X 45/085 THK +
		.0256 X 35/075 HGT +	-.1798 X TYS MAX +	.2378 X PIT MIN +
CLE	MIN R= .86956	STANDARD ERROR = 5.58678	REDUCTION OF VARIANCE = .75613	STD. DEV. OF PND. 11.31309
CLE	MIN = -136.4123 +	.0723 X 45/085 THK +	.2993 X STL MIN +	.1994 X CLE MIN +
				-.0181 X 50/110 HGT +
CMH	MIN R= .86726	STANDARD ERROR = 5.91480	REDUCTION OF VARIANCE = .75214	STD. DEV. OF PND. 11.88053
CMH	MIN = -191.6136 +	.4250 X IND MIN +	.0728 X 40/090 THK +	.0349 X 40/080 HGT +
				-.0349 X 40/090 HGT +
DAY	MIN R= .86831	STANDARD ERROR = 5.87414	REDUCTION OF VARIANCE = .75396	STD. DEV. OF PND. 11.84230
DAY	MIN = -245.2869 +	.0919 X 40/090 THK +	.3906 X IND MIN +	
CVG	MIN R= .88781	STANDARD ERROR = 5.64745	REDUCTION OF VARIANCE = .78820	STD. DEV. OF PND. 12.27125
CVG	MIN = -267.4970 +	.0698 X 40/090 THK +	.3176 X IND MIN +	.0274 X 35/075 HGT +
				.2033 X MKC MIN +

IND MIN R= .89341 STANDARD ERROR = 5.39951 REDUCTION OF VARIANCE = .79818 STD. DEV. OF PND. 12.01904
IND MIN = -187.3498 + .0200 X 40/090 THK + .3266 X IND MIN + .0455 X 45/095 THK + .0303 X 40/080 HGT +
-.0252 X 45/105 HGT + .2018 X MKC MIN +

CHI MIN R= .87716 STANDARD ERROR = 6.21671 REDUCTION OF VARIANCE = .76941 STD. DEV. OF PND. 12.94609
CHI MIN = -223.8578 + .0859 X 45/095 THK + .3951 X CHI MIN + .0286 X 45/085 HGT + -.0292 X 45/105 HGT +

PIA MIN R= .87587 STANDARD ERROR = 5.99336 REDUCTION OF VARIANCE = .76714 STD. DEV. OF PND. 12.42007
PIA MIN = -222.8994 + .0847 X 45/095 THK + .4008 X PIA MIN + -.0314 X 45/105 HGT + .0311 X 40/090 HGT +

MLI MIN R= .86692 STANDARD ERROR = 6.61315 REDUCTION OF VARIANCE = .75154 STD. DEV. OF PND. 13.26735
MLI MIN = -219.0869 + .0797 X 45/095 THK + .2861 X MLI MIN + -.0293 X 45/105 HGT + .0314 X 40/090 HGT +
.1964 X OMA MIN +

STL MIN R= .87719 STANDARD ERROR = 5.57533 REDUCTION OF VARIANCE = .76946 STD. DEV. OF PND. 11.61172
STL MIN = -156.6610 + .0349 X 45/095 THK + .3313 X STL MIN + .0429 X 40/090 HGT + -.0476 X 45/105 HGT +
.1891 X OMA MIN + .0310 X 45/105 THK +

CBI MIN R= .87340 STANDARD ERROR = 5.76771 REDUCTION OF VARIANCE = .76282 STD. DEV. OF PND. 11.84311
CBI MIN = -218.8826 + .0406 X 45/095 THK + .4145 X MKC MIN + .0015 X 50/110 HGT + .0444 X 40/090 HGT +
.0459 X 45/105 THK + -.0495 X 45/105 HGT +

Northwest Max

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL	MAX	R= .93574	STANDARD ERROR =	5.29617	REDUCTION OF VARIANCE =	.87562	STD. DEV. OF PND.	15.01685
INL	MAX	= -289.0549 +	.0804 X 50/100 THK +	.4150 X WG	MAX +	.0302 X 45/095 HGT +		
DLH	MAX	R= .92356	STANDARD ERROR =	5.28756	REDUCTION OF VARIANCE =	.85296	STD. DEV. OF PND.	13.78916
DLH	MAX	= -272.0085 +	.2482 X FAR	MAX +	.0824 X 50/090 THK +	.0653 X 45/095 HGT +	-.0430 X 50/090 HGT +	
			.1545 X PA	MAX +				
STC	MAX	R= .93201	STANDARD ERROR =	5.53818	REDUCTION OF VARIANCE =	.86863	STD. DEV. OF PND.	15.28012
STC	MAX	= -281.9054 +	.2870 X FAR	MAX +	.0774 X 45/095 THK +	.2168 X QR	MAX +	.0289 X 40/100 HGT +
FAR	MAX	R= .93685	STANDARD ERROR =	5.83438	REDUCTION OF VARIANCE =	.87769	STD. DEV. OF PND.	16.68287
FAR	MAX	= -207.8362 +	.0656 X 50/100 THK +	.3292 X FAR	MAX +	.2715 X QR	MAX +	.0400 X 45/095 HGT +
			-.0256 X 55/105 HGT +					
BIS	MAX	R= .92403	STANDARD ERROR =	6.64463	REDUCTION OF VARIANCE =	.85383	STD. DEV. OF PND.	17.37953
BIS	MAX	= -390.2125 +	.3505 X QR	MAX +	.1119 X 45/105 THK +	.3087 X BIS	MAX +	-.2576 X CPR
			.0338 X 40/100 HGT +					
ISN	MAX	R= .93642	STANDARD ERROR =	6.04169	REDUCTION OF VARIANCE =	.87687	STD. DEV. OF PND.	17.21803
ISN	MAX	= -312.2584 +	.1102 X 50/110 THK +	.3328 X GGW	MAX +	.2073 X DAY OF YR +	-.0591 X 55/105 HGT +	
			.0623 X 50/100 HGT +					
GGW	MAX	R= .94055	STANDARD ERROR =	5.87134	REDUCTION OF VARIANCE =	.88464	STD. DEV. OF PND.	17.28678
GGW	MAX	= -313.4725 +	.0912 X 50/110 THK +	.4461 X GGW	MIN +	.0574 X 45/105 HGT +	-.0338 X 60/110 HGT +	
			.1877 X DAY OF YR +					
BIL	MAX	R= .93545	STANDARD ERROR =	5.47572	REDUCTION OF VARIANCE =	.87507	STD. DEV. OF PND.	15.49212
BIL	MAX	= -291.9082 +	.0728 X 50/110 THK +	.2258 X HLN	MAX +	.0814 X 45/105 HGT +	-.0433 X 55/115 HGT +	
			.3427 X BIL	MIN +				
GTF	MAX	R= .92882	STANDARD ERROR =	5.87857	REDUCTION OF VARIANCE =	.86270	STD. DEV. OF PND.	15.86481
GTF	MAX	= -458.6245 +	.4167 X GTF	MIN +	.0853 X 45/115 HGT +	.0709 X 50/110 THK +	-.0515 X 50/120 HGT +	
			.0676 X 50/120 THK +					
HLN	MAX	R= .92190	STANDARD ERROR =	5.56633	REDUCTION OF VARIANCE =	.84989	STD. DEV. OF PND.	14.36713
HLN	MAX	= -312.0202 +	.3354 X GTF	MIN +	.0367 X 45/105 HGT +	.0715 X 50/120 THK +	-.0302 X 55/125 HGT +	
			.2558 X HLN	MAX +	.0384 X 45/115 HGT +			
MSO	MAX	R= .90489	STANDARD ERROR =	5.08795	REDUCTION OF VARIANCE =	.81883	STD. DEV. OF PND.	11.95361
MSO	MAX	= -266.4716 +	.3512 X GEG	MAX +	.0489 X 45/105 HGT +	.1757 X GTF	MIN +	.0492 X 50/120 THK +
			.0973 X DAY OF YR +					
GEG	MAX	R= .91726	STANDARD ERROR =	4.05318	REDUCTION OF VARIANCE =	.84136	STD. DEV. OF PND.	10.17622
GEG	MAX	= -270.0148 +	.0689 X 50/120 THK +	.2544 X YKM	MAX +	.0302 X 50/110 HGT +	.0970 X DAY OF YR +	
			.2306 X SLE	MAX +				
PDT	MAX	R= .90101	STANDARD ERROR =	4.07535	REDUCTION OF VARIANCE =	.81182	STD. DEV. OF PND.	9.39455
PDT	MAX	= -204.7697 +	.1738 X GEG	MAX +	.0538 X 45/125 THK +	.4244 X PDT	MIN +	.0436 X 45/115 HGT +
			.0864 X DAY OF YR +		-.0177 X 35/125 HGT +			
YKM	MAX	R= .88581	STANDARD ERROR =	4.38965	REDUCTION OF VARIANCE =	.78467	STD. DEV. OF PND.	9.45967
YKM	MAX	= -85.0644 +	.2880 X YKM	MAX +	.0335 X 50/120 HGT +	.4507 X GEG	MIN +	.2365 X PDX
PDX	MAX	R= .85998	STANDARD ERROR =	4.11472	REDUCTION OF VARIANCE =	.73957	STD. DEV. OF PND.	8.06300
PDX	MAX	= -167.3642 +	.2750 X PDX	MAX +	.0361 X 50/120 HGT +	.0518 X 45/125 THK +	.0868 X DAY OF YR +	
			-.0174 X 35/135 HGT +					
SEA	MAX	R= .84953	STANDARD ERROR =	3.76150	REDUCTION OF VARIANCE =	.72170	STD. DEV. OF PND.	7.13022
SEA	MAX	= -147.4651 +	.2311 X SEA	MAX +	.0007 X 55/115 HGT +	.0466 X 45/125 THK +	.0908 X DAY OF YR +	
			-.0226 X 40/130 HGT +		.0387 X 50/120 HGT +			
TTI	MAX	R= .79324	STANDARD ERROR =	2.57630	REDUCTION OF VARIANCE =	.62922	STD. DEV. OF PND.	4.23698
TTI	MAX	= -92.4328 +	.0085 X 50/120 THK +	.0226 X 55/125 HGT +	.1729 X SEA	MIN +	-.0128 X 40/130 HGT +	
			.0537 X FAR	MIN +	.0131 X 50/130 THK +	.0154 X 45/125 THK +		
MSP	MAX	R= .93160	STANDARD ERROR =	5.71548	REDUCTION OF VARIANCE =	.86788	STD. DEV. OF PND.	15.72411
MSP	MAX	= -240.0782 +	.0932 X 45/095 THK +	.3479 X STC	MAX +	.1975 X QR	MAX +	

HON MAX R= .91101 STANDARD ERROR = 7.16177 REDUCTION OF VARIANCE = .82994 STD. DEV. OF PND. 17.36698
HON MAX = -273.7135 + .3770 X HON MAX + .1034 X 45/105 THK + .2271 X QR MAX +
RAP MAX R= .92763 STANDARD ERROR = 6.10283 REDUCTION OF VARIANCE = .86049 STD. DEV. OF PND. 16.33924
RAP MAX = -451.8235 + .0948 X 45/105 THK + .0597 X 35/105 HGT + .2630 X GGW MAX + -.0354 X 55/115 HGT +
.0492 X 50/110 THK +
CPR MAX R= .91382 STANDARD ERROR = 5.88809 REDUCTION OF VARIANCE = .83507 STD. DEV. OF PND. 14.49864
CPR MAX = -569.7671 + .0840 X 45/105 THK + .0646 X 35/105 HGT + .0600 X 45/115 THK + .3036 X LND MIN +
LND MAX R= .92955 STANDARD ERROR = 4.85645 REDUCTION OF VARIANCE = .86407 STD. DEV. OF PND. 13.17212
LND MAX = -279.4146 + .4429 X LND MIN + .1102 X 40/110 HGT + -.0686 X 45/115 HGT + .0627 X 45/115 THK +
.1917 X HLN MAX +
PIH MAX R= .92689 STANDARD ERROR = 4.36086 REDUCTION OF VARIANCE = .85912 STD. DEV. OF PND. 11.61827
PIH MAX = -394.7587 + .0958 X 45/115 THK + .0476 X 40/110 HGT + .1375 X DAY OF YR + .2701 X BNO MAX +
BOI MAX R= .92476 STANDARD ERROR = 3.97046 REDUCTION OF VARIANCE = .85519 STD. DEV. OF PND. 10.43360
BOI MAX = -245.1214 + .0545 X 45/115 THK + .0577 X 45/115 HGT + .0959 X DAY OF YR + .2147 X MFR MAX +
.3130 X BOI MIN + -.0197 X 35/125 HGT +
BNO MAX R= .91417 STANDARD ERROR = 4.25702 REDUCTION OF VARIANCE = .83571 STD. DEV. OF PND. 10.50262
BNO MAX = -317.0311 + .3469 X BNO MAX + .0522 X 45/115 HGT + .0643 X 45/125 THK + .1211 X DAY OF YR +
MFR MAX R= .89629 STANDARD ERROR = 4.48862 REDUCTION OF VARIANCE = .80334 STD. DEV. OF PND. 10.12179
MFR MAX = -209.3974 + .3106 X MFR MAX + .0095 X 50/120 HGT + .0502 X 45/125 THK + .0957 X DAY OF YR +
.0502 X 45/125 HGT + -.0256 X 35/135 HGT +
SLE MAX R= .86342 STANDARD ERROR = 4.06758 REDUCTION OF VARIANCE = .74549 STD. DEV. OF PND. 8.06272
SLE MAX = -180.4396 + .2599 X SLE MAX + .0384 X 50/120 HGT + .0515 X 45/125 THK + .0848 X DAY OF YR +
-.0148 X 35/135 HGT +

Northwest Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL MIN R= .90514 STANDARD ERROR = 6.68440 REDUCTION OF VARIANCE = .81928 STD. DEV. OF PND. 15.72394
INL MIN = -110.3377 + .2869 X WG MAX + .3894 X INL MIN + .0240 X 55/085 HGT + .0456 X 50/100 THK +
-.0289 X 50/110 HGT +
DLH MIN R= .90844 STANDARD ERROR = 5.61117 REDUCTION OF VARIANCE = .82527 STD. DEV. OF PND. 13.42370
DLH MIN = -209.0679 + .1969 X WG MAX + .2918 X INL MIN + .0463 X 50/090 THK + .0305 X 40/100 THK +
STC MIN R= .90575 STANDARD ERROR = 5.79676 REDUCTION OF VARIANCE = .82037 STD. DEV. OF PND. 13.67734
STC MIN = -252.5957 + .3019 X HON MIN + .0502 X 50/090 THK + .0430 X 45/105 THK + .2253 X STC MIN +
FAR MIN R= .91763 STANDARD ERROR = 5.85784 REDUCTION OF VARIANCE = .84205 STD. DEV. OF PND. 14.73927
FAR MIN = -177.6827 + .4146 X FAR MIN + .0666 X 45/105 THK + .0285 X 50/090 HGT + .2205 X PA MAX +
-.0302 X 45/105 HGT +
BIS MIN R= .91365 STANDARD ERROR = 5.91078 REDUCTION OF VARIANCE = .83475 STD. DEV. OF PND. 14.54036
BIS MIN = -285.7024 + .4939 X BIS MIN + .0676 X 45/105 THK + .0374 X 55/105 THK +
ISN MIN R= .92303 STANDARD ERROR = 5.72421 REDUCTION OF VARIANCE = .85199 STD. DEV. OF PND. 14.87867
ISN MIN = -225.1394 + .3754 X GGW MIN + .0367 X 55/115 THK + .0449 X 45/105 THK + .2121 X QR MAX +
GGW MIN R= .92230 STANDARD ERROR = 5.70935 REDUCTION OF VARIANCE = .85063 STD. DEV. OF PND. 14.77248
GGW MIN = -92.4340 + .3374 X GGW MAX + .4297 X GGW MIN + .0322 X 55/115 THK +
BIL MIN R= .90733 STANDARD ERROR = 5.01926 REDUCTION OF VARIANCE = .82325 STD. DEV. OF PND. 11.93862
BIL MIN = -5.1487 + .3567 X GTF MIN + .3052 X BIL MAX + .2040 X XS MAX +
GTF MIN R= .91537 STANDARD ERROR = 5.40211 REDUCTION OF VARIANCE = .83791 STD. DEV. OF PND. 13.41774
GTF MIN = -153.6502 + .2043 X GTF MAX + .1894 X EG MAX + -.0233 X 55/135 HGT + .0505 X 55/125 THK +
.0272 X 40/110 HGT + .2379 X GTF MIN +

HLN	MIN	R= .86986	STANDARD ERROR =	5.85310	REDUCTION OF VARIANCE =	.75666	STD. DEV. OF PND.	11.86524	
HLN	MIN	= -52.4356 +	.2982 X GTF	MAX +	.3901 X HLN	MIN +	.0410 X 60/130 THK +	-.0210 X 60/130 HGT +	
M50	MIN	R= .83044	STANDARD ERROR =	4.84689	REDUCTION OF VARIANCE =	.68963	STD. DEV. OF PND.	8.70010	
M50	MIN	= -3.6644 +	.3605 X M50	MIN +	.2076 X M50	MAX +	.1401 X XS	MIN + .2114 X SLE	MIN +
GEG	MIN	R= .86137	STANDARD ERROR =	3.55110	REDUCTION OF VARIANCE =	.74196	STD. DEV. OF PND.	6.99072	
GEG	MIN	= -30.5883 +	.1952 X GEG	MAX +	.3343 X GEG	MIN +	.0259 X 45/125 THK +	-.0125 X 45/135 HGT +	
			.1247 X XS	MAX +					
PDT	MIN	R= .83096	STANDARD ERROR =	3.55481	REDUCTION OF VARIANCE =	.69050	STD. DEV. OF PND.	6.38981	
PDT	MIN	= -128.2013 +	.2080 X PDT	MAX +	.1970 X SLE	MIN +	.0302 X 45/125 THK +	.0305 X 50/120 THK +	
			-.0108 X 50/130 HGT +		.0529 X DAY OF	YR +			
YKM	MIN	R= .76083	STANDARD ERROR =	4.50640	REDUCTION OF VARIANCE =	.57886	STD. DEV. OF PND.	6.94414	
YKM	MIN	= -38.7888 +	.2618 X GEG	MAX +	.1998 X SLE	MIN +	.0266 X 45/125 THK +	-.0108 X 45/135 HGT +	
			.1994 X YKM	MIN +					
PDX	MIN	R= .71846	STANDARD ERROR =	3.84611	REDUCTION OF VARIANCE =	.51618	STD. DEV. OF PND.	5.52944	
PDX	MIN	= -76.9725 +	.3193 X SLE	MIN +	.0876 X PDX	MAX +	-.0187 X 50/130 HGT +	.0312 X 50/130 THK +	
			.0615 X DAY OF	YR +	.0213 X 45/125 THK +				
SEA	MIN	R= .77760	STANDARD ERROR =	3.16528	REDUCTION OF VARIANCE =	.60466	STD. DEV. OF PND.	5.03417	
SEA	MIN	= -93.2179 +	.4311 X SEA	MIN +	.0325 X 45/125 THK +		.0167 X 50/130 THK +	-.0095 X 45/135 HGT +	
TTI	MIN	R= .80591	STANDARD ERROR =	2.20185	REDUCTION OF VARIANCE =	.64949	STD. DEV. OF PND.	3.71908	
TTI	MIN	= -116.9149 +	.0135 X 55/125 THK +		.0197 X 45/125 THK +		.1499 X SEA	MIN + .0092 X 55/115 HGT +	
			.0089 X 60/150 THK +		.1081 X VR	MAX +			
MSP	MIN	R= .91398	STANDARD ERROR =	5.37393	REDUCTION OF VARIANCE =	.83536	STD. DEV. OF PND.	13.24424	
MSP	MIN	= -153.1580 +	.2485 X HON	MIN +	.1729 X W6	MAX +	.2749 X MSP	MIN + .0233 X 45/085 HGT +	
			.0322 X 45/105 THK +						
HON	MIN	R= .90454	STANDARD ERROR =	5.78482	REDUCTION OF VARIANCE =	.81820	STD. DEV. OF PND.	13.56719	
HON	MIN	= -201.4029 +	.3915 X HON	MIN +	.0787 X 45/105 THK +		.0207 X 40/090 HGT +	.1680 X PA	MAX +
			-.0259 X 45/105 HGT +						
RAP	MIN	R= .92891	STANDARD ERROR =	4.44437	REDUCTION OF VARIANCE =	.86287	STD. DEV. OF PND.	12.00176	
RAP	MIN	= -244.4333 +	.1385 X G6W	MAX +	.2755 X RAP	MIN +	.0646 X 45/105 THK +	.0253 X 50/110 THK +	
CPR	MIN	R= .89497	STANDARD ERROR =	5.04131	REDUCTION OF VARIANCE =	.80097	STD. DEV. OF PND.	11.30026	
CPR	MIN	= -333.4803 +	.0246 X 45/105 THK +		.0358 X 45/115 THK +		.3094 X CPR	MIN + .0630 X 40/110 HGT +	
			-.0476 X 45/115 HGT +		.0453 X 50/110 THK +				
LND	MIN	R= .90285	STANDARD ERROR =	4.66997	REDUCTION OF VARIANCE =	.81513	STD. DEV. OF PND.	10.86130	
LND	MIN	= -80.1626 +	.1889 X CPR	MAX +	.2437 X HLN	MAX +	.3364 X LND	MIN + .0246 X 35/105 HGT +	
PIH	MIN	R= .80579	STANDARD ERROR =	4.99337	REDUCTION OF VARIANCE =	.64930	STD. DEV. OF PND.	8.43197	
PIH	MIN	= -7.2378 +	.3183 X PIH	MAX +	.3337 X SLE	MIN +	.2665 X PIH	MIN +	
BOI	MIN	R= .83517	STANDARD ERROR =	4.05393	REDUCTION OF VARIANCE =	.69750	STD. DEV. OF PND.	7.37079	
BOI	MIN	= -11.6895 +	.2408 X BNO	MAX +	-.0236 X 45/135 HGT +		.2288 X PDT	MIN + .0308 X 45/125 THK +	
			.1878 X BOI	MIN +					
BNO	MIN	R= .81229	STANDARD ERROR =	4.15438	REDUCTION OF VARIANCE =	.65982	STD. DEV. OF PND.	7.12279	
BNO	MIN	= -93.4532 +	.1722 X BNO	MAX +	.2288 X SLE	MIN +	-.0154 X 40/130 HGT +	.0361 X 45/125 THK +	
			.1864 X BNO	MIN +	.0125 X 45/115 HGT +		.0526 X DAY OF	YR +	
MFR	MIN	R= .74033	STANDARD ERROR =	3.97828	REDUCTION OF VARIANCE =	.54809	STD. DEV. OF PND.	5.91791	
MFR	MIN	= -25.5889 +	.3634 X MFR	MIN +	.0302 X 45/125 THK +		-.0154 X 45/135 HGT +	.1443 X BNO	MAX +
SLE	MIN	R= .70228	STANDARD ERROR =	4.12934	REDUCTION OF VARIANCE =	.49320	STD. DEV. OF PND.	5.80047	
SLE	MIN	= -130.0650 +	.4398 X SLE	MIN +	.0479 X 45/125 THK +		-.0190 X 45/135 HGT +	.0079 X 35/075 HGT +	
			.0157 X 40/150 THK +						

Southwest Max

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM MAX R= .91413 STANDARD ERROR = 6.52651 REDUCTION OF VARIANCE = .83563 STD. DEV. OF PND. 16.09781
 DSM MAX = -424.0796 + .1188 X 45/095 THK + .3404 X OMA MAX + .0397 X 35/095 HGT +
 OMA MAX R= .91259 STANDARD ERROR = 6.63318 REDUCTION OF VARIANCE = .83282 STD. DEV. OF PND. 16.22311
 OMA MAX = -318.7277 + .0702 X 40/100 THK + .2340 X HON MAX + .0509 X 45/105 THK + .3468 X MKC MIN +
 LBF MAX R= .91092 STANDARD ERROR = 6.70879 REDUCTION OF VARIANCE = .82977 STD. DEV. OF PND. 16.26010
 LBF MAX = -470.0556 + .1463 X 45/105 THK + .3167 X LBF MAX + .0633 X 35/105 HGT + -.0361 X 50/100 HGT +
 DEN MAX R= .92224 STANDARD ERROR = 5.66152 REDUCTION OF VARIANCE = .85052 STD. DEV. OF PND. 14.64341
 DEN MAX = -450.4260 + .4145 X DEN MIN + .1394 X 35/105 HGT + .0994 X 45/105 THK + -.0732 X 45/105 HGT +
 SLC MAX R= .93262 STANDARD ERROR = 4.26201 REDUCTION OF VARIANCE = .86979 STD. DEV. OF PND. 11.81097
 SLC MAX = -220.4821 + .3886 X WMC MAX + .3307 X SLC MIN + .0568 X 40/110 HGT + -.0203 X 45/125 HGT +
 .0459 X 45/115 THK +
 WMC MAX R= .92264 STANDARD ERROR = 4.37296 REDUCTION OF VARIANCE = .85127 STD. DEV. OF PND. 11.33912
 WMC MAX = -424.0600 + .0945 X 40/120 THK + .0600 X 40/110 HGT + .1191 X DAY OF YR + .2239 X MFR MAX +
 RNO MAX R= .91241 STANDARD ERROR = 4.37941 REDUCTION OF VARIANCE = .83249 STD. DEV. OF PND. 10.70036
 RNO MAX = -371.4040 + .0653 X 40/120 HGT + .0722 X 40/120 THK + .0983 X DAY OF YR + .2292 X RNO MAX +
 RBL MAX R= .89708 STANDARD ERROR = 4.62753 REDUCTION OF VARIANCE = .80476 STD. DEV. OF PND. 10.47273
 RBL MAX = -195.3534 + .3593 X SAC MAX + .0440 X 45/125 HGT + .4363 X BFL MIN + .0282 X 40/130 HGT +
 EKA MAX R= .71805 STANDARD ERROR = 2.85690 REDUCTION OF VARIANCE = .51560 STD. DEV. OF PND. 4.10479
 EKA MAX = -44.6430 + .2832 X EKA MAX + .0223 X 40/130 THK + -.0128 X 40/140 HGT + .0190 X 45/115 HGT +
 -.0905 X MFR MAX + .1646 X EKA MIN +
 MKC MAX R= .90811 STANDARD ERROR = 6.40638 REDUCTION OF VARIANCE = .82466 STD. DEV. OF PND. 15.29950
 MKC MAX = -286.1021 + .1102 X 40/100 THK + .2259 X TOP MAX + .3360 X MKC MIN +
 TOP MAX R= .90590 STANDARD ERROR = 6.54667 REDUCTION OF VARIANCE = .82065 STD. DEV. OF PND. 15.45872
 TOP MAX = -337.8433 + .1299 X 40/100 THK + .2820 X MKC MIN + .1808 X TOP MAX +
 ICT MAX R= .89465 STANDARD ERROR = 6.63263 REDUCTION OF VARIANCE = .80041 STD. DEV. OF PND. 14.84610
 ICT MAX = -354.7641 + .1378 X 40/100 THK + .2919 X DDC MAX +
 DDC MAX R= .90436 STANDARD ERROR = 6.70726 REDUCTION OF VARIANCE = .81786 STD. DEV. OF PND. 15.71623
 DDC MAX = -587.9052 + .1837 X 40/100 THK + .1076 X 35/105 HGT + -.0725 X 45/105 HGT + .1918 X DAY OF YR +
 -.3703 X ABQ MIN +
 PUB MAX R= .91060 STANDARD ERROR = 6.07721 REDUCTION OF VARIANCE = .82919 STD. DEV. OF PND. 14.70459
 PUB MAX = -441.2413 + .0591 X 40/100 THK + .1270 X 35/105 HGT + -.0764 X 45/105 HGT + .0561 X 45/105 THK +
 .3617 X DEN MIN +
 GJT MAX R= .92937 STANDARD ERROR = 4.30495 REDUCTION OF VARIANCE = .86373 STD. DEV. OF PND. 11.66206
 GJT MAX = -560.7922 + .1490 X 40/110 THK + .0568 X 35/105 HGT + .1157 X DAY OF YR +
 MLF MAX R= .91929 STANDARD ERROR = 4.84452 REDUCTION OF VARIANCE = .84509 STD. DEV. OF PND. 12.30854
 MLF MAX = -380.7049 + .0735 X 40/110 THK + .0453 X 35/115 HGT + .3476 X RNO MAX + -.0249 X 45/125 HGT +
 .1047 X DAY OF YR + .0430 X 40/110 HGT +
 ELY MAX R= .93364 STANDARD ERROR = 4.22783 REDUCTION OF VARIANCE = .87168 STD. DEV. OF PND. 11.80232
 ELY MAX = -409.6383 + .1001 X 40/120 THK + .2805 X ELY MAX + .0646 X 40/110 HGT + .0972 X DAY OF YR +
 -.0164 X 45/125 HGT +
 SAC MAX R= .90161 STANDARD ERROR = 3.82448 REDUCTION OF VARIANCE = .81291 STD. DEV. OF PND. 8.84185
 SAC MAX = -236.3336 + .3512 X SAC MAX + .0364 X 45/125 HGT + .0558 X 35/125 THK + .0975 X DAY OF YR +

SFO MAX R= .80381 STANDARD ERROR = 3.81223 REDUCTION OF VARIANCE = .64611 STD. DEV. OF PND. 6.40833
 SFO MAX = -148.8202 + .4138 X SFO MAX + .0295 X 45/125 HGT + .0331 X 35/125 THK + -.1484 X MFR MAX +
 .2076 X SAC MIN +

OKC MAX R= .87864 STANDARD ERROR = 6.62774 REDUCTION OF VARIANCE = .77200 STD. DEV. OF PND. 13.88028
 OKC MAX = -180.2140 + .1073 X 40/100 THK + .2639 X AMA MAX + -.0315 X 45/095 HGT + .2649 X OKC MIN +

AMA MAX R= .88007 STANDARD ERROR = 6.74543 REDUCTION OF VARIANCE = .77453 STD. DEV. OF PND. 14.20581
 AMA MAX = -391.1946 + .1293 X 40/100 THK + .1001 X 35/105 HGT + -.0784 X 45/105 HGT + .1816 X AMA MAX +

ABQ MAX R= .90606 STANDARD ERROR = 4.57204 REDUCTION OF VARIANCE = .82094 STD. DEV. OF PND. 10.80458
 ABQ MAX = -492.3338 + .0712 X 30/110 THK + .0761 X 35/105 THK + .1522 X DAY OF YR + .0676 X 35/105 HGT +
 -.0341 X 45/105 HGT +

INW MAX R= .91186 STANDARD ERROR = 4.40747 REDUCTION OF VARIANCE = .83149 STD. DEV. OF PND. 10.73695
 INW MAX = -471.3109 + .1043 X 35/115 THK + .3593 X GJT MIN + .0702 X 30/110 HGT +

LAS MAX R= .92937 STANDARD ERROR = 3.86976 REDUCTION OF VARIANCE = .86373 STD. DEV. OF PND. 10.48296
 LAS MAX = -310.6550 + .1020 X 35/115 THK + .2523 X RNO MAX + .1193 X DAY OF YR + .0430 X 40/120 HGT +
 -.0246 X 45/125 HGT +

BFL MAX R= .91430 STANDARD ERROR = 3.78432 REDUCTION OF VARIANCE = .83595 STD. DEV. OF PND. 9.34328
 BFL MAX = -213.0831 + .5267 X SAC MAX + .0295 X 40/110 HGT + .0768 X 35/125 THK + -.0207 X 35/135 HGT +

FAT MAX R= .91714 STANDARD ERROR = 3.78858 REDUCTION OF VARIANCE = .84114 STD. DEV. OF PND. 9.50547
 FAT MAX = -154.1952 + .1322 X FAT MAX + .0584 X 40/120 HGT + .3437 X BFL MIN + .3105 X SAC MAX +

SMX MAX R= .78564 STANDARD ERROR = 4.41922 REDUCTION OF VARIANCE = .61723 STD. DEV. OF PND. 7.14291
 SMX MAX = -215.9750 + .0801 X 40/120 HGT + .3082 X SAN MAX + -.1868 X MFR MAX + .0545 X 30/120 THK +
 -.0430 X 30/120 HGT +

FTW MAX R= .86638 STANDARD ERROR = 5.87749 REDUCTION OF VARIANCE = .75061 STD. DEV. OF PND. 11.76945
 FTW MAX = -223.5227 + .0863 X 35/095 THK + .0727 X PUB MAX + -.0361 X 40/090 HGT + .0456 X 40/100 THK +
 .2165 X AMA MAX +

MAF MAX R= .86756 STANDARD ERROR = 6.07685 REDUCTION OF VARIANCE = .75265 STD. DEV. OF PND. 12.21871
 MAF MAX = -285.1943 + .1496 X 35/105 THK + .1694 X AMA MAX + -.0338 X 45/105 HGT + .1571 X CBI MIN +

ELP MAX R= .89051 STANDARD ERROR = 4.40849 REDUCTION OF VARIANCE = .79302 STD. DEV. OF PND. 9.68998
 ELP MAX = -500.0891 + .0873 X 35/105 THK + .1030 X 30/110 THK + .0742 X DAY OF YR +

TUS MAX R= .93455 STANDARD ERROR = 3.48874 REDUCTION OF VARIANCE = .87339 STD. DEV. OF PND. 9.80457
 TUS MAX = -287.2749 + .4629 X YUM MAX + .1024 X 30/110 HGT + .1003 X DAY OF YR +

PHX MAX R= .93743 STANDARD ERROR = 3.38360 REDUCTION OF VARIANCE = .87878 STD. DEV. OF PND. 9.71830
 PHX MAX = -315.3863 + .4004 X PHX MAX + .0630 X 35/115 HGT + .0545 X 30/110 THK + .0736 X DAY OF YR +

YUM MAX R= .93797 STANDARD ERROR = 3.25501 REDUCTION OF VARIANCE = .87979 STD. DEV. OF PND. 9.38833
 YUM MAX = -284.8749 + .3277 X YUM MAX + .0600 X 35/115 HGT + .0512 X 35/115 THK + .0707 X DAY OF YR +

SAN MAX R= .79464 STANDARD ERROR = 3.28044 REDUCTION OF VARIANCE = .63145 STD. DEV. OF PND. 5.40363
 SAN MAX = -79.6788 + .5092 X SAN MAX + .0371 X 40/120 HGT + -.1096 X WMC MAX + .1538 X SEA MIN +

LAX MAX R= .80519 STANDARD ERROR = 3.52198 REDUCTION OF VARIANCE = .64833 STD. DEV. OF PND. 5.93910
 LAX MAX = -98.9399 + .5223 X LAX MAX + .0417 X 40/120 HGT + -.1907 X RNO MAX + .2927 X LAX MIN +

SAT MAX R= .86018 STANDARD ERROR = 4.95833 REDUCTION OF VARIANCE = .73991 STD. DEV. OF PND. 9.72244
 SAT MAX = -242.1751 + .0541 X 30/100 THK + .0785 X FTW MAX + -.0456 X 35/095 HGT + .0472 X 35/095 THK +
 .0466 X 35/105 THK + .1924 X SAT MAX +

DRT MAX R= .87742 STANDARD ERROR = 5.02440 REDUCTION OF VARIANCE = .76987 STD. DEV. OF PND. 10.47369
 DRT MAX = -318.9389 + .0994 X 30/100 THK + .2736 X DRT MAX + -.0390 X 35/095 HGT + .0696 X 35/105 THK +
 -.2131 X ELP MAX + .1344 X AMA MAX +

Southwest Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX: MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MIN	R=	.90673	STANDARD ERROR =	5.28483	REDUCTION OF VARIANCE =	.82216	STD. DEV. OF PND.	12.53193
DSM	MIN	=	-122.1128 +	.4381 X OMA	MIN +	.2388 X FAR	MAX +	.0446 X 40/100 THK +	
OMA	MIN	R=	.90365	STANDARD ERROR =	5.24908	REDUCTION OF VARIANCE =	.81658	STD. DEV. OF PND.	12.25631
OMA	MIN	=	-112.5701 +	.3314 X DDC	MIN +	.3236 X FAR	MAX +	.0417 X 40/100 THK +	
LBF	MIN	R=	.88996	STANDARD ERROR =	5.30168	REDUCTION OF VARIANCE =	.79204	STD. DEV. OF PND.	11.62573
LBF	MIN	=	-198.2839 +	.2100 X RAP	MIN +	.4549 X LBF	MIN +	.0394 X 45/105 THK +	
DEN	MIN	R=	.89780	STANDARD ERROR =	4.62512	REDUCTION OF VARIANCE =	.80604	STD. DEV. OF PND.	10.50183
DEN	MIN	=	-298.0845 +	.1282 X DEN	MAX +	.0571 X 45/105 THK +	.0272 X 45/115 THK +	.2466 X DEN	MIN +
				.0230 X 35/105 HGT +					
SLC	MIN	R=	.84914	STANDARD ERROR =	4.49048	REDUCTION OF VARIANCE =	.72103	STD. DEV. OF PND.	8.50190
SLC	MIN	=	-59.7395 +	.2544 X PIH	MAX +	.2818 X BOI	MIN +	.2474 X SLC	MIN +
								.0203 X 35/105 HGT +	
WMC	MIN	R=	.75881	STANDARD ERROR =	5.52957	REDUCTION OF VARIANCE =	.57579	STD. DEV. OF PND.	8.48985
WMC	MIN	=	.4730 +	.3206 X WMC	MIN +	.1310 X BNO	MAX +	-.0374 X 45/125 HGT +	.0390 X 40/110 HGT +
				.2571 X MFR	MIN +	.0985 X DAY OF YR +	-.0358 X 40/110 THK +	.0318 X 45/125 THK +	
RNO	MIN	R=	.74231	STANDARD ERROR =	4.85935	REDUCTION OF VARIANCE =	.55102	STD. DEV. OF PND.	7.25209
RNO	MIN	=	5.7486 +	.1059 X WMC	MAX +	.2794 X RNO	MIN +	-.0361 X 45/125 HGT +	.0364 X 45/125 THK +
				.2666 X RNO	MAX +	-.1329 X INW	MAX +	.0589 X DAY OF YR +	
RBL	MIN	R=	.80539	STANDARD ERROR =	3.56342	REDUCTION OF VARIANCE =	.64865	STD. DEV. OF PND.	6.01172
RBL	MIN	=	-51.9294 +	.3233 X RBL	MIN +	.1842 X RBL	MAX +	.2527 X MFR	MIN +
								.0210 X 40/130 THK +	
EKA	MIN	R=	.75471	STANDARD ERROR =	2.78322	REDUCTION OF VARIANCE =	.56959	STD. DEV. OF PND.	4.24236
EKA	MIN	=	-92.9145 +	.3098 X EKA	MIN +	.0161 X 45/125 THK +	.0115 X 45/115 THK +	-.0072 X 40/140 HGT +	
				.0200 X 40/130 THK +		.1589 X EKA	MAX +		
MKC	MIN	R=	.91803	STANDARD ERROR =	4.78558	REDUCTION OF VARIANCE =	.84278	STD. DEV. OF PND.	12.06943
MKC	MIN	=	-289.8230 +	.1258 X HON	MAX +	.0522 X 40/100 THK +	.2184 X OMA	MIN +	.0331 X 45/095 THK +
				.0230 X 35/085 HGT +					
TOP	MIN	R=	.90042	STANDARD ERROR =	5.24162	REDUCTION OF VARIANCE =	.81075	STD. DEV. OF PND.	12.04886
TOP	MIN	=	-330.1039 +	.2947 X OMA	MIN +	.0600 X 40/100 THK +	.0371 X 45/095 THK +	.0253 X 35/085 HGT +	
ICT	MIN	R=	.91974	STANDARD ERROR =	4.70884	REDUCTION OF VARIANCE =	.84591	STD. DEV. OF PND.	11.99586
ICT	MIN	=	-179.2837 +	.3400 X DDC	MIN +	.0705 X 40/100 THK +	.0174 X 40/090 HGT +	.1216 X OR	MAX +
				-.0180 X 40/120 HGT +					
DDC	MIN	R=	.90887	STANDARD ERROR =	4.85903	REDUCTION OF VARIANCE =	.82604	STD. DEV. OF PND.	11.65010
DDC	MIN	=	-341.5649 +	.0925 X 40/100 THK +		.0351 X 50/110 THK +		.2387 X DDC	MIN +
PUB	MIN	R=	.88416	STANDARD ERROR =	5.04984	REDUCTION OF VARIANCE =	.78174	STD. DEV. OF PND.	10.80911
PUB	MIN	=	-6.2165 +	.2135 X DEN	MAX +	.2551 X PUB	MIN +	.2858 X CPR	MIN +
								.1086 X DAY OF YR +	
GJT	MIN	R=	.87755	STANDARD ERROR =	4.17345	REDUCTION OF VARIANCE =	.77009	STD. DEV. OF PND.	8.70388
GJT	MIN	=	-1.4798 +	.3284 X SLC	MAX +	.3713 X GJT	MIN +	.1884 X WMC	MIN +
MLF	MIN	R=	.81869	STANDARD ERROR =	5.02458	REDUCTION OF VARIANCE =	.67025	STD. DEV. OF PND.	8.75004
MLF	MIN	=	1.4726 +	.1051 X SLC	MAX +	.2441 X WMC	MIN +	.0992 X DAY OF YR +	-.2228 X RBL
				.2788 X WMC	MAX +	.1743 X ELY	MIN +		
ELY	MIN	R=	.81284	STANDARD ERROR =	5.38038	REDUCTION OF VARIANCE =	.66070	STD. DEV. OF PND.	9.23683
ELY	MIN	=	-4.9389 +	.4480 X WMC	MAX +	.3160 X ELY	MIN +	-.1560 X RBL	MAX +
								.2000 X BNO	MIN +
SAC	MIN	R=	.78675	STANDARD ERROR =	3.23533	REDUCTION OF VARIANCE =	.61898	STD. DEV. OF PND.	5.24135
SAC	MIN	=	.5261 +	.2856 X SAC	MIN +	.1879 X SFO	MAX +	.2936 X EKA	MIN +
								.1085 X RNO	MAX +

SFO MIN R= .72052 STANDARD ERROR = 2.84827 REDUCTION OF VARIANCE = .51915 STD. DEV. OF PND. 4.10749
 SFO MIN = -2.3158 + .2756 X SFO MIN + .0652 X BNO MAX + .1996 X EKA MIN + .1324 X SFO MAX +
 -.0125 X 40/130 HGT + .0187 X 40/130 THK +

OKC MIN R= .91818 STANDARD ERROR = 4.59979 REDUCTION OF VARIANCE = .84306 STD. DEV. OF PND. 11.61098
 OKC MIN = -272.6111 + .0742 X 40/100 THK + .3757 X OKC MIN + .0210 X 50/110 THK + -.0269 X 45/105 HGT +
 .0345 X 35/095 HGT +

AMA MIN R= .89720 STANDARD ERROR = 4.50707 REDUCTION OF VARIANCE = .80497 STD. DEV. OF PND. 10.20580
 AMA MIN = -262.5693 + .0732 X 40/100 THK + .0246 X 50/110 THK + .1636 X ABQ MAX + .1853 X AMA MIN +

ABQ MIN R= .86827 STANDARD ERROR = 4.27309 REDUCTION OF VARIANCE = .75389 STD. DEV. OF PND. 8.61336
 ABQ MIN = -.89.6453 + .2806 X INW MAX + .2903 X ABQ MIN + .2417 X SLC MIN + .0289 X 30/100 HGT +

INW MIN R= .85784 STANDARD ERROR = 4.29567 REDUCTION OF VARIANCE = .73589 STD. DEV. OF PND. 8.35872
 INW MIN = -28.0279 + .2581 X ELY MAX + .3204 X INW MIN + .1718 X WMC MIN + -.0269 X 40/120 HGT +
 .0387 X 35/115 THK +

LAS MIN R= .87070 STANDARD ERROR = 4.12106 REDUCTION OF VARIANCE = .75812 STD. DEV. OF PND. 8.37942
 LAS MIN = -3.3634 + .4098 X LAS MAX + .1847 X WMC MIN + .1750 X LAS MIN + .0694 X DAY OF YR +
 BFL MIN R= .88959 STANDARD ERROR = 2.84945 REDUCTION OF VARIANCE = .79137 STD. DEV. OF PND. 6.23837
 BFL MIN = -3.6691 + .1364 X RNO MAX + .3616 X BFL MIN + .1729 X SFO MAX + .2087 X EKA MIN +
 .1003 X MFR MAX +

FAT MIN R= .86239 STANDARD ERROR = 3.28260 REDUCTION OF VARIANCE = .74371 STD. DEV. OF PND. 6.48412
 FAT MIN = -12.3217 + .5424 X FAT MIN + .1317 X RNO MAX + .0322 X 40/130 THK + -.0174 X 40/130 HGT +
 .0801 X DAY OF YR + -.0262 X 40/110 THK + .0184 X 40/110 HGT +

SMX MIN R= .71331 STANDARD ERROR = 3.63478 REDUCTION OF VARIANCE = .50882 STD. DEV. OF PND. 5.18628
 SMX MIN = 36.6077 + .1963 X SAC MIN + .1388 X RNO MAX + .1509 X FAT MIN + -.0082 X 35/135 HGT +
 .1806 X EKA MIN +

FTW MIN R= .90864 STANDARD ERROR = 4.60595 REDUCTION OF VARIANCE = .82563 STD. DEV. OF PND. 11.03020
 FTW MIN = -179.2850 + .0262 X 35/095 THK + .0387 X 40/100 THK + .2782 X OKC MIN + -.0312 X 35/115 HGT +
 .0377 X 30/090 HGT + .2142 X DEN MIN +

MAF MIN R= .88976 STANDARD ERROR = 4.59288 REDUCTION OF VARIANCE = .79167 STD. DEV. OF PND. 10.06247
 MAF MIN = -191.0975 + .3544 X AMA MIN + .0742 X 35/105 THK + -.0312 X 30/120 HGT + .0341 X 40/100 THK +

ELP MIN R= .85675 STANDARD ERROR = 4.60263 REDUCTION OF VARIANCE = .73402 STD. DEV. OF PND. 8.92450
 ELP MIN = -96.6637 + .0551 X 35/105 THK + .2009 X TUS MIN + .2178 X ELP MIN + .2668 X INW MAX +
 -.0190 X 40/110 HGT +

TUS MIN R= .88746 STANDARD ERROR = 3.46083 REDUCTION OF VARIANCE = .78758 STD. DEV. OF PND. 7.50896
 TUS MIN = -127.0972 + .2353 X TUS MAX + .2798 X TUS MIN + .0571 X 35/115 THK + -.0200 X 35/125 HGT +
 .0121 X 45/115 THK +

PHX MIN R= .87852 STANDARD ERROR = 3.38526 REDUCTION OF VARIANCE = .77179 STD. DEV. OF PND. 7.08645
 PHX MIN = -32.0128 + .3442 X PHX MIN + .1821 X INW MAX + .2151 X BFL MIN + .0371 X 35/115 THK +

YUM MIN R= .89581 STANDARD ERROR = 2.95049 REDUCTION OF VARIANCE = .80247 STD. DEV. OF PND. 6.63861
 YUM MIN = -1.8649 + .3413 X YUM MAX + .3248 X YUM MIN + .2088 X RBL MIN +

SAN MIN R= .83264 STANDARD ERROR = 2.23911 REDUCTION OF VARIANCE = .69329 STD. DEV. OF PND. 4.04308
 SAN MIN = -33.5545 + .2892 X SAN MIN + .0180 X 35/115 THK + .1574 X RBL MIN + .2013 X LAX MIN +

LAX MIN R= .83450 STANDARD ERROR = 2.39740 REDUCTION OF VARIANCE = .69639 STD. DEV. OF PND. 4.35694
 LAX MIN = 5.2021 + .3200 X LAX MIN + .1284 X FAT MAX + .1963 X FAT MIN + .1328 X LAX MAX +
 .0751 X INW MIN +

SAT MIN R= .87781 STANDARD ERROR = 4.99859 REDUCTION OF VARIANCE = .77055 STD. DEV. OF PND. 10.43527
 SAT MIN = -168.2018 + .0062 X 35/095 THK + .2660 X SAT MIN + .2949 X AMA MIN + .0436 X 35/095 HGT +
 -.0282 X 40/110 HGT + .0436 X 30/100 THK +

DRT MIN R= .88727 STANDARD ERROR = 4.33438 REDUCTION OF VARIANCE = .78725 STD. DEV. OF PND. 9.39704
 DRT MIN = -259.5818 + .0640 X 30/100 THK + .0305 X 40/100 THK + .2877 X DRT MIN + .0305 X 35/095 HGT +
 -.0249 X 35/115 HGT +

Southeast Max

March-April

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

SBY	MAX	R = .88849	STANDARD ERROR =	5.69106	REDUCTION OF VARIANCE =	.78941	STD. DEV. OF PND.	12.40137
SBY	MAX	= -115.0025 +	.2718 X CLE	MAX +	.0755 X 40/080 THK +	-.0243 X 50/080 HGT +	.3903 X NYC	MIN +
DCA	MAX	R = .88948	STANDARD ERROR =	5.94908	REDUCTION OF VARIANCE =	.79118	STD. DEV. OF PND.	13.01864
DCA	MAX	= -2.3249 +	.3369 X IND	MAX +	.4002 X NYC	MIN +	-.0318 X 50/080 HGT +	.0371 X 40/080 HGT +
			.4924 X DCA	MIN +	-.2398 X CHS	MIN +		
CRW	MAX	R = .91647	STANDARD ERROR =	5.68976	REDUCTION OF VARIANCE =	.83991	STD. DEV. OF PND.	14.22039
CRW	MAX	= -402.3601 +	.1109 X 40/080 THK +		.0427 X 35/085 HGT +		.2530 X CBI	MAX +
HTS	MAX	R = .91174	STANDARD ERROR =	5.76035	REDUCTION OF VARIANCE =	.83127	STD. DEV. OF PND.	14.02342
HTS	MAX	= -388.4823 +	.1014 X 40/080 THK +		.2816 X MKC	MAX +	.0469 X 35/085 HGT +	
LOU	MAX	R = .91828	STANDARD ERROR =	5.47557	REDUCTION OF VARIANCE =	.84324	STD. DEV. OF PND.	13.82946
LOU	MAX	= -307.9953 +	.0929 X 40/090 THK +		.3337 X CBI	MAX +	.0272 X 35/085 HGT +	
ORF	MAX	R = .90035	STANDARD ERROR =	5.51244	REDUCTION OF VARIANCE =	.81064	STD. DEV. OF PND.	12.66768
ORF	MAX	= -154.0536 +	.5401 X ORF	MIN +	.0787 X 40/080 THK +	-.0663 X 45/075 HGT +	.0617 X 35/075 HGT +	
			.0410 X 45/075 THK +		-.0482 X 30/080 THK +			
RIC	MAX	R = .89259	STANDARD ERROR =	5.92022	REDUCTION OF VARIANCE =	.79672	STD. DEV. OF PND.	13.13083
RIC	MAX	= -240.9043 +	.5774 X DCA	MIN +	.2752 X IND	MAX +	.0564 X 30/080 HGT +	-.2950 X TLH
			.0676 X 40/080 THK +		-.0299 X 45/075 HGT +			
ROA	MAX	R = .89414	STANDARD ERROR =	5.90733	REDUCTION OF VARIANCE =	.79949	STD. DEV. OF PND.	13.19226
ROA	MAX	= -296.6961 +	.3851 X DCA	MIN +	.0659 X 35/085 HGT +	.0810 X 40/080 THK +	-.0322 X 45/075 HGT +	
			.2423 X LOU	MAX +	-.2302 X TLH	MIN +		
HAT	MAX	R = .88654	STANDARD ERROR =	4.22087	REDUCTION OF VARIANCE =	.78595	STD. DEV. OF PND.	9.12307
HAT	MAX	= -161.3159 +	.0459 X 35/075 THK +		.2722 X DCA	MIN +	.1982 X BNA	MAX +
							.0217 X 35/065 HGT +	
RDU	MAX	R = .89688	STANDARD ERROR =	5.40640	REDUCTION OF VARIANCE =	.80439	STD. DEV. OF PND.	12.22406
RDU	MAX	= -249.8500 +	.2342 X BNA	MAX +	.3674 X DCA	MIN +	.0889 X 35/085 HGT +	-.0715 X 40/080 HGT +
			.0794 X 40/080 THK +					
GSO	MAX	R = .89506	STANDARD ERROR =	5.43180	REDUCTION OF VARIANCE =	.80113	STD. DEV. OF PND.	12.18033
GSO	MAX	= -203.8067 +	.2266 X MEM	MAX +	.4394 X DCA	MIN +	.0535 X 35/085 HGT +	-.0387 X 45/075 HGT +
			.0643 X 40/080 THK +					
TYS	MAX	R = .91136	STANDARD ERROR =	4.88119	REDUCTION OF VARIANCE =	.83058	STD. DEV. OF PND.	11.85879
TYS	MAX	= -341.6765 +	.0659 X 35/085 THK +		.0417 X 40/090 THK +		.2700 X BNA	MAX +
							.0249 X 35/085 HGT +	
BNA	MAX	R = .90721	STANDARD ERROR =	5.27555	REDUCTION OF VARIANCE =	.82303	STD. DEV. OF PND.	12.54071
BNA	MAX	= -288.6441 +	.0971 X 40/090 THK +		.3004 X FSM	MAX +	.0518 X 35/085 HGT +	-.0348 X 40/090 HGT +
MEM	MAX	R = .90658	STANDARD ERROR =	5.08091	REDUCTION OF VARIANCE =	.82188	STD. DEV. OF PND.	12.03901
MEM	MAX	= -305.7107 +	.0676 X 35/095 THK +		.2754 X FSM	MAX +	.0541 X 40/090 THK +	
LIT	MAX	R = .87784	STANDARD ERROR =	5.82271	REDUCTION OF VARIANCE =	.77060	STD. DEV. OF PND.	12.15705
LIT	MAX	= -225.7975 +	.0925 X 35/095 THK +		.2787 X ICT	MAX +	.1611 X PIT	MIN +
FSM	MAX	R = .88138	STANDARD ERROR =	6.13298	REDUCTION OF VARIANCE =	.77684	STD. DEV. OF PND.	12.98252
FSM	MAX	= -325.0642 +	.0804 X 35/095 THK +		.2546 X DDC	MAX +	.0489 X 40/100 THK +	
CHS	MAX	R = .87800	STANDARD ERROR =	4.62235	REDUCTION OF VARIANCE =	.77089	STD. DEV. OF PND.	9.65699
CHS	MAX	= -226.4050 +	.0528 X 35/075 THK +		.1903 X LIT	MAX +	.2027 X AOS	MAX +
							.0400 X 35/085 THK +	
CLT	MAX	R = .88668	STANDARD ERROR =	5.29599	REDUCTION OF VARIANCE =	.78621	STD. DEV. OF PND.	11.45390
CLT	MAX	= -197.9375 +	.2784 X BNA	MAX +	.3669 X DCA	MIN +	.0988 X 35/085 HGT +	-.0735 X 40/080 HGT +
			.0522 X 40/080 THK +					

AGS MAX R = .87702 STANDARD ERROR = 5.09565 REDUCTION OF VARIANCE = .76916 STD. DEV. OF PND. 10.60575
 AGS MAX = -159.3927 + .0673 X 35/085 THK + .2419 X LIT MAX + .2392 X AGS MAX + -.4013 X MGM MIN +
 .4477 X ATL MIN +

AHN MAX R = .87245 STANDARD ERROR = 5.18928 REDUCTION OF VARIANCE = .76118 STD. DEV. OF PND. 10.61861
 AHN MAX = -134.9195 + .3393 X ATL MAX + .2269 X LIT MAX + .0577 X 35/085 THK + -.4725 X MGM MIN +
 .4445 X ATL MIN +

ATL MAX R = .88805 STANDARD ERROR = 5.02197 REDUCTION OF VARIANCE = .78863 STD. DEV. OF PND. 10.92315
 ATL MAX = -286.5270 + .0751 X 35/085 THK + .1729 X FSM MAX + .5910 X ATL MIN + -.4864 X MGM MIN +
 .0367 X 30/090 HGT + .1480 X ALB MIN +

BHM MAX R = .88380 STANDARD ERROR = 5.01126 REDUCTION OF VARIANCE = .78110 STD. DEV. OF PND. 10.71081
 BHM MAX = -321.8873 + .0705 X 35/085 THK + .0584 X 35/095 THK + .2138 X LIT MAX +

JAN MAX R = .89521 STANDARD ERROR = 4.77326 REDUCTION OF VARIANCE = .80141 STD. DEV. OF PND. 10.71102
 JAN MAX = -317.7006 + .0909 X 35/095 THK + .2543 X SHV MAX + .0358 X 35/085 THK +

SHV MAX R = .87339 STANDARD ERROR = 5.18924 REDUCTION OF VARIANCE = .76281 STD. DEV. OF PND. 10.65504
 SHV MAX = -253.4862 + .1040 X 35/095 THK + .2830 X FTW MAX +

JAX MAX R = .86913 STANDARD ERROR = 4.30915 REDUCTION OF VARIANCE = .75538 STD. DEV. OF PND. 8.71261
 JAX MAX = -171.5522 + .0696 X 35/085 THK + .2481 X CHS MIN + .2332 X MSY MAX + -.0243 X 40/080 HGT +
 .0285 X 30/080 HGT +

TLH MAX R = .87001 STANDARD ERROR = 4.10388 REDUCTION OF VARIANCE = .75692 STD. DEV. OF PND. 8.32380
 TLH MAX = -211.5561 + .0630 X 35/085 THK + .2511 X MOB MAX + .1879 X HOU MAX + .0226 X 30/090 HGT +

MGM MAX R = .88487 STANDARD ERROR = 4.65756 REDUCTION OF VARIANCE = .78299 STD. DEV. OF PND. 9.99815
 MGM MAX = -285.5057 + .0787 X 35/085 THK + .2538 X SHV MAX + .0374 X 35/095 THK +

MOB MAX R = .87551 STANDARD ERROR = 3.96444 REDUCTION OF VARIANCE = .76652 STD. DEV. OF PND. 8.20462
 MOB MAX = -168.0586 + .0417 X 35/085 THK + .3159 X HOU MAX + .0285 X 35/105 THK + .2275 X MOB MIN +

MSY MAX R = .89425 STANDARD ERROR = 3.68419 REDUCTION OF VARIANCE = .79969 STD. DEV. OF PND. 8.23170
 MSY MAX = -203.6001 + .2550 X MOB MIN + .0476 X 30/100 THK + .2194 X HOU MAX + .0358 X 30/090 THK +

LCH MAX R = .86889 STANDARD ERROR = 4.11112 REDUCTION OF VARIANCE = .75497 STD. DEV. OF PND. 8.30521
 LCH MAX = -156.3478 + .0669 X 30/100 THK + .2481 X SHV MAX + .2289 X MSY MIN +

HOU MAX R = .87197 STANDARD ERROR = 4.13206 REDUCTION OF VARIANCE = .76033 STD. DEV. OF PND. 8.44032
 HOU MAX = -86.5781 + .0650 X 30/100 THK + .1654 X SAT MAX + .3200 X LCH MIN + -.0223 X 35/085 HGT +
 .0904 X DDC MAX +

CRP MAX R = .86119 STANDARD ERROR = 4.16480 REDUCTION OF VARIANCE = .74165 STD. DEV. OF PND. 8.19389
 CRP MAX = -148.1462 + .0938 X 30/100 THK + -.0499 X 35/095 HGT + .2644 X LCH MIN + .1390 X LBF MIN +
 .0256 X 30/110 HGT +

BRO MAX R = .87226 STANDARD ERROR = 3.71690 REDUCTION OF VARIANCE = .76084 STD. DEV. OF PND. 7.60045
 BRO MAX = -125.7614 + .0879 X 30/100 THK + .2391 X CRP MAX + -.0607 X 30/100 HGT + .0331 X 30/110 HGT +
 .1831 X BRO MIN +

ORL MAX R = .87104 STANDARD ERROR = 3.63114 REDUCTION OF VARIANCE = .75872 STD. DEV. OF PND. 7.39229
 ORL MAX = -265.7889 + .0518 X 30/080 THK + .0554 X 30/090 THK + .1751 X MSY MAX + .1689 X ORL MAX +

TPA MAX R = .88225 STANDARD ERROR = 3.18678 REDUCTION OF VARIANCE = .77836 STD. DEV. OF PND. 6.76907
 TPA MAX = -169.4541 + .0518 X 30/090 THK + .2622 X TPA MAX + .0200 X 35/075 HGT + .1599 X MOB MAX +

MIA MAX R = .83932 STANDARD ERROR = 2.49134 REDUCTION OF VARIANCE = .70445 STD. DEV. OF PND. 4.58270
 MIA MAX = -197.6597 + .0551 X 30/080 THK + .3978 X EYW MIN + -.0259 X 30/080 HGT + .0184 X 30/100 HGT +
 .0377 X 25/085 THK + -.0550 X BNA MIN +

EYW MAX R = .87383 STANDARD ERROR = 2.17893 REDUCTION OF VARIANCE = .76359 STD. DEV. OF PND. 4.48133
 EYW MAX = -128.4524 + .3438 X EYW MIN + .0331 X 25/085 THK + .0240 X 30/080 THK + .1738 X EYW MAX +

Southeast Min

March-April

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

SBY	MIN	R=	.87946	STANDARD ERROR =	4.75568	REDUCTION OF VARIANCE =	.77346	STD. DEV. OF PND.	9.99163
SBY	MIN	=	-167.8884 +	.3340 X CMH	MIN +	.0495 X 45/075 THK +	.1414 X ORF	MAX +	.0154 X 35/065 HGT +
DCA	MIN	R=	.90735	STANDARD ERROR =	3.93520	REDUCTION OF VARIANCE =	.82329	STD. DEV. OF PND.	9.36135
DCA	MIN	=	-107.8811 +	.3067 X IND	MIN +	.2140 X DCA	MAX +	.0446 X 45/075 THK +	
CRW	MIN	R=	.88395	STANDARD ERROR =	5.33064	REDUCTION OF VARIANCE =	.78137	STD. DEV. OF PND.	11.40049
CRW	MIN	=	-94.8630 +	.5392 X STL	MIN +	.0427 X 40/080 THK +	-.0236 X 45/095 HGT +	.0203 X 45/075 HGT +	
HTS	MIN	R=	.88452	STANDARD ERROR =	5.07295	REDUCTION OF VARIANCE =	.78237	STD. DEV. OF PND.	10.87427
HTS	MIN	=	-26.1813 +	.4044 X CBI	MIN +	.3297 X LOU	MIN +	.0384 X 40/080 HGT +	-.0262 X 40/090 HGT +
LOU	MIN	R=	.89669	STANDARD ERROR =	4.99438	REDUCTION OF VARIANCE =	.80406	STD. DEV. OF PND.	11.28285
LOU	MIN	=	-36.3212 +	.6792 X CBI	MIN +	.0345 X 40/080 HGT +	-.0177 X 50/100 HGT +		
ORF	MIN	R=	.89762	STANDARD ERROR =	4.06461	REDUCTION OF VARIANCE =	.80573	STD. DEV. OF PND.	9.22173
ORF	MIN	=	-140.8028 +	.3314 X CMH	MIN +	.0384 X 40/080 THK +	.0180 X 35/065 HGT +	.1248 X ORF	MAX +
RIC	MIN	R=	.90528	STANDARD ERROR =	4.41240	REDUCTION OF VARIANCE =	.81953	STD. DEV. OF PND.	10.38666
RIC	MIN	=	-171.8898 +	.3192 X LOU	MIN +	.0423 X 40/080 THK +	.0233 X 35/065 HGT +	.2215 X BUF	MIN +
ROA	MIN	R=	.90237	STANDARD ERROR =	4.36373	REDUCTION OF VARIANCE =	.81427	STD. DEV. OF PND.	10.12555
ROA	MIN	=	-137.8559 +	.3640 X IND	MIN +	.1761 X RIC	MAX +	.0285 X 40/080 THK +	.0246 X 35/085 THK +
HAT	MIN	R=	.87192	STANDARD ERROR =	4.54813	REDUCTION OF VARIANCE =	.76024	STD. DEV. OF PND.	9.28841
HAT	MIN	=	-164.0097 +	.2158 X LOU	MIN +	.0262 X 35/065 HGT +	.0390 X 40/080 THK +	.2397 X HAT	MIN +
RDU	MIN	R=	.90895	STANDARD ERROR =	4.48080	REDUCTION OF VARIANCE =	.82619	STD. DEV. OF PND.	10.74768
RDU	MIN	=	-286.1580 +	.3803 X LOU	MIN +	.0358 X 35/085 THK +	.0413 X 40/080 THK +	.0285 X 30/070 HGT +	
GSO	MIN	R=	.90551	STANDARD ERROR =	4.50094	REDUCTION OF VARIANCE =	.81995	STD. DEV. OF PND.	10.60736
GSO	MIN	=	-151.6931 +	.3186 X MEM	MIN +	.2929 X PIT	MIN +	.0381 X 35/085 THK +	.0187 X 40/070 HGT +
TYS	MIN	R=	.89621	STANDARD ERROR =	4.68670	REDUCTION OF VARIANCE =	.80320	STD. DEV. OF PND.	10.56461
TYS	MIN	=	-176.8608 +	.2870 X STL	MIN +	.0492 X 35/085 THK +	.0174 X 35/075 HGT +	.2437 X MEM	MIN +
BNA	MIN	R=	.90364	STANDARD ERROR =	4.87792	REDUCTION OF VARIANCE =	.81657	STD. DEV. OF PND.	11.38944
BNA	MIN	=	-225.1388 +	.3663 X CBI	MIN +	.1276 X 35/085 THK +	.0308 X 40/080 HGT +	.0558 X 35/095 THK +	-.0272 X 35/095 HGT +
MEM	MIN	R=	.91264	STANDARD ERROR =	4.50878	REDUCTION OF VARIANCE =	.83290	STD. DEV. OF PND.	11.02997
MEM	MIN	=	-248.5736 +	.3843 X ICT	MIN +	.0535 X 35/095 THK +	.0390 X 30/080 HGT +	-.0203 X 40/110 HGT +	.0220 X 45/085 THK +
LIT	MIN	R=	.90810	STANDARD ERROR =	4.38790	REDUCTION OF VARIANCE =	.82464	STD. DEV. OF PND.	10.47827
LIT	MIN	=	-205.7107 +	.4222 X OKC	MIN +	.0600 X 35/095 THK +	.0207 X 45/085 THK +		
FSM	MIN	R=	.90582	STANDARD ERROR =	4.57838	REDUCTION OF VARIANCE =	.82052	STD. DEV. OF PND.	10.80689
FSM	MIN	=	-121.3905 +	.3808 X DDC	MIN +	.0505 X 35/095 THK +	.1936 X FSM	MIN +	-.0157 X 40/110 HGT +
CHS	MIN	R=	.89989	STANDARD ERROR =	4.24779	REDUCTION OF VARIANCE =	.80980	STD. DEV. OF PND.	9.74004
CHS	MIN	=	-168.5953 +	.3064 X BHM	MIN +	.0715 X 35/085 THK +	.0243 X 35/075 HGT +	-.0292 X 35/085 HGT +	.1665 X CHS
CLT	MIN	R=	.90492	STANDARD ERROR =	4.45737	REDUCTION OF VARIANCE =	.81888	STD. DEV. OF PND.	10.47369
CLT	MIN	=	-180.2739 +	.3612 X BNA	MIN +	.0482 X 35/085 THK +	.0184 X 35/075 HGT +	.1720 X GSO	MAX +

AGS MIN R= .89245 STANDARD ERROR = 4.46469 REDUCTION OF VARIANCE = .79647 STD. DEV. OF PND. 9.89646
 AGS MIN = -148.1185 + .2436 X BHM MIN + .0381 X 35/085 THK + .0180 X 35/075 HGT + .1831 X AGS MIN +
 .1827 X LIT MIN +

AHN MIN R= .90025 STANDARD ERROR = 4.41968 REDUCTION OF VARIANCE = .81046 STD. DEV. OF PND. 10.15169
 AHN MIN = -223.6809 + .3801 X BHM MIN + .0554 X 35/085 THK + .0308 X 40/080 THK +

ATL MIN R= .90585 STANDARD ERROR = 4.19650 REDUCTION OF VARIANCE = .82056 STD. DEV. OF PND. 9.90663
 ATL MIN = -229.4792 + .0620 X 35/085 THK + .0262 X 40/090 THK + .1918 X ATL MIN + .2171 X LIT MIN +

BHM MIN R= .88350 STANDARD ERROR = 5.14442 REDUCTION OF VARIANCE = .78057 STD. DEV. OF PND. 10.98222
 BHM MIN = -129.7535 + .4371 X FSM MIN + .0577 X 35/085 THK + -.0282 X 40/110 HGT + .0243 X 40/080 HGT +

JAN MIN R= .89911 STANDARD ERROR = 4.67894 REDUCTION OF VARIANCE = .80841 STD. DEV. OF PND. 10.68951
 JAN MIN = -87.3867 + .0400 X 35/095 THK + .2572 X JAN MIN + .3185 X FTW MIN + -.0292 X 40/110 HGT +
 .0256 X 35/085 HGT +

SHV MIN R= .90827 STANDARD ERROR = 4.30686 REDUCTION OF VARIANCE = .82496 STD. DEV. OF PND. 10.29421
 SHV MIN = -181.6552 + .0607 X 35/095 THK + .4007 X OKC MIN + -.0236 X 40/110 HGT + .0348 X 30/090 HGT +

JAX MIN R= .89664 STANDARD ERROR = 4.08406 REDUCTION OF VARIANCE = .80397 STD. DEV. OF PND. 9.22418
 JAX MIN = -33.2168 + .3913 X MOB MIN + .0361 X 35/085 THK + .0246 X 35/075 HGT + -.0394 X 25/095 HGT +
 .1702 X JAX MIN +

TLH MIN R= .88770 STANDARD ERROR = 4.38872 REDUCTION OF VARIANCE = .78801 STD. DEV. OF PND. 9.53186
 TLH MIN = -113.8908 + .2893 X MOB MIN + .0262 X 40/080 HGT + .0689 X 30/090 THK + -.0459 X 25/095 HGT +
 .2125 X TLH MIN +

MGM MIN R= .88713 STANDARD ERROR = 4.56568 REDUCTION OF VARIANCE = .78699 STD. DEV. OF PND. 9.89257
 MGM MIN = -127.4025 + .4202 X JAN MIN + .0453 X 35/085 THK + .0203 X 40/090 HGT + -.0459 X 30/100 HGT +
 .0348 X 30/100 THK +

MOB MIN R= .89636 STANDARD ERROR = 4.34636 REDUCTION OF VARIANCE = .80347 STD. DEV. OF PND. 9.80410
 MOB MIN = -45.6532 + .4135 X MOB MIN + .0331 X 35/095 THK + -.0328 X 35/105 HGT + .2304 X FTW MIN +
 .0223 X 35/085 HGT +

MSY MIN R= .86598 STANDARD ERROR = 4.67100 REDUCTION OF VARIANCE = .74993 STD. DEV. OF PND. 9.34067
 MSY MIN = -112.2615 + .4000 X MSY MIN + .0381 X 35/095 THK + -.0266 X 35/105 HGT + .2258 X FTW MIN +
 .0331 X 25/085 HGT +

LCH MIN R= .88422 STANDARD ERROR = 4.44093 REDUCTION OF VARIANCE = .78184 STD. DEV. OF PND. 9.50798
 LCH MIN = -68.4801 + .0532 X 35/095 THK + .3663 X HOU MIN + -.0200 X 40/110 HGT + .1764 X OKC MIN +

HOU MIN R= .89139 STANDARD ERROR = 4.37852 REDUCTION OF VARIANCE = .79458 STD. DEV. OF PND. 9.66070
 HOU MIN = -127.8553 + .0367 X 35/095 THK + .3254 X HOU MIN + .2760 X AMA MIN + -.0213 X 40/110 HGT +
 .0361 X 30/090 HGT +

CRP MIN R= .87937 STANDARD ERROR = 4.44610 REDUCTION OF VARIANCE = .77329 STD. DEV. OF PND. 9.33777
 CRP MIN = -196.9547 + -.0095 X 35/095 THK + .2960 X CRP MIN + .0463 X 35/105 THK + -.0492 X 30/110 HGT +
 .0466 X 30/090 HGT + .1761 X DEN MIN + .0436 X 30/100 THK +

BRO MIN R= .87569 STANDARD ERROR = 4.07504 REDUCTION OF VARIANCE = .76683 STD. DEV. OF PND. 8.43910
 BRO MIN = -136.1618 + .0522 X 30/100 THK + .4280 X BRO MIN + .0505 X 35/105 THK + -.0463 X 30/110 HGT +
 .0404 X 30/090 HGT + -.0394 X 30/090 THK +

ORL MIN R= .88983 STANDARD ERROR = 3.39964 REDUCTION OF VARIANCE = .79180 STD. DEV. OF PND. 7.45065
 ORL MIN = -95.8688 + .4475 X ORL MIN + .0725 X 30/090 THK + .0203 X 35/075 HGT + -.0479 X 25/095 HGT +

TPA MIN R= .87698 STANDARD ERROR = 3.52237 REDUCTION OF VARIANCE = .76909 STD. DEV. OF PND. 7.33018
 TPA MIN = -36.9096 + .3364 X TPA MIN + .0568 X 30/090 THK + .0197 X 35/075 HGT + -.0538 X 25/095 HGT +
 .2009 X TPA MAX +

MIA MIN R= .88658 STANDARD ERROR = 3.28736 REDUCTION OF VARIANCE = .78603 STD. DEV. OF PND. 7.10677
 MIA MIN = -28.8883 + .4772 X MIA MIN + .0305 X 30/080 HGT + -.0637 X 25/095 HGT + .0463 X 25/095 THK +
 .0279 X 35/075 HGT + -.0197 X 35/075 THK +

EYW MIN R= .86257 STANDARD ERROR = 2.46617 REDUCTION OF VARIANCE = .74403 STD. DEV. OF PND. 4.87448
 EYW MIN = -62.9953 + .5486 X EYW MIN + .0072 X 30/090 THK + .0230 X 30/080 HGT + -.0282 X 25/095 HGT +
 .0299 X 25/095 THK +

Northeast Max

March-April

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

CAR	MAX	R= .87733	STANDARD ERROR =	5.25745	REDUCTION OF VARIANCE =	.76970	STD. DEV. OF PND.	10.95552
CAR	MAX	= -166.0693 +	.3358 X QB	MAX +	.0666 X 50/070 THK +	.2096 X SSM	MAX +	
SSM	MAX	R= .90424	STANDARD ERROR =	5.22193	REDUCTION OF VARIANCE =	.81765	STD. DEV. OF PND.	12.22867
SSM	MAX	= -220.6321 +	.4351 X QT	MAX +	.0482 X 45/085 THK +	.0387 X 50/090 THK +		
PWM	MAX	R= .87831	STANDARD ERROR =	4.91613	REDUCTION OF VARIANCE =	.77142	STD. DEV. OF PND.	10.28273
PWM	MAX	= -102.8013 +	.6157 X BOS	MIN +	.0056 X 40/080 HGT +	.0584 X 50/070 THK +	-.0633 X 50/070 HGT +	
			.0594 X 45/075 HGT +		-.0164 X 35/065 HGT +	.0855 X DAY OF YR +		
BTV	MAX	R= .90809	STANDARD ERROR =	5.40461	REDUCTION OF VARIANCE =	.82462	STD. DEV. OF PND.	12.90542
BTV	MAX	= -229.5034 +	.0886 X 45/075 THK +		.2983 X YB	MAX +	.1591 X DAY OF YR +	
SYR	MAX	R= .91751	STANDARD ERROR =	5.54058	REDUCTION OF VARIANCE =	.84183	STD. DEV. OF PND.	13.93131
SYR	MAX	= -300.4301 +	.0840 X 45/075 THK +		.4115 X GRB	MAX +	.0318 X 40/070 HGT +	
BUF	MAX	R= .92551	STANDARD ERROR =	5.22706	REDUCTION OF VARIANCE =	.85657	STD. DEV. OF PND.	13.80177
BUF	MAX	= -258.3870 +	.0863 X 45/085 THK +		.3752 X GRR	MAX +	.0535 X 45/075 HGT +	-.0381 X 45/085 HGT +
DET	MAX	R= .92011	STANDARD ERROR =	5.46052	REDUCTION OF VARIANCE =	.84661	STD. DEV. OF PND.	13.94214
DET	MAX	= -184.3288 +	.0735 X 45/085 THK +		.2996 X MLI	MAX +	.3722 X DET	MIN +
FNT	MAX	R= .92751	STANDARD ERROR =	5.28005	REDUCTION OF VARIANCE =	.86027	STD. DEV. OF PND.	14.12521
FNT	MAX	= -253.4857 +	.0997 X 45/085 THK +		.2628 X GRB	MAX +	.1933 X DSM	MAX +
GRR	MAX	R= .92574	STANDARD ERROR =	5.26801	REDUCTION OF VARIANCE =	.85699	STD. DEV. OF PND.	13.93021
GRR	MAX	= -229.9684 +	.0915 X 45/085 THK +		.2739 X MSP	MAX +	.1737 X OMA	MAX +
MKE	MAX	R= .91439	STANDARD ERROR =	5.51017	REDUCTION OF VARIANCE =	.83610	STD. DEV. OF PND.	13.61058
MKE	MAX	= -155.4775 +	.0840 X 45/085 THK +		.2189 X HON	MAX +	.0427 X 40/090 HGT +	-.0305 X 50/090 HGT +
			.3748 X MKE	MIN +	-.0325 X 35/085 THK +			
GRB	MAX	R= .90733	STANDARD ERROR =	5.81761	REDUCTION OF VARIANCE =	.82325	STD. DEV. OF PND.	13.83757
GRB	MAX	= -140.3311 +	.3730 X GRB	MAX +	.0564 X 50/090 THK +	.2602 X HON	MAX +	
MSN	MAX	R= .91373	STANDARD ERROR =	5.96184	REDUCTION OF VARIANCE =	.83491	STD. DEV. OF PND.	14.67305
MSN	MAX	= -203.0745 +	.0797 X 45/095 THK +		.3621 X GRB	MAX +	.2165 X HON	MAX +
ACK	MAX	R= .86399	STANDARD ERROR =	3.59038	REDUCTION OF VARIANCE =	.74647	STD. DEV. OF PND.	7.13066
ACK	MAX	= 17.4466 +	.3622 X NYC	MIN +	.2578 X BOS	MIN +	.1186 X BOS	MAX +
BOS	MAX	R= .86287	STANDARD ERROR =	5.68035	REDUCTION OF VARIANCE =	.74455	STD. DEV. OF PND.	11.23880
BOS	MAX	= -110.4455 +	.6696 X BOS	MIN +	.0397 X 40/080 HGT +	-.0417 X 50/070 HGT +	.0446 X 45/075 THK +	
			.0427 X 45/065 THK +		-.0367 X 35/065 THK +			
HFD	MAX	R= .87917	STANDARD ERROR =	5.89934	REDUCTION OF VARIANCE =	.77294	STD. DEV. OF PND.	12.38028
HFD	MAX	= -159.3268 +	.6684 X NYC	MIN +	.2235 X GRB	MAX +	.0292 X 40/080 HGT +	.0312 X 45/065 THK +
ALB	MAX	R= .90704	STANDARD ERROR =	5.55562	REDUCTION OF VARIANCE =	.82273	STD. DEV. OF PND.	13.19512
ALB	MAX	= -202.0484 +	.5229 X NYC	MIN +	.2619 X GRB	MAX +	.0564 X 45/075 THK +	.0203 X 40/080 HGT +
NYC	MAX	R= .90048	STANDARD ERROR =	4.90579	REDUCTION OF VARIANCE =	.81086	STD. DEV. OF PND.	11.28036
NYC	MAX	= -131.2625 +	.7071 X NYC	MIN +	.1931 X DET	MAX +	.0328 X 40/080 HGT +	-.0285 X 50/070 HGT +
			.0495 X 45/075 THK +		-.1844 X CRW	MIN +		
PHL	MAX	R= .89737	STANDARD ERROR =	5.55062	REDUCTION OF VARIANCE =	.80527	STD. DEV. OF PND.	12.57832
PHL	MAX	= -141.9619 +	.5089 X NYC	MIN +	.2548 X DET	MAX +	.0331 X 40/080 HGT +	-.0335 X 50/070 HGT +
			.0581 X 45/075 THK +					

IPT MAX R= .90505 STANDARD ERROR = 5.56348 REDUCTION OF VARIANCE = .81912 STD. DEV. OF PND. 13.08122
 IPT MAX = -211.4940 + .3151 X CHI MAX + .5599 X NYC MIN + .0410 X 40/080 HGT + .0640 X 45/075 THK +
 -.0236 X 50/070 HGT + -.2064 X CRW MIN +

PIT MAX R= .92980 STANDARD ERROR = 5.25056 REDUCTION OF VARIANCE = .86453 STD. DEV. OF PND. 14.26555
 PIT MAX = -340.1538 + .0522 X 40/080 THK + .2825 X PIA MAX + .0574 X 40/080 HGT + .0581 X 45/085 THK +

CLE MAX R= .93418 STANDARD ERROR = 5.18273 REDUCTION OF VARIANCE = .87270 STD. DEV. OF PND. 14.52575
 CLE MAX = -329.7455 + .1079 X 45/085 THK + .3047 X PIA MAX + .0666 X 40/080 HGT + -.0469 X 45/085 HGT +

CMH MAX R= .91952 STANDARD ERROR = 5.51035 REDUCTION OF VARIANCE = .84552 STD. DEV. OF PND. 14.01991
 CMH MAX = -289.2635 + .0581 X 40/090 THK + .0548 X 40/080 THK + .2044 X CBI MAX + .2965 X DET MIN +

DAY MAX R= .92623 STANDARD ERROR = 5.25414 REDUCTION OF VARIANCE = .85790 STD. DEV. OF PND. 13.93808
 DAY MAX = -223.7885 + .0581 X 40/090 THK + .3993 X DET MIN + .2532 X CBI MAX + .0282 X 40/080 HGT +

CVG MAX R= .91633 STANDARD ERROR = 5.54950 REDUCTION OF VARIANCE = .83966 STD. DEV. OF PND. 13.85904
 CVG MAX = -347.8937 + .0863 X 40/090 THK + .0499 X 40/080 THK + .2574 X CBI MAX +

IND MAX R= .92647 STANDARD ERROR = 5.32925 REDUCTION OF VARIANCE = .85835 STD. DEV. OF PND. 14.15966
 IND MAX = -265.6208 + .1037 X 40/090 THK + .2484 X CBI MAX + .2735 X DET MIN +

CHI MAX R= .90640 STANDARD ERROR = 6.03928 REDUCTION OF VARIANCE = .82156 STD. DEV. OF PND. 14.29671
 CHI MAX = -314.2785 + .0751 X 45/085 THK + .3097 X OMA MAX + .0482 X 45/095 THK +

PIA MAX R= .91843 STANDARD ERROR = 5.83534 REDUCTION OF VARIANCE = .84352 STD. DEV. OF PND. 14.75131
 PIA MAX = -307.9858 + .0617 X 40/090 THK + .3530 X OMA MAX + .0584 X 45/095 THK +

MLI MAX R= .91956 STANDARD ERROR = 5.95224 REDUCTION OF VARIANCE = .84558 STD. DEV. OF PND. 15.14728
 MLI MAX = -235.7503 + .0922 X 45/095 THK + .3699 X OMA MAX + .2382 X DET MIN +

STL MAX R= .91371 STANDARD ERROR = 6.10905 REDUCTION OF VARIANCE = .83487 STD. DEV. OF PND. 15.03358
 STL MAX = -356.3544 + .0889 X 40/090 THK + .3364 X TOP MAX + .0489 X 40/100 THK +

CBI MAX R= .90863 STANDARD ERROR = 6.40923 REDUCTION OF VARIANCE = .82560 STD. DEV. OF PND. 15.34731
 CBI MAX = -405.9489 + .0646 X 40/090 THK + .0906 X 40/100 THK + .2928 X TOP MAX +

Northeast Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

CAR MIN R= .87337 STANDARD ERROR = 5.77679 REDUCTION OF VARIANCE = .76277 STD. DEV. OF PND. 11.86042
 CAR MIN = -285.2616 + .0830 X 50/070 THK + .2405 X QB MIN + .0213 X 50/060 THK + .1356 X DAY OF YR +

SSM MIN R= .90292 STANDARD ERROR = 5.10330 REDUCTION OF VARIANCE = .81527 STD. DEV. OF PND. 11.87365
 SSM MIN = -135.3835 + .3332 X DLH MIN + .0525 X 50/080 THK + .2621 X SSM MIN +

PWM MIN R= .85280 STANDARD ERROR = 5.14771 REDUCTION OF VARIANCE = .72727 STD. DEV. OF PND. 9.85699
 PWM MIN = -168.5796 + .0371 X 45/075 THK + .2587 X PWM MIN + .1987 X YB MIN + .0285 X 45/065 THK +

BTV MIN R= .86999 STANDARD ERROR = 5.69482 REDUCTION OF VARIANCE = .75688 STD. DEV. OF PND. 11.54975
 BTV MIN = -138.3100 + .0532 X 45/075 THK + .2841 X BTV MIN + .3375 X SSM MIN +

SYR MIN R= .88396 STANDARD ERROR = 5.02330 REDUCTION OF VARIANCE = .78139 STD. DEV. OF PND. 10.74372
 SYR MIN = -155.3159 + .0610 X 45/075 THK + .3412 X SSM MIN + .1408 X MKE MAX +

BUF MIN R= .90110 STANDARD ERROR = 4.43420 REDUCTION OF VARIANCE = .81198 STD. DEV. OF PND. 10.22624
 BUF MIN = -96.1314 + .2704 X MSN MIN + .0607 X 45/085 THK + .2143 X BTV MAX + -.0207 X 45/095 HGT +

DET MIN R= .91210 STANDARD ERROR = 4.15521 REDUCTION OF VARIANCE = .83193 STD. DEV. OF PND. 10.13566
 DET MIN = -83.7887 + .0587 X 45/085 THK + .3035 X MSN MIN + -.0220 X 50/100 HGT + .1939 X QT MAX +

FNT MIN R= .89379 STANDARD ERROR = 4.97048 REDUCTION OF VARIANCE = .79886 STD. DEV. OF PND. 11.08286
 FNT MIN = -99.0319 + .2826 X MSN MIN + .0627 X 45/085 THK + -.0210 X 50/100 HGT + .2072 X MSP MIN +

GRR MIN R= .89191 STANDARD ERROR = 4.90869 REDUCTION OF VARIANCE = .79550 STD. DEV. OF PND. 10.85483
 GRR MIN = -100.7243 + .0627 X 45/085 THK + .2710 X STC MIN + -.0197 X 50/110 HGT + .2038 X GRR MIN +

MKE MIN R= .89156 STANDARD ERROR = 4.60038 REDUCTION OF VARIANCE = .79488 STD. DEV. OF PND. 10.15767
 MKE MIN = -158.6901 + .2709 X DSM MIN + .1494 X INL MAX + .0420 X 45/085 THK + .0194 X 40/100 THK +

GRB MIN R= .91065 STANDARD ERROR = 4.90346 REDUCTION OF VARIANCE = .82928 STD. DEV. OF PND. 11.86754
 GRB MIN = -92.5316 + .2158 X FAR MIN + .4216 X GRB MIN + .0407 X 50/090 THK + -.0256 X 50/100 HGT +
 .0220 X 45/085 HGT +

MSN MIN R= .90767 STANDARD ERROR = 5.00272 REDUCTION OF VARIANCE = .82386 STD. DEV. OF PND. 11.92015
 MSN MIN = -231.6631 + .1411 X DSM MIN + .0479 X 50/090 THK + .0351 X 40/100 THK + .3041 X MSN MIN +
 .0318 X 45/085 HGT + -.0272 X 45/095 HGT +

ACK MIN R= .85198 STANDARD ERROR = 3.48078 REDUCTION OF VARIANCE = .72588 STD. DEV. OF PND. 6.64818
 ACK MIN = -116.5613 + .0374 X 45/075 THK + .2992 X ACK MIN + .0108 X 35/065 HGT + .1133 X SSM MIN +

BOS MIN R= .89512 STANDARD ERROR = 3.73304 REDUCTION OF VARIANCE = .80125 STD. DEV. OF PND. 8.37344
 BOS MIN = -116.9260 + .0489 X 45/075 THK + .3284 X BOS MIN + .1457 X YB MIN +

HFD MIN R= .87319 STANDARD ERROR = 4.56587 REDUCTION OF VARIANCE = .76247 STD. DEV. OF PND. 9.36835
 HFD MIN = -100.9481 + .0413 X 45/075 THK + .2660 X HFD MIN + .1509 X YB MIN + .1549 X DAY MIN +

ALB MIN R= .87425 STANDARD ERROR = 5.25261 REDUCTION OF VARIANCE = .76431 STD. DEV. OF PND. 10.81949
 ALB MIN = -118.0965 + .3619 X BUF MIN + .0469 X 45/075 THK + .2558 X SSM MIN +

NYC MIN R= .89687 STANDARD ERROR = 3.75393 REDUCTION OF VARIANCE = .80438 STD. DEV. OF PND. 8.48743
 NYC MIN = -122.2439 + .0495 X 45/075 THK + .3606 X NYC MIN + .0746 X STL MAX + .0939 X QT MAX +

PHL MIN R= .90169 STANDARD ERROR = 3.92259 REDUCTION OF VARIANCE = .81304 STD. DEV. OF PND. 9.07194
 PHL MIN = -96.7177 + .2006 X PIT MIN + .0410 X 45/075 THK + .1639 X STL MIN + .1850 X SYR MIN +

IPT MIN R= .89427 STANDARD ERROR = 4.45532 REDUCTION OF VARIANCE = .79972 STD. DEV. OF PND. 9.95545
 IPT MIN = -136.8475 + .4011 X DAY MIN + .0525 X 45/075 THK + .0912 X DAY OF YR +

PIT MIN R= .90104 STANDARD ERROR = 4.91045 REDUCTION OF VARIANCE = .81188 STD. DEV. OF PND. 11.32153
 PIT MIN = -186.9877 + .4464 X PIA MIN + .0676 X 45/085 THK + .0233 X 35/065 HGT + -.0187 X 45/095 HGT +

CLE MIN R= .89587 STANDARD ERROR = 4.79815 REDUCTION OF VARIANCE = .80258 STD. DEV. OF PND. 10.79883
 CLE MIN = -67.5631 + .3669 X PIA MIN + .0541 X 45/085 THK + -.0236 X 50/100 HGT + .1712 X MSP MIN +

CMH MIN R= .90079 STANDARD ERROR = 4.78143 REDUCTION OF VARIANCE = .81143 STD. DEV. OF PND. 11.01075
 CMH MIN = -91.2637 + .5372 X PIA MIN + .0367 X 45/085 THK + -.0272 X 45/095 HGT + .0285 X 40/080 HGT +

DAY MIN R= .91435 STANDARD ERROR = 4.59586 REDUCTION OF VARIANCE = .83603 STD. DEV. OF PND. 11.34965
 DAY MIN = -194.6756 + .4171 X CBI MIN + .0692 X 45/085 THK + .0236 X 35/085 HGT + -.0184 X 50/100 HGT +

CVG MIN R= .90832 STANDARD ERROR = 4.79690 REDUCTION OF VARIANCE = .82505 STD. DEV. OF PND. 11.46848
 CVG MIN = -112.4713 + .4963 X CBI MIN + .0430 X 45/085 THK + -.0240 X 50/110 HGT + .0272 X 40/080 HGT +

IND MIN R= .90278 STANDARD ERROR = 4.91149 REDUCTION OF VARIANCE = .81502 STD. DEV. OF PND. 11.41947
IND MIN = -214.2884 + .4768 X CBI MIN + .0509 X 45/085 THK + .0289 X 35/085 HGT +

CHI MIN R= .91308 STANDARD ERROR = 4.40619 REDUCTION OF VARIANCE = .83371 STD. DEV. OF PND. 10.80520
CHI MIN = -154.3780 + .1962 X OMA MIN + .0020 X 45/085 THK + .0233 X 40/100 THK + .0397 X 45/085 HGT +
-.0410 X 45/095 HGT + .2818 X CHI MIN + .0364 X 45/095 THK +

PIA MIN R= .92258 STANDARD ERROR = 4.48567 REDUCTION OF VARIANCE = .85115 STD. DEV. OF PND. 11.62673
PIA MIN = -231.4317 + .2648 X MKC MIN + .0417 X 45/085 THK + .0417 X 40/100 THK + .0266 X 35/085 HGT +
.1389 X WG MAX + -.0230 X 40/100 HGT +

MLI MIN R= .90641 STANDARD ERROR = 5.10560 REDUCTION OF VARIANCE = .82158 STD. DEV. OF PND. 12.08723
MLI MIN = -256.8883 + .4016 X DSM MIN + .0453 X 40/100 THK + .0456 X 50/090 THK + .0285 X 35/085 HGT +
-.0226 X 40/100 HGT +

STL MIN R= .91702 STANDARD ERROR = 4.67859 REDUCTION OF VARIANCE = .84093 STD. DEV. OF PND. 11.73049
STL MIN = -196.2376 + .1734 X OMA MAX + .3504 X CBI MIN + .0282 X 40/080 HGT + .0443 X 40/100 THK +

CBI MIN R= .91663 STANDARD ERROR = 4.81650 REDUCTION OF VARIANCE = .84021 STD. DEV. OF PND. 12.04909
CBI MIN = -316.1147 + .3630 X OMA MIN + .0443 X 40/100 THK + .0371 X 45/095 THK + .0354 X 35/085 HGT +

Northwest Max

May-June

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL	MAX	R=	.87121	STANDARD ERROR =	5.39334	REDUCTION OF VARIANCE =	.75901	STD. DEV. OF PND.	10.98653
INL	MAX	=	-339.5520	+	.0728 X 50/100 THK	+	.0407 X 50/090 THK	+	.2052 X W9
									MAX
									+
									.0433 X 45/095 HGT
									+
									-.0230 X 55/105 HGT
									+
DLH	MAX	R=	.86200	STANDARD ERROR =	5.67827	REDUCTION OF VARIANCE =	.74305	STD. DEV. OF PND.	11.20192
DLH	MAX	=	-294.4033	+	.3900 X DLH	MIN	+	.0325 X 50/100 THK	+
									-.0226 X 55/095 HGT
									+
									.0781 X 45/095 HGT
									+
									-.0446 X 50/090 HGT
									+
									.0742 X 50/090 THK
									+
									-.0184 X 55/095 HGT
									+
STC	MAX	R=	.86840	STANDARD ERROR =	5.21024	REDUCTION OF VARIANCE =	.75413	STD. DEV. OF PND.	10.50757
STC	MAX	=	-264.6633	+	.1119 X 45/095 THK	+	.0623 X 50/100 THK	+	.2232 X STC
									MAX
									+
									-.0459 X 40/090 THK
									+
									-.0184 X 55/095 HGT
									+
FAR	MAX	R=	.86015	STANDARD ERROR =	5.62176	REDUCTION OF VARIANCE =	.73986	STD. DEV. OF PND.	11.02222
FAR	MAX	=	-340.3658	+	.1270 X 50/100 THK	+	.2209 X FAR	MAX	+
									-.0276 X 55/095 HGT
									+
									.0351 X 45/095 HGT
									+
BIS	MAX	R=	.87697	STANDARD ERROR =	5.52131	REDUCTION OF VARIANCE =	.76907	STD. DEV. OF PND.	11.48954
BIS	MAX	=	-459.6042	+	.0489 X 45/105 THK	+	.0656 X 50/100 THK	+	.0377 X 45/105 HGT
									+
									-.0331 X 55/105 HGT
									+
									.1635 X BIS
									MAX
									+
									.0571 X 50/110 THK
									+
ISN	MAX	R=	.88268	STANDARD ERROR =	5.37556	REDUCTION OF VARIANCE =	.77912	STD. DEV. OF PND.	11.43786
ISN	MAX	=	-407.9251	+	.1286 X 50/110 THK	+	.1056 X 45/105 HGT	+	-.0791 X 50/110 HGT
									+
									.2678 X QR
									MAX
									+
GGW	MAX	R=	.88421	STANDARD ERROR =	5.27767	REDUCTION OF VARIANCE =	.78183	STD. DEV. OF PND.	11.29902
GGW	MAX	=	-515.9272	+	.1627 X 50/110 THK	+	.0791 X 45/105 HGT	+	-.0433 X 55/115 HGT
									+
BIL	MAX	R=	.90041	STANDARD ERROR =	5.09995	REDUCTION OF VARIANCE =	.81073	STD. DEV. OF PND.	11.72263
BIL	MAX	=	-481.5474	+	.0981 X 50/110 THK	+	.0810 X 40/110 HGT	+	-.0486 X 50/120 HGT
									+
									.2107 X HLN
									MAX
									+
									.0499 X 45/115 THK
									+
GTF	MAX	R=	.89095	STANDARD ERROR =	5.15558	REDUCTION OF VARIANCE =	.79380	STD. DEV. OF PND.	11.35347
GTF	MAX	=	-377.9453	+	.1043 X 50/110 THK	+	.1112 X 45/115 HGT	+	-.0341 X 55/125 HGT
									+
									.2848 X PDT
									MAX
									+
									-.0387 X 45/125 HGT
									+
HLN	MAX	R=	.89091	STANDARD ERROR =	5.05208	REDUCTION OF VARIANCE =	.79373	STD. DEV. OF PND.	11.12375
HLN	MAX	=	-560.7299	+	.1007 X 45/115 THK	+	.0801 X 45/115 HGT	+	.0656 X 50/110 THK
									+
									-.0351 X 55/125 HGT
									+
MSO	MAX	R=	.90390	STANDARD ERROR =	4.70591	REDUCTION OF VARIANCE =	.81704	STD. DEV. OF PND.	11.00177
MSO	MAX	=	-378.7108	+	.0728 X 45/115 THK	+	.1204 X 45/115 HGT	+	.3034 X PDT
									MAX
									+
									-.0515 X 40/120 HGT
									+
GEG	MAX	R=	.89849	STANDARD ERROR =	4.52772	REDUCTION OF VARIANCE =	.80729	STD. DEV. OF PND.	10.31405
GEG	MAX	=	-330.9076	+	.0922 X 45/125 THK	+	.3104 X GEG	MAX	+
									.0919 X 45/115 HGT
									+
									-.0554 X 40/120 HGT
									+
PDT	MAX	R=	.90415	STANDARD ERROR =	4.38335	REDUCTION OF VARIANCE =	.81748	STD. DEV. OF PND.	10.26004
PDT	MAX	=	-382.3942	+	.1014 X 45/125 THK	+	.2717 X PDT	MAX	+
									.0459 X 45/115 HGT
									+
YKM	MAX	R=	.90105	STANDARD ERROR =	4.18829	REDUCTION OF VARIANCE =	.81189	STD. DEV. OF PND.	9.65668
YKM	MAX	=	-322.4221	+	.0820 X 45/125 THK	+	.3273 X YKM	MAX	+
									.0443 X 50/120 HGT
									+
PDX	MAX	R=	.85297	STANDARD ERROR =	4.61178	REDUCTION OF VARIANCE =	.72756	STD. DEV. OF PND.	8.83561
PDX	MAX	=	-428.7013	+	.1221 X 45/125 THK	+	.0499 X 50/120 HGT	+	-.2014 X YKM
									MIN
									+
SEA	MAX	R=	.85722	STANDARD ERROR =	4.26299	REDUCTION OF VARIANCE =	.73482	STD. DEV. OF PND.	8.27833
SEA	MAX	=	-254.1148	+	.0814 X 45/125 THK	+	.0535 X 50/120 HGT	+	.2097 X SEA
									MAX
									+
									.2418 X YKM
									MIN
									+
									-.0299 X 35/125 HGT
									+
									.0722 X DAY OF YR
									+
TTI	MAX	R=	.72707	STANDARD ERROR =	2.76810	REDUCTION OF VARIANCE =	.52863	STD. DEV. OF PND.	4.03183
TTI	MAX	=	-81.9842	+	.0292 X 55/125 HGT	+	.2110 X EKA	MAX	+
									.2743 X SEA
									MIN
									+
									-.1715 X YKM
									MIN
									+
									.0276 X 40/130 THK
									+
									-.0161 X 40/130 HGT
									+
									.0609 X WMC
									MIN
									+
MSP	MAX	R=	.86599	STANDARD ERROR =	5.35367	REDUCTION OF VARIANCE =	.74993	STD. DEV. OF PND.	10.70585
MSP	MAX	=	-265.4928	+	.1585 X 45/095 THK	+	.2504 X STC	MAX	+
									-.0492 X 40/090 THK
									+

HON MAX R= .87868 STANDARD ERROR = 5.30586 REDUCTION OF VARIANCE = .77208 STD. DEV. OF PND. 11.11376
HON MAX = -371.9347 + .0866 X 45/105 THK + .2762 X HON MAX + .0620 X 50/100 THK + -.0423 X 50/100 HGT +
.0377 X 40/100 HGT +

RAP MAX R= .88437 STANDARD ERROR = 5.63719 REDUCTION OF VARIANCE = .78210 STD. DEV. OF PND. 12.07638
RAP MAX = -552.1105 + .1260 X 45/105 THK + .0466 X 40/110 HGT + -.0738 X 50/110 HGT + .0627 X 50/110 THK +
.0476 X 40/100 HGT +

CPR MAX R= .90516 STANDARD ERROR = 5.10030 REDUCTION OF VARIANCE = .81931 STD. DEV. OF PND. 11.99858
CPR MAX = -484.9520 + .0955 X 45/105 THK + .1555 X 40/110 HGT + -.1273 X 45/115 HGT + .0574 X 45/115 THK +
.2374 X GJT MIN +

LND MAX R= .90419 STANDARD ERROR = 4.94647 REDUCTION OF VARIANCE = .81756 STD. DEV. OF PND. 11.58060
LND MAX = -266.8569 + .0453 X 45/105 THK + .1109 X 40/110 HGT + -.0558 X 50/120 HGT + .1738 X LND MAX +
.3864 X LND MIN +

PIH MAX R= .91571 STANDARD ERROR = 4.54041 REDUCTION OF VARIANCE = .83852 STD. DEV. OF PND. 11.29880
PIH MAX = -545.9860 + .0935 X 45/115 THK + .0824 X 40/110 HGT + .0696 X 40/120 THK + -.0384 X 35/125 HGT +

BOI MAX R= .91068 STANDARD ERROR = 4.62734 REDUCTION OF VARIANCE = .82933 STD. DEV. OF PND. 11.20091
BOI MAX = -517.2746 + .0820 X 45/115 HGT + .0656 X 45/115 THK + .0912 X 40/120 THK + -.0404 X 35/125 HGT +
BNO MAX R= .91689 STANDARD ERROR = 4.35451 REDUCTION OF VARIANCE = .84069 STD. DEV. OF PND. 10.90983
BNO MAX = -456.5951 + .1925 X MFR MAX + .0598 X 45/115 HGT + .0686 X 40/120 THK + .0459 X 45/125 THK +

MFR MAX R= .90607 STANDARD ERROR = 4.77494 REDUCTION OF VARIANCE = .82096 STD. DEV. OF PND. 11.28489
MFR MAX = -330.6142 + .0935 X 45/125 HGT + .3228 X MFR MAX + .0686 X 40/130 THK + -.0335 X 35/135 HGT +

SLE MAX R= .86013 STANDARD ERROR = 4.76113 REDUCTION OF VARIANCE = .73983 STD. DEV. OF PND. 9.33431
SLE MAX = -471.2372 + .1194 X 45/125 THK + .0397 X 45/115 HGT + .0262 X 50/130 HGT + -.1768 X YKM MIN +

Northwest Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL MIN R= .87653 STANDARD ERROR = 4.45898 REDUCTION OF VARIANCE = .76831 STD. DEV. OF PND. 9.26354
INL MIN = -227.5344 + .0367 X 50/090 THK + .2144 X INL MIN + .0561 X 50/100 THK + -.0279 X 45/105 HGT +
.0919 X DAY OF YR + .0200 X 45/085 HGT +

DLH MIN R= .86939 STANDARD ERROR = 4.14071 REDUCTION OF VARIANCE = .75584 STD. DEV. OF PND. 8.37985
DLH MIN = -146.2353 + .0577 X 50/090 THK + .2434 X LH MIN + .1776 X DLH MAX +

STC MIN R= .87725 STANDARD ERROR = 4.36393 REDUCTION OF VARIANCE = .76957 STD. DEV. OF PND. 9.09096
STC MIN = -338.6674 + .0696 X 45/095 THK + .0404 X 50/090 THK + .2079 X BIS MIN + .0171 X 40/080 HGT +

FAR MIN R= .88538 STANDARD ERROR = 4.42572 REDUCTION OF VARIANCE = .78390 STD. DEV. OF PND. 9.52048
FAR MIN = -207.1431 + .0810 X 50/100 THK + .2221 X FAR MIN + -.0499 X 45/105 HGT + .0466 X 45/095 HGT +
.1130 X DAY OF YR +

BIS MIN R= .86172 STANDARD ERROR = 4.38859 REDUCTION OF VARIANCE = .74256 STD. DEV. OF PND. 8.64936
BIS MIN = -371.0595 + .0551 X 50/100 THK + .0276 X 40/100 THK + .2898 X GGW MIN + .0308 X 40/150 THK +
.0226 X 45/095 HGT +

ISN MIN R= .86128 STANDARD ERROR = 4.27745 REDUCTION OF VARIANCE = .74180 STD. DEV. OF PND. 8.41791
ISN MIN = -171.7930 + .0469 X 50/100 THK + .2162 X GGW MAX + .0751 X DAY OF YR + .0151 X 55/095 HGT +
.2107 X GTF MIN +

GGW MIN R= .87527 STANDARD ERROR = 3.78122 REDUCTION OF VARIANCE = .76609 STD. DEV. OF PND. 7.81827
GGW MIN = -212.1531 + .0745 X 50/110 THK + .2719 X GGW MIN + .0920 X DAY OF YR + .0207 X 50/100 HGT +
-.0161 X 50/120 HGT +

BIL MIN R= .88781 STANDARD ERROR = 3.39731 REDUCTION OF VARIANCE = .78821 STD. DEV. OF PND. 7.38221
BIL MIN = -189.4417 + .2354 X BIL MIN + .0410 X 50/110 THK + .0289 X 45/115 THK + .0634 X DAY OF YR +
.1275 X BIL MAX +

GTF MIN R= .86904 STANDARD ERROR = 3.62888 REDUCTION OF VARIANCE = .75523 STD. DEV. OF PND. 7.33483
GTF MIN = -238.1434 + .3975 X GTF MIN + .0328 X 45/115 THK + .0446 X 55/115 THK + .0285 X 45/115 HGT +
-.0164 X 55/125 HGT +

HLN	MIN R= .83092	STANDARD ERROR = 3.95506	REDUCTION OF VARIANCE = .69043	STD. DEV. OF PND. 7.10846
HLN	MIN = -103.7770 + .1203 X GTF	MIN + .3050 X GEG	MIN + .0397 X 50/110 THK +	.2513 X HLN MIN +
MSO	MIN R= .80404	STANDARD ERROR = 4.07365	REDUCTION OF VARIANCE = .64648	STD. DEV. OF PND. 6.85137
MSO	MIN = -.2930 + .3186 X GEG	MIN + .2572 X MSO	MIN + .1180 X MSO	MAX + .1933 X SLE MIN +
GEG	MIN R= .88449	STANDARD ERROR = 3.27788	REDUCTION OF VARIANCE = .78232	STD. DEV. OF PND. 7.02566
GEG	MIN = -103.7857 + .3210 X GEG	MIN + .0390 X 45/125 THK +	.1570 X XS	MAX + .1596 X GEG MAX +
PDT	MIN R= .88321	STANDARD ERROR = 3.09906	REDUCTION OF VARIANCE = .78007	STD. DEV. OF PND. 6.60822
PDT	MIN = -166.0376 + .0361 X 45/125 THK +	.0266 X 50/120 THK +	.1994 X YKM	MAX + .2126 X SLE MIN + .0495 X DAY OF YR +
YKM	MIN R= .78631	STANDARD ERROR = 4.77725	REDUCTION OF VARIANCE = .61828	STD. DEV. OF PND. 7.73227
YKM	MIN = -4.4010 + .3369 X YKM	MAX + .2062 X XS	MAX + .2465 X YKM	MIN +
PDX	MIN R= .80328	STANDARD ERROR = 3.21060	REDUCTION OF VARIANCE = .64526	STD. DEV. OF PND. 5.39055
PDX	MIN = -146.2474 + .4320 X PDX	MIN + .0341 X 45/125 THK +	.0256 X 55/125 THK +	
SEA	MIN R= .86878	STANDARD ERROR = 2.47079	REDUCTION OF VARIANCE = .75478	STD. DEV. OF PND. 4.98946
SEA	MIN = -110.2418 + .4073 X SEA	MIN + .0262 X 45/125 THK +	.0272 X 50/130 THK +	.0496 X DAY OF YR +
				-.0079 X 45/135 HGT +
TTI	MIN R= .79941	STANDARD ERROR = 1.79882	REDUCTION OF VARIANCE = .63906	STD. DEV. OF PND. 2.99412
TTI	MIN = -70.7024 + .1387 X SEA	MIN + .0505 X BIS	MIN + .0112 X 50/130 THK +	.1978 X EKA MAX + .0138 X 60/130 THK +
				.0085 X 50/120 HGT +
MSP	MIN R= .88737	STANDARD ERROR = 4.12909	REDUCTION OF VARIANCE = .78742	STD. DEV. OF PND. 8.95556
MSP	MIN = -285.9021 + .0866 X 45/095 THK +	.1912 X MSP	MIN + .0717 X DAY OF YR +	.0197 X 45/085 HGT +
HON	MIN R= .89987	STANDARD ERROR = 4.14448	REDUCTION OF VARIANCE = .80977	STD. DEV. OF PND. 9.50230
HON	MIN = -245.1328 + .0177 X 45/095 THK +	.0528 X 45/105 THK +	.0240 X 50/100 THK +	.1116 X DAY OF YR + -.0072 X 45/115 HGT +
				.1964 X HON MIN +
RAP	MIN R= .90116	STANDARD ERROR = 3.45540	REDUCTION OF VARIANCE = .81210	STD. DEV. OF PND. 7.97133
RAP	MIN = -249.3742 + .0705 X 45/105 THK +	.2734 X RAP	MIN + .0713 X DAY OF YR +	.0207 X 45/095 HGT +
CPR	MIN R= .88097	STANDARD ERROR = 3.49211	REDUCTION OF VARIANCE = .77611	STD. DEV. OF PND. 7.38027
CPR	MIN = -6.2601 + .2860 X CPR	MIN + .1844 X HLN	MAX + .1938 X CPR	MAX + .0754 X DAY OF YR +
LND	MIN R= .89192	STANDARD ERROR = 3.39252	REDUCTION OF VARIANCE = .79552	STD. DEV. OF PND. 7.50232
LND	MIN = -91.6778 + .2128 X LND	MAX + .0331 X 45/115 THK +	.2749 X LND	MIN + .1390 X HLN MAX +
PIH	MIN R= .83977	STANDARD ERROR = 3.90951	REDUCTION OF VARIANCE = .70521	STD. DEV. OF PND. 7.20052
PIH	MIN = -99.4694 + .0384 X 45/115 THK +	.2117 X PIH	MIN + .1997 X BNO	MIN + .1663 X PIH MAX +
BOI	MIN R= .89733	STANDARD ERROR = 3.43266	REDUCTION OF VARIANCE = .80520	STD. DEV. OF PND. 7.77748
BOI	MIN = -157.3478 + .2818 X BNO	MAX + .0532 X 45/115 HGT +	.2731 X BOI	MIN + .0587 X 45/125 THK + -.0532 X 45/125 HGT +
				.0818 X DAY OF YR + -.1672 X WMC MAX +
BNO	MIN R= .84359	STANDARD ERROR = 4.06353	REDUCTION OF VARIANCE = .71164	STD. DEV. OF PND. 7.56722
BNO	MIN = -119.6946 + .2034 X BNO	MIN + .0430 X 45/125 THK +	.2265 X BNO	MAX + .2323 X PDX MIN +
MFR	MIN R= .82998	STANDARD ERROR = 3.44177	REDUCTION OF VARIANCE = .68887	STD. DEV. OF PND. 6.17039
MFR	MIN = -143.8569 + .3495 X MFR	MIN + .0230 X 45/115 HGT +	.0617 X 45/125 THK +	.0549 X DAY OF YR + -.0279 X 45/125 HGT +
SLE	MIN R= .76386	STANDARD ERROR = 3.67534	REDUCTION OF VARIANCE = .58348	STD. DEV. OF PND. 5.69480
SLE	MIN = -88.2597 + .4166 X SLE	MIN + .0318 X 50/130 THK +	.2643 X EKA	MAX + .1039 X PDX MAX +

Southwest Max

May-June

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MAX	R=	.85833	STANDARD ERROR =	5.01188	REDUCTION OF VARIANCE =	.73673	STD. DEV. OF PND.	9.76796
DSM	MAX	=	-309.5147 +	.0824 X 45/095 THK +	.2487 X OMA	MAX +	.0413 X 40/100 THK +		
OMA	MAX	R=	.85321	STANDARD ERROR =	5.18053	REDUCTION OF VARIANCE =	.72797	STD. DEV. OF PND.	9.93265
OMA	MAX	=	-354.3227 +	.0787 X 40/100 THK +	.0620 X 45/095 THK +	.1760 X OMA	MAX +		
LBF	MAX	R=	.88281	STANDARD ERROR =	5.31155	REDUCTION OF VARIANCE =	.77936	STD. DEV. OF PND.	11.30775
LBF	MAX	=	-391.0870 +	.0646 X 40/100 THK +	.0948 X 45/105 THK +	-.0420 X 50/100 HGT +	.0630 X 35/105 HGT +		
				-.0302 X 45/125 THK +	.2039 X HON	MIN +			
DEN	MAX	R=	.89775	STANDARD ERROR =	5.04191	REDUCTION OF VARIANCE =	.80595	STD. DEV. OF PND.	11.44560
DEN	MAX	=	-456.0367 +	.0512 X 40/110 THK +	.0925 X 45/105 THK +	-.0801 X 45/105 HGT +	.1345 X 35/105 HGT +		
				.1821 X DEN	MAX +	-.0279 X 50/120 HGT +			
SLC	MAX	R=	.91489	STANDARD ERROR =	4.61700	REDUCTION OF VARIANCE =	.83703	STD. DEV. OF PND.	11.43685
SLC	MAX	=	-356.2212 +	.3942 X ELY	MAX +	.0791 X 45/115 THK +	.0984 X 40/110 HGT +	-.0430 X 40/120 HGT +	
WMC	MAX	R=	.93210	STANDARD ERROR =	4.31145	REDUCTION OF VARIANCE =	.86880	STD. DEV. OF PND.	11.90312
WMC	MAX	=	-421.6998 +	.1027 X 40/120 THK +	.0935 X 45/115 HGT +	.2703 X WMC	MAX +	-.0377 X 50/110 HGT +	
RNO	MAX	R=	.93395	STANDARD ERROR =	3.99670	REDUCTION OF VARIANCE =	.87227	STD. DEV. OF PND.	11.18289
RNO	MAX	=	-198.0626 +	.1266 X 40/120 HGT +	.4407 X RNO	MAX +	-.0525 X 30/120 HGT +	.0888 X DAY OF YR +	
RBL	MAX	R=	.92212	STANDARD ERROR =	4.36476	REDUCTION OF VARIANCE =	.85031	STD. DEV. OF PND.	11.28138
RBL	MAX	=	-390.8735 +	.3424 X SAC	MAX +	.1381 X 40/120 HGT +	.0430 X 40/130 HGT +	-.1020 X 35/115 HGT +	
				.0676 X 35/115 THK +					
EKA	MAX	R=	.72848	STANDARD ERROR =	2.43914	REDUCTION OF VARIANCE =	.53069	STD. DEV. OF PND.	3.56047
EKA	MAX	=	-94.1274 +	.3387 X EKA	MAX +	.0351 X 40/130 THK +	-.0013 X 40/140 HGT +	.2327 X SFO	MIN +
				-.0999 X MFR	MAX +	.0200 X 45/115 HGT +	-.0236 X 40/130 HGT +	.0135 X 30/130 HGT +	
MKC	MAX	R=	.87389	STANDARD ERROR =	4.59135	REDUCTION OF VARIANCE =	.76369	STD. DEV. OF PND.	9.44491
MKC	MAX	=	-194.8851 +	.3784 X MKC	MIN +	.0791 X 40/100 THK +	.1887 X MKC	MAX +	
TOP	MAX	R=	.87828	STANDARD ERROR =	4.52347	REDUCTION OF VARIANCE =	.77138	STD. DEV. OF PND.	9.46044
TOP	MAX	=	-236.6967 +	.0951 X 40/100 THK +	.3000 X MKC	MIN +	.1703 X TOP	MAX +	
ICT	MAX	R=	.87856	STANDARD ERROR =	4.86268	REDUCTION OF VARIANCE =	.77186	STD. DEV. OF PND.	10.18071
ICT	MAX	=	-235.4824 +	.0932 X 40/100 THK +	.2259 X ICT	MAX +	.3178 X ICT	MIN +	
DDC	MAX	R=	.88098	STANDARD ERROR =	5.30280	REDUCTION OF VARIANCE =	.77612	STD. DEV. OF PND.	11.20733
DDC	MAX	=	-417.2715 +	.1394 X 40/100 THK +	-.0600 X 45/105 HGT +	.0801 X 35/105 HGT +	.1791 X DDC	MAX +	
PUB	MAX	R=	.88978	STANDARD ERROR =	5.13321	REDUCTION OF VARIANCE =	.79170	STD. DEV. OF PND.	11.24725
PUB	MAX	=	-459.4796 +	.0764 X 40/100 THK +	.1240 X 35/105 HGT +	-.1014 X 45/105 HGT +	.0728 X 45/105 THK +		
				.2205 X INW	MAX +				
GJT	MAX	R=	.90838	STANDARD ERROR =	4.30077	REDUCTION OF VARIANCE =	.82516	STD. DEV. OF PND.	10.28539
GJT	MAX	=	-386.5378 +	.0932 X 40/110 THK +	.4224 X INW	MAX +	.0486 X 35/105 HGT +		
MLF	MAX	R=	.93172	STANDARD ERROR =	4.00902	REDUCTION OF VARIANCE =	.86811	STD. DEV. OF PND.	11.03894
MLF	MAX	=	-264.7572 +	.3474 X ELY	MAX +	.0797 X 40/110 HGT +	.0963 X DAY OF YR +	-.0292 X 45/125 HGT +	
				.0486 X 35/115 THK +					
ELY	MAX	R=	.92518	STANDARD ERROR =	4.36607	REDUCTION OF VARIANCE =	.85596	STD. DEV. OF PND.	11.50420
ELY	MAX	=	-364.7817 +	.3920 X ELY	MAX +	.0774 X 35/115 HGT +	.0830 X 40/120 THK +	-.0259 X 45/125 HGT +	
SAC	MAX	R=	.87660	STANDARD ERROR =	4.72587	REDUCTION OF VARIANCE =	.76844	STD. DEV. OF PND.	9.82079
SAC	MAX	=	-273.4065 +	.4250 X SAC	MAX +	.0581 X 35/125 HGT +	.0712 X 45/125 HGT +	-.0256 X 50/130 HGT +	

SFO MAX R= .76675 STANDARD ERROR = 4.59232 REDUCTION OF VARIANCE = .58791 STD. DEV. OF PND. 7.15380
SFO MAX = -112.3932 + .8505 X SAC MIN + -.1177 X BNO MAX + .0495 X 40/120 HGT + -.2534 X MFR MIN +
.1968 X SFO MAX + -.1247 X RBL MAX +

OKC MAX R= .85543 STANDARD ERROR = 4.48605 REDUCTION OF VARIANCE = .73177 STD. DEV. OF PND. 8.66179
OKC MAX = -131.6285 + .3238 X OKC MAX + .0551 X 40/100 THK + .3589 X OKC MIN +

AMA MAX R= .86331 STANDARD ERROR = 5.25904 REDUCTION OF VARIANCE = .74531 STD. DEV. OF PND. 10.42070
AMA MAX = -325.8243 + .0742 X 40/100 THK + .0495 X 35/105 THK + -.0738 X 45/105 HGT + .2811 X AMA MAX +
.0764 X 35/105 HGT +

ABQ MAX R= .89242 STANDARD ERROR = 3.85989 REDUCTION OF VARIANCE = .79641 STD. DEV. OF PND. 8.55451
ABQ MAX = -343.2653 + .3758 X INW MAX + .0902 X 35/105 THK + .0390 X 30/110 HGT +

INW MAX R= .90483 STANDARD ERROR = 4.00014 REDUCTION OF VARIANCE = .81872 STD. DEV. OF PND. 9.39507
INW MAX = -170.3949 + .6747 X INW MAX + .0640 X 35/115 HGT +

LAS MAX R= .94274 STANDARD ERROR = 3.39144 REDUCTION OF VARIANCE = .88875 STD. DEV. OF PND. 10.16810
LAS MAX = -157.6155 + .5033 X LAS MAX + .1181 X 35/115 HGT + .0945 X DAY OF YR + -.0564 X 30/110 HGT +

BFL MAX R= .94150 STANDARD ERROR = 3.30666 REDUCTION OF VARIANCE = .88641 STD. DEV. OF PND. 9.81131
BFL MAX = -173.1197 + .4705 X BFL MIN + .0666 X 40/120 HGT + .3214 X SAC MAX +

FAT MAX R= .92617 STANDARD ERROR = 3.74653 REDUCTION OF VARIANCE = .85779 STD. DEV. OF PND. 9.93478
FAT MAX = -199.7993 + .3341 X SAC MAX + .0764 X 40/120 HGT + .3734 X BFL MIN +

SMX MAX R= .71585 STANDARD ERROR = 3.86369 REDUCTION OF VARIANCE = .51244 STD. DEV. OF PND. 5.53334
SMX MAX = -141.5035 + .0689 X 40/120 HGT + .1252 X LAX MAX + -.1199 X RNO MAX + .0873 X 30/120 THK +
.3075 X SAC MIN + -.2470 X BFL MIN + .1899 X EKA MAX + -.0735 X 30/120 HGT +
-.0433 X 40/120 THK + .0262 X 35/115 HGT +

FTW MAX R= .85841 STANDARD ERROR = 4.09267 REDUCTION OF VARIANCE = .73686 STD. DEV. OF PND. 7.97842
FTW MAX = -149.0584 + .2056 X FTW MAX + .0597 X 35/105 THK + .3224 X FTW MIN + .1878 X OKC MAX +

MAF MAX R= .85357 STANDARD ERROR = 4.28846 REDUCTION OF VARIANCE = .72857 STD. DEV. OF PND. 8.23143
MAF MAX = -183.4502 + .0971 X 35/105 THK + .2493 X MAF MAX + -.0338 X 45/105 HGT + .3134 X MAF MIN +
-.0512 X 35/095 HGT + .0633 X 30/100 HGT +

ELP MAX R= .88962 STANDARD ERROR = 3.32641 REDUCTION OF VARIANCE = .79143 STD. DEV. OF PND. 7.28364
ELP MAX = -301.6974 + .3598 X ELP MAX + .0581 X 30/110 THK + .0600 X 35/105 THK +

TUS MAX R= .92396 STANDARD ERROR = 3.01980 REDUCTION OF VARIANCE = .85369 STD. DEV. OF PND. 7.89491
TUS MAX = -312.4362 + .3887 X TUS MAX + .0427 X 35/115 HGT + .0774 X 30/110 THK +

PHX MAX R= .93625 STANDARD ERROR = 3.03036 REDUCTION OF VARIANCE = .87656 STD. DEV. OF PND. 8.62526
PHX MAX = -185.1623 + .6177 X PHX MAX + .0715 X 35/115 HGT +

YUM MAX R= .94878 STANDARD ERROR = 2.73778 REDUCTION OF VARIANCE = .90018 STD. DEV. OF PND. 8.66551
YUM MAX = -312.1774 + .0709 X 35/115 HGT + .3989 X YUM MAX + .0505 X 30/120 THK +

SAN MAX R= .77162 STANDARD ERROR = 2.71940 REDUCTION OF VARIANCE = .59539 STD. DEV. OF PND. 4.27518
SAN MAX = -18.1989 + .4003 X SAN MAX + .0453 X 35/115 HGT + -.0322 X 35/115 THK + .2481 X LAX MAX +

LAX MAX R= .81911 STANDARD ERROR = 2.74899 REDUCTION OF VARIANCE = .67094 STD. DEV. OF PND. 4.79218
LAX MAX = -21.1041 + .4000 X LAX MAX + .0328 X 40/120 HGT + -.0253 X 40/120 THK + .4275 X LAX MIN +
.3208 X SAN MAX + -.1060 X BFL MAX +

SAT MAX R= .81930 STANDARD ERROR = 3.47884 REDUCTION OF VARIANCE = .67126 STD. DEV. OF PND. 6.06747
SAT MAX = -157.6580 + .4254 X SAT MAX + .0656 X 30/100 THK + .1142 X PUB MAX +

DRT MAX R= .81956 STANDARD ERROR = 3.70297 REDUCTION OF VARIANCE = .67168 STD. DEV. OF PND. 6.46250
DRT MAX = -197.2139 + .4532 X DRT MAX + .0538 X 35/105 THK + .0538 X 30/100 THK + -.0256 X 35/095 HGT +

Southwest Min

May-June

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MIN	R=	.89422	STANDARD ERROR =	3.82715	REDUCTION OF VARIANCE =	.79964	STD. DEV. OF PND.	8.54999									
DSM	MIN	=	-260.2270	+	.0686 X 45/095 THK	+	.3466 X DSM	MIN	+	.0308 X 40/100 THK	+							
OMA	MIN	R=	.89446	STANDARD ERROR =	3.82637	REDUCTION OF VARIANCE =	.80006	STD. DEV. OF PND.	8.55724									
OMA	MIN	=	-336.7492	+	.0525 X 45/095 THK	+	.0482 X 40/100 THK	+	.2001 X OMA	MIN	+	.0262 X 40/090 HGT	+					
LBF	MIN	R=	.88108	STANDARD ERROR =	4.19804	REDUCTION OF VARIANCE =	.77630	STD. DEV. OF PND.	8.87593									
LBF	MIN	=	-313.3719	+	.0614 X 40/100 THK	+	.0335 X 45/095 HGT	+	.0499 X 45/105 THK	+	.1320 X DAY OF YR	+	-.0295 X 35/115 HGT	+				
DEN	MIN	R=	.87635	STANDARD ERROR =	3.61442	REDUCTION OF VARIANCE =	.76799	STD. DEV. OF PND.	7.50392									
DEN	MIN	=	-253.8493	+	.3800 X DEN	MIN	+	.0522 X 40/110 THK	+	.0423 X 45/105 THK	+							
SLC	MIN	R=	.86506	STANDARD ERROR =	4.01164	REDUCTION OF VARIANCE =	.74833	STD. DEV. OF PND.	7.99660									
SLC	MIN	=	68.2630	+	.2985 X PIH	MAX	+	.2602 X SLC	MIN	+	.1812 X BNO	MAX	+	-.0249 X 45/125 HGT	+	.0636 X DAY OF YR	+	
WMC	MIN	R=	.78825	STANDARD ERROR =	5.19881	REDUCTION OF VARIANCE =	.62134	STD. DEV. OF PND.	8.44852									
WMC	MIN	=	-4.3711	+	.3268 X BNO	MAX	+	.3767 X WMC	MIN	+	.1682 X MSO	MIN	+					
RNO	MIN	R=	.79625	STANDARD ERROR =	4.00550	REDUCTION OF VARIANCE =	.63402	STD. DEV. OF PND.	6.62108									
RNO	MIN	=	9.0545	+	.0305 X 40/120 THK	+	.2575 X RNO	MIN	+	.2674 X SEA	MIN	+	-.0312 X 30/120 HGT	+	.1923 X RNO	MAX	+	
RBL	MIN	R=	.91037	STANDARD ERROR =	3.12117	REDUCTION OF VARIANCE =	.82877	STD. DEV. OF PND.	7.54259									
RBL	MIN	=	-105.7715	+	.3066 X RBL	MIN	+	.2884 X SAC	MAX	+	.0384 X 40/130 THK	+	.0615 X DAY OF YR	+				
EKA	MIN	R=	.79541	STANDARD ERROR =	1.96099	REDUCTION OF VARIANCE =	.63267	STD. DEV. OF PND.	3.23555									
EKA	MIN	=	-26.1283	+	.3383 X EKA	MIN	+	.0138 X 45/125 THK	+	.2124 X EKA	MAX	+	.1271 X SEA	MIN	+			
MKC	MIN	R=	.90597	STANDARD ERROR =	3.56900	REDUCTION OF VARIANCE =	.82077	STD. DEV. OF PND.	8.43036									
MKC	MIN	=	-228.1356	+	.0509 X 40/100 THK	+	.3887 X MKC	MIN	+	.0374 X 40/090 HGT	+	-.0279 X 45/105 HGT	+	.0272 X 45/105 THK	+			
TOP	MIN	R=	.89104	STANDARD ERROR =	3.95787	REDUCTION OF VARIANCE =	.79395	STD. DEV. OF PND.	8.71913									
TOP	MIN	=	-202.9923	+	.0722 X 40/100 THK	+	.3267 X TOP	MIN	+	.0404 X 40/090 HGT	+	-.0358 X 40/110 HGT	+	.1965 X FAT	MIN	+		
ICT	MIN	R=	.89817	STANDARD ERROR =	3.66159	REDUCTION OF VARIANCE =	.80671	STD. DEV. OF PND.	8.32856									
ICT	MIN	=	-191.6360	+	.0679 X 40/100 THK	+	.3159 X ICT	MIN	+	-.0305 X 40/110 HGT	+	.0354 X 35/095 HGT	+	.0760 X DAY OF YR	+			
DDC	MIN	R=	.90384	STANDARD ERROR =	3.53965	REDUCTION OF VARIANCE =	.81693	STD. DEV. OF PND.	8.27288									
DDC	MIN	=	-335.3469	+	.0761 X 40/100 THK	+	.1051 X DAY OF YR	+	.0443 X 35/095 HGT	+	-.0240 X 45/115 HGT	+	.0272 X 45/105 THK	+				
PUB	MIN	R=	.86213	STANDARD ERROR =	3.77879	REDUCTION OF VARIANCE =	.74326	STD. DEV. OF PND.	7.45778									
PUB	MIN	=	-112.1442	+	.2776 X PUB	MIN	+	.1987 X GJT	MAX	+	.0407 X 40/100 THK	+	.0691 X DAY OF YR	+				
GJT	MIN	R=	.89360	STANDARD ERROR =	3.49833	REDUCTION OF VARIANCE =	.79853	STD. DEV. OF PND.	7.79383									
GJT	MIN	=	.4539	+	.4065 X GJT	MAX	+	.1739 X SLC	MAX	+	.1759 X ELY	MIN	+					
MLF	MIN	R=	.82469	STANDARD ERROR =	4.36835	REDUCTION OF VARIANCE =	.68012	STD. DEV. OF PND.	7.72365									
MLF	MIN	=	46.4102	+	.3036 X LAS	MAX	+	.2446 X ELY	MIN	+	.1867 X PIH	MIN	+	.2264 X RBL	MIN	+	-.0200 X 40/120 HGT	+
ELY	MIN	R=	.82317	STANDARD ERROR =	4.26846	REDUCTION OF VARIANCE =	.67760	STD. DEV. OF PND.	7.51753									
ELY	MIN	=	61.4513	+	.2630 X WMC	MAX	+	.3409 X ELY	MIN	+	-.0226 X 40/130 HGT	+	.2273 X RBL	MIN	+			
SAC	MIN	R=	.86808	STANDARD ERROR =	2.72370	REDUCTION OF VARIANCE =	.75356	STD. DEV. OF PND.	5.48665									
SAC	MIN	=	-70.2288	+	.2675 X SAC	MIN	+	.1262 X SAC	MAX	+	.0253 X 40/130 THK	+	.1714 X SFO	MAX	+	.2519 X EKA	MIN	+

SFO	MIN R= .77721	STANDARD ERROR =	2.18887	REDUCTION OF VARIANCE =	.60406	STD. DEV. OF PND.	3.47859
SFO	MIN = -36.6950 +	.5023 X SFO	MIN +	.0171 X 45/125 THK +	.2000 X EKA	MAX +	
OKC	MIN R= .88194	STANDARD ERROR =	3.47690	REDUCTION OF VARIANCE =	.77783	STD. DEV. OF PND.	7.37643
OKC	MIN = -263.8355 +	.3383 X OKC	MIN +	.0535 X 40/100 THK +	.0476 X 35/095 THK +		
AMA	MIN R= .87498	STANDARD ERROR =	3.74339	REDUCTION OF VARIANCE =	.76559	STD. DEV. OF PND.	7.73167
AMA	MIN = -153.7744 +	.0571 X 40/100 THK +		.2741 X ABQ	MAX +	.2762 X AMA	MIN +
ABQ	MIN R= .88488	STANDARD ERROR =	3.65445	REDUCTION OF VARIANCE =	.78301	STD. DEV. OF PND.	7.84513
ABQ	MIN = -7.7801 +	.3018 X INW	MAX +	.3454 X ABQ	MIN +	.2203 X ABQ	MAX +
INW	MIN R= .88758	STANDARD ERROR =	3.63267	REDUCTION OF VARIANCE =	.78780	STD. DEV. OF PND.	7.88594
INW	MIN = -11.6806 +	.3402 X LAS	MAX +	.3049 X INW	MIN +	.2269 X YUM	MIN +
LAS	MIN R= .91037	STANDARD ERROR =	3.48453	REDUCTION OF VARIANCE =	.82877	STD. DEV. OF PND.	8.42080
LAS	MIN = -7.0384 +	.4503 X LAS	MAX +	.2528 X BFL	MIN +	.2146 X LAS	MIN +
BFL	MIN R= .93844	STANDARD ERROR =	2.42674	REDUCTION OF VARIANCE =	.88067	STD. DEV. OF PND.	7.02494
BFL	MIN = -1.3969 +	.3201 X SAC	MAX +	.4512 X FAT	MIN +	.1211 X MFR	MAX +
FAT	MIN R= .91671	STANDARD ERROR =	2.47397	REDUCTION OF VARIANCE =	.84035	STD. DEV. OF PND.	6.19180
FAT	MIN = -60.2410 +	.2307 X SAC	MAX +	.3327 X FAT	MIN +	.0243 X 40/130 THK +	.1057 X BNO
							MAX +
SMX	MIN R= .73629	STANDARD ERROR =	3.02930	REDUCTION OF VARIANCE =	.54212	STD. DEV. OF PND.	4.47680
SMX	MIN = 59.7093 +	.2963 X FAT	MIN +	.1370 X MFR	MAX +	.2264 X EKA	MIN +
							-.0157 X 30/120 HGT +
FTW	MIN R= .88264	STANDARD ERROR =	3.21013	REDUCTION OF VARIANCE =	.77906	STD. DEV. OF PND.	6.82937
FTW	MIN = -230.6180 +	.3943 X FTW	MIN +	.0318 X 40/100 THK +	.0581 X 35/095 THK +		
MAF	MIN R= .87694	STANDARD ERROR =	3.35972	REDUCTION OF VARIANCE =	.76902	STD. DEV. OF PND.	6.99067
MAF	MIN = -148.6483 +	.0581 X 35/105 THK +		.2107 X MAF	MIN +	-.0381 X 35/115 HGT +	.1033 X DAY OF YR +
		.1515 X MAF	MAX +	.0351 X 30/100 HGT +			
ELP	MIN R= .87338	STANDARD ERROR =	3.56757	REDUCTION OF VARIANCE =	.76280	STD. DEV. OF PND.	7.32514
ELP	MIN = 66.8356 +	.3436 X ELP	MAX +	.2057 X ABQ	MIN +	.2855 X TUS	MAX +
		.0846 X DAY OF YR +					-.0276 X 40/110 HGT +
TUS	MIN R= .91882	STANDARD ERROR =	3.23332	REDUCTION OF VARIANCE =	.84423	STD. DEV. OF PND.	8.19224
TUS	MIN = -17.7558 +	.4242 X TUS	MIN +	.3272 X YUM	MAX +	.2294 X TUS	MAX +
PHX	MIN R= .91738	STANDARD ERROR =	3.15639	REDUCTION OF VARIANCE =	.84158	STD. DEV. OF PND.	7.93018
PHX	MIN = -177.5795 +	.5437 X PHX	MIN +	.0679 X 35/115 THK +			
YUM	MIN R= .91494	STANDARD ERROR =	3.00898	REDUCTION OF VARIANCE =	.83712	STD. DEV. OF PND.	7.45554
YUM	MIN = -236.5645 +	.4179 X YUM	MIN +	.0502 X 35/115 THK +	.0410 X 30/120 THK +		
SAN	MIN R= .85494	STANDARD ERROR =	1.50362	REDUCTION OF VARIANCE =	.73093	STD. DEV. OF PND.	2.89872
SAN	MIN = 11.5538 +	.4055 X SAN	MIN +	.0680 X BFL	MAX +	.0939 X LAX	MAX +
							.1875 X LAX
							MIN +
LAX	MIN R= .86422	STANDARD ERROR =	1.77460	REDUCTION OF VARIANCE =	.74688	STD. DEV. OF PND.	3.52724
LAX	MIN = 7.3115 +	.5600 X LAX	MIN +	.0818 X RBL	MAX +	.1548 X LAX	MAX +
SAT	MIN R= .84685	STANDARD ERROR =	3.10681	REDUCTION OF VARIANCE =	.71715	STD. DEV. OF PND.	5.84166
SAT	MIN = -139.2361 +	.4418 X SAT	MIN +	.0453 X 30/100 THK +	.1831 X PUB	MIN +	-.0171 X 45/105 HGT +
		.0259 X 30/090 HGT +					
DRT	MIN R= .83730	STANDARD ERROR =	2.96096	REDUCTION OF VARIANCE =	.70107	STD. DEV. OF PND.	5.41566
DRT	MIN = -136.6623 +	.3633 X DRT	MIN +	.0440 X 30/100 THK +	.0295 X 35/105 THK +		-.0171 X 35/115 HGT +
		.0597 X DAY OF YR +					

Southeast Max

May-June

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

SBY	MAX R= .84706	STANDARD ERROR = 4.91681	REDUCTION OF VARIANCE = .71752	STD. DEV. OF PND. 9.25101
SBY	MAX = -158.2953 + .3577 X NYC MIN + .0892 X 40/080 THK + -.0210 X 50/080 HGT + .4902 X DCA MIN + -.2917 X CRW MIN +			
DCA	MAX R= .87593	STANDARD ERROR = 4.41857	REDUCTION OF VARIANCE = .76724	STD. DEV. OF PND. 9.15867
DCA	MAX = -99.3944 + .0863 X 40/080 THK + .3626 X NYC MIN + -.0262 X 50/080 HGT + .0449 X 35/085 HGT + -.0614 X 35/085 THK + .2182 X LOU MAX + -.2761 X CRW MIN + .3553 X DCA MIN +			
CRW	MAX R= .87674	STANDARD ERROR = 4.27198	REDUCTION OF VARIANCE = .76867	STD. DEV. OF PND. 8.88211
CRW	MAX = -193.5637 + .0492 X 40/080 THK + .0584 X 40/080 HGT + .3287 X STL MAX + -.0266 X 45/095 HGT +			
HTS	MAX R= .87428	STANDARD ERROR = 4.23801	REDUCTION OF VARIANCE = .76437	STD. DEV. OF PND. 8.73068
HTS	MAX = -228.3814 + .0666 X 40/080 HGT + .2953 X STL MAX + .0673 X 40/090 THK + -.0394 X 40/090 HGT +			
LOU	MAX R= .87321	STANDARD ERROR = 4.37658	REDUCTION OF VARIANCE = .76250	STD. DEV. OF PND. 8.98063
LOU	MAX = -294.6637 + .1188 X 40/090 THK + .2593 X LOU MAX +			
ORF	MAX R= .87433	STANDARD ERROR = 4.41314	REDUCTION OF VARIANCE = .76445	STD. DEV. OF PND. 9.09302
ORF	MAX = -218.9498 + .5577 X DCA MIN + -.0650 X 45/075 HGT + .0637 X 40/080 THK + .0554 X 35/075 HGT + .0384 X 45/075 THK + -.1914 X A6S MIN +			
RIC	MAX R= .85702	STANDARD ERROR = 4.60937	REDUCTION OF VARIANCE = .73449	STD. DEV. OF PND. 8.94540
RIC	MAX = -238.5892 + .5941 X DCA MIN + .0915 X 40/080 THK + -.0397 X 45/075 HGT + .0476 X 35/085 HGT + -.2661 X A6S MIN +			
ROA	MAX R= .86190	STANDARD ERROR = 4.62126	REDUCTION OF VARIANCE = .74286	STD. DEV. OF PND. 9.11336
ROA	MAX = -253.1330 + .0696 X 40/080 THK + .2343 X ROA MAX + .0627 X 35/085 HGT + -.0322 X 45/075 HGT + .1230 X CHI MAX + -.2353 X A6S MIN + .2403 X DCA MIN +			
HAT	MAX R= .85070	STANDARD ERROR = 3.24429	REDUCTION OF VARIANCE = .72369	STD. DEV. OF PND. 6.17192
HAT	MAX = 26.6955 + .3145 X DCA MIN + .2976 X HAT MIN + .1558 X ORF MAX +			
RDU	MAX R= .86366	STANDARD ERROR = 4.00710	REDUCTION OF VARIANCE = .74590	STD. DEV. OF PND. 7.94932
RDU	MAX = -195.9858 + .0774 X 40/080 THK + .2293 X RDU. MAX + .0407 X 35/085 HGT + -.0367 X 45/075 HGT + .2270 X DCA MIN +			
GSO	MAX R= .85973	STANDARD ERROR = 4.08897	REDUCTION OF VARIANCE = .73913	STD. DEV. OF PND. 8.00580
GSO	MAX = -286.3961 + .0988 X 40/080 THK + .2829 X ROA MAX + .0942 X 35/085 HGT + -.0787 X 40/080 HGT +			
TYS	MAX R= .88167	STANDARD ERROR = 3.60757	REDUCTION OF VARIANCE = .77734	STD. DEV. OF PND. 7.64529
TYS	MAX = -116.1642 + .2830 X TYS MAX + .0390 X 40/090 THK + .0430 X 35/085 HGT + .2374 X MEM MAX + -.0305 X 30/100 HGT +			
BNA	MAX R= .87699	STANDARD ERROR = 3.87024	REDUCTION OF VARIANCE = .76911	STD. DEV. OF PND. 8.05439
BNA	MAX = -260.7966 + .0702 X 40/090 THK + .3480 X MEM MAX + .0335 X 35/085 HGT +			
MEM	MAX R= .87671	STANDARD ERROR = 3.66747	REDUCTION OF VARIANCE = .76861	STD. DEV. OF PND. 7.62426
MEM	MAX = -252.5845 + .0469 X 40/090 THK + .3661 X MEM MAX + .0551 X 35/095 THK +			
LIT	MAX R= .87057	STANDARD ERROR = 3.77246	REDUCTION OF VARIANCE = .75790	STD. DEV. OF PND. 7.66696
LIT	MAX = -115.5946 + .1594 X FSM MAX + .2632 X CBI MIN + .0499 X 35/095 THK + .2470 X LIT MAX +			
FSM	MAX R= .86436	STANDARD ERROR = 4.03310	REDUCTION OF VARIANCE = .74711	STD. DEV. OF PND. 8.01998
FSM	MAX = -278.8630 + .3548 X FSM MAX + .0476 X 40/100 THK + .0633 X 35/095 THK +			
CHS	MAX R= .83969	STANDARD ERROR = 3.34520	REDUCTION OF VARIANCE = .70508	STD. DEV. OF PND. 6.15989
CHS	MAX = -142.3424 + .3207 X CHS MAX + .0312 X 35/085 THK + .1431 X RIC MAX + -.0591 X 40/080 HGT + .0427 X 40/080 THK + .0482 X 35/085 HGT +			
CLT	MAX R= .85943	STANDARD ERROR = 3.97725	REDUCTION OF VARIANCE = .73861	STD. DEV. OF PND. 7.77929
CLT	MAX = -145.8738 + -.0167 X 35/085 THK + .2774 X CLT MAX + .1586 X DCA MIN + .1878 X LOU MAX + -.0761 X 40/080 HGT + .0945 X 35/085 HGT + .0581 X 40/080 THK +			

AGS	MAX	R= .86088	STANDARD ERROR =	3.55700	REDUCTION OF VARIANCE =	.74111	STD. DEV. OF PND.	6.99076
AGS	MAX	= -104.4101 +	.0692 X 35/085 THK +	.3220 X AGS	MAX +	-.0177 X 45/075 HGT +	.1903 X DCA	MIN +
			-.2544 X TPA	MIN +	.1823 X BNA	MAX +		
AHN	MAX	R= .86413	STANDARD ERROR =	3.30720	REDUCTION OF VARIANCE =	.74673	STD. DEV. OF PND.	6.57155
AHN	MAX	= -99.9534 +	.0650 X 35/085 THK +	.3491 X AHN	MAX +	-.2701 X TPA	MIN +	.1827 X BNA
			-.0151 X 45/075 HGT +	.1341 X DCA	MIN +			
ATL	MAX	R= .86362	STANDARD ERROR =	3.61136	REDUCTION OF VARIANCE =	.74585	STD. DEV. OF PND.	7.16348
ATL	MAX	= -201.7144 +	.0850 X 35/085 THK +	.4116 X ATL	MAX +	-.2502 X JAX	MIN +	.5219 X ATL
			-.3330 X AHN	MIN +				
BHM	MAX	R= .86078	STANDARD ERROR =	3.49025	REDUCTION OF VARIANCE =	.74095	STD. DEV. OF PND.	6.85746
BHM	MAX	= -243.7107 +	.4558 X BHM	MAX +	.0591 X 35/095 THK +	.0436 X 35/085 THK +	-.2102 X CRP	MAX +
JAN	MAX	R= .86787	STANDARD ERROR =	3.37002	REDUCTION OF VARIANCE =	.75319	STD. DEV. OF PND.	6.78345
JAN	MAX	= -180.9503 +	.5125 X JAN	MAX +	.0742 X 35/095 THK +			
SHV	MAX	R= .85052	STANDARD ERROR =	3.41331	REDUCTION OF VARIANCE =	.72339	STD. DEV. OF PND.	6.48992
SHV	MAX	= -220.4726 +	.0919 X 35/095 THK +	.3398 X SHV	MAX +			
JAX	MAX	R= .81786	STANDARD ERROR =	3.18098	REDUCTION OF VARIANCE =	.66890	STD. DEV. OF PND.	5.52814
JAX	MAX	= -115.4150 +	.2778 X JAX	MAX +	.0512 X 35/085 THK +	-.0269 X 40/080 HGT +	.0269 X 30/080 HGT +	
			.1170 X RDJ	MAX +	.1681 X TLH	MAX +		
TLH	MAX	R= .80477	STANDARD ERROR =	3.14379	REDUCTION OF VARIANCE =	.64765	STD. DEV. OF PND.	5.29621
TLH	MAX	= -136.9015 +	.4912 X TLH	MAX +	.0482 X 35/085 THK +	.0308 X 30/090 HGT +	-.0194 X 35/075 HGT +	
MGM	MAX	R= .84900	STANDARD ERROR =	3.35624	REDUCTION OF VARIANCE =	.72080	STD. DEV. OF PND.	6.35173
MGM	MAX	= -196.6910 +	.4606 X MGM	MAX +	.0367 X 35/095 THK +	.0443 X 35/085 THK +		
MOB	MAX	R= .85126	STANDARD ERROR =	2.85221	REDUCTION OF VARIANCE =	.72465	STD. DEV. OF PND.	5.43549
MOB	MAX	= -70.3447 +	.4708 X MOB	MAX +	.0243 X 35/095 THK +	.0486 X 30/090 HGT +	-.0387 X 30/080 HGT +	
			.1948 X ATL	MIN +				
MSY	MAX	R= .83455	STANDARD ERROR =	2.61395	REDUCTION OF VARIANCE =	.69647	STD. DEV. OF PND.	4.74457
MSY	MAX	= -165.4843 +	.2876 X MSY	MAX +	.0331 X 35/095 THK +	.0371 X 30/090 THK +	.1662 X MOB	MAX +
LCH	MAX	R= .81876	STANDARD ERROR =	2.79406	REDUCTION OF VARIANCE =	.67036	STD. DEV. OF PND.	4.86650
LCH	MAX	= -107.8254 +	.4944 X LCH	MAX +	.0502 X 35/095 THK +			
HOU	MAX	R= .81849	STANDARD ERROR =	2.85318	REDUCTION OF VARIANCE =	.66992	STD. DEV. OF PND.	4.96617
HOU	MAX	= -131.7647 +	.4066 X HOU	MAX +	.0463 X 30/100 THK +	.1218 X FTW	MAX +	.0108 X 45/105 THK +
CRP	MAX	R= .83953	STANDARD ERROR =	2.28426	REDUCTION OF VARIANCE =	.70480	STD. DEV. OF PND.	4.20427
CRP	MAX	= -91.7313 +	.4405 X CRP	MAX +	.0436 X 30/100 THK +	.0523 X DAY OF YR +		
BRO	MAX	R= .78451	STANDARD ERROR =	2.30594	REDUCTION OF VARIANCE =	.61545	STD. DEV. OF PND.	3.71855
BRO	MAX	= -65.6711 +	.4618 X BRO	MAX +	.0335 X 30/100 THK +	.1483 X BRO	MIN +	
ORL	MAX	R= .79082	STANDARD ERROR =	2.60905	REDUCTION OF VARIANCE =	.62539	STD. DEV. OF PND.	4.26279
ORL	MAX	= -42.2916 +	.3177 X ORL	MAX +	.1693 X CHS	MIN +	.2104 X TLH	MAX +
			-.0102 X 40/080 HGT +				.0335 X 25/085 HGT +	
TPA	MAX	R= .76665	STANDARD ERROR =	2.31276	REDUCTION OF VARIANCE =	.58775	STD. DEV. OF PND.	3.60207
TPA	MAX	= -20.4465 +	.4094 X TPA	MAX +	.1611 X TLH	MAX +	.0144 X 35/085 HGT +	.1669 X EYW
							MIN +	
MIA	MAX	R= .80468	STANDARD ERROR =	1.85057	REDUCTION OF VARIANCE =	.64750	STD. DEV. OF PND.	3.11693
MIA	MAX	= -103.6519 +	.4592 X MIA	MAX +	.0466 X 30/080 THK +	-.0374 X 30/080 HGT +	.0367 X 25/085 HGT +	
			.1541 X EYW	MIN +				
EYW	MAX	R= .78508	STANDARD ERROR =	1.78836	REDUCTION OF VARIANCE =	.61635	STD. DEV. OF PND.	2.88727
EYW	MAX	= 17.2717 +	.4154 X EYW	MAX +	.2324 X EYW	MIN +	.0261 X DAY OF YR +	.1388 X MIA
							MAX +	

Southeast Min

		HGT: (700MB HEIGHT) IN METERS	THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS.	MAX, MINI TEMPERATURES IN DEGREES FAHRENHEIT.
SBY	MIN R=	.86614	STANDARD ERROR =	4.35432
			REDUCTION OF VARIANCE =	.75020
			STD. DEV. OF PND.	8.71216
SBY	MIN	= -277.1599 +	.1917 X CMH	MIN +
			.2375 X ORF	MAX +
			.0371 X 45/075 THK +	.0440 X 35/065 HGT +
			-.0367 X 40/080 HGT +	.0574 X 40/080 THK +
DCA	MIN R=	.90330	STANDARD ERROR =	3.27680
			REDUCTION OF VARIANCE =	.81596
			STD. DEV. OF PND.	7.63822
DCA	MIN	= -207.9558 +	.0607 X 40/080 THK +	.3347 X DCA
			MIN +	.1736 X DET
			MIN +	.0184 X 35/065 HGT +
CRW	MIN R=	.87234	STANDARD ERROR =	4.10678
			REDUCTION OF VARIANCE =	.76098
			STD. DEV. OF PND.	8.40001
CRW	MIN	= -148.2936 +	.2817 X IND	MIN +
			.0538 X 40/080 THK +	-.0312 X 40/090 HGT +
			.2519 X STL	MIN +
HTS	MIN R=	.89079	STANDARD ERROR =	3.78005
			REDUCTION OF VARIANCE =	.79350
			STD. DEV. OF PND.	8.31835
HTS	MIN	= -54.2886 +	.1302 X IND	MIN +
			.0492 X 40/080 THK +	.3072 X HTS
			MIN +	.0400 X 35/075 HGT +
			.2888 X CBI	MIN +
			-.0266 X 40/090 HGT +	-.0404 X 35/075 THK +
LOU	MIN R=	.90313	STANDARD ERROR =	3.58712
			REDUCTION OF VARIANCE =	.81564
			STD. DEV. OF PND.	8.35442
LOU	MIN	= -274.1842 +	.4370 X STL	MIN +
			.0151 X 40/080 THK +	.0371 X 25/075 HGT +
			-.0404 X 40/090 HGT +	.0535 X 40/090 THK +
			.0354 X 40/080 HGT +	
ORF	MIN R=	.89312	STANDARD ERROR =	3.41840
			REDUCTION OF VARIANCE =	.79767
			STD. DEV. OF PND.	7.59963
ORF	MIN	= -142.5986 +	.1717 X CMH	MIN +
			.3112 X ORF	MIN +
			.0568 X 40/080 THK +	.1809 X BOS
			MIN +	-.0404 X 40/080 HGT +
			.0387 X 35/075 HGT +	
RIC	MIN R=	.89627	STANDARD ERROR =	3.56402
			REDUCTION OF VARIANCE =	.80331
			STD. DEV. OF PND.	8.03613
RIC	MIN	= -228.2407 +	.0771 X 40/080 THK +	.2854 X RIC
			MIN +	.0479 X 35/075 HGT +
			.1918 X CMH	MIN +
ROA	MIN R=	.87104	STANDARD ERROR =	3.66551
			REDUCTION OF VARIANCE =	.75871
			STD. DEV. OF PND.	7.46212
ROA	MIN	= -162.4032 +	.0643 X 40/080 THK +	.2834 X ROA
			MIN +	.2165 X CMH
			MIN +	
HAT	MIN R=	.84071	STANDARD ERROR =	3.72948
			REDUCTION OF VARIANCE =	.70680
			STD. DEV. OF PND.	6.88757
HAT	MIN	= -109.1827 +	.6384 X HAT	MIN +
			.0446 X 40/080 THK +	
RDU	MIN R=	.89068	STANDARD ERROR =	3.45138
			REDUCTION OF VARIANCE =	.79330
			STD. DEV. OF PND.	7.59145
RDU	MIN	= -266.8671 +	.3706 X RDU	MIN +
			.0892 X 40/080 THK +	.0581 X 35/075 HGT +
			-.0463 X 40/080 HGT +	
GSO	MIN R=	.88530	STANDARD ERROR =	3.48332
			REDUCTION OF VARIANCE =	.78376
			STD. DEV. OF PND.	7.49078
GSO	MIN	= -168.2695 +	.3129 X GSO	MIN +
			.0400 X 40/080 THK +	.2681 X BNA
			MIN +	.0233 X 35/075 HGT +
TYS	MIN R=	.89436	STANDARD ERROR =	3.24535
			REDUCTION OF VARIANCE =	.79988
			STD. DEV. OF PND.	7.25457
TYS	MIN	= -239.7068 +	.3599 X BNA	MIN +
			.0597 X 35/085 THK +	.0285 X 35/075 HGT +
			.0556 X DAY OF	YR +
BNA	MIN R=	.90869	STANDARD ERROR =	3.35219
			REDUCTION OF VARIANCE =	.82572
			STD. DEV. OF PND.	8.02990
BNA	MIN	= -160.0756 +	.3621 X BNA	MIN +
			.2627 X CBI	MIN +
			.0184 X 35/075 HGT +	.0522 X 35/095 THK +
			-.0446 X 35/095 HGT +	.0341 X 35/085 HGT +
MEM	MIN R=	.88780	STANDARD ERROR =	3.36496
			REDUCTION OF VARIANCE =	.78820
			STD. DEV. OF PND.	7.31164
MEM	MIN	= -129.9830 +	.3779 X MEM	MIN +
			.0509 X 40/090 THK +	.2654 X FTW
			MIN +	
LIT	MIN R=	.88900	STANDARD ERROR =	3.22409
			REDUCTION OF VARIANCE =	.79032
			STD. DEV. OF PND.	7.04092
LIT	MIN	= -140.6156 +	.5041 X LIT	MIN +
			.0535 X 35/095 THK +	.1322 X STL
			MAX +	
FSM	MIN R=	.88822	STANDARD ERROR =	3.31753
			REDUCTION OF VARIANCE =	.78894
			STD. DEV. OF PND.	7.22125
FSM	MIN	= -157.1171 +	.4494 X FSM	MIN +
			.0600 X 35/095 THK +	.1596 X DDC
			MIN +	
CHS	MIN R=	.86884	STANDARD ERROR =	3.20868
			REDUCTION OF VARIANCE =	.75488
			STD. DEV. OF PND.	6.48093
CHS	MIN	= -128.4540 +	.4468 X CHS	MIN +
			.2373 X MEM	MIN +
			.0495 X 35/075 THK +	
CLT	MIN R=	.89826	STANDARD ERROR =	2.98442
			REDUCTION OF VARIANCE =	.80687
			STD. DEV. OF PND.	6.79100
GLT	MIN	= -286.5401 +	.3707 X CLT	MIN +
			.0951 X 35/085 THK +	.0463 X 35/075 HGT +
			-.0341 X 35/085 HGT +	

AGS	MIN	R=	.89642	STANDARD ERROR =	3.14775	REDUCTION OF VARIANCE =	.80357	STD. DEV. OF PND.	7.10232					
AGS	MIN	=	-258.6829	+	.4483 X AGS	MIN	+	.0968 X 35/085 THK	+	.0420 X 35/075 HGT	+	-.0427 X 35/085 HGT		
AHN	MIN	R=	.91010	STANDARD ERROR =	2.78891	REDUCTION OF VARIANCE =	.82829	STD. DEV. OF PND.	6.73024					
AHN	MIN	=	-156.4080	+	.2036 X ATL	MIN	+	.0591 X 35/085 THK	+	.2296 X BHM	MIN	+	.2085 X CLT	MIN
ATL	MIN	R=	.90340	STANDARD ERROR =	2.76399	REDUCTION OF VARIANCE =	.81612	STD. DEV. OF PND.	6.44575					
ATL	MIN	=	-173.3418	+	.0666 X 35/085 THK	+	.3696 X ATL	MIN	+	.1906 X FSM	MIN	+		
BHM	MIN	R=	.89491	STANDARD ERROR =	3.29373	REDUCTION OF VARIANCE =	.80087	STD. DEV. OF PND.	7.38103					
BHM	MIN	=	-76.7866	+	.4082 X BHM	MIN	+	.0397 X 35/085 THK	+	.3161 X FTW	MIN	+	.0259 X 35/075 HGT	+
JAN	MIN	R=	.89070	STANDARD ERROR =	2.97628	REDUCTION OF VARIANCE =	.79334	STD. DEV. OF PND.	6.54702					
JAN	MIN	=	-123.0687	+	.3908 X JAN	MIN	+	.2888 X FTW	MIN	+	.0476 X 35/085 THK	+		
SHV	MIN	R=	.87438	STANDARD ERROR =	2.95268	REDUCTION OF VARIANCE =	.76455	STD. DEV. OF PND.	6.08503					
SHV	MIN	=	-166.0901	+	.5058 X SHV	MIN	+	.0656 X 35/095 THK	+					
JAX	MIN	R=	.85678	STANDARD ERROR =	2.79269	REDUCTION OF VARIANCE =	.73407	STD. DEV. OF PND.	5.41553					
JAX	MIN	=	-113.3604	+	.3399 X JAX	MIN	+	.3143 X MGM	MIN	+	.0456 X 30/080 THK	+		
TLH	MIN	R=	.87871	STANDARD ERROR =	2.79821	REDUCTION OF VARIANCE =	.77213	STD. DEV. OF PND.	5.86182					
TLH	MIN	=	-77.2500	+	.4486 X TLH	MIN	+	.0318 X 35/085 THK	+	.2749 X M9M	MIN	+		
MGM	MIN	R=	.90351	STANDARD ERROR =	2.80843	REDUCTION OF VARIANCE =	.81632	STD. DEV. OF PND.	6.55291					
MGM	MIN	=	-131.2260	+	.4195 X MGM	MIN	+	.0492 X 35/085 THK	+	.0492 X DAY OF YR	+	.1963 X SHV	MIN	
MOB	MIN	R=	.87267	STANDARD ERROR =	2.72927	REDUCTION OF VARIANCE =	.76155	STD. DEV. OF PND.	5.58914					
MOB	MIN	=	-155.9896	+	.5494 X MOB	MIN	+	.0354 X 35/085 THK	+	.0259 X 35/095 THK	+			
MSY	MIN	R=	.86062	STANDARD ERROR =	2.89787	REDUCTION OF VARIANCE =	.74067	STD. DEV. OF PND.	5.69058					
MSY	MIN	=	-108.3874	+	.5997 X MSY	MIN	+	.1386 X FTW	MIN	+	.0417 X 30/090 THK	+		
LCH	MIN	R=	.86985	STANDARD ERROR =	2.54128	REDUCTION OF VARIANCE =	.75665	STD. DEV. OF PND.	5.15151					
LCH	MIN	=	-95.1251	+	.6465 X LCH	MIN	+	.0394 X 35/095 THK	+					
HOU	MIN	R=	.85488	STANDARD ERROR =	2.64906	REDUCTION OF VARIANCE =	.73081	STD. DEV. OF PND.	5.10581					
HOU	MIN	=	-9.0791	+	.5514 X HOU	MIN	+	.0308 X 35/095 THK	+	.0661 X DAY OF YR	+	-.0203 X 35/105 HGT	+	
CRP	MIN	R=	.84295	STANDARD ERROR =	2.62357	REDUCTION OF VARIANCE =	.71057	STD. DEV. OF PND.	4.87661					
CRP	MIN	=	-89.0503	+	.3954 X CRP	MIN	+	.0456 X 35/105 THK	+	-.0417 X 35/105 HGT	+	.2425 X HOU	MIN	
BRO	MIN	R=	.84232	STANDARD ERROR =	2.37412	REDUCTION OF VARIANCE =	.70950	STD. DEV. OF PND.	4.40481					
BRO	MIN	=	-151.4595	+	.5132 X BRO	MIN	+	.0463 X 30/100 THK	+	-.0272 X 35/105 HGT	+	.0138 X 45/105 THK	+	
ORL	MIN	R=	.86622	STANDARD ERROR =	2.03318	REDUCTION OF VARIANCE =	.75034	STD. DEV. OF PND.	4.06916					
ORL	MIN	=	6.5776	+	.4468 X ORL	MIN	+	.1764 X MOB	MIN	+	.1568 X ORL	MAX	+	.0361 X DAY OF YR
TPA	MIN	R=	.84761	STANDARD ERROR =	2.34362	REDUCTION OF VARIANCE =	.71845	STD. DEV. OF PND.	4.41682					
TPA	MIN	=	-66.7704	+	.4769 X TPA	MIN	+	.2439 X MGM	MIN	+	.0289 X 25/075 THK	+		
MIA	MIN	R=	.80682	STANDARD ERROR =	2.34006	REDUCTION OF VARIANCE =	.65096	STD. DEV. OF PND.	3.96086					
MIA	MIN	=	-17.7733	+	.4158 X MIA	MIN	+	.0272 X 25/075 HGT	+	.2130 X ORL	MIN	+	-.0328 X 25/095 HGT	+
EYW	MIN	R=	.68624	STANDARD ERROR =	2.23451	REDUCTION OF VARIANCE =	.47093	STD. DEV. OF PND.	3.07203					
EYW	MIN	=	-18.9774	+	.4764 X EYW	MIN	+	.0967 X CHS	MIN	+	.0167 X 25/075 HGT	+		

Northeast Max

May-June

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

CAR	MAX	R= .85447	STANDARD ERROR =	5.71394	REDUCTION OF VARIANCE =	.73011	STD. DEV. OF PND.	10.99880
CAR	MAX	= -237.1157 +	.0961 X 50/070 THK +	.2820 X QB	MAX +	.0702 X 45/075 HGT +	-.0305 X 55/065 HGT +	
			-.0381 X 40/080 HGT +					
SSM	MAX	R= .87632	STANDARD ERROR =	5.16031	REDUCTION OF VARIANCE =	.76794	STD. DEV. OF PND.	10.71215
SSM	MAX	= -184.1424 +	.0804 X 50/090 THK +	-.0092 X 45/085 THK +	.1924 X DLH	MAX +	.0948 X 45/085 HGT +	
			-.0489 X 40/090 HGT +	-.0387 X 50/090 HGT +	.2320 X YB	MIN +		
PWM	MAX	R= .87691	STANDARD ERROR =	5.00337	REDUCTION OF VARIANCE =	.76897	STD. DEV. OF PND.	10.40955
PWM	MAX	= -180.8682 +	.0980 X BOS	MIN +	.0807 X 45/075 HGT +	-.0407 X 50/070 HGT +	-.1924 X RIC	MIN +
			.0774 X 45/065 THK +	-.0440 X 45/065 HGT +	-.2838 X HFD	MIN +	.1444 X QB	MAX +
BTV	MAX	R= .89247	STANDARD ERROR =	4.77764	REDUCTION OF VARIANCE =	.79651	STD. DEV. OF PND.	10.59115
BTV	MAX	= -223.8056 +	.0600 X 45/075 THK +	.0541 X 45/075 HGT +	.3036 X BOS	MIN +	.2172 X YB	MAX +
			-.0253 X 50/080 HGT +					
SYR	MAX	R= .89761	STANDARD ERROR =	4.68780	REDUCTION OF VARIANCE =	.80570	STD. DEV. OF PND.	10.63476
SYR	MAX	= -311.3631 +	.0712 X 45/075 THK +	.2072 X GRR	MAX +	.0456 X 45/075 HGT +	-.0308 X 50/080 HGT +	
			.0387 X 45/085 THK +					
BUF	MAX	R= .89907	STANDARD ERROR =	4.56219	REDUCTION OF VARIANCE =	.80833	STD. DEV. OF PND.	10.42073
BUF	MAX	= -173.3739 +	.0506 X DET	MIN +	.0499 X 45/075 HGT +	.0518 X 45/085 THK +	.2589 X GRR	MAX +
			-.0315 X 45/095 HGT +	.0968 X DAY OF YR +				
DET	MAX	R= .90781	STANDARD ERROR =	4.44621	REDUCTION OF VARIANCE =	.82413	STD. DEV. OF PND.	10.60206
DET	MAX	= -204.4809 +	.0991 X 45/085 THK +	.2416 X MLI	MAX +	.2450 X MKE	MIN +	-.0148 X 55/085 HGT +
FNT	MAX	R= .89886	STANDARD ERROR =	4.62929	REDUCTION OF VARIANCE =	.80794	STD. DEV. OF PND.	10.56331
FNT	MAX	= -305.5024 +	.1224 X 45/085 THK +	.2540 X MSN	MAX +			
GRR	MAX	R= .89978	STANDARD ERROR =	4.52618	REDUCTION OF VARIANCE =	.80960	STD. DEV. OF PND.	10.37293
GRR	MAX	= -221.6631 +	.0751 X 45/085 THK +	.2737 X DSM	MAX +	.0443 X 45/085 HGT +	-.0299 X 50/090 HGT +	
			.1745 X FAR	MIN +				
MKE	MAX	R= .89109	STANDARD ERROR =	5.57072	REDUCTION OF VARIANCE =	.79404	STD. DEV. OF PND.	12.27502
MKE	MAX	= -273.5447 +	.1050 X 45/085 THK +	.0801 X 45/095 THK +	-.0574 X 50/090 HGT +	.0696 X 40/090 HGT +		
			-.0879 X 40/090 THK +	.3842 X MKE	MIN +			
GRB	MAX	R= .84389	STANDARD ERROR =	5.65403	REDUCTION OF VARIANCE =	.71216	STD. DEV. OF PND.	10.53856
GRB	MAX	= -134.0541 +	.0568 X 45/085 THK +	.2953 X STC	MAX +	.3997 X DLH	MIN +	
MSN	MAX	R= .85647	STANDARD ERROR =	5.46323	REDUCTION OF VARIANCE =	.73354	STD. DEV. OF PND.	10.58365
MSN	MAX	= -203.3974 +	.0833 X 45/095 THK +	.3830 X MKE	MIN +	.3509 X MSN	MAX +	-.1849 X DET
								MAX +
ACK	MAX	R= .85182	STANDARD ERROR =	3.92562	REDUCTION OF VARIANCE =	.72560	STD. DEV. OF PND.	7.49406
ACK	MAX	= -27.0851 +	.2626 X BOS	MIN +	.1626 X ACK	MAX +	.3892 X ACK	MIN +
			-.3059 X HFD	MIN +	.0125 X 45/085 HGT +		.4108 X NYC	MIN +
BOS	MAX	R= .86500	STANDARD ERROR =	5.59060	REDUCTION OF VARIANCE =	.74823	STD. DEV. OF PND.	11.14190
BOS	MAX	= -199.6881 +	.9894 X BOS	MIN +	-.0554 X 50/070 HGT +	.0243 X 45/075 HGT +	.0643 X 45/075 THK +	
			-.4109 X RIC	MIN +	.0463 X 35/075 HGT +			
HFD	MAX	R= .85544	STANDARD ERROR =	5.25951	REDUCTION OF VARIANCE =	.73177	STD. DEV. OF PND.	10.15531
HFD	MAX	= -148.6968 +	.8698 X NYC	MIN +	.0509 X 45/075 HGT +	-.0469 X 50/070 HGT +	.0607 X 45/075 THK +	
			-.3338 X RIC	MIN +				
ALB	MAX	R= .86524	STANDARD ERROR =	5.20976	REDUCTION OF VARIANCE =	.74864	STD. DEV. OF PND.	10.39138
ALB	MAX	= -319.8892 +	.0929 X 45/075 THK +	.0345 X 40/080 HGT +	.5414 X NYC	MIN +	-.2691 X ORF	MIN +
NYC	MAX	R= .87560	STANDARD ERROR =	4.76790	REDUCTION OF VARIANCE =	.76667	STD. DEV. OF PND.	9.87059
NYC	MAX	= -125.7437 +	.8834 X NYC	MIN +	.0410 X 40/080 HGT +	-.0341 X 50/070 HGT +	.0472 X 45/075 THK +	
			-.2560 X RDU	MIN +				
PHL	MAX	R= .87156	STANDARD ERROR =	4.68033	REDUCTION OF VARIANCE =	.75961	STD. DEV. OF PND.	9.54598
PHL	MAX	= -180.5335 +	.4771 X NYC	MIN +	.1363 X DET	MAX +	.0696 X 40/080 HGT +	-.0558 X 45/075 HGT +
			.0597 X 45/075 THK +					

IPT MAX R= .86989 STANDARD ERROR = 4.92662 REDUCTION OF VARIANCE = .75671 STD. DEV. OF PND. 9.98825
 IPT MAX = -218.3017 + .2347 X FNT MAX + .3745 X NYC MIN + .0541 X 40/080 HGT + -.0295 X 50/070 HGT +
 .0633 X 45/075 THK + -.1833 X CRW MIN +

PIT MAX R= .89819 STANDARD ERROR = 4.11375 REDUCTION OF VARIANCE = .80674 STD. DEV. OF PND. 9.35774
 PIT MAX = -331.5828 + .0495 X 40/080 THK + .0614 X 40/080 HGT + .1486 X CHI MAX + .0495 X 45/085 THK +
 -.0285 X 45/085 HGT +

CLE MAX R= .91427 STANDARD ERROR = 4.30776 REDUCTION OF VARIANCE = .83589 STD. DEV. OF PND. 10.63370
 CLE MAX = -356.2057 + .1181 X 45/085 THK + .0669 X 40/080 HGT + -.0449 X 45/085 HGT + .1834 X PIA MAX +

CMH MAX R= .90484 STANDARD ERROR = 4.08288 REDUCTION OF VARIANCE = .81874 STD. DEV. OF PND. 9.58985
 CMH MAX = -201.6491 + .2050 X DAY MIN + .2827 X PIA MAX + .0561 X 45/085 THK + .0522 X 40/080 HGT +
 -.0262 X 45/085 HGT +

DAY MAX R= .89489 STANDARD ERROR = 4.25573 REDUCTION OF VARIANCE = .80083 STD. DEV. OF PND. 9.53587
 DAY MAX = -305.8164 + .0518 X 40/090 THK + .2847 X PIA MAX + .0390 X 45/085 THK + .0292 X 40/080 HGT +

CVG MAX R= .87739 STANDARD ERROR = 4.43386 REDUCTION OF VARIANCE = .76982 STD. DEV. OF PND. 9.24161
 CVG MAX = -292.1082 + .0820 X 40/090 THK + .2749 X PIA MAX + .0335 X 40/080 HGT +

IND MAX R= .89180 STANDARD ERROR = 4.30310 REDUCTION OF VARIANCE = .79531 STD. DEV. OF PND. 9.51110
 IND MAX = -229.8890 + .0938 X 40/090 THK + .2184 X PIA MAX + .4157 X DAY MIN + -.2222 X HTS MIN +

CHI MAX R= .87627 STANDARD ERROR = 5.54499 REDUCTION OF VARIANCE = .76784 STD. DEV. OF PND. 11.50822
 CHI MAX = -143.5073 + .0535 X 45/085 THK + .1964 X OMA MAX + .0499 X 45/095 THK + -.0581 X 45/095 HGT +
 .0755 X 40/090 HGT + -.0574 X 35/085 THK + .2834 X MSN MIN +

PIA MAX R= .89498 STANDARD ERROR = 4.36332 REDUCTION OF VARIANCE = .80098 STD. DEV. OF PND. 9.78075
 PIA MAX = -134.7729 + .3516 X PIA MIN + .0505 X 45/095 THK + .2124 X DSM MAX + .0932 X 40/090 HGT +
 -.0433 X 45/095 HGT + -.0410 X 35/085 HGT +

MLI MAX R= .87496 STANDARD ERROR = 4.89722 REDUCTION OF VARIANCE = .76555 STD. DEV. OF PND. 10.11403
 MLI MAX = -284.9444 + .1050 X 45/095 THK + .2877 X MLI MAX + -.0417 X 45/095 HGT + .0505 X 40/090 HGT +

STL MAX R= .88130 STANDARD ERROR = 4.40749 REDUCTION OF VARIANCE = .77669 STD. DEV. OF PND. 9.32687
 STL MAX = -310.6830 + .0833 X 40/090 THK + .0413 X 40/100 THK + .3052 X STL MIN +

CBI MAX R= .87274 STANDARD ERROR = 4.39440 REDUCTION OF VARIANCE = .76167 STD. DEV. OF PND. 9.00146
 CBI MAX = -286.4635 + .0663 X 40/090 THK + .0495 X 40/100 THK + .6524 X MKC MIN + -.3444 X TOP MIN +

Northeast Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN TEMPERATURES IN DEGREES FAHRENHEIT.

CAR MIN R= .87219 STANDARD ERROR = 4.08313 REDUCTION OF VARIANCE = .76072 STD. DEV. OF PND. 8.34719
 CAR MIN = -307.5199 + .0696 X 50/070 THK + .0469 X 45/065 THK + .0881 X DAY OF YR +

SSM MIN R= .88700 STANDARD ERROR = 3.70694 REDUCTION OF VARIANCE = .78677 STD. DEV. OF PND. 8.02771
 SSM MIN = -89.5000 + .2544 X INL MIN + .0348 X 45/085 THK + .0112 X 55/085 THK + -.0262 X 40/100 HGT +
 .0774 X DAY OF YR + .0167 X 50/080 HGT + .1671 X SSM MIN +

PWM MIN R= .85832 STANDARD ERROR = 4.08002 REDUCTION OF VARIANCE = .73671 STD. DEV. OF PND. 7.95137
 PWM MIN = -211.9477 + .0400 X 45/065 THK + .0610 X 45/075 THK + .2283 X PWM MIN + .0733 X DAY OF YR +
 -.0194 X 45/075 HGT +

BTV MIN R= .88488 STANDARD ERROR = 4.55752 REDUCTION OF VARIANCE = .78301 STD. DEV. OF PND. 9.78386
 BTV MIN = -202.2948 + .0387 X 45/075 THK + .2593 X BTV MIN + .2036 X MKE MIN + .0315 X 45/065 HGT +
 -.0410 X 45/085 HGT + .0492 X 45/095 THK +

SYR MIN R= .89192 STANDARD ERROR = 4.18713 REDUCTION OF VARIANCE = .79551 STD. DEV. OF PND. 9.25942
 SYR MIN = -312.8998 + .0577 X 45/075 THK + .3272 X SSM MIN + .0325 X 35/065 HGT + .0561 X 45/085 THK +
 -.0282 X 45/085 HGT +

BUF MIN R= .90899 STANDARD ERROR = 3.79242 REDUCTION OF VARIANCE = .82626 STD. DEV. OF PND. 9.09834
 BUF MIN = -225.3073 + .0302 X 45/075 THK + .0620 X 45/085 THK + .1117 X DAY OF YR + .2156 X CHI MIN +
 -.0308 X 40/090 HGT + .0233 X 40/070 HGT +

DET MIN R= .89856 STANDARD ERROR = 4.12924 REDUCTION OF VARIANCE = .80740 STD. DEV. OF PND. 9.40900
 DET MIN = -142.0411 + .0768 X 45/085 THK + .3006 X GRB MIN + .1274 X DAY OF YR + -.0210 X 50/100 HGT +

FNT MIN R= .89914 STANDARD ERROR = 4.28082 REDUCTION OF VARIANCE = .80845 STD. DEV. OF PND. 9.78097
 FNT MIN = -207.2872 + .0472 X 45/085 THK + .2757 X CHI MIN + .0893 X DAY OF YR + -.0436 X 45/095 HGT +
 .0285 X 45/075 HGT + .0463 X 45/095 THK +

GRR MIN R= .89926 STANDARD ERROR = 4.18414 REDUCTION OF VARIANCE = .80866 STD. DEV. OF PND. 9.56551
 GRR MIN = -98.4350 + .0463 X 45/085 THK + .3094 X STC MIN + .1955 X CHI MIN + -.0338 X 40/100 HGT +
 .0897 X DAY OF YR + .0256 X 40/080 HGT +

MKE MIN R= .86506 STANDARD ERROR = 4.43021 REDUCTION OF VARIANCE = .74833 STD. DEV. OF PND. 8.83098
 MKE MIN = -79.5540 + .0541 X 45/085 THK + .3659 X MSP MIN + .1309 X DAY OF YR + -.0226 X 50/100 HGT +

GRB MIN R= .86884 STANDARD ERROR = 4.67670 REDUCTION OF VARIANCE = .75488 STD. DEV. OF PND. 9.44596
 GRB MIN = -147.8866 + .0387 X 45/085 THK + .2428 X FAR MIN + .2731 X GRB MIN + .0381 X 50/090 THK +
 -.0177 X 50/100 HGT +

MSN MIN R= .88062 STANDARD ERROR = 4.53170 REDUCTION OF VARIANCE = .77548 STD. DEV. OF PND. 9.56394
 MSN MIN = -164.4609 + .0377 X 45/085 THK + .0676 X 45/095 THK + .2886 X MSP MIN + -.0492 X 45/095 HGT +
 .0459 X 40/080 HGT + .0932 X DAY OF YR + -.0400 X 40/080 THK +

ACK MIN R= .90751 STANDARD ERROR = 2.79969 REDUCTION OF VARIANCE = .82357 STD. DEV. OF PND. 6.66529
 ACK MIN = -94.2783 + .4133 X ACK MIN + .0430 X 45/075 THK + .1083 X DAY OF YR + -.0285 X 45/075 HGT +
 .0220 X 40/070 HGT +

BOS MIN R= .87988 STANDARD ERROR = 3.56820 REDUCTION OF VARIANCE = .77419 STD. DEV. OF PND. 7.50894
 BOS MIN = -113.1998 + .2544 X BOS MIN + .0433 X 45/075 THK + .1096 X DAY OF YR + .1379 X BOS MAX +

HFD MIN R= .88276 STANDARD ERROR = 4.00685 REDUCTION OF VARIANCE = .77927 STD. DEV. OF PND. 8.52843
 HFD MIN = -209.7310 + .0840 X 45/075 THK + .2940 X HFD MIN + -.0404 X 45/075 HGT + .0354 X 40/070 HGT +
 .0829 X DAY OF YR +

ALB MIN R= .87234 STANDARD ERROR = 4.46059 REDUCTION OF VARIANCE = .76097 STD. DEV. OF PND. 9.12358
 ALB MIN = -222.1968 + .0892 X 45/075 THK + .2574 X BUF MIN + .0777 X DAY OF YR + -.0282 X 45/075 HGT +
 .0236 X 45/065 HGT +

NYC MIN R= .89261 STANDARD ERROR = 3.42854 REDUCTION OF VARIANCE = .79675 STD. DEV. OF PND. 7.60493
 NYC MIN = -128.9037 + .4405 X NYC MIN + .0505 X 45/075 THK + .0865 X DAY OF YR +

PHL MIN R= .87956 STANDARD ERROR = 3.76450 REDUCTION OF VARIANCE = .77362 STD. DEV. OF PND. 7.91204
 PHL MIN = -152.6630 + .4213 X PHL MIN + .0374 X 45/075 THK + .1783 X FNT MIN + .0213 X 35/075 HGT +

IPT MIN R= .86639 STANDARD ERROR = 4.28670 REDUCTION OF VARIANCE = .75063 STD. DEV. OF PND. 8.58427
 IPT MIN = -177.5683 + .0486 X 45/075 THK + .2410 X RIC MIN + .2987 X GRR MIN + .0187 X 40/070 HGT +

PIT MIN R= .86255 STANDARD ERROR = 4.39409 REDUCTION OF VARIANCE = .74399 STD. DEV. OF PND. 8.68446
 PIT MIN = -271.2846 + .0810 X 40/080 THK + .2920 X CHI MIN + .0223 X 45/075 HGT +

CLE MIN R= .89399 STANDARD ERROR = 4.14048 REDUCTION OF VARIANCE = .79921 STD. DEV. OF PND. 9.24025
 CLE MIN = -150.8517 + .2947 X CHI MIN + .0463 X 45/085 THK + .0410 X 35/075 HGT + -.0295 X 45/095 HGT +
 .2769 X MSP MIN +

CMH MIN R= .90140 STANDARD ERROR = 3.81657 REDUCTION OF VARIANCE = .81252 STD. DEV. OF PND. 8.81439
 CMH MIN = -247.9919 + .3716 X PIA MIN + .0207 X 40/080 THK + .0269 X 45/075 HGT + -.0518 X 40/090 HGT +
 .0627 X 40/090 THK + .0354 X 35/075 HGT +

DAY MIN R= .89812 STANDARD ERROR = 3.81762 REDUCTION OF VARIANCE = .80662 STD. DEV. OF PND. 8.68125
 DAY MIN = -255.2241 + .4058 X PIA MIN + .0581 X 45/085 THK + .0374 X 35/075 HGT +

CVG MIN R= .89337 STANDARD ERROR = 3.80635 REDUCTION OF VARIANCE = .79812 STD. DEV. OF PND. 8.47150
 CVG MIN = -209.6838 + .3790 X PIA MIN + .0207 X 35/075 HGT + .0725 X 40/090 THK + -.0495 X 40/090 HGT +
 .0377 X 40/080 HGT +

Northwest Max

July-August

HGT: (700MB HFIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX. MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL	MAX	R=	.78758	STANDARD ERROR =	4.65508	REDUCTION OF VARIANCE =	.62028	STD. DEV. OF PND.	7.55430
INL	MAX	=	-176.8173 +	.0594 X 50/100 THK +	.1555 X INL MAX +	.2407 X LH MIN +			-.0141 X 60/100 HGT +
				.0267 X 45/095 HGT +	.1330 X QR MAX +				
DLH	MAX	R=	.76929	STANDARD ERROR =	5.14843	REDUCTION OF VARIANCE =	.59180	STD. DEV. OF PND.	8.05821
DLH	MAX	=	-132.9401 +	.2223 X WG MAX +	.3488 X DLH MIN +	.0459 X 50/100 THK +			-.0254 X 60/090 HGT +
				.0321 X 45/105 HGT +	.1890 X LH MIN +				
STC	MAX	R=	.78719	STANDARD ERROR =	4.49335	REDUCTION OF VARIANCE =	.61966	STD. DEV. OF PND.	7.28595
STC	MAX	=	-168.2055 +	.2142 X BIS MAX +	.2428 X DLH MIN +	.0521 X 50/100 THK +			.0314 X 45/095 THK +
				-.0108 X 60/090 HGT +					
FAR	MAX	R=	.80007	STANDARD ERROR =	4.70792	REDUCTION OF VARIANCE =	.64011	STD. DEV. OF PND.	7.84769
FAR	MAX	=	-186.0735 +	.0694 X 50/100 THK +	.2121 X FAR MAX +	.1210 X GTF MAX +			-.0289 X 55/105 HGT +
				.0354 X 45/095 HGT +	.1505 X YC MAX +				
BIS	MAX	R=	.79842	STANDARD ERROR =	5.30193	REDUCTION OF VARIANCE =	.63748	STD. DEV. OF PND.	8.80575
BIS	MAX	=	-101.9916 +	.0486 X 50/100 THK +	.1688 X GTF MAX +	-.0286 X 60/110 HGT +			.0599 X 45/105 HGT +
				-.0340 X 50/120 HGT +	.2053 X BIS MAX +	.1828 X YC MAX +			
ISN	MAX	R=	.79260	STANDARD ERROR =	5.67240	REDUCTION OF VARIANCE =	.62822	STD. DEV. OF PND.	9.30302
ISN	MAX	=	-228.7692 +	.0973 X 50/110 THK +	-.0305 X 60/120 HGT +	.0724 X 45/105 HGT +			.2359 X QR MAX +
				-.0274 X 45/125 HGT +	-.0157 X 60/100 HGT +				
GSG	MAX	R=	.83105	STANDARD ERROR =	5.07722	REDUCTION OF VARIANCE =	.69064	STD. DEV. OF PND.	9.12838
GSG	MAX	=	-197.3655 +	.0637 X 50/110 THK +	.0978 X 45/105 HGT +	-.0275 X 55/125 HGT +			.2822 X EG MAX +
				.2025 X BNO MAX +	-.0237 X 60/110 HGT +	-.0310 X 45/125 HGT +			
BIL	MAX	R=	.85387	STANDARD ERROR =	4.46295	REDUCTION OF VARIANCE =	.72910	STD. DEV. OF PND.	8.57464
BIL	MAX	=	-138.1376 +	.2482 X HLN MAX +	.0530 X 45/105 HGT +	-.0359 X 55/125 HGT +			.0411 X 50/110 THK +
				.2622 X EG MIN +	.0722 X 45/115 HGT +	-.0497 X 45/125 HGT +			-.0201 X 60/110 HGT +
GTF	MAX	R=	.85795	STANDARD ERROR =	4.65251	REDUCTION OF VARIANCE =	.73607	STD. DEV. OF PND.	9.05615
GTF	MAX	=	-247.4178 +	.4515 X GTF MIN +	.0985 X 45/115 HGT +	-.0391 X 50/130 HGT +			.0159 X 50/110 THK +
				-.3661 X MSO MIN +	.2468 X MSO MAX +	.0420 X 55/115 THK +			-.0192 X 60/120 HGT +
HLN	MAX	R=	.85087	STANDARD ERROR =	4.46678	REDUCTION OF VARIANCE =	.72399	STD. DEV. OF PND.	8.50215
HLN	MAX	=	-43.8668 +	.1083 X 45/115 HGT +	.1886 X HLN MAX +	-.0334 X 50/130 HGT +			.3548 X GTF MIN +
				-.3816 X MSO MIN +	.2607 X BNO MAX +	-.0507 X 35/125 HGT +			.2172 X EG MIN +
MSO	MAX	R=	.85045	STANDARD ERROR =	4.84133	REDUCTION OF VARIANCE =	.72327	STD. DEV. OF PND.	9.20320
MSO	MAX	=	-142.8979 +	.1278 X 45/115 HGT +	.4861 X BNO MAX +	-.0710 X 35/125 HGT +			.3561 X GTF MIN +
				-.2427 X MSO MIN +					
GEG	MAX	R=	.88768	STANDARD ERROR =	4.05316	REDUCTION OF VARIANCE =	.78797	STD. DEV. OF PND.	8.80234
GEG	MAX	=	-215.0576 +	.0790 X 50/120 HGT +	.2895 X GEG MIN +	.2622 X MPR MAX +			.2336 X B01 MIN +
PDT	MAX	R=	.88911	STANDARD ERROR =	3.88003	REDUCTION OF VARIANCE =	.79051	STD. DEV. OF PND.	8.47729
PDT	MAX	=	-286.1426 +	.0522 X 45/125 THK +	.0579 X 50/120 HGT +	.2720 X MPR MAX +			.2515 X GEG MIN +
YKM	MAX	R=	.88272	STANDARD ERROR =	3.76459	REDUCTION OF VARIANCE =	.77920	STD. DEV. OF PND.	8.01149
YKM	MAX	=	-310.8733 +	.0624 X 50/120 HGT +	.2875 X YKM MAX +	.0603 X 45/125 THK +			
PDX	MAX	R=	.79670	STANDARD ERROR =	4.71188	REDUCTION OF VARIANCE =	.63473	STD. DEV. OF PND.	7.79630
PDX	MAX	=	-321.4397 +	.0697 X 45/125 THK +	.0628 X 50/120 HGT +	-.2422 X YKM MIN +			.3556 X PDX MAX +
				-.2017 X PDT MAX +					
SEA	MAX	R=	.77893	STANDARD ERROR =	4.52834	REDUCTION OF VARIANCE =	.60673	STD. DEV. OF PND.	7.22091
SEA	MAX	=	-269.5508 +	.0564 X 50/120 HGT +	.3320 X SLE MAX +	.0523 X 50/130 THK +			-.2302 X YKM MIN +
TTI	MAX	R=	.49311	STANDARD ERROR =	3.04642	REDUCTION OF VARIANCE =	.24316	STD. DEV. OF PND.	3.50176
TTI	MAX	=	37.3123 +	.3221 X SEA MIN +	-.1232 X YKM MIN +	.2601 X EKA MAX +			.0213 X 55/125 HGT +
				-.0059 X 50/150 HGT +	-.0174 X 55/125 THK +				
MSP	MAX	R=	.78857	STANDARD ERROR =	4.55406	REDUCTION OF VARIANCE =	.62184	STD. DEV. OF PND.	7.40562
MSP	MAX	=	-173.9021 +	.0719 X 45/095 THK +	.1480 X GSG MAX +	.2323 X DLH MIN +			.1724 X BIS MAX +

HON	MAX	R=	.78636	STANDARD ERROR =	4.94319	REDUCTION OF VARIANCE =	.61837	STD. DEV. OF PND.	8.00177
HON	MAX	=	-58.9188 +	.0525 X 45/105 THK +	.2653 X HON	MAX +	.3744 X RAP	MIN +	-.0235 X 55/105 HGT +
				.1669 X QR	MAX +				
RAP	MAX	R=	.77831	STANDARD ERROR =	5.54949	REDUCTION OF VARIANCE =	.60577	STD. DEV. OF PND.	8.83853
RAP	MAX	=	-103.6472 +	.0517 X 45/105 THK +	.3098 X HLN	MAX +	-.0443 X 55/125 HGT +	.3316 X RAP	MIN +
				.0393 X 40/100 HGT +					
CPR	MAX	R=	.78950	STANDARD ERROR =	4.35872	REDUCTION OF VARIANCE =	.62332	STD. DEV. OF PND.	7.10185
CPR	MAX	=	-241.7572 +	.2428 X BIL	MAX +	.1166 X 40/110 HGT +	-.0591 X 50/120 HGT +	.0526 X 40/110 THK +	
				-.0438 X 40/120 HGT +	.0321 X 45/115 THK +				
LND	MAX	R=	.75787	STANDARD ERROR =	4.40032	REDUCTION OF VARIANCE =	.57437	STD. DEV. OF PND.	6.74480
LND	MAX	=	-187.0230 +	.1706 X BIL	MAX +	.0876 X 40/110 HGT +	-.0519 X 50/120 HGT +	.0367 X 40/110 THK +	
				.1956 X ELY	MAX +	.2069 X LND	MIN +		
PIH	MAX	R=	.82749	STANDARD ERROR =	3.84903	REDUCTION OF VARIANCE =	.68473	STD. DEV. OF PND.	6.85507
PIH	MAX	=	-100.8476 +	.3063 X WMC	MAX +	.0952 X 45/115 HGT +	-.0547 X 45/125 HGT +	.3195 X ELY	MAX +
				.2279 X BNO	MIN +	-.1275 X WMC	MIN +		
BOI	MAX	R=	.87410	STANDARD ERROR =	3.70616	REDUCTION OF VARIANCE =	.76405	STD. DEV. OF PND.	7.62988
BOI	MAX	=	-111.0022 +	.0648 X 45/115 HGT +	.3393 X BOI	MIN +	.2430 X RNO	MAX +	-.0201 X 45/135 HGT +
				.2007 X MFR	MAX +				
BNO	MAX	R=	.85224	STANDARD ERROR =	4.01253	REDUCTION OF VARIANCE =	.72631	STD. DEV. OF PND.	7.66982
BNO	MAX	=	-221.9420 +	.0816 X 45/115 HGT +	.3426 X MFR	MAX +	.2195 X RNO	MAX +	
MFR	MAX	R=	.85464	STANDARD ERROR =	4.20288	REDUCTION OF VARIANCE =	.73041	STD. DEV. OF PND.	8.09452
MFR	MAX	=	-244.5083 +	.0968 X 45/125 HGT +	.3493 X MFR	MAX +			
SLE	MAX	R=	.81020	STANDARD ERROR =	4.71155	REDUCTION OF VARIANCE =	.65642	STD. DEV. OF PND.	8.03804
SLE	MAX	=	-250.7811 +	.0731 X 45/125 HGT +	.3590 X SLE	MAX +	.0461 X 50/130 THK +	-.2479 X YKM	MIN +
				-.0150 X 40/150 HGT +					

Northwest Min

July-August

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL	MIN	R=	.80959	STANDARD ERROR =	3.88850	REDUCTION OF VARIANCE =	.65544	STD. DEV. OF PND.	6.62443
INL	MIN	=	-205.1121 +	.0203 X 50/090 THK +	.2366 X FAR	MIN +	-.0503 X DAY OF YR +	.0139 X 50/080 HGT +	
				.0461 X 50/100 THK +	-.0345 X 50/100 HGT +	.1522 X INL	MAX +	.0131 X 40/090 HGT +	
				.0221 X 40/080 HGT +					
DLH	MIN	R=	.80884	STANDARD ERROR =	3.57743	REDUCTION OF VARIANCE =	.65423	STD. DEV. OF PND.	6.08382
DLH	MIN	=	-204.2899 +	.0429 X 50/090 THK +	.2447 X DLH	MIN +	.0309 X 40/080 HGT +	.1547 X INL	MAX +
				.1534 X QD	MIN +				
STC	MIN	R=	.82892	STANDARD ERROR =	3.62002	REDUCTION OF VARIANCE =	.68710	STD. DEV. OF PND.	6.47156
STC	MIN	=	-189.5055 +	.2575 X FAR	MIN +	.0541 X 45/095 THK +	-.0333 X 45/085 HGT +	-.0669 X DAY OF YR +	
				-.0316 X 40/100 HGT +	.0267 X 50/100 THK +				
FAR	MIN	R=	.81174	STANDARD ERROR =	3.84155	REDUCTION OF VARIANCE =	.65892	STD. DEV. OF PND.	6.57775
FAR	MIN	=	-163.8379 +	.0597 X 50/100 THK +	.2297 X FAR	MIN +	.0442 X 50/090 HGT +	-.0344 X 50/100 HGT +	
				.1340 X RAP	MAX +	-.0504 X DAY OF YR +			
BIS	MIN	R=	.80224	STANDARD ERROR =	3.90848	REDUCTION OF VARIANCE =	.64359	STD. DEV. OF PND.	6.54687
BIS	MIN	=	-71.4439 +	.0327 X 50/100 THK +	.2233 X GSG	MIN +	-.0595 X DAY OF YR +	.0357 X 45/095 HGT +	
				-.0327 X 45/115 HGT +	.1765 X BIS	MIN +	.1297 X GSG	MAX +	
ISN	MIN	R=	-.73763	STANDARD ERROR =	4.41122	REDUCTION OF VARIANCE =	.54409	STD. DEV. OF PND.	6.53314
ISN	MIN	=	-5.2193 +	.2546 X GSG	MAX +	.0222 X 50/090 HGT +	.2622 X E0	MIN +	.2178 X GSG
				-.0174 X 50/120 HGT +					
GSG	MIN	R=	.80907	STANDARD ERROR =	3.51302	REDUCTION OF VARIANCE =	.65460	STD. DEV. OF PND.	5.97751
GSG	MIN	=	-109.5612 +	.1466 X GTF	MAX +	.2705 X GSG	MIN +	.0275 X 50/100 HGT +	-.0196 X 50/120 HGT +
				.0420 X 50/110 THK +	-.0526 X DAY OF YR +				
BIL	MIN	R=	.80426	STANDARD ERROR =	3.18456	REDUCTION OF VARIANCE =	.64683	STD. DEV. OF PND.	5.35866
BIL	MIN	=	-35.3964 +	.3144 X GIF	MAX +	.2827 X BIL	MIN +	.0164 X 50/100 HGT +	
GTF	MIN	R=	.81117	STANDARD ERROR =	3.32182	REDUCTION OF VARIANCE =	.65800	STD. DEV. OF PND.	5.68020
GTF	MIN	=	15.8429 +	.2070 X YC	MAX +	.2710 X GTF	MIN +	.1849 X GEG	MAX +
				.0172 X 50/100 HGT +				-.0193 X 50/130 HGT +	

HLN MIN R= .73441 STANDARD ERROR = 3.60839 REDUCTION OF VARIANCE = .53936 STD. DEV. OF PND. 5.31659
 HLN MIN = 78.2692 + .3206 X HLN MAX + .2554 X HLN MIN + .2068 X PDT MIN + -.0258 X 40/120 THK +

MSO MIN R= .72459 STANDARD ERROR = 3.72179 REDUCTION OF VARIANCE = .52504 STD. DEV. OF PND. 5.40035
 MSO MIN = 58.8859 + .1871 X GEG MIN + .1678 X MSO MAX + -.0349 X 40/120 HGT + .1563 X MSO MIN +
 .0181 X 50/110 HGT + .2048 X PDT MIN +

GEG MIN R= .84491 STANDARD ERROR = 3.06986 REDUCTION OF VARIANCE = .71387 STD. DEV. OF PND. 5.73899
 GEG MIN = -107.5167 + .3486 X YKM MAX + .0382 X 50/120 THK + .2146 X GEG MIN + .1094 X OMA MIN +

PDT MIN R= .86464 STANDARD ERROR = 2.78936 REDUCTION OF VARIANCE = .74760 STD. DEV. OF PND. 5.55214
 PDT MIN = -2.4611 + .3090 X PDT MAX + .2227 X PDX MAX + .1939 X SLE MIN + .0910 X XS MAX +

YKM MIN R= .73166 STANDARD ERROR = 4.37421 REDUCTION OF VARIANCE = .53533 STD. DEV. OF PND. 6.41692
 YKM MIN = 93.3922 + .4887 X YKM MAX + .1421 X XS MAX + -.0341 X 40/120 HGT + .2427 X PDX MIN +

PDX MIN R= .66519 STANDARD ERROR = 2.85759 REDUCTION OF VARIANCE = .44248 STD. DEV. OF PND. 3.82711
 PDX MIN = -49.2045 + .3413 X PDX MIN + .0153 X 50/120 THK + .1096 X PDX MAX + -.0164 X 50/130 HGT +
 .0268 X 50/130 THK + .0820 X XS MIN +

SEA MIN R= .69678 STANDARD ERROR = 2.53075 REDUCTION OF VARIANCE = .48551 STD. DEV. OF PND. 3.52825
 SEA MIN = -30.9113 + .3914 X SEA MIN + .1285 X PDX MAX + .0135 X 55/125 THK + .1637 X A MAX +
 .0823 X XS MIN +

TTI MIN R= .56542 STANDARD ERROR = 1.76772 REDUCTION OF VARIANCE = .31970 STD. DEV. OF PND. 2.07045
 TTI MIN = -16.8746 + .2095 X EKA MIN + .0063 X 50/120 THK + .1363 X EKA MAX + .0907 X SEA MIN +
 -.0075 X 55/135 HGT + .0100 X 60/140 THK + .0063 X 45/125 HGT +

MSP MIN R= .85267 STANDARD ERROR = 3.27204 REDUCTION OF VARIANCE = .72705 STD. DEV. OF PND. 6.26290
 MSP MIN = -181.6778 + .1506 X MSP MAX + .0458 X 45/095 THK + .0262 X 45/085 HGT + .1758 X FAR MIN +
 -.0439 X DAY OF YR + .1667 X MSP MIN +

HON MIN R= .79109 STANDARD ERROR = 4.23994 REDUCTION OF VARIANCE = .62582 STD. DEV. OF PND. 6.92136
 HON MIN = -67.7507 + .0561 X 50/100 THK + .2719 X HON MIN + -.0409 X 45/115 HGT + -.0405 X 45/095 HGT +
 .1866 X RAP MAX + -.0519 X DAY OF YR +

RAP MIN R= .80912 STANDARD ERROR = 3.27072 REDUCTION OF VARIANCE = .65467 STD. DEV. OF PND. 5.56577
 RAP MIN = -1.1752 + .2264 X BIL MAX + .3022 X RAP MIN + .0276 X 45/095 HGT + .1521 X CPR MAX +
 -.0242 X 35/115 HGT +

CPR MIN R= .79879 STANDARD ERROR = 3.53439 REDUCTION OF VARIANCE = .63806 STD. DEV. OF PND. 5.87483
 CPR MIN = -9.5723 + .1093 X BIL MAX + .2857 X CPR MIN + .0402 X 40/100 HGT + -.0378 X 40/120 HGT +
 .1428 X BNO MIN + .1458 X CPR MAX + .1372 X HLN MAX +

LND MIN R= .83302 STANDARD ERROR = 3.02282 REDUCTION OF VARIANCE = .69392 STD. DEV. OF PND. 5.46378
 LND MIN = -23.6445 + .3377 X LND MAX + .2239 X HLN MAX + .1082 X ELY MIN + .0318 X 40/100 HGT +
 -.0256 X 40/120 HGT + .1144 X BNO MIN +

PIH MIN R= .77773 STANDARD ERROR = 4.00817 REDUCTION OF VARIANCE = .60486 STD. DEV. OF PND. 6.37633
 PIH MIN = 44.0115 + .4656 X PIH MAX + .1632 X ELY MIN + .1674 X PIH MIN + .1611 X MSO MAX +
 -.0148 X 50/120 HGT + -.1776 X ELY MAX +

B01 MIN R= .85889 STANDARD ERROR = 3.33866 REDUCTION OF VARIANCE = .73770 STD. DEV. OF PND. 6.51883
 B01 MIN = -2.1558 + .4885 X PDT MAX + -.0481 X 45/125 HGT + .0502 X 45/115 HGT + .1947 X BNO MIN +

BNO MIN R= .80561 STANDARD ERROR = 3.84888 REDUCTION OF VARIANCE = .64901 STD. DEV. OF PND. 6.49660
 BNO MIN = 10.7240 + .3333 X BNO MAX + .2630 X BNO MIN + .1207 X SLE MAX + .0454 X 45/115 HGT +
 -.0486 X 35/115 HGT +

MFR MIN R= .78758 STANDARD ERROR = 3.06901 REDUCTION OF VARIANCE = .62028 STD. DEV. OF PND. 4.98041
 MFR MIN = -57.5075 + .2206 X SLE MAX + .3584 X MFR MIN + .0395 X 45/125 THK + -.0356 X 45/125 HGT +
 .0215 X 45/115 HGT +

SLE MIN R= .65275 STANDARD ERROR = 3.44044 REDUCTION OF VARIANCE = .42609 STD. DEV. OF PND. 4.54141
 SLE MIN = -81.9920 + .3064 X SLE MIN + .0455 X 45/125 THK + -.0350 X 45/125 HGT + .0249 X 50/120 THK +
 .2179 X EKA MAX + .0925 X XS MIN +

Southwest Max

July-August

HGT-L (700MB HEIGHT) IN METERS THK-L (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MAX	R=	.78789	STANDARD ERROR =	4.43994	REDUCTION OF VARIANCE =	.62077	STD. DEV. OF PND.	7.20982																
DSM	MAX	=	-121.3252	+	.0531 X 45/095 THK	+	.447 X DSM	MIN	+	.1738 X RAP	MAX	+	-.4735 X TOP	MIN	+	.5238 X MKC	MIN	+							
OMA	MAX	R=	.81397	STANDARD ERROR =	4.14503	REDUCTION OF VARIANCE =	.66255	STD. DEV. OF PND.	7.13549																
OMA	MAX	=	-147.5518	+	.4436 X OMA	MIN	+	.1685 X LBF	MAX	+	.0551 X 45/105 THK	+	-.0349 X 50/100 HGT	+	.4742 X MKC	MIN	+	-.3556 X TOP	MIN	+	.0385 X 40/100 HGT	+			
LBF	MAX	R=	.76227	STANDARD ERROR =	4.97909	REDUCTION OF VARIANCE =	.58106	STD. DEV. OF PND.	7.69258																
LBF	MAX	=	-61.1622	+	.0575 X 45/105 THK	+	.2862 X LBF	MAX	+	-.0238 X 55/105 HGT	+	.3020 X RAP	MIN	+	.3796 X DEN	MIN	+	-.3038 X PUB	MIN	+					
DEN	MAX	R=	.74142	STANDARD ERROR =	4.49229	REDUCTION OF VARIANCE =	.54971	STD. DEV. OF PND.	6.69441																
DEN	MAX	=	-105.7302	+	.0416 X 45/105 THK	+	.1794 X GJT	MAX	+	-.0530 X 50/120 HGT	+	.0553 X 35/105 HGT	+	.2276 X INW	MAX	+	.1973 X CPR	MAX	+						
SFC	MAX	R=	.79803	STANDARD ERROR =	3.68827	REDUCTION OF VARIANCE =	.63685	STD. DEV. OF PND.	6.12036																
SFC	MAX	=	-116.0196	+	.5730 X ELY	MAX	+	.0666 X 45/115 HGT	+	-.0519 X 45/125 HGT	+	.1718 X BNO	MIN	+	.0334 X 40/110 THK	+									
WMC	MAX	R=	.84908	STANDARD ERROR =	3.42287	REDUCTION OF VARIANCE =	.72094	STD. DEV. OF PND.	6.47945																
WMC	MAX	=	-230.4711	+	.5009 X RNO	MAX	+	.0544 X 45/115 HGT	+	.0483 X 40/120 THK	+	-.1323 X WMC	MIN	+	-.0113 X 45/135 HGT	+									
RNO	MAX	R=	.85009	STANDARD ERROR =	3.10142	REDUCTION OF VARIANCE =	.72265	STD. DEV. OF PND.	5.88911																
RNO	MAX	=	-62.0966	+	.4570 X RNO	MAX	+	.0781 X 40/120 HGT	+	-.0450 X 25/105 HGT	+	-.2418 X SFO	MIN	+											
RBL	MAX	R=	.87781	STANDARD ERROR =	3.53309	REDUCTION OF VARIANCE =	.77055	STD. DEV. OF PND.	7.37580																
RBL	MAX	=	-201.2771	+	.3127 X SAC	MAX	+	.0780 X 40/130 HGT	+	.0718 X 40/120 HGT	+	-.0795 X 30/110 HGT	+	-.0232 X 40/140 HGT	+	.0400 X 30/110 THK	+								
EKA	MAX	R=	.67974	STANDARD ERROR =	2.26471	REDUCTION OF VARIANCE =	.46205	STD. DEV. OF PND.	3.08775																
EKA	MAX	=	53.6962	+	.3876 X EKA	MAX	+	-.0123 X 50/130 HGT	+	.2505 X EKA	MIN	+	.1561 X SFO	MIN	+										
MKC	MAX	R=	.81023	STANDARD ERROR =	4.26427	REDUCTION OF VARIANCE =	.65647	STD. DEV. OF PND.	7.27544																
MKC	MAX	=	5.9844	+	.5655 X MKC	MIN	+	.2009 X LBF	MAX	+	.1401 X RAP	MAX	+	.1526 X MKC	MAX	+									
TOP	MAX	R=	.78738	STANDARD ERROR =	4.50322	REDUCTION OF VARIANCE =	.61997	STD. DEV. OF PND.	7.30486																
TOP	MAX	=	2.9831	+	.4868 X MKC	MIN	+	.1978 X LBF	MAX	+	.2070 X CPR	MAX	+	.1901 X TOP	MAX	+									
ICT	MAX	R=	.79369	STANDARD ERROR =	4.77189	REDUCTION OF VARIANCE =	.62995	STD. DEV. OF PND.	7.84438																
ICT	MAX	=	-6.6072	+	.6090 X DDC	MIN	+	.4222 X ICT	MAX	+	.2182 X CPR	MAX	+												
DDC	MAX	R=	.78131	STANDARD ERROR =	4.75378	REDUCTION OF VARIANCE =	.61044	STD. DEV. OF PND.	7.61649																
DDC	MAX	=	-26.8056	+	.5249 X DDC	MIN	+	.3042 X CPR	MAX	+	.1948 X DDC	MAX	+	-.0247 X 50/100 HGT	+	.0376 X 40/100 THK	+								
PUB	MAX	R=	.76559	STANDARD ERROR =	4.19283	REDUCTION OF VARIANCE =	.58613	STD. DEV. OF PND.	6.51740																
PUB	MAX	=	-94.9935	+	.2252 X CPR	MAX	+	.2281 X DEN	MAX	+	-.0224 X 50/120 HGT	+	.1795 X INW	MAX	+	.0487 X 45/105 THK	+	.0667 X 35/105 HGT	+	-.0514 X 45/105 HGT	+				
GJT	MAX	R=	.76446	STANDARD ERROR =	3.91677	REDUCTION OF VARIANCE =	.58439	STD. DEV. OF PND.	6.07556																
GJT	MAX	=	-241.4574	+	.3908 X INW	MAX	+	.0431 X 40/110 THK	+	.2309 X GJT	MAX	+	.0426 X 35/115 HGT	+	.1193 X MLI	MIN	+								
MLF	MAX	R=	.77090	STANDARD ERROR =	3.35494	REDUCTION OF VARIANCE =	.59429	STD. DEV. OF PND.	5.26715																
MLF	MAX	=	-117.2878	+	.3234 X ELY	MAX	+	.0546 X 35/115 HGT	+	.1970 X INW	MAX	+	.1879 X LAS	MAX	+	-.0096 X 45/135 HGT	+								
ELY	MAX	R=	.79265	STANDARD ERROR =	3.02079	REDUCTION OF VARIANCE =	.62830	STD. DEV. OF PND.	4.95477																
ELY	MAX	=	-182.3216	+	.3221 X ELY	MAX	+	.0396 X 35/115 HGT	+	.2739 X LAS	MAX	+	.0298 X 40/120 THK	+	-.0958 X WMC	MIN	+								
SAC	MAX	R=	.82200	STANDARD ERROR =	4.05056	REDUCTION OF VARIANCE =	.67569	STD. DEV. OF PND.	7.11265																
SAC	MAX	=	-109.2459	+	.2340 X SAC	MAX	+	.0522 X 35/125 HGT	+	.6534 X SAC	MIN	+	-.4526 X SFO	MIN	+	-.2050 X RNO	MIN	+	.0641 X 40/120 HGT	+	-.0548 X 25/105 HGT	+	-.1812 X BFL	MAX	+

SFO	MAX R=	.63712	STANDARD ERROR =	4.52901	REDUCTION OF VARIANCE =	.40593	STD. DEV. OF PND.	5.87602
SFO	MAX	=	-72.8053 +	.2780 X SFO MAX +	.5309 X SAC MIN +	-.1938 X MFR MIN +	.2919 X EKA MAX +	
				.0313 X 40/130 HGT +	-.1268 X RBL MAX +			
OKC	MAX R=	.77839	STANDARD ERROR =	4.15197	REDUCTION OF VARIANCE =	.60590	STD. DEV. OF PND.	6.61376
OKC	MAX	=	-1.6273 +	.3350 X OKC MAX +	.3781 X ICT MIN +	.1890 X DDC MAX +	.2139 X HOU MAX +	
AMA	MAX R=	.79647	STANDARD ERROR =	3.84072	REDUCTION OF VARIANCE =	.63436	STD. DEV. OF PND.	6.35168
AMA	MAX	=	-138.8207 +	.2850 X AMA MAX +	.0646 X DEN MAX +	.4190 X AMA MIN +	.0310 X 45/105 HGT +	
				.1043 X 35/105 HGT +	-.1917 X CPR MAX +	.0389 X 40/100 THK +	-.0629 X 40/100 HGT +	
ABQ	MAX R=	.78199	STANDARD ERROR =	2.96494	REDUCTION OF VARIANCE =	.61152	STD. DEV. OF PND.	4.75695
ABQ	MAX	=	-61.5006 +	.3897 X ABQ MAX +	.1423 X DEN MAX +	.3519 X ABQ MIN +	.0262 X 30/110 THK +	
				-.1707 X INW MIN +	.1223 X INW MAX +			
INW	MAX R=	.76718	STANDARD ERROR =	3.52394	REDUCTION OF VARIANCE =	.58856	STD. DEV. OF PND.	5.49385
INW	MAX	=	-187.9587 +	.5532 X INW MAX +	.0494 X 30/110 THK +	.0575 X 35/115 HGT +	-.0298 X 40/100 HGT +	
				-.1274 X BFL MAX +				
LAS	MAX R=	.77420	STANDARD ERROR =	3.32644	REDUCTION OF VARIANCE =	.59938	STD. DEV. OF PND.	5.25549
LAS	MAX	=	-98.2539 +	.4202 X LAS MAX +	.2911 X YUM MAX +	.0640 X 35/115 HGT +	-.0241 X 40/100 HGT +	
BFL	MAX R=	.89983	STANDARD ERROR =	2.46319	REDUCTION OF VARIANCE =	.80969	STD. DEV. OF PND.	5.64635
BFL	MAX	=	-53.8446 +	.2432 X SAC MAX +	.3258 X BFL MAX +	.0320 X 40/120 THK +	-.2688 X SFO MIN +	
				.2107 X RBL MIN +				
FAT	MAX R=	.87293	STANDARD ERROR =	2.81882	REDUCTION OF VARIANCE =	.76200	STD. DEV. OF PND.	5.77807
FAT	MAX	=	-82.6192 +	.3462 X FAT MAX +	.0421 X 40/120 HGT +	-.1723 X SAC MAX +	-.2888 X SFO MIN +	
				.1897 X RBL MIN +				
SMX	MAX R=	.62970	STANDARD ERROR =	3.59458	REDUCTION OF VARIANCE =	.39653	STD. DEV. OF PND.	4.62721
SMX	MAX	=	-11.3644 +	.3846 X SAC MIN +	-.0214 X 40/140 HGT +	.3501 X LAX MIN +	.1400 X SFO MAX +	
				.0340 X 35/105 HGT +	-.1069 X BNO MIN +	-.0644 X ICT MAX +		
FTW	MAX R=	.79390	STANDARD ERROR =	3.29408	REDUCTION OF VARIANCE =	.63028	STD. DEV. OF PND.	5.41748
FTW	MAX	=	-33.9890 +	.2949 X FTW MAX +	.3584 X FTW MIN +	.1638 X OKC MAX +	.0418 X 35/095 THK +	
				-.0225 X 40/080 THK +				
MAF	MAX R=	.78880	STANDARD ERROR =	3.09382	REDUCTION OF VARIANCE =	.62094	STD. DEV. OF PND.	5.02505
MAF	MAX	=	38.1072 +	.3840 X MAF MAX +	.2885 X MAF MIN +	.1297 X PUB MAX +	-.0288 X 45/105 HGT +	
				-.0461 X 30/100 HGT +	-.0272 X 35/085 HGT +	.1893 X AMA MIN +		
ELP	MAX R=	.79693	STANDARD ERROR =	3.04520	REDUCTION OF VARIANCE =	.63510	STD. DEV. OF PND.	5.04113
ELP	MAX	=	-53.1335 +	.4051 X ELP MAX +	.4269 X ELP MIN +	.1815 X PUB MAX +	-.0333 X 40/100 HGT +	
				.0530 X 30/110 HGT +				
TUS	MAX R=	.79961	STANDARD ERROR =	3.28771	REDUCTION OF VARIANCE =	.63938	STD. DEV. OF PND.	5.47491
IUS	MAX	=	-200.9804 +	.4935 X IUS MAX +	.0491 X 30/110 THK +	-.2359 X INW MIN +	.2973 X TUS MIN +	
				.0320 X 35/115 HGT +	-.1367 X YUM MIN +			
PHX	MAX R=	.78406	STANDARD ERROR =	3.48169	REDUCTION OF VARIANCE =	.61475	STD. DEV. OF PND.	5.60943
PHX	MAX	=	-216.8436 +	.5267 X PHX MAX +	.0511 X 30/110 THK +	.0338 X 35/115 HGT +	-.2470 X INW MIN +	
				-.2038 X TUS MIN +				
YUM	MAX R=	.73416	STANDARD ERROR =	3.13553	REDUCTION OF VARIANCE =	.53900	STD. DEV. OF PND.	4.61806
YUM	MAX	=	-81.3412 +	.4306 X YUM MAX +	.0426 X 35/115 HGT +	-.2234 X INW MIN +	.2449 X IUS MIN +	
				.0238 X 30/110 THK +	-.0267 X 25/095 HGT +			
SAN	MAX R=	.75097	STANDARD ERROR =	2.43328	REDUCTION OF VARIANCE =	.56395	STD. DEV. OF PND.	3.68490
SAN	MAX	=	-5.8708 +	.4930 X SAN MAX +	.3388 X SAN MIN +	.0247 X 40/110 HGT +	-.0175 X 30/130 HGT +	
LAX	MAX R=	.81057	STANDARD ERROR =	2.51663	REDUCTION OF VARIANCE =	.65702	STD. DEV. OF PND.	4.29719
LAX	MAX	=	-69.7701 +	.3728 X LAX MAX +	.5528 X LAX MIN +	.0247 X 35/115 HGT +	-.1438 X BFL MIN +	
				.1829 X SAN MAX +				
SAT	MAX R=	.78223	STANDARD ERROR =	2.47555	REDUCTION OF VARIANCE =	.61188	STD. DEV. OF PND.	3.97365
SAT	MAX	=	3.4183 +	.4330 X SAT MAX +	.2821 X HOU MAX +	.2276 X DRT MIN +	.0853 X AMA MAX +	
DRT	MAX R=	.80963	STANDARD ERROR =	2.60480	REDUCTION OF VARIANCE =	.65549	STD. DEV. OF PND.	4.43788
DRT	MAX	=	-3.6254 +	.5523 X DRT MAX +	.3091 X DRT MIN +	.1692 X HOU MAX +	.0897 X AMA MAX +	

Southwest Min

July-August

		HGT1 (700MB HEIGHT) IN METERS	THK1 (700MB HEIGHT - 1000MB HEIGHT) IN METERS	MAX1	MIN1	TEMPERATURES IN DEGREES FAHRENHEIT
DSM	MIN	R = .85451 STANDARD ERROR = 3.01849	REDUCTION OF VARIANCE = .73019	STD. DEV. OF PND.	5.81112	
DSM	MIN	= -135.1599 + .1286 X OMA MIN + -.0604 X DAY OF YR +	.0256 X 45/095 THK + .0421 X 40/100 THK +	.0215 X 45/085 HGT + -.0301 X 40/100 HGT +	.1358 X DSM MAX + .2250 X DSM MIN +	
OMA	MIN	R = .84616 STANDARD ERROR = 3.13620	REDUCTION OF VARIANCE = .71600	STD. DEV. OF PND.	5.88492	
OMA	MIN	= -126.5491 + .3018 X OMA MIN + -.0579 X DAY OF YR +	.0296 X 45/095 THK + .0251 X 40/090 HGT +	-.0259 X 45/115 HGT + .0280 X 40/100 THK +	.1928 X RAP MIN +	
LBF	MIN	R = .77859 STANDARD ERROR = 3.64204	REDUCTION OF VARIANCE = .60620	STD. DEV. OF PND.	5.80371	
LBF	MIN	= -13.2076 + .1470 X RAP MAX + .1685 X PUB MAX +	.2687 X LBF MIN + .1493 X BNO MIN +	.0490 X 45/095 HGT +	-.0420 X 45/115 HGT +	
DEN	MIN	R = .72849 STANDARD ERROR = 2.87854	REDUCTION OF VARIANCE = .53069	STD. DEV. OF PND.	4.20188	
DEN	MIN	= -33.4492 + .3311 X DEN MIN + -.0175 X 50/120 HGT +	.0812 X BIL MAX + .0926 X BNO MIN +	.1531 X DEN MAX +	.0320 X 40/100 HGT +	
SLC	MIN	R = .80041 STANDARD ERROR = 3.73710	REDUCTION OF VARIANCE = .64065	STD. DEV. OF PND.	6.23416	
SLC	MIN	= 12.7918 + .2681 X PTH MAX + .0320 X 40/100 HGT +	.3226 X SLC MIN +	.2782 X B01 MAX +	-.0395 X 40/120 HGT +	
WMC	MIN	R = .72136 STANDARD ERROR = 5.03840	REDUCTION OF VARIANCE = .52036	STD. DEV. OF PND.	7.27500	
WMC	MIN	= 55.4438 + .2552 X WMC MIN + .0199 X 50/120 HGT +	.3422 X WMC MAX +	.3911 X FAT MIN +	-.0520 X DAY OF YR +	
RNO	MIN	R = .76102 STANDARD ERROR = 3.87859	REDUCTION OF VARIANCE = .57916	STD. DEV. OF PND.	5.97879	
RNO	MIN	= 28.9107 + .5438 X RNO MIN +	.2125 X RBL MAX +	.0310 X 45/115 HGT +	-.0397 X 30/120 HGT +	
RBL	MIN	R = .82668 STANDARD ERROR = 2.92766	REDUCTION OF VARIANCE = .68339	STD. DEV. OF PND.	5.29309	
RBL	MIN	= -72.2730 + .2999 X SAC MAX +	.3362 X RBL MIN +	.0254 X 50/130 HGT +	.1487 X MPR MIN +	
EKA	MIN	R = .70642 STANDARD ERROR = 1.64860	REDUCTION OF VARIANCE = .49904	STD. DEV. OF PND.	2.32922	
EKA	MIN	= 14.4172 + .4536 X EKA MIN + .0370 X PDT MAX +	.2406 X EKA MAX +	.0122 X 45/125 THK +	-.0128 X 45/125 HGT +	
MKC	MIN	R = .85002 STANDARD ERROR = 3.05237	REDUCTION OF VARIANCE = .72253	STD. DEV. OF PND.	5.79472	
MKC	MIN	= -108.2881 + .2133 X OMA MIN + .0348 X 40/090 HGT +	.0544 X 40/100 THK + -.0437 X DAY OF YR +	.1461 X MKC MAX + .2095 X MKC MIN +	-.0412 X 40/100 HGT +	
TOP	MIN	R = .84174 STANDARD ERROR = 3.22834	REDUCTION OF VARIANCE = .70853	STD. DEV. OF PND.	5.97971	
TOP	MIN	= -126.0799 + .3645 X TOP MIN + -.0490 X DAY OF YR +	.0683 X 40/100 THK + -.1868 X OMA MIN +	-.0500 X 40/100 HGT +	.0367 X 40/090 HGT +	
ICT	MIN	R = .81898 STANDARD ERROR = 3.09607	REDUCTION OF VARIANCE = .67073	STD. DEV. OF PND.	5.39552	
ICT	MIN	= -151.2355 + .4386 X ICT MIN + .0456 X 35/095 HGT +	.0669 X 40/100 THK +	-.0496 X DAY OF YR +	-.0470 X 35/105 HGT +	
DDC	MIN	R = .80629 STANDARD ERROR = 2.81097	REDUCTION OF VARIANCE = .65011	STD. DEV. OF PND.	4.75214	
DDC	MIN	= -149.9115 + .0583 X 40/100 THK + .0247 X 35/095 HGT +	-.3021 X DDC MIN + .1180 X CPR MIN +	-.0404 X DAY OF YR +	-.0188 X 45/115 HGT +	
PUB	MIN	R = .68199 STANDARD ERROR = 3.02727	REDUCTION OF VARIANCE = .46511	STD. DEV. OF PND.	4.13922	
PUB	MIN	= 26.7448 + .3012 X PUB MIN + -.1374 X INW MAX +	.1783 X PUB MAX + -.0324 X DAY OF YR +	.1320 X CPR MIN +	.1757 X ABQ MIN +	
GJT	MIN	R = .77075 STANDARD ERROR = 2.81302	REDUCTION OF VARIANCE = .59406	STD. DEV. OF PND.	4.41513	
GJT	MIN	= -56.2292 + .2688 X GJT MAX + .1199 X SLC MAX +	.2613 X GJT MIN + .1273 X PUB MIN +	.1028 X ELY MIN +	.0172 X 40/100 HGT +	
MLF	MIN	R = .71485 STANDARD ERROR = 4.31321	REDUCTION OF VARIANCE = .51101	STD. DEV. OF PND.	6.16810	
MLF	MIN	= 5.3482 + .2582 X ELY MIN + .2911 X ELY MAX +	.2952 X PTH MAX +	.2927 X LAS MIN +	-.2614 X PHX MAX +	
ELY	MIN	R = .74116 STANDARD ERROR = 4.11773	REDUCTION OF VARIANCE = .54932	STD. DEV. OF PND.	6.13372	
ELY	MIN	= 1.3715 + .3477 X WMC MAX + .2335 X FAT MIN +	.3450 X ELY MIN +	-.0297 X 45/125 HGT +	.0242 X 45/105 HGT +	
SAC	MIN	R = .80042 STANDARD ERROR = 2.39262	REDUCTION OF VARIANCE = .64067	STD. DEV. OF PND.	3.99140	
SAC	MIN	= -41.7718 + .2406 X SAC MIN + .1809 X FAT MIN +	.1727 X SED MAX + .0164 X 40/120 HGT +	.2106 X SAC MAX + .1527 X EKA MAX +	-.1946 X FAT MAX +	

SFO	MIN	R=	.72315	STANDARD ERROR =	1.94639	REDUCTION OF VARIANCE =	.52295	STD. DEV. OF PND.	2.81804		
SFO	MIN	=	9.0881	.4750 X SFO	MIN +	.0704 X PDX	MAX +	.1029 X SFO	MAX +	-.1081 X SAC	MAX +
				.1699 X EKA	MAX +	.0857 X BFL	MIN +				
OKC	MIN	R=	.78788	STANDARD ERROR =	2.69764	REDUCTION OF VARIANCE =	.62076	STD. DEV. OF PND.	4.38054		
OKC	MIN	=	2.9325	.3120 X OKC	MIN +	.2067 X ICT	MIN +	.1600 X AMA	MAX +	.0428 X 35/095	HGT +
				-.0377 X 35/105	HGT +						
AMA	MIN	R=	.74611	STANDARD ERROR =	2.42224	REDUCTION OF VARIANCE =	.55668	STD. DEV. OF PND.	3.93835		
AMA	MIN	=	-24.1128	.3814 X AMA	MIN +	.1550 X PHR	MAX +	-.0259 X 40/110	HGT +	.0372 X 30/100	HGT +
				.1560 X DDC	MIN +	.0718 X ELY	MIN +				
ABQ	MIN	R=	.67850	STANDARD ERROR =	2.60891	REDUCTION OF VARIANCE =	.46036	STD. DEV. OF PND.	3.55145		
ABQ	MIN	=	5.0025	.2643 X ABQ	MAX +	.2547 X ABQ	MIN +	.0726 X PUB	MAX +	.0880 X WMC	MAX +
				.0739 X LBF	MIN +						
INW	MIN	R=	.71222	STANDARD ERROR =	3.04884	REDUCTION OF VARIANCE =	.50726	STD. DEV. OF PND.	4.34335		
INW	MIN	=	-8.8171	.3866 X INW	MIN +	.1838 X INW	MAX +	.1109 X PIH	MAX +	.1313 X YUM	MIN +
				.1527 X ABQ	MIN +						
LAS	MIN	R=	.77632	STANDARD ERROR =	3.34513	REDUCTION OF VARIANCE =	.60267	STD. DEV. OF PND.	5.30685		
LAS	MIN	=	-59.3138	.4273 X LAS	MIN +	.2836 X LAS	MAX +	.2334 X BFL	MIN +	.0359 X 35/115	HGT +
				-.0184 X 45/125	HGT +						
RFL	MIN	R=	.91287	STANDARD ERROR =	2.11437	REDUCTION OF VARIANCE =	.83333	STD. DEV. OF PND.	5.17909		
RFL	MIN	=	-68.4123	.5304 X RFL	MIN +	.2756 X SAC	MAX +	.0237 X 40/120	HGT +		
FAT	MIN	R=	.87660	STANDARD ERROR =	2.35258	REDUCTION OF VARIANCE =	.76844	STD. DEV. OF PND.	4.88886		
FAT	MIN	=	-64.1481	.5412 X FAT	MIN +	.2287 X SAC	MAX +	.0227 X 40/120	HGT +		
SMX	MIN	R=	.65248	STANDARD ERROR =	2.34361	REDUCTION OF VARIANCE =	.42573	STD. DEV. OF PND.	3.09263		
SMX	MIN	=	25.4849	.3099 X LAX	MIN +	.0687 X MFR	MAX +	.1377 X FAT	MIN +	.1662 X SFO	MIN +
				-.0204 X 30/120	THK +	.0152 X 40/120	THK +				
FTW	MIN	R=	.80802	STANDARD ERROR =	2.28058	REDUCTION OF VARIANCE =	.65289	STD. DEV. OF PND.	3.97090		
FTW	MIN	=	-34.5458	.3984 X FTW	MIN +	.1312 X TCT	MIN +	.1456 X FTW	MAX +	.0286 X 30/090	HGT +
				.0870 X AMA	MAX +	-.0138 X 40/100	HGT +				
MAP	MIN	R=	.75534	STANDARD ERROR =	2.28288	REDUCTION OF VARIANCE =	.57054	STD. DEV. OF PND.	3.48356		
MAP	MIN	=	1.0272	.3489 X MAP	MIN +	.1805 X MAP	MAX +	.0702 X PUB	MAX +	.1749 X DRT	MIN +
				.1192 X AMA	MIN +						
ELP	MIN	R=	.67166	STANDARD ERROR =	2.61523	REDUCTION OF VARIANCE =	.45112	STD. DEV. OF PND.	3.52997		
ELP	MIN	=	11.3973	.2349 X ELP	MAX +	.2625 X ELP	MIN +	.1502 X AMA	MIN +	.1131 X TUS	MIN +
TUS	MIN	R=	.65941	STANDARD ERROR =	2.70024	REDUCTION OF VARIANCE =	.43483	STD. DEV. OF PND.	3.59180		
TUS	MIN	=	-87.5864	.3655 X TUS	MIN +	.1266 X YUM	MAX +	-.0485 X DAY OF YR		.0226 X 30/110	THK +
				-.0198 X 30/120	THK +						
PHX	MIN	R=	.73565	STANDARD ERROR =	3.07009	REDUCTION OF VARIANCE =	.54118	STD. DEV. OF PND.	4.53240		
PHX	MIN	=	-67.2760	.5745 X PHX	MIN +	.0263 X 35/115	HGT +	.2225 X TUS	MIN +		
YUM	MIN	R=	.69507	STANDARD ERROR =	3.74725	REDUCTION OF VARIANCE =	.48312	STD. DEV. OF PND.	5.21218		
YUM	MIN	=	-132.8161	.2720 X YUM	MIN +	.0428 X 30/120	THK +	.2592 X YUM	MAX +	.2817 X SAN	MIN +
				.0770 X GTF	MAX +	.1433 X LAS	MIN +				
SAN	MIN	R=	.86708	STANDARD ERROR =	1.35095	REDUCTION OF VARIANCE =	.75183	STD. DEV. OF PND.	2.71183		
SAN	MIN	=	6.8120	.5148 X SAN	MIN +	.2297 X LAX	MIN +	.1314 X SAN	MAX +		
LAX	MIN	R=	.87639	STANDARD ERROR =	1.54907	REDUCTION OF VARIANCE =	.76807	STD. DEV. OF PND.	3.21654		
LAX	MIN	=	2.9093	.6829 X LAX	MIN +	.1519 X LAX	MAX +	.0591 X SAC	MAX +		
SAT	MIN	R=	.64952	STANDARD ERROR =	2.02470	REDUCTION OF VARIANCE =	.42188	STD. DEV. OF PND.	2.66289		
SAT	MIN	=	-5.3449	.3201 X SAT	MIN +	.1387 X MAP	MIN +	.2298 X HOU	MIN +	-.0127 X 40/110	HGT +
				-.0177 X 30/090	HGT +	-.1359 X BRQ	MAX +				
DRT	MIN	R=	.71443	STANDARD ERROR =	1.91830	REDUCTION OF VARIANCE =	.51041	STD. DEV. OF PND.	2.74157		
DRT	MIN	=	-4.2316	.4376 X DRT	MIN +	.1542 X DRT	MAX +	.1840 X HOU	MIN +	.0142 X 30/090	HGT +
				-.0086 X 40/110	HGT +						

Southeast Max

July-August

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT = 1000MB HEIGHT) IN METERS. MAX: MINI TEMPERATURES IN DEGREES FAHRENHEIT

SBY	MAX	R=	.75102	STANDARD ERROR =	3.96381	REDUCTION OF VARIANCE =	.56404	STD. DEV. OF PND.	6.00328	
SBY	MAX	=	-31.6724 +	.5119 X NYC	MIN +	.2535 X RIC	MAX +	.2358 X DET	MIN +	.0313 X 35/085 HGT +
										-.0175 X 45/085 HGT +
DCA	MAX	R=	.75645	STANDARD ERROR =	3.76668	REDUCTION OF VARIANCE =	.57221	STD. DEV. OF PND.	5.75898	
DCA	MAX	=	-108.7912 +	.4304 X NYC	MIN +	.2580 X DCA	MAX +	.1463 X CHI	MAX +	.0473 X 40/080 THK +
										-.1743 X ROA
										MIN +
CRW	MAX	R=	.77112	STANDARD ERROR =	3.65617	REDUCTION OF VARIANCE =	.59463	STD. DEV. OF PND.	5.74248	
CRW	MAX	=	-124.0297 +	.0478 X 40/080 HGT +		.2038 X PIA	MAX +	.2552 X CRW	MAX +	.1299 X CHI
										MIN +
										.1192 X MAP
										MAX +
HTS	MAX	R=	.74584	STANDARD ERROR =	3.87631	REDUCTION OF VARIANCE =	.55627	STD. DEV. OF PND.	5.81916	
HTS	MAX	=	-76.9423 +	.2322 X PIA	MAX +	.0360 X 40/080 HGT +		.2350 X HTS	MAX +	.1790 X MSN
										MIN +
LOU	MAX	R=	.78139	STANDARD ERROR =	3.47334	REDUCTION OF VARIANCE =	.61097	STD. DEV. OF PND.	5.56586	
LOU	MAX	=	-200.2630 +	.0506 X 40/090 THK +		.2843 X LOU	MAX +	.0324 X 40/080 HGT +		.1897 X PTA
										MAX +
										-.1065 X ALB
										MAX +
ORF	MAX	R=	.80264	STANDARD ERROR =	3.53431	REDUCTION OF VARIANCE =	.64423	STD. DEV. OF PND.	5.92545	
ORF	MAX	=	-62.3703 +	.2904 X PHL	MIN +	.2267 X RIC	MAX +	.2390 X CLE	MIN +	-.0353 X 45/075 HGT +
										.0405 X 35/075 HGT +
										.0254 X 45/075 THK +
RIC	MAX	R=	.77094	STANDARD ERROR =	3.89585	REDUCTION OF VARIANCE =	.59435	STD. DEV. OF PND.	6.11682	
RIC	MAX	=	-41.1805 +	.3291 X RIC	MAX +	.1928 X DET	MIN +	.3558 X PHL	MIN +	.0450 X 35/085 HGT +
										-.0246 X 45/085 HGT +
										-.1998 X GSO
										MIN +
										.1303 X CHI
										MAX +
ROA	MAX	R=	.74241	STANDARD ERROR =	4.19893	REDUCTION OF VARIANCE =	.55118	STD. DEV. OF PND.	6.26758	
ROA	MAX	=	-84.7101 +	.3078 X ROA	MAX +	.2006 X SYR	MIN +	.0553 X 35/085 HGT +		.1744 X CBI
										MAX +
										-.0195 X 45/075 HGT +
										.2691 X DCA
										MIN +
										-.2409 X A65
										MIN +
HAT	MAX	R=	.75267	STANDARD ERROR =	2.04712	REDUCTION OF VARIANCE =	.56651	STD. DEV. OF PND.	3.10922	
HAT	MAX	=	15.4739 +	.3362 X HAT	MAX +	.1606 X DCA	MIN +	.1481 X ORF	MIN +	.0754 X CBI
										MIN +
										-.0088 X 45/085 HGT +
										.0130 X 30/080 HGT +
RDU	MAX	R=	.76322	STANDARD ERROR =	3.61647	REDUCTION OF VARIANCE =	.58251	STD. DEV. OF PND.	5.59706	
RDU	MAX	=	-65.5078 +	.2690 X RDU	MAX +	.3070 X DCA	MIN +	.0548 X 35/085 HGT +		-.0260 X 45/075 HGT +
										.2360 X PIT
										MIN +
GSO	MAX	R=	.77208	STANDARD ERROR =	3.49332	REDUCTION OF VARIANCE =	.59611	STD. DEV. OF PND.	5.49675	
GSO	MAX	=	-91.8234 +	.2483 X GSO	MAX +	.3169 X DCA	MIN +	.0586 X 35/085 HGT +		-.0237 X 45/075 HGT +
										.1655 X PIT
										MAX +
										.0959 X DSM
										MAX +
TYS	MAX	R=	.76579	STANDARD ERROR =	3.30409	REDUCTION OF VARIANCE =	.58643	STD. DEV. OF PND.	5.13780	
TYS	MAX	=	-46.9207 +	.4044 X TYS	MAX +	.0538 X 35/085 HGT +		.1094 X CBI	MAX +	-.0285 X 30/080 HGT +
										.1375 X STL
										MIN +
BNA	MAX	R=	.78123	STANDARD ERROR =	3.31414	REDUCTION OF VARIANCE =	.61031	STD. DEV. OF PND.	5.30900	
BNA	MAX	=	-181.5466 +	.0393 X 407/090 THK +		.2993 X BNA	MAX +	.0344 X 35/085 HGT +		.1789 X CBI
										MAX +
MEM	MAX	R=	.78796	STANDARD ERROR =	3.03098	REDUCTION OF VARIANCE =	.62089	STD. DEV. OF PND.	4.92265	
MEM	MAX	=	-70.4866 +	.4556 X MEM	MAX +	.1231 X DDC	MAX +	.1969 X STL	MIN +	.0300 X 35/095 HGT +
LIT	MAX	R=	.78062	STANDARD ERROR =	3.58935	REDUCTION OF VARIANCE =	.60937	STD. DEV. OF PND.	5.74294	
LIT	MAX	=	-64.0054 +	.3895 X LIT	MAX +	.1986 X DDC	MAX +	.2088 X CBI	MIN +	.0462 X 35/095 HGT +
										-.0189 X 45/095 HGT +
FSM	MAX	R=	.78449	STANDARD ERROR =	3.97431	REDUCTION OF VARIANCE =	.61542	STD. DEV. OF PND.	6.40866	
FSM	MAX	=	-93.1074 +	.3592 X FSM	MAX +	.2054 X DDC	MAX +	.2131 X ICT	MIN +	.0391 X 35/095 THK +
CHS	MAX	R=	.74456	STANDARD ERROR =	2.77433	REDUCTION OF VARIANCE =	.55438	STD. DEV. OF PND.	4.15598	
CHS	MAX	=	5.7425 +	.3616 X CHS	MAX +	.1212 X CRW	MIN +	-.0421 X 40/080 HGT +		.0496 X 35/085 HGT +
										.0948 X RIC
										MAX +
										.1437 X RDU
										MIN +
CLT	MAX	R=	.76985	STANDARD ERROR =	3.53650	REDUCTION OF VARIANCE =	.59267	STD. DEV. OF PND.	5.54115	
CLT	MAX	=	-79.9101 +	.3224 X CLT	MAX +	.3128 X DCA	MIN +	.0801 X 35/085 HGT +		-.0500 X 40/080 HGT +
										.1071 X MKC
										MAX +
										.1352 X HTS
										MAX +

AGS	MAX	R= .76161	STANDARD ERROR =	3.00764	REDUCTION OF VARIANCE =	.58006	STD. DEV. OF PND.	4.64120
AGS	MAX	= -49.0242 +	.3682 X AGS	MAX +	.0047 X 35/085 THK +	.2178 X RIC	MIN +	.0618 X 35/085 HGT +
			-.0417 X 40/080 HGT +		.1399 X YYS	MAX +		
AHN	MAX	R= .81204	STANDARD ERROR =	2.75618	REDUCTION OF VARIANCE =	.65941	STD. DEV. OF PND.	4.72271
AHN	MAX	= -43.4603 +	.4234 X AHN	MAX +	.1819 X BNA	MAX +	.0510 X 35/085 HGT +	-.0310 X 40/080 HGT +
			.1624 X RIC	MIN +	-.3655 X AHN	MIN +	.3932 X ATL	MIN +
ATL	MAX	R= .78046	STANDARD ERROR =	3.02655	REDUCTION OF VARIANCE =	.60911	STD. DEV. OF PND.	4.84085
ATL	MAX	= -54.1324 +	.3430 X ATL	MAX +	.1677 X BNA	MAX +	.5189 X ATL	MIN +
			-.0293 X 40/080 HGT +		-.3892 X AHN	MIN +	.1484 X RIC	MIN +
BHM	MAX	R= .76481	STANDARD ERROR =	2.99440	REDUCTION OF VARIANCE =	.58493	STD. DEV. OF PND.	4.64781
BHM	MAX	= -90.0221 +	.5169 X BHM	MAX +	.1181 X CBI	MAX +	.0341 X 30/090 HGT +	.2082 X ATL
								MIN +
JAN	MAX	R= .75555	STANDARD ERROR =	2.90392	REDUCTION OF VARIANCE =	.57086	STD. DEV. OF PND.	4.43284
JAN	MAX	= -134.3550 +	.4607 X JAN	MAX +	.0327 X 35/095 THK +	.2090 X MOB	MAX +	.0204 X 35/085 HGT +
SHV	MAX	R= .76580	STANDARD ERROR =	3.16606	REDUCTION OF VARIANCE =	.58645	STD. DEV. OF PND.	4.92327
SHV	MAX	= -86.4506 +	.3624 X SHV	MAX +	.0335 X 35/095 THK +	.1804 X MOB	MAX +	.1239 X OKC
			.2146 X SHV	MIN +				MAX +
JAX	MAX	R= .71494	STANDARD ERROR =	2.74211	REDUCTION OF VARIANCE =	.51115	STD. DEV. OF PND.	3.92190
JAX	MAX	= -91.6736 +	.2532 X JAX	MAX +	.1783 X RDU	MIN +	.1258 X AGS	MAX +
			-.0411 X 35/075 HGT +		.0335 X 35/075 THK +		.1117 X JAN	MAX +
TLH	MAX	R= .65890	STANDARD ERROR =	2.90745	REDUCTION OF VARIANCE =	.43415	STD. DEV. OF PND.	3.86510
TLH	MAX	= -12.7947 +	.4207 X TLH	MAX +	.0352 X 30/090 HGT +	.1466 X AGS	MAX +	-.0189 X 30/070 HGT +
MGM	MAX	R= .74691	STANDARD ERROR =	2.88872	REDUCTION OF VARIANCE =	.55788	STD. DEV. OF PND.	4.34443
MGM	MAX	= -143.3045 +	.4967 X MGM	MAX +	.0281 X 35/085 THK +	.0305 X 30/090 HGT +	.3733 X ATL	MIN +
			-.2792 X AHN	MIN +				
MOB	MAX	R= .72309	STANDARD ERROR =	2.73489	REDUCTION OF VARIANCE =	.52286	STD. DEV. OF PND.	3.95929
MOB	MAX	= -111.1057 +	.4149 X MOB	MAX +	.0524 X 30/090 HGT +	-.0451 X 30/080 HGT +	.1418 X TLH	MAX +
			.0315 X 30/080 THK +					
MSY	MAX	R= .71040	STANDARD ERROR =	2.42044	REDUCTION OF VARIANCE =	.50467	STD. DEV. OF PND.	3.43914
MSY	MAX	= -117.5636 +	.4006 X MSY	MAX +	-.0100 X 30/090 THK +	.1790 X MSY	MIN +	.0477 X 30/090 HGT +
			-.0358 X 30/080 HGT +		.0333 X 30/080 THK +	.0162 X 35/095 THK +		
LCH	MAX	R= .70285	STANDARD ERROR =	2.92521	REDUCTION OF VARIANCE =	.49399	STD. DEV. OF PND.	4.11225
LCH	MAX	= 8.8086 +	.4615 X LCH	MAX +	.2946 X MSY	MAX +	.1907 X SHV	MIN +
HOU	MAX	R= .74290	STANDARD ERROR =	2.68218	REDUCTION OF VARIANCE =	.55190	STD. DEV. OF PND.	4.00685
HOU	MAX	= -1.7525 +	.4608 X HOU	MAX +	.1841 X MSY	MAX +	.2300 X FTW	MIN +
			.0287 X 25/095 HGT +				-.0230 X 35/085 HGT +	
CRP	MAX	R= .72174	STANDARD ERROR =	2.15262	REDUCTION OF VARIANCE =	.52091	STD. DEV. OF PND.	3.10997
CRP	MAX	= 16.8477 +	.5350 X CRP	MAX +	.1734 X HOU	MAX +	.1448 X SAT	MIN +
BRO	MAX	R= .64415	STANDARD ERROR =	1.95009	REDUCTION OF VARIANCE =	.41493	STD. DEV. OF PND.	2.54947
BRO	MAX	= 31.5976 +	.4791 X BRO	MAX +	.1783 X CRP	MAX +		
ORL	MAX	R= .61102	STANDARD ERROR =	2.46844	REDUCTION OF VARIANCE =	.37334	STD. DEV. OF PND.	3.11823
ORL	MAX	= -50.4233 +	.4123 X ORL	MAX +	.2016 X MIA	MIN +	.1254 X MGM	MIN +
			.1757 X TPA	MIN +			.0210 X 25/085 HGT +	
TPA	MAX	R= .63302	STANDARD ERROR =	2.46003	REDUCTION OF VARIANCE =	.40072	STD. DEV. OF PND.	3.17779
TPA	MAX	= -1.3820 +	.4841 X TPA	MAX +	.0322 X 30/080 HGT +	.2043 X MIA	MIN +	-.0220 X 25/075 HGT +
MIA	MAX	R= .68724	STANDARD ERROR =	1.73891	REDUCTION OF VARIANCE =	.47230	STD. DEV. OF PND.	2.39378
MIA	MAX	= -81.3869 +	.4388 X MIA	MAX +	.1403 X EYW	MIN +	.0335 X 25/075 THK +	.1580 X MIA
			-.0167 X 30/070 HGT +		.0188 X 25/085 HGT +			MIN +
EYW	MAX	R= .65274	STANDARD ERROR =	1.60080	REDUCTION OF VARIANCE =	.42647	STD. DEV. OF PND.	2.11304
EYW	MAX	= -37.5595 +	.5263 X EYW	MAX +	.1922 X EYW	MIN +	.0213 X 25/075 THK +	

Southeast Min

July-August

HGT: (700M HEIGHT) IN METERS		THK: (700M HEIGHT - 1000M HEIGHT) IN METERS		MAX-MIN-TEMPERATURES IN DEGREES-FAHRENHEIT-	
SBY	MIN R= .81507 STANDARD ERROR = 3.56327 REDUCTION OF VARIANCE = .66434 STD. DEV. OF PND. 6.15038				
SBY	MIN = -64.5474 + .0308 X 40/070 THK + .3295 X DET MIN + .3171 X RIC MIN + -.0358 X 40/090 HGT + .0291 X 40/070 HGT + .1987 X ORF MAX +				
DCA	MIN R= .80923 STANDARD ERROR = 2.55326 REDUCTION OF VARIANCE = .70430 STD. DEV. OF PND. 4.69539				
DCA	MIN = -109.8123 + .3907 X DCA MIN + .0402 X 40/080 THK + .2101 X DET MIN + .0213 X 40/070 HGT + -.0159 X 40/090 HGT +				
CRW	MIN R= .85076 STANDARD ERROR = 2.97654 REDUCTION OF VARIANCE = .72380 STD. DEV. OF PND. 5.66369				
CRW	MIN = -83.5425 + .0960 X CMH MIN + .0423 X 40/080 THK + .2858 X IND MIN + .2442 X CRW MIN + -.0324 X 40/090 HGT + .0232 X 40/070 HGT + .1484 X DSM MIN +				
HTS	MIN R= .84938 STANDARD ERROR = 2.95713 REDUCTION OF VARIANCE = .72144 STD. DEV. OF PND. 5.60287				
HTS	MIN = -30.4275 + .4573 X HTS MIN + .0590 X 40/080 THK + .1898 X PIA MIN + -.0377 X 40/090 HGT + .0346 X 35/075 HGT + -.0326 X 35/075 THK + .1615 X DSM MIN +				
LOU	MIN R= .83896 STANDARD ERROR = 2.97494 REDUCTION OF VARIANCE = .70385 STD. DEV. OF PND. 5.46671				
LOU	MIN = 15.0756 + .2640 X PIA MIN + .3358 X LOU MIN + .0489 X 35/085 HGT + -.0500 X 35/095 HGT + .2358 X CBI MIN +				
ORF	MIN R= .81812 STANDARD ERROR = 2.42325 REDUCTION OF VARIANCE = .66932 STD. DEV. OF PND. 4.21402				
ORF	MIN = -68.3158 + .3535 X ORF MIN + .1374 X CMH MIN + .0999 X 40/070 THK + .0235 X 40/080 THK + .1369 X ORF MAX + .0141 X 40/070 HGT + -.0164 X 40/090 HGT +				
RIC	MIN R= .84407 STANDARD ERROR = 2.75262 REDUCTION OF VARIANCE = .71245 STD. DEV. OF PND. 5.13320				
RIC	MIN = -71.1534 + .3524 X RIC MIN + .0321 X 40/080 THK + .1268 X CMH MIN + .0240 X 40/070 HGT + -.0272 X 40/090 HGT + .1310 X ORF MAX + .1425 X PIA MIN +				
ROA	MIN R= .79600 STANDARD ERROR = 2.91703 REDUCTION OF VARIANCE = .63362 STD. DEV. OF PND. 4.81922				
ROA	MIN = -160.7358 + .2734 X IND MIN + .3545 X ROA MIN + .0441 X 40/080 THK + .0217 X 40/070 HGT + -.0286 X 40/080 HGT + .0233 X 30/080 HGT +				
HAT	MIN R= .69913 STANDARD ERROR = 2.94903 REDUCTION OF VARIANCE = .48878 STD. DEV. OF PND. 4.12452				
HAT	MIN = -109.5603 + .3537 X HAT MIN + .2240 X PIT MIN + .0256 X 35/075 HGT + -.0112 X 45/085 HGT + .0315 X 25/085 THK +				
RDU	MIN R= .80427 STANDARD ERROR = 2.64440 REDUCTION OF VARIANCE = .64685 STD. DEV. OF PND. 4.44989				
RDU	MIN = -109.1785 + .4205 X RDU MIN + .1921 X CMH MIN + .0359 X 40/080 THK + .0275 X 30/080 HGT + -.0190 X 40/090 HGT +				
GSO	MIN R= .79331 STANDARD ERROR = 2.58162 REDUCTION OF VARIANCE = .62933 STD. DEV. OF PND. 4.24033				
GSO	MIN = -98.7934 + .3767 X GSO MIN + .0228 X 40/080 THK + .1996 X LOU MIN + .2273 X HAT MAX + .0124 X 40/070 HGT +				
TYS	MIN R= .80493 STANDARD ERROR = 2.40504 REDUCTION OF VARIANCE = .64791 STD. DEV. OF PND. 4.05318				
TYS	MIN = -116.0386 + .4866 X TYS MIN + .2003 X CBI MIN + .0217 X 35/075 HGT + .0364 X 35/085 THK + -.0135 X 40/090 HGT +				
BNA	MIN R= .82898 STANDARD ERROR = 2.60777 REDUCTION OF VARIANCE = .68721 STD. DEV. OF PND. 4.66278				
BNA	MIN = -111.9817 + .4050 X BNA MIN + .3044 X CBI MIN + .0226 X 35/075 HGT + .0364 X 35/085 THK + -.0159 X 40/100 HGT +				
MEM	MIN R= .81209 STANDARD ERROR = 2.47971 REDUCTION OF VARIANCE = .65949 STD. DEV. OF PND. 4.24950				
MEM	MIN = 8.2155 + .4718 X MEM MIN + .2709 X CBI MIN + .0234 X 35/085 HGT + -.0199 X 35/105 HGT +				
LIT	MIN R= .79692 STANDARD ERROR = 2.43849 REDUCTION OF VARIANCE = .63507 STD. DEV. OF PND. 4.03663				
LIT	MIN = -51.8741 + .4030 X LIT MIN + .1773 X ICT MIN + .1749 X STL MIN + .0220 X 30/090 HGT +				
FSM	MIN R= .80689 STANDARD ERROR = 2.53038 REDUCTION OF VARIANCE = .65108 STD. DEV. OF PND. 4.28373				
FSM	MIN = -95.7864 + .4527 X FSM MIN + .1726 X ICT MIN + .0460 X 35/095 THK + .0147 X 35/075 HGT + -.0387 X DAY OF YR + -.0180 X 35/105 HGT +				
CHS	MIN R= .75238 STANDARD ERROR = 2.15168 REDUCTION OF VARIANCE = .56607 STD. DEV. OF PND. 3.26640				
CHS	MIN = -51.5369 + .4492 X CHS MIN + .1780 X RDU MIN + .0917 X LOU MIN + .0238 X 30/080 THK +				
CLT	MIN R= .78148 STANDARD ERROR = 2.20865 REDUCTION OF VARIANCE = .61071 STD. DEV. OF PND. 3.53988				
CLT	MIN = -101.0062 + .3447 X CLT MIN + .1492 X LOU MIN + .0274 X 35/085 THK + .0142 X 35/075 HGT + .1088 X RIC MIN +				

AGS MIN R= .76392 STANDARD ERROR = 2.32175 REDUCTION OF VARIANCE = .58358 STD. DEV. OF PND. 3.59789
 AGS MIN = 16.0300 + .4168 X AGS MIN + .2152 X RDU MIN + .1538 X LOU MIN +
 AHN MIN R= .77939 STANDARD ERROR = 2.03543 REDUCTION OF VARIANCE = .60744 STD. DEV. OF PND. 3.24866
 AHN MIN = -67.1701 + .3176 X AHN MIN + .1786 X BNA MIN + .1533 X GSO MIN + .0213 X 35/085 THK +
 .0084 X 35/075 HGT +
 ATL MIN R= .78427 STANDARD ERROR = 1.93045 REDUCTION OF VARIANCE = .61508 STD. DEV. OF PND. 3.11153
 ATL MIN = 15.7498 + .3878 X ATL MIN + .1220 X STL MIN + .1115 X ATL MAX + .1250 X BNA MIN +
 BHM MIN R= .73673 STANDARD ERROR = 2.44162 REDUCTION OF VARIANCE = .54277 STD. DEV. OF PND. 3.61085
 BHM MIN = -59.0019 + .4964 X BHM MIN + .1477 X CBI MIN + .0171 X 35/075 HGT + .0248 X 35/085 THK +
 -.0152 X 40/070 THK +
 JAN MIN R= .75321 STANDARD ERROR = 2.13230 REDUCTION OF VARIANCE = .56732 STD. DEV. OF PND. 3.24165
 JAN MIN = -125.3270 + .5205 X JAN MIN + .1388 X CBI MIN + .0333 X 30/090 THK + .0151 X 30/080 HGT +
 SHV MIN R= .77497 STANDARD ERROR = 1.92424 REDUCTION OF VARIANCE = .60058 STD. DEV. OF PND. 3.04471
 SHV MIN = -45.5828 + .3903 X SHV MIN + .0588 X ICT MIN + .1924 X JAN MIN + .0689 X MAF MAX +
 .0204 X 30/090 HGT + -.0156 X 35/105 HGT + .0164 X 35/095 THK +
 JAX MIN R= .57609 STANDARD ERROR = 1.78569 REDUCTION OF VARIANCE = .33188 STD. DEV. OF PND. 2.18464
 JAX MIN = -26.0043 + .3708 X JAX MIN + .0780 X RDU MIN + .0202 X 30/080 THK + .0780 X BHM MIN +
 TLH MIN R= .63502 STANDARD ERROR = 1.57808 REDUCTION OF VARIANCE = .40326 STD. DEV. OF PND. 2.04284
 TLH MIN = 23.0877 + .4139 X TLH MIN + .1167 X BHM MIN + .0806 X CHS MIN + .0576 X TLH MAX +
 MGM MIN R= .75976 STANDARD ERROR = 1.86457 REDUCTION OF VARIANCE = .57723 STD. DEV. OF PND. 2.86766
 MGM MIN = 11.1503 + .3137 X MGM MIN + .1006 X CRI MIN + .2065 X BHM MIN + .0906 X MGM MAX +
 .1195 X CHS MIN +
 MOB MIN R= .63272 STANDARD ERROR = 1.76072 REDUCTION OF VARIANCE = .40033 STD. DEV. OF PND. 2.27370
 MOB MIN = -24.6918 + .4442 X MOB MIN + .1052 X MEM MIN + .0188 X 30/090 THK +
 MSY MIN R= .70499 STANDARD ERROR = 2.01427 REDUCTION OF VARIANCE = .49702 STD. DEV. OF PND. 2.84014
 MSY MIN = -52.1033 + .6353 X MSY MIN + .0259 X 30/090 THK +
 LCH MIN R= .72278 STANDARD ERROR = 1.69454 REDUCTION OF VARIANCE = .52242 STD. DEV. OF PND. 2.45204
 LCH MIN = -34.6055 + .5334 X LCH MIN + .1060 X JAN MIN + .0372 X FAR MIN + .0200 X 30/090 HGT +
 .0149 X 35/095 THK + -.0157 X 35/095 HGT +
 HOU MIN R= .66078 STANDARD ERROR = 1.51469 REDUCTION OF VARIANCE = .43663 STD. DEV. OF PND. 2.01803
 HOU MIN = 14.7130 + .4974 X HOU MIN + .1029 X LCH MIN + .0101 X 30/090 HGT + -.0069 X 40/110 HGT +
 CRP MIN R= .68909 STANDARD ERROR = 1.75408 REDUCTION OF VARIANCE = .47485 STD. DEV. OF PND. 2.42051
 CRP MIN = -16.1922 + .3924 X CRP MIN + .2342 X HOU MIN + -.0243 X 35/105 HGT + .0234 X 25/085 HGT +
 .0900 X CRP MAX + .0126 X 30/100 THK +
 BRO MIN R= .72173 STANDARD ERROR = 1.48798 REDUCTION OF VARIANCE = .52090 STD. DEV. OF PND. 2.14973
 BRO MIN = -4.3273 + .4070 X BRO MIN + .1043 X LCH MIN + -.0121 X 35/095 HGT + .0225 X 25/085 HGT +
 .0103 X 30/100 THK + -.0128 X 35/105 HGT + .1045 X BRO MAX + .1057 X SAT MIN +
 ORL MIN R= .30442 STANDARD ERROR = 2.69313 REDUCTION OF VARIANCE = .09267 STD. DEV. OF PND. 2.82732
 ORL MIN = 33.4115 + .2472 X TPA MIN + .0926 X CHS MAX + .1701 X MIA MIN +
 TPA MIN R= .61543 STANDARD ERROR = 1.61767 REDUCTION OF VARIANCE = .37875 STD. DEV. OF PND. 2.05238
 TPA MIN = 48.4035 + .4671 X TPA MIN + .0913 X CLT MIN + .1002 X URL MAX + -.0077 X 35/085 HGT +
 MIA MIN R= .57765 STANDARD ERROR = 1.86452 REDUCTION OF VARIANCE = .33367 STD. DEV. OF PND. 2.28414
 MIA MIN = 31.7741 + .5797 X MIA MIN +
 EYW MIN R= .52024 STANDARD ERROR = 2.52769 REDUCTION OF VARIANCE = .27065 STD. DEV. OF PND. 2.95976
 EYW MIN = 80.2126 + .4530 X EYW MIN + -.0118 X 40/080 HGT +

Northeast Max

July-August

HGT: (700MR HEIGHT) IN METERS THK: (700MR HEIGHT - 1000MR HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

CAR	MAX	R= .73619	STANDARD ERROR =	5.07044	REDUCTION OF VARIANCE =	.54198	STD. DEV. OF PND.	7.44777
CAR	MAX	= -226.6914 +	.0696 X 50/070 THK +	.0458 X 45/075 HGT +	-.0203 X 55/075 HGT +	.1966 X QB	MAX +	
SSM	MAX	R= -.00554	STANDARD ERROR =	4.45192	REDUCTION OF VARIANCE =	.64890	STD. DEV. OF PND.	7.51328
SSM	MAX	= -.62.5136 +	.0361 X 50/090 THK +	.0539 X 45/085 HGT +	.2429 X SSM MIN +	.2169 X QT	MAX +	
			-.0188 X 55/105 HGT +	-.1989 X EAR MIN +	-.0384 X 40/090 HGT +			
PWM	MAX	R= .78440	STANDARD ERROR =	4.50276	REDUCTION OF VARIANCE =	.61541	STD. DEV. OF PND.	7.26070
PWM	MAX	= -168.3172 +	.8330 X BOS MIN +	.0622 X 40/080 HGT +	-.3753 X ALB MIN +	-.0361 X 50/070 HGT +		
			+.0393 X 50/070 THK +	+.2439 X QB MIN +				
BTV	MAX	R= .82129	STANDARD ERROR =	4.18049	REDUCTION OF VARIANCE =	.67451	STD. DEV. OF PND.	7.32757
BTV	MAX	= -141.8630 +	.0090 X 45/075 THK +	.2250 X YB MIN +	.0528 X 45/075 HGT +	.4233 X BOS MIN +		
			-.1752 X ALB MIN +	-.0363 X 50/080 HGT +	.1853 X YB MAX +	.0335 X 50/080 THK +		
SYR	MAX	R= .83119	STANDARD ERROR =	3.77793	REDUCTION OF VARIANCE =	.69088	STD. DEV. OF PND.	6.79496
SYR	MAX	= -97.3764 +	.3020 X YB MIN +	.2659 X FNT MAX +	.0276 X 45/075 HGT +	-.0186 X 50/090 HGT +		
			.0376 X 45/085 THK +					
BUF	MAX	R= .80234	STANDARD ERROR =	3.77029	REDUCTION OF VARIANCE =	.64375	STD. DEV. OF PND.	6.31677
BUF	MAX	= -155.4531 +	.0575 X 45/085 THK +	.0312 X 45/075 HGT +	.1637 X SSM MAX +	-.0178 X 45/095 HGT +		
			.1334 X HUF MAX +					
DEF	MAX	R= .81255	STANDARD ERROR =	3.80571	REDUCTION OF VARIANCE =	.66024	STD. DEV. OF PND.	6.52906
DET	MAX	= -175.0297 +	.0768 X 45/085 THK +	.2146 X GRB MAX +	.1981 X YB MIN +			
FNT	MAX	R= .81527	STANDARD ERROR =	3.96394	REDUCTION OF VARIANCE =	.66467	STD. DEV. OF PND.	6.84528
FNT	MAX	= -128.6827 +	.0481 X 45/085 THK +	.2121 X GRB MAX +	.1637 X STC MIN +	-.0149 X 55/095 HGT +		
			.0245 X 45/085 HGT +	.1577 X YB MIN +				
GRB	MAX	R= .80934	STANDARD ERROR =	3.87266	REDUCTION OF VARIANCE =	.65503	STD. DEV. OF PND.	6.59356
GRB	MAX	= -73.9115 +	.0338 X 45/085 THK +	.1796 X STC MIN +	.2422 X GRB MAX +	.0231 X 45/085 HGT +		
			.1731 X STC MAX +	-.0193 X 45/105 HGT +				
MKE	MAX	R= .79838	STANDARD ERROR =	4.45205	REDUCTION OF VARIANCE =	.63742	STD. DEV. OF PND.	7.39362
MKE	MAX	= -16.8210 +	.3244 X GRB MIN +	.2643 X MSP MAX +	.2474 X DLH MIN +	-.0193 X 55/095 HGT +		
			-.2014 X CVG MIN +	.0383 X 45/085 THK +				
GRB	MAX	R= .77709	STANDARD ERROR =	4.34496	REDUCTION OF VARIANCE =	.60386	STD. DEV. OF PND.	6.90341
GRB	MAX	= -70.2066 +	.2568 X DLH MIN +	.2006 X EAR MAX +	.0180 X 45/085 THK +	.0352 X 50/090 THK +		
			-.0168 X 55/095 HGT +	.1593 X GRB MAX +				
MSN	MAX	R= .76574	STANDARD ERROR =	4.37216	REDUCTION OF VARIANCE =	.58636	STD. DEV. OF PND.	6.79804
MSN	MAX	= -75.9005 +	.0351 X 45/095 THK +	.1796 X MSN MAX +	.2211 X DLH MIN +	.1918 X STC MAX +		
			.1780 X MKE MIN +					
ACK	MAX	R= .71930	STANDARD ERROR =	3.07054	REDUCTION OF VARIANCE =	.51740	STD. DEV. OF PND.	4.41998
ACK	MAX	= -27.5477 +	.3175 X BOS MIN +	.2264 X ACK MAX +	-.3156 X HFD MIN +	.3131 X ACK MIN +		
			.2872 X NYC MIN +	.0142 X 40/090 HGT +				
BOS	MAX	R= .82771	STANDARD ERROR =	4.29984	REDUCTION OF VARIANCE =	.68511	STD. DEV. OF PND.	7.66253
BOS	MAX	= -69.8039 +	.8496 X BOS MIN +	.0552 X 40/080 HGT +	-.0314 X 50/070 HGT +	.3432 X QB MIN +		
			-.3184 X PHL MIN +	.5265 X NYC MIN +	-.2691 X HFD MIN +			
HFD	MAX	R= .79513	STANDARD ERROR =	4.06673	REDUCTION OF VARIANCE =	.63224	STD. DEV. OF PND.	6.70594
HFD	MAX	= -119.0551 +	.7983 X NYC MIN +	.1743 X FNT MAX +	-.4572 X PHL MIN +	.2917 X BOS MIN +		
			-.0333 X 40/080 HGT +	-.0176 X 50/070 HGT +	-.0312 X 45/075 THK +			
ALB	MAX	R= .80356	STANDARD ERROR =	4.05349	REDUCTION OF VARIANCE =	.64571	STD. DEV. OF PND.	6.81007
ALB	MAX	= -244.3136 +	.0273 X 45/085 THK +	.6451 X NYC MIN +	.1787 X YB MAX +	.0284 X 40/080 HGT +		
			-.2834 X PHL MIN +	.0392 X 45/075 THK +				
NYC	MAX	R= .81643	STANDARD ERROR =	3.67084	REDUCTION OF VARIANCE =	.66655	STD. DEV. OF PND.	6.35701
NYC	MAX	= -120.4964 +	.7642 X NYC MIN +	.0576 X 40/080 HGT +	-.0172 X 45/065 HGT +	.0408 X 45/075 THK +		
			-.2313 X CRW MIN +	-.0309 X 45/075 HGT +	.1394 X FNT MAX +			
PHL	MAX	R= .77497	STANDARD ERROR =	3.80942	REDUCTION OF VARIANCE =	.60057	STD. DEV. OF PND.	6.02756
PHL	MAX	= -111.2797 +	.5867 X NYC MIN +	.1763 X FNT MAX +	.0472 X 40/080 THK +	-.2509 X CRW MIN +		
			-.1811 X PHL MAX +					

IPT	MAX	R= .78484	STANDARD ERROR =	4.02501	REDUCTION OF VARIANCE =	.61598	STD. DEV. OF PND.	6.49517
IPT	MAX	= -144.2088 +	.5611 X NYC	MIN +	.1816 X GRB	MAX +	.0555 X 40/080 HGT +	-.0333 X 40/070 HGT +
			.0351 X 45/075 THK +					
PII	MAX	R= .78524	STANDARD ERROR =	3.68277	REDUCTION OF VARIANCE =	.61661	STD. DEV. OF PND.	5.94775
PII	MAX	= -176.5191 +	-.0459 X 45/085 THK +		-.2172 X PII	MAX +	-.0295 X 40/080 HGT +	.1829 X FNT
								MIN +
CLE	MAX	R= .81029	STANDARD ERROR =	4.05650	REDUCTION OF VARIANCE =	.65657	STD. DEV. OF PND.	6.92202
CLE	MAX	= -280.4662 +	.0740 X 45/085 THK +		.0394 X 40/080 HGT +		.2845 X MKE	MIN +
CMH	MAX	R= .80167	STANDARD ERROR =	3.59182	REDUCTION OF VARIANCE =	.66267	STD. DEV. OF PND.	6.00867
CMH	MAX	= -170.5149 +	-.0441 X 45/085 THK +		-.2658 X PIA	MAX +	-.0279 X 40/080 HGT +	.2107 X DAY
								MIN +
DAY	MAX	R= .79816	STANDARD ERROR =	3.44081	REDUCTION OF VARIANCE =	.63706	STD. DEV. OF PND.	5.71141
DAY	MAX	= -125.8358 +	.0310 X 45/085 THK +		.4419 X DAY	MAX +	.1798 X MLI	MIN +
			.0242 X 40/080 HGT +		-.2464 X CMH	MAX +	.1597 X DSM	MAX +
CVG	MAX	R= .75970	STANDARD ERROR =	3.77495	REDUCTION OF VARIANCE =	.57714	STD. DEV. OF PND.	5.80511
CVG	MAX	= -70.4047 +	.2509 X PIA	MAX +	.0314 X 40/080 HGT +		.2417 X DSM	MIN +
							.2387 X CVG	MAX +
IND	MAX	R= .69988	STANDARD ERROR =	4.42665	REDUCTION OF VARIANCE =	.48983	STD. DEV. OF PND.	6.19753
IND	MAX	= -174.5840 +	.0463 X 40/090 THK +		.0274 X 40/080 HGT +		.2271 X PIA	MAX +
							.2048 X MKE	MIN +
CHI	MAX	R= .78829	STANDARD ERROR =	4.11633	REDUCTION OF VARIANCE =	.62140	STD. DEV. OF PND.	6.68992
CHI	MAX	= 100.2146 +	.2861 X GRB	MIN +	.1974 X MSP	MAX +	-.0291 X 50/100 HGT +	.0304 X 40/090 HGT +
			.1790 X STC	MIN +	.1765 X DSM	MAX +	-.0266 X 35/095 THK +	
PIA	MAX	R= .78839	STANDARD ERROR =	3.71544	REDUCTION OF VARIANCE =	.62157	STD. DEV. OF PND.	6.03970
PIA	MAX	= -62.0181 +	.2331 X DSM	MIN +	.2246 X DSM	MAX +	.2191 X MKE	MIN +
							.0329 X 45/095 THK +	
MLI	MAX	R= .79596	STANDARD ERROR =	3.88715	REDUCTION OF VARIANCE =	.63356	STD. DEV. OF PND.	6.42140
MLI	MAX	= -21.3159 +	.0613 X 45/095 THK +		.1794 X GRB	MIN +	.1712 X DSM	MAX +
			.2710 X DSM	MIN +	-.0153 X 50/090 HGT +		-.0381 X 35/095 THK +	
STC	MAX	R= .79166	STANDARD ERROR =	4.01196	REDUCTION OF VARIANCE =	.62672	STD. DEV. OF PND.	6.56658
STL	MAX	= -59.8546 +	.2658 X STL	MIN +	.1817 X LBF	MAX +	.0447 X 40/090 HGT +	-.0187 X 50/090 HGT +
			.2443 X MKC	MIN +	.1522 X PIA	MAX +		
CBI	MAX	R= .79755	STANDARD ERROR =	4.11373	REDUCTION OF VARIANCE =	.63609	STD. DEV. OF PND.	6.81926
CBI	MAX	= 12.0387 +	.7072 X MKC	MIN +	.2474 X LBF	MAX +	.2487 X CBI	MAX +
							-.2557 X TOP	MIN +

Northeast Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS MAX+ MIN+ TEMPERATURES IN DEGREES FAHRENHEIT.

CAR	MIN	R= .78356	STANDARD ERROR =	3.89575	REDUCTION OF VARIANCE =	.61396	STD. DEV. OF PND.	6.27013
CAR	MIN	= -220.2235 +	.2593 X YB	MIN +	.0370 X 50/060 THK +		.0513 X 50/070 THK +	.1459 X BTV
			-.0430 X DAY OF	YR +				MIN +
SSM	MIN	R= .80392	STANDARD ERROR =	3.54278	REDUCTION OF VARIANCE =	.64628	STD. DEV. OF PND.	5.95685
SSM	MIN	= -101.0606 +	.2209 X DLH	MIN +	.0217 X 50/080 THK +		.2594 X SSM	MIN +
			.0187 X 50/070 HGT +		-.0278 X 45/095 HGT +		.0291 X 45/095 THK +	.1221 X FAR
								MIN +
PWM	MIN	R= .81647	STANDARD ERROR =	3.71714	REDUCTION OF VARIANCE =	.66663	STD. DEV. OF PND.	6.43790
PWM	MIN	= -139.4286 +	.2084 X BTV	MIN +	.0597 X 45/075 THK +		.0305 X 45/065 HGT +	-.0357 X 45/075 HGT +
			.2030 X PWM	MIN +	.1886 X YB	MIN +		
BTV	MIN	R= .81187	STANDARD ERROR =	3.96867	REDUCTION OF VARIANCE =	.66402	STD. DEV. OF PND.	6.84679
BTV	MIN	= -172.9935 +	.2700 X YB	MIN +	-.0104 X 45/065 THK +		.0774 X 45/075 THK +	.0454 X 45/065 HGT +
			-.0434 X 45/075 HGT +		.3610 X BTV	MIN +	-.1800 X ALS	MIN +
SYR	MIN	R= .84928	STANDARD ERROR =	3.62559	REDUCTION OF VARIANCE =	.67465	STD. DEV. OF PND.	6.35630
SYR	MIN	= -85.2197 +	.2728 X YB	MIN +	.2551 X FNT	MIN +	.0352 X 45/075 THK +	-.0270 X 45/085 HGT +
			.0269 X 40/070 HGT +		.1385 X QT	MAX +		
BUF	MIN	R= .84928	STANDARD ERROR =	3.23912	REDUCTION OF VARIANCE =	.72128	STD. DEV. OF PND.	6.13534
BUF	MIN	= -101.8262 +	.1923 X BUF	MAX +	-.2256 X GRB	MIN +	-.0343 X 40/070 HGT +	-.0354 X 45/085 HGT +
			.0390 X 45/085 THK +		.2109 X BUF	MIN +	.1319 X LH	MIN +

DET	MIN	R= .85299	STANDARD ERROR =	3.04555	REDUCTION OF VARIANCE =	.72759	STD. DEV. OF PND,	5.83523
DET	MIN	= -177.6221 +	.2558 X GRB	MIN +	.0466 X 40/080 HGT +	.0601 X 45/085 THK +	-.0563 X 45/085 HGT +	
			.0195 X 50/080 HGT +		.1794 X DET		MAX +	
FNT	MIN	R= .84875	STANDARD ERROR =	3.62874	REDUCTION OF VARIANCE =	.72038	STD. DEV. OF PND,	6.86235
FNT	MIN	= -225.6813 +	.3233 X GRB	MIN +	.0675 X 40/080 HGT +	.0480 X 45/085 THK +	-.0727 X 45/085 HGT +	
			.0215 X 50/080 HGT +		.1642 X MSP		MIN +	
GRR	MIN	R= .83518	STANDARD ERROR =	3.58922	REDUCTION OF VARIANCE =	.69753	STD. DEV. OF PND,	6.52616
GRR	MIN	= -149.5206 +	.3485 X GRB	MIN +	.0563 X 40/080 HGT +	.2568 X STC	MIN +	-.0512 X 40/090 HGT +
			.0423 X 40/090 THK +					
MKE	MIN	R= .83276	STANDARD ERROR =	3.22947	REDUCTION OF VARIANCE =	.69349	STD. DEV. OF PND,	5.83326
MKE	MIN	= -143.5823 +	.1734 X DLH	MIN +	.0183 X 40/090 THK +	.3203 X MKE	MIN +	.0320 X 40/080 HGT +
			.0320 X 45/095 THK +		-.0270 X 45/095 HGT +	.1275 X FAR	MIN +	
GRB	MIN	R= .82028	STANDARD ERROR =	3.85446	REDUCTION OF VARIANCE =	.67287	STD. DEV. OF PND,	6.73910
GRB	MIN	= -137.2085 +	.3489 X GRB	MIN +	.2874 X FAR	MIN +	.0423 X 40/080 HGT +	.0521 X 45/095 THK +
			-.0424 X 45/095 HGT +					
MSN	MIN	R= .84068	STANDARD ERROR =	3.71555	REDUCTION OF VARIANCE =	.70674	STD. DEV. OF PND,	6.86110
MSN	MIN	= -181.3593 +	.1354 X STC	MIN +	.0143 X 45/085 THK +	.0536 X 45/095 THK +	.2685 X MSN	MIN +
			.0396 X 40/080 HGT +		-.0383 X 45/095 HGT +	.1731 X FAR	MIN +	
ACK	MIN	R= .78346	STANDARD ERROR =	2.70079	REDUCTION OF VARIANCE =	.61380	STD. DEV. OF PND,	4.34596
ACK	MIN	= -76.3119 +	.4280 X ACK	MIN +	.0403 X 45/075 THK +	-.0336 X 45/075 HGT +	.0280 X 40/070 HGT +	
			.1344 X YB	MIN +				
BOS	MIN	R= .83162	STANDARD ERROR =	2.74768	REDUCTION OF VARIANCE =	.69159	STD. DEV. OF PND,	6.94771
BOS	MIN	= -121.0576 +	.1772 X YB	MIN +	.1712 X BOS	MAX +	.0262 X 45/065 THK +	.0240 X 45/075 THK +
			.1888 X BOS	MIN +				
HFD	MIN	R= .85030	STANDARD ERROR =	3.39628	REDUCTION OF VARIANCE =	.72300	STD. DEV. OF PND,	6.45306
HFD	MIN	= -178.6354 +	.1186 X BUF	MIN +	.0229 X 40/070 THK +	.1156 X SYR	MAX +	.0265 X 45/065 HGT +
			.2643 X HFD	MIN +	.0400 X 45/075 THK +	-.0236 X 45/075 HGT +	.1641 X FNT	MIN +
ALB	MIN	R= .83920	STANDARD ERROR =	3.67029	REDUCTION OF VARIANCE =	.70426	STD. DEV. OF PND,	6.74915
ALB	MIN	= -144.5204 +	.0906 X BUF	MIN +	.2029 X YB	MIN +	.0334 X 45/065 HGT +	.0520 X 45/075 THK +
			-.0301 X 45/075 HGT +		.1831 X ALB	MIN +	.1959 X FNT	MIN +
NYC	MIN	R= .82809	STANDARD ERROR =	2.54945	REDUCTION OF VARIANCE =	.68573	STD. DEV. OF PND,	4.54770
NYC	MIN	= -78.7361 +	.2389 X YB	MIN +	.2461 X NYC	MIN +	.0255 X 40/080 THK +	.0187 X 40/070 HGT +
			-.0093 X 50/080 HGT +		.1215 X NYC	MAX +		
PHL	MIN	R= .85402	STANDARD ERROR =	2.96989	REDUCTION OF VARIANCE =	.72936	STD. DEV. OF PND,	5.70874
PHL	MIN	= -171.4884 +	.2248 X FNT	MIN +	.2825 X PHL	MIN +	.0400 X 40/070 HGT +	.0542 X 40/080 THK +
			-.0286 X 40/080 HGT +		.1160 X BTV	MIN +		
IPT	MIN	R= .84088	STANDARD ERROR =	3.35387	REDUCTION OF VARIANCE =	.70708	STD. DEV. OF PND,	6.19681
IPT	MIN	= -160.9525 +	.3085 X DET	MIN +	-.0519 X 40/070 HGT +	-.0471 X 40/080 HGT +	.0552 X 40/080 THK +	
			.1952 X PIT	MIN +	.1530 X YB	MIN +		
PIT	MIN	R= .84298	STANDARD ERROR =	3.23529	REDUCTION OF VARIANCE =	.71062	STD. DEV. OF PND,	6.01416
PIT	MIN	= -224.1324 +	.0514 X 40/080 THK +		.3080 X PIT	MIN +	.2587 X MSN	MIN +
							.0306 X 40/070 HGT +	
CLE	MIN	R= .84791	STANDARD ERROR =	3.42793	REDUCTION OF VARIANCE =	.71895	STD. DEV. OF PND,	6.46608
CLE	MIN	= -156.0633 +	.2514 X MSN	MIN +	.0497 X 40/080 THK +	.2697 X CLE	MIN +	.0368 X 45/075 HGT +
			-.0285 X 45/085 HGT +		.1724 X DSM	MIN +		
CMH	MIN	R= .85059	STANDARD ERROR =	3.20192	REDUCTION OF VARIANCE =	.72350	STD. DEV. OF PND,	6.08923
CMH	MIN	= -145.6149 +	.0423 X 40/080 THK +		.2517 X CMH	MIN +	.2992 X DSM	MIN +
			.0253 X 45/075 HGT +		.0415 X 35/085 HGT +	.1576 X CHI	MIN +	-.0553 X 40/090 HGT +
DAY	MIN	R= .86343	STANDARD ERROR =	2.91617	REDUCTION OF VARIANCE =	.74551	STD. DEV. OF PND,	5.78063
DAY	MIN	= -130.5800 +	-.0040 X 40/080 THK +		.0864 X MLI	MIN +	.0664 X 40/080 HGT +	.2777 X DAY
			-.0567 X 40/090 HGT +		.0444 X 40/090 THK +	.1127 X QT	MIN +	.1951 X DSM
								MIN +
CVG	MIN	R= .84619	STANDARD ERROR =	3.06238	REDUCTION OF VARIANCE =	.71604	STD. DEV. OF PND,	5.74688
CVG	MIN	= -88.8729 +	.2233 X PIA	MIN +	.0349 X 40/080 THK +	.2661 X CVG	MIN +	.0468 X 35/085 HGT +
			-.0462 X 35/095 HGT +		.2241 X DSM	MIN +		

IND MIN R= .86037 STANDARD ERROR = 2.97207 REDUCTION OF VARIANCE = .74024 STD. DEV. OF PND. 5.63522
IND MIN = -126.5774 + .1321 X PIA MIN + .0505 X 40/080 HGT + .2308 X DSM MIN + .2627 X IND MIN +
-.0441 X 40/090 HGT + .0456 X 40/090 THK + -.0385 X DAY OF YR +

CHI MIN R= .83123 STANDARD ERROR = 3.65841 REDUCTION OF VARIANCE = .69094 STD. DEV. OF PND. 6.58064
CHI MIN = -119.2161 + .3247 X CHI MIN + .1274 X STC MIN + .0439 X 40/080 HGT + -.0420 X 45/095 HGT +
.0434 X 45/095 THK + .2413 X DSM MIN +

PIA MIN R= .86315 STANDARD ERROR = 2.91188 REDUCTION OF VARIANCE = .74504 STD. DEV. OF PND. 5.76678
PIA MIN = -107.5527 + .2297 X DSM MIN + .0312 X 40/080 HGT + .0383 X 40/090 THK + .2583 X PIA MIN +
.1479 X HON MIN + -.0263 X 40/100 HGT +

MLI MIN R= .85311 STANDARD ERROR = 3.32572 REDUCTION OF VARIANCE = .71966 STD. DEV. OF PND. 6.28119
MLI MIN = -165.1929 + .0438 X 40/090 THK + .1887 X STC MIN + .3267 X DSM MIN + .0323 X 40/080 HGT +
-.0394 X 40/100 HGT + -.0534 X DAY OF YR + .0320 X 40/100 THK +

STL MIN R= .85311 STANDARD ERROR = 2.92170 REDUCTION OF VARIANCE = .72780 STD. DEV. OF PND. 5.60008
STL MIN = -142.5978 + .0606 X 40/090 THK + .3164 X STL MIN + .2086 X OMA MIN + .0200 X 40/080 HGT +
-.0373 X DAY OF YR + -.0200 X 40/100 HGT +

CBI MIN R= .85697 STANDARD ERROR = 2.84677 REDUCTION OF VARIANCE = .73440 STD. DEV. OF PND. 5.52378
CBI MIN = -127.6484 + .0715 X 40/090 THK + .2538 X OMA MIN + .2252 X CBI MIN + -.0147 X 50/110 HGT +
-.0409 X DAY OF YR +

Northwest Max

September-October

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL MAX R= .90765 STANDARD ERROR = 4.97229 REDUCTION OF VARIANCE = .82363 STD. DEV. OF PND. 11.84662
 INL MAX = -387.4515 + .0682 X 50/100 THK + .0556 X 50/090 THK + .2376 X WG MAX + .0243 X 45/095 HGT +

DLM MAX R= .89375 STANDARD ERROR = 5.01544 REDUCTION OF VARIANCE = .79878 STD. DEV. OF PND. 11.18086
 DLM MAX = -335.8689 + .2766 X WG MAX + .0332 X 45/095 THK + .0775 X 50/090 THK + .0622 X 45/095 HGT +
 -.0443 X 50/090 HGT +

STC MAX R= .90323 STANDARD ERROR = 5.05850 REDUCTION OF VARIANCE = .81583 STD. DEV. OF PND. 11.78723
 STC MAX = -333.5267 + .0848 X 45/095 THK + .2880 X FAR MAX + .0450 X 50/100 THK +

FAR MAX R= .89315 STANDARD ERROR = 5.74624 REDUCTION OF VARIANCE = .79772 STD. DEV. OF PND. 12.77640
 FAR MAX = -384.1175 + .1603 X 50/100 THK + .2951 X FAR MAX + .0470 X 45/105 THK +

BIS MAX R= .90895 STANDARD ERROR = 5.69919 REDUCTION OF VARIANCE = .82619 STD. DEV. OF PND. 13.67013
 BIS MAX = -510.3322 + .0737 X 45/105 THK + .1055 X 50/100 THK + .0643 X 45/105 HGT + -.0393 X 55/105 HGT +
 -.1022 X DAY OF YR +

ISN MAX R= .92355 STANDARD ERROR = 5.11148 REDUCTION OF VARIANCE = .85294 STD. DEV. OF PND. 13.32921
 ISN MAX = -511.8657 + .1211 X 50/110 THK + .0553 X 50/100 THK + .0959 X 45/105 HGT + -.0668 X 50/110 HGT +
 -.1051 X DAY OF YR +

GSQ MAX R= .92715 STANDARD ERROR = 5.08155 REDUCTION OF VARIANCE = .85960 STD. DEV. OF PND. 13.56158
 GSQ MAX = -378.1753 + .1291 X 50/110 THK + .2466 X GTF MIN + .0642 X 45/105 HGT + -.1336 X DAY OF YR +
 -.0344 X 55/115 HGT +

BIL MAX R= .92932 STANDARD ERROR = 5.03524 REDUCTION OF VARIANCE = .86364 STD. DEV. OF PND. 13.63556
 BIL MAX = -534.1021 + .1067 X 50/110 THK + .0658 X 45/115 THK + -.0324 X 55/115 HGT + .0578 X 40/110 HGT +
 .1950 X HLN MAX +

GTF MAX R= .92240 STANDARD ERROR = 5.26091 REDUCTION OF VARIANCE = .85082 STD. DEV. OF PND. 13.62104
 GTF MAX = -465.7608 + .1324 X 50/110 THK + .1039 X 45/115 HGT + -.0431 X 55/125 HGT + -.1736 X DAY OF YR +

HLN MAX R= .92962 STANDARD ERROR = 4.77497 REDUCTION OF VARIANCE = .86420 STD. DEV. OF PND. 12.95750
 HLN MAX = -405.4540 + .0751 X 45/115 THK + .2116 X GTF MIN + .0721 X 45/115 HGT + -.0345 X 55/125 HGT +
 -.1552 X DAY OF YR + .0558 X 50/110 THK +

MSO MAX R= .90989 STANDARD ERROR = 5.16417 REDUCTION OF VARIANCE = .82790 STD. DEV. OF PND. 12.44835
 MSO MAX = -326.5537 + .0930 X 45/115 THK + .3125 X GEG MAX + .0435 X 45/115 HGT + -.1432 X DAY OF YR +

GEG MAX R= .93207 STANDARD ERROR = 4.33400 REDUCTION OF VARIANCE = .86876 STD. DEV. OF PND. 11.96323
 GEG MAX = -225.7384 + .3840 X GEG MAX + .0654 X 50/120 THK + -.1819 X DAY OF YR + .0407 X 45/115 HGT +

PDT MAX R= .92328 STANDARD ERROR = 4.26977 REDUCTION OF VARIANCE = .85245 STD. DEV. OF PND. 11.11579
 PDT MAX = -194.0042 + .2368 X PDT MAX + .0592 X 45/125 THK + .3705 X PDT MIN + -.1393 X DAY OF YR +
 .0304 X 45/115 HGT +

YKM MAX R= .92951 STANDARD ERROR = 3.97412 REDUCTION OF VARIANCE = .86399 STD. DEV. OF PND. 10.77596
 YKM MAX = -137.7128 + .3401 X YKM MAX + .0294 X 50/120 HGT + .3330 X PDT MIN + -.1190 X DAY OF YR +
 .0381 X 45/125 THK +

PDX MAX R= .88551 STANDARD ERROR = 4.44375 REDUCTION OF VARIANCE = .78413 STD. DEV. OF PND. 9.56435
 PDX MAX = -182.3934 + .0710 X 45/125 THK + -.1741 X DAY OF YR + .0242 X 50/120 HGT + .2011 X PDX MAX +

SEA MAX R= .86609 STANDARD ERROR = 4.13656 REDUCTION OF VARIANCE = .75012 STD. DEV. OF PND. 8.27506
 SEA MAX = -157.8861 + .0573 X 45/125 THK + -.1352 X DAY OF YR + .2596 X SEA MAX + .0255 X 55/125 THK +

TTI MAX R= .75430 STANDARD ERROR = 2.80614 REDUCTION OF VARIANCE = .56896 STD. DEV. OF PND. 4.27417
 TTI MAX = -15.3025 + .2058 X SEA MIN + .0093 X 55/115 HGT + .0935 X SLE MAX + .1114 X EKA MAX +
 -.0691 X 40/140 HGT + .0165 X 50/130 THK + .0464 X LH MAX +

MSP MAX R= .91161 STANDARD ERROR = 4.08443 REDUCTION OF VARIANCE = .83104 STD. DEV. OF PND. 11.88276
 MSP MAX = -364.8055 + .1133 X 45/095 THK + .2533 X FAR MAX + .0278 X 45/105 THK +

September-October

HON MAX R= .90922 STANDARD ERROR = 5.39415 REDUCTION OF VARIANCE = .82669 STD. DEV. OF PND. 12.95708
 HUN MAX = -369.4600 + .0834 X 45/105 THK + .1968 X HON MAX + .2740 X FAR MIN + -.0307 X 55/095 HGT +
 .0518 X 50/100 THK + .0346 X 40/100 HGT +

RAP MAX R= .92653 STANDARD ERROR = 5.30147 REDUCTION OF VARIANCE = .85846 STD. DEV. OF PND. 14.09136
 RAP MAX = -638.5864 + .1308 X 45/105 THK + .0540 X 40/110 HGT + -.0644 X 50/110 HGT + .0684 X 50/110 THK +
 .0482 X 40/100 HGT +

CPN MAX R= .92444 STANDARD ERROR = 5.14242 REDUCTION OF VARIANCE = .85459 STD. DEV. OF PND. 13.48572
 CPN MAX = -435.9198 + .1016 X 45/105 THK + .2122 X WMC MAX + .0943 X 40/110 HGT + -.0400 X 50/120 HGT +
 .3119 X GJT MIN +

LND MAX R= .93641 STANDARD ERROR = 4.61962 REDUCTION OF VARIANCE = .87686 STD. DEV. OF PND. 13.16464
 LND MAX = -405.6850 + .0560 X 45/105 THK + .0725 X 45/115 THK + .1942 X LND MAX + .0811 X 40/110 HGT +
 -.0442 X 50/120 HGT + -.1400 X DAY OF YR +

PIH MAX R= .92787 STANDARD ERROR = 4.60113 REDUCTION OF VARIANCE = .86094 STD. DEV. OF PND. 12.33834
 PIH MAX = -489.8216 + .1365 X 45/115 THK + -.1802 X DAY OF YR + .0659 X 40/110 HGT +

B01 MAX R= .93515 STANDARD ERROR = 4.07328 REDUCTION OF VARIANCE = .87451 STD. DEV. OF PND. 11.49868
 B01 MAX = -181.3364 + .0404 X 45/115 THK + -.1356 X DAY OF YR + .0773 X 45/115 HGT + -.0323 X 45/125 HGT +
 .2357 X MFR MAX + .2951 X B01 MIN +

BNU MAX R= .92579 STANDARD ERROR = 4.47499 REDUCTION OF VARIANCE = .85709 STD. DEV. OF PND. 11.83732
 BNU MAX = -271.0704 + .3643 X BNU MAX + .0587 X 45/115 HGT + -.1458 X DAY OF YR + .0589 X 45/125 THK +

MFR MAX R= .92184 STANDARD ERROR = 4.77312 REDUCTION OF VARIANCE = .84979 STD. DEV. OF PND. 12.31564
 MFR MAX = -114.3577 + .3890 X MFR MAX + .0584 X 45/125 HGT + -.2109 X DAY OF YR + -.0385 X 35/135 HGT +
 .0538 X 40/130 THK +

SLE MAX R= .88335 STANDARD ERROR = 4.89072 REDUCTION OF VARIANCE = .78031 STD. DEV. OF PND. 10.43436
 SLE MAX = -179.0664 + .0806 X 45/125 THK + -.1891 X DAY OF YR + .2386 X SLE MAX + .0155 X 50/130 HGT +

Northwest Min

September-October

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL MIN R= .84604 STANDARD ERROR = 4.94174 REDUCTION OF VARIANCE = .71578 STD. DEV. OF PND. 9.26945
 INL MIN = -74.6364 + .0310 X 50/090 THK + .2760 X FAR MIN + .0455 X 50/100 THK + -.0302 X 45/105 HGT +
 -.1017 X DAY OF YR +

DLH MIN R= .86947 STANDARD ERROR = 4.46599 REDUCTION OF VARIANCE = .75599 STD. DEV. OF PND. 9.04087
 DLH MIN = -104.2683 + .0423 X 50/090 THK + .2506 X FAR MIN + .0291 X 45/095 THK + -.1114 X DAY OF YR +
 -.0144 X 55/115 HGT +

STC MIN R= .85819 STANDARD ERROR = 5.15347 REDUCTION OF VARIANCE = .73648 STD. DEV. OF PND. 10.03914
 STC MIN = -42.0381 + .0448 X 45/095 THK + .2749 X FAR MIN + -.1456 X DAY OF YR + -.0367 X 40/110 HGT +
 .0327 X 50/100 THK +

FAR MIN R= .87199 STANDARD ERROR = 5.02053 REDUCTION OF VARIANCE = .76037 STD. DEV. OF PND. 10.25608
 FAR MIN = -103.8554 + .0627 X 50/100 THK + -.1814 X DAY OF YR + -.0299 X 50/110 HGT + .0318 X 50/090 HGT +
 .1864 X FAR MIN +

BIS MIN R= .85114 STANDARD ERROR = 4.91541 REDUCTION OF VARIANCE = .72451 STD. DEV. OF PND. 9.36503
 BIS MIN = -75.6130 + .0443 X 50/100 THK + -.1678 X DAY OF YR + .2924 X BIS MIN + -.0203 X 55/115 HGT +
 .0262 X 45/095 HGT +

ISN MIN R= .86019 STANDARD ERROR = 4.81017 REDUCTION OF VARIANCE = .73992 STD. DEV. OF PND. 9.43213
 ISN MIN = -106.4113 + .2955 X GSG MIN + .0692 X 50/110 THK + -.1385 X DAY OF YR + -.0442 X 50/110 HGT +
 .0344 X 50/100 HGT +

GSG MIN R= .87649 STANDARD ERROR = 4.47982 REDUCTION OF VARIANCE = .76824 STD. DEV. OF PND. 9.30546
 GSG MIN = -118.3649 + .3371 X GSG MIN + .0610 X 50/110 THK + -.1345 X DAY OF YR + -.0178 X 50/120 HGT +
 .0188 X 50/100 HGT +

BIL MIN R= .87943 STANDARD ERROR = 4.14405 REDUCTION OF VARIANCE = .77340 STD. DEV. OF PND. 8.70550
 BIL MIN = -128.3786 + .0484 X 50/110 THK + -.1209 X DAY OF YR + .2403 X GTF MIN + -.0157 X 60/130 HGT +
 .0289 X 35/105 HGT + .1810 X YKM MIN +

GTF MIN R= .85447 STANDARD ERROR = 4.73096 REDUCTION OF VARIANCE = .73697 STD. DEV. OF PND. 9.22455
 GTF MIN = -129.4523 + .1687 X GTF MAX + .0591 X 55/115 THK + -.1475 X DAY OF YR + -.0372 X 55/125 HGT +
 .0457 X 45/115 HGT +

Southwest Max

September-October

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MAX	R=	.90213	STANDARD ERROR =	4.90496	REDUCTION OF VARIANCE =	.81383	STD. DEV. OF PND.	11.36791
DSM	MAX	=	-387.0722 +	.0889 X 45/095 THK +	.0610 X 40/100 THK +	.2161 X DSM	MAX +		
QMA	MAX	R=	.88994	STANDARD ERROR =	5.10097	REDUCTION OF VARIANCE =	.79200	STD. DEV. OF PND.	11.18466
QMA	MAX	=	-514.7153 +	.0863 X 40/100 THK +	.0819 X 45/095 THK +	.0305 X 45/115 THK +			
LBF	MAX	R=	.90537	STANDARD ERROR =	5.35907	REDUCTION OF VARIANCE =	.81970	STD. DEV. OF PND.	12.62108
LBF	MAX	=	-508.5022 +	.1311 X 45/105 THK +	.1635 X LBF	MAX +	-.0342 X 50/100 HGT +	.0438 X 35/105 HGT +	
				.0496 X 40/100 THK +					
DEN	MAX	R=	.90694	STANDARD ERROR =	5.14398	REDUCTION OF VARIANCE =	.82254	STD. DEV. OF PND.	12.21107
DEN	MAX	=	-652.4325 +	.1217 X 45/105 THK +	.1170 X 35/105 HGT +	-.0814 X 45/105 HGT +	.0831 X 40/110 THK +		
SLC	MAX	R=	.92442	STANDARD ERROR =	4.56077	REDUCTION OF VARIANCE =	.85455	STD. DEV. OF PND.	11.95882
SLC	MAX	=	-296.6904 +	.0712 X 45/115 THK +	.3696 X ELY	MAX +	.3490 X SLC	MIN +	.0378 X 40/110 HGT +
WMC	MAX	R=	.92835	STANDARD ERROR =	4.41200	REDUCTION OF VARIANCE =	.86184	STD. DEV. OF PND.	11.86984
WMC	MAX	=	-525.5360 +	.1482 X 40/120 THK +	.0631 X 40/110 HGT +	-.1450 X DAY OF YR +			
RNO	MAX	R=	.92511	STANDARD ERROR =	4.08344	REDUCTION OF VARIANCE =	.85583	STD. DEV. OF PND.	10.75449
RNO	MAX	=	-303.9496 +	.0720 X 40/120 THK +	.3116 X RNO	MAX +	.0564 X 40/120 HGT +	-.1276 X DAY OF YR +	
RBL	MAX	R=	.91439	STANDARD ERROR =	4.42544	REDUCTION OF VARIANCE =	.83611	STD. DEV. OF PND.	10.93157
RBL	MAX	=	-259.4231 +	.4473 X SAC	MAX +	.0454 X 40/130 HGT +	.0675 X 40/120 HGT +	-.1656 X DAY OF YR +	
EKA	MAX	R=	.61802	STANDARD ERROR =	3.84694	REDUCTION OF VARIANCE =	.38195	STD. DEV. OF PND.	4.89333
EKA	MAX	=	-2.0854 +	.3137 X EKA	MAX +	.3571 X EKA	MIN +	-.0107 X 45/135 HGT +	.1406 X BRO
				.0181 X 45/115 HGT +	-.0912 X RNO	MAX +			
MKC	MAX	R=	.90784	STANDARD ERROR =	4.68319	REDUCTION OF VARIANCE =	.82417	STD. DEV. OF PND.	11.16852
MKC	MAX	=	-272.4109 +	.1052 X 40/100 THK +	.2066 X MKC	MAX +	.7714 X MKC	MIN +	-.4609 X TOP
									MIN +
TOP	MAX	R=	.90612	STANDARD ERROR =	4.74353	REDUCTION OF VARIANCE =	.82105	STD. DEV. OF PND.	11.21325
TOP	MAX	=	-309.7544 +	.1195 X 40/100 THK +	.1880 X TOP	MAX +	.6548 X MKC	MIN +	-.4115 X TOP
									MIN +
ICT	MAX	R=	.89811	STANDARD ERROR =	4.97532	REDUCTION OF VARIANCE =	.80661	STD. DEV. OF PND.	11.31364
ICT	MAX	=	-336.6459 +	.1288 X 40/100 THK +	.1993 X OKC	MAX +	.1787 X DDC	MAX +	
DDC	MAX	R=	.88388	STANDARD ERROR =	5.60035	REDUCTION OF VARIANCE =	.78125	STD. DEV. OF PND.	11.97411
DDC	MAX	=	-584.8676 +	.1919 X 40/100 THK +	.0906 X 35/105 HGT +	-.0629 X 40/100 HGT +			
PUB	MAX	R=	.90689	STANDARD ERROR =	5.01028	REDUCTION OF VARIANCE =	.82245	STD. DEV. OF PND.	11.89061
PUB	MAX	=	-482.1851 +	.0824 X 40/100 THK +	.2304 X ELY	MAX +	.0777 X 45/105 THK +	-.0727 X 45/105 HGT +	
				.0926 X 35/105 HGT +					
GJT	MAX	R=	.92045	STANDARD ERROR =	4.17453	REDUCTION OF VARIANCE =	.84724	STD. DEV. OF PND.	10.68060
GJT	MAX	=	-218.3043 +	.0831 X 40/110 THK +	.3429 X GJT	MAX +	.2661 X ELY	MAX +	
MLF	MAX	R=	.92913	STANDARD ERROR =	4.37591	REDUCTION OF VARIANCE =	.86328	STD. DEV. OF PND.	11.83440
MLF	MAX	=	-246.2304 +	.4290 X RNO	MAX +	.3164 X BOI	MIN +	.0663 X 35/115 THK +	.0897 X 40/110 HGT +
				-.0668 X 45/115 HGT +					
ELY	MAX	R=	.93442	STANDARD ERROR =	4.05762	REDUCTION OF VARIANCE =	.87314	STD. DEV. OF PND.	11.39238
ELY	MAX	=	-342.5765 +	.0950 X 40/120 THK +	.2879 X ELY	MAX +	.0650 X 35/115 HGT +	-.1223 X DAY OF YR +	
				-.0199 X 45/125 HGT +					
SAC	MAX	R=	.89754	STANDARD ERROR =	4.03867	REDUCTION OF VARIANCE =	.80558	STD. DEV. OF PND.	9.15935
SAC	MAX	=	-131.4572 +	.3809 X SAC	MAX +	.0443 X 40/120 HGT +	-.1443 X DAY OF YR +	.0226 X 40/130 HGT +	
				.1822 X SFO	MAX +				

SFU	MAX	R=	.73175	STANDARD ERROR =	4.99057	REDUCTION OF VARIANCE =	.53545	STD. DEV. OF PND.	7.32211		
SFU	MAX	=	-69.3196 +	.5185 X SFU	MAX +	.2730 X RBL	MIN +	-2.032 X BFL	MAX +	.0444 X 40/120 HGT +	
				-.1536 X BNO	MAX +	-.0802 X DAY OF	YR +				
OKC	MAX	R=	.88635	STANDARD ERROR =	4.90197	REDUCTION OF VARIANCE =	.78561	STD. DEV. OF PND.	10.58684		
OKC	MAX	=	-309.8415 +	.0623 X 40/100 THK +		.3123 X OKC	MAX +	.0554 X 35/105 THK +		.1968 X OKC	MIN +
AMA	MAX	R=	.87397	STANDARD ERROR =	5.31346	REDUCTION OF VARIANCE =	.76383	STD. DEV. OF PND.	10.93356		
AMA	MAX	=	-579.3912 +	.1215 X 40/100 THK +		.0897 X 35/105 THK +		-.0775 X 40/100 HGT +		.0845 X 35/105 HGT +	
ABQ	MAX	R=	.92212	STANDARD ERROR =	3.71564	REDUCTION OF VARIANCE =	.85030	STD. DEV. OF PND.	9.60344		
ABQ	MAX	=	-382.4294 +	.1027 X 35/105 THK +		.3038 X INW	MAX +	.0480 X 30/110 HGT +		-.0947 X DAY OF	YR +
INW	MAX	R=	.91460	STANDARD ERROR =	3.96553	REDUCTION OF VARIANCE =	.83649	STD. DEV. OF PND.	9.80677		
INW	MAX	=	-125.7849 +	.4815 X INW	MAX +	.2054 X ELY	MAX +	.0558 X 30/110 HGT +		-.0864 X DAY OF	YR +
LAS	MAX	R=	.94225	STANDARD ERROR =	3.54466	REDUCTION OF VARIANCE =	.88784	STD. DEV. OF PND.	10.58401		
LAS	MAX	=	-227.5303 +	.1081 X 35/115 THK +		.3159 X RNO	MAX +	-.1316 X DAY OF	YR +		
BFL	MAX	R=	.91474	STANDARD ERROR =	3.73027	REDUCTION OF VARIANCE =	.83675	STD. DEV. OF PND.	9.23233		
BFL	MAX	=	-277.7476 +	.4948 X SAC	MAX +	.0647 X 40/120 THK +		.0432 X 35/125 THK +			
FAT	MAX	R=	.93061	STANDARD ERROR =	3.42650	REDUCTION OF VARIANCE =	.86603	STD. DEV. OF PND.	9.36169		
FAT	MAX	=	-196.9176 +	.4519 X SAC	MAX +	.0453 X 40/120 HGT +		-.1318 X DAY OF	YR +	.0467 X 35/125 THK +	
SMX	MAX	R=	.68483	STANDARD ERROR =	5.42725	REDUCTION OF VARIANCE =	.46900	STD. DEV. OF PND.	7.44785		
SMX	MAX	=	-206.7747 +	.2186 X SFU	MAX +	.0422 X 40/120 HGT +		-.2286 X BFL	MAX +	.3801 X SAN	MAX +
				-.2040 X BNO	MAX +	.1671 X PDI	MIN +	.0398 X 35/125 THK +		.1879 X EKA	MAX +
FTW	MAX	R=	.89919	STANDARD ERROR =	4.27286	REDUCTION OF VARIANCE =	.80854	STD. DEV. OF PND.	9.76517		
FTW	MAX	=	-390.7774 +	.0769 X 35/095 THK +		.3334 X FTW	MAX +	.0714 X 35/105 THK +			
MAF	MAX	R=	.88461	STANDARD ERROR =	4.53011	REDUCTION OF VARIANCE =	.78254	STD. DEV. OF PND.	9.71452		
MAF	MAX	=	-119.2182 +	.1453 X 35/105 THK +		.2823 X MAF	MAX +	-.0318 X 40/100 HGT +		.2380 X OKC	MIN +
				-.0574 X 25/095 THK +							
ELP	MAX	R=	.89297	STANDARD ERROR =	3.70588	REDUCTION OF VARIANCE =	.79739	STD. DEV. OF PND.	8.23308		
ELP	MAX	=	-259.4064 +	.1004 X 35/105 THK +		.4705 X ELP	MAX +				
TUS	MAX	R=	.92252	STANDARD ERROR =	3.28910	REDUCTION OF VARIANCE =	.85104	STD. DEV. OF PND.	8.52212		
TUS	MAX	=	-328.8807 +	.4967 X TUS	MAX +	.0869 X 30/110 THK +		.0343 X 35/115 HGT +			
PHX	MAX	R=	.93636	STANDARD ERROR =	3.11985	REDUCTION OF VARIANCE =	.87678	STD. DEV. OF PND.	8.88761		
PHX	MAX	=	-260.1397 +	.4798 X PHX	MAX +	.0479 X 35/115 HGT +		.0580 X 30/110 THK +		-.0708 X DAY OF	YR +
YUM	MAX	R=	.93687	STANDARD ERROR =	3.17470	REDUCTION OF VARIANCE =	.87773	STD. DEV. OF PND.	9.07920		
YUM	MAX	=	-120.4984 +	.5456 X YUM	MAX +	.0629 X 35/115 HGT +		-.1183 X DAY OF	YR +		
SAN	MAX	R=	.77672	STANDARD ERROR =	3.89872	REDUCTION OF VARIANCE =	.60329	STD. DEV. OF PND.	6.18990		
SAN	MAX	=	-60.8313 +	.6568 X SAN	MAX +	.0278 X 40/120 HGT +					
LAX	MAX	R=	.79839	STANDARD ERROR =	4.16673	REDUCTION OF VARIANCE =	.63742	STD. DEV. OF PND.	6.91979		
LAX	MAX	=	-87.4673 +	.3177 X LAX	MAX +	.0326 X 40/120 HGT +		.4182 X SAN	MAX +	-.1745 X RNO	MAX +
				.3137 X LAX	MIN +						
SAT	MAX	R=	.88786	STANDARD ERROR =	3.57849	REDUCTION OF VARIANCE =	.78829	STD. DEV. OF PND.	7.77728		
SAT	MAX	=	-304.4670 +	.0760 X 30/100 THK +		.4220 X SAT	MAX +	.0408 X 35/105 THK +			
DRT	MAX	R=	.89779	STANDARD ERROR =	3.66478	REDUCTION OF VARIANCE =	.80604	STD. DEV. OF PND.	8.32121		
DRT	MAX	=	-304.2316 +	.4702 X DRT	MAX +	.0532 X 35/105 THK +		.0624 X 30/100 THK +			

Southwest Min

September-October

HGT: (700MB HEIGHT) IN METERS THK: (700M HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MIN	R=	.89310	STANDARD ERROR =	4.66322	REDUCTION OF VARIANCE =	.79762	STD. DEV. OF PND.	10.36580
DSM	MIN	=	-67.2258 +	.4302 X OMA	MIN +	.0654 X 45/095 THK +	-.1009 X DAY OF YR +	-.0227 X 45/115 HGT +	
OMA	MIN	R=	.90361	STANDARD ERROR =	4.41478	REDUCTION OF VARIANCE =	.81651	STD. DEV. OF PND.	10.30631
OMA	MIN	=	-190.0598 +	.0235 X 45/095 THK +	.1643 X LRF	MIN +	.1926 X BMO	MIN +	.0469 X 45/105 THK +
				-.0279 X 45/115 HGT +	.2752 X OMA	MIN +	.0268 X 40/090 HGT +		
LBF	MIN	R=	.87875	STANDARD ERROR =	5.19035	REDUCTION OF VARIANCE =	.77221	STD. DEV. OF PND.	10.87500
LBF	MIN	=	-40.0555 +	.3667 X LBF	MIN +	.0586 X 45/105 THK +	-.1689 X DAY OF YR +	-.0780 X 40/110 HGT +	
				.0586 X 40/100 HGT +					
DEI	MIN	R=	.89791	STANDARD ERROR =	3.73271	REDUCTION OF VARIANCE =	.80624	STD. DEV. OF PND.	8.47999
DEI	MIN	=	-127.4673 +	.0505 X 45/105 THK +	-.1401 X DAY OF YR +	.2651 X DEN	MIN +	.0354 X 40/100 HGT +	
				-.0198 X 45/115 HGT +					
SLC	MIN	R=	.88026	STANDARD ERROR =	4.40234	REDUCTION OF VARIANCE =	.77487	STD. DEV. OF PND.	9.27819
SLC	MIN	=	-12.0935 +	.3729 X SLC	MIN +	.1773 X BDI	MAX +	-.0262 X 45/125 HGT +	-.1001 X DAY OF YR +
				.0456 X 45/115 THK +					
WMC	MIN	R=	.77438	STANDARD ERROR =	5.81431	REDUCTION OF VARIANCE =	.59966	STD. DEV. OF PND.	9.18931
WMC	MIN	=	-15.0103 +	.3578 X WMC	MIN +	.2484 X BDI	MAX +	.2294 X MFR	MIN +
								.1349 X DRT	MIN +
RNO	MIN	R=	.80971	STANDARD ERROR =	4.56297	REDUCTION OF VARIANCE =	.65562	STD. DEV. OF PND.	7.77556
RNO	MIN	=	-9.6083 +	.4266 X RNO	MIN +	.1972 X WMC	MAX +	.1859 X MFR	MIN +
								.1003 X SAT	MIN +
RBL	MIN	R=	.84719	STANDARD ERROR =	3.60323	REDUCTION OF VARIANCE =	.71773	STD. DEV. OF PND.	6.78200
RBL	MIN	=	-1.2943 +	.4110 X RBL	MIN +	.2298 X SAC	MAX +	.1956 X MFR	MIN +
								.0976 X DRT	MIN +
EKA	MIN	R=	.77002	STANDARD ERROR =	2.47811	REDUCTION OF VARIANCE =	.59293	STD. DEV. OF PND.	3.88406
EKA	MIN	=	-40.7441 +	.2840 X EKA	MIN +	.0277 X 45/125 THK +	-.0208 X 45/125 HGT +	.1423 X EKA	MAX +
				.0145 X 40/120 HGT +	.1066 X MFR	MIN +			
MKC	MIN	R=	.89303	STANDARD ERROR =	4.61706	REDUCTION OF VARIANCE =	.79892	STD. DEV. OF PND.	10.29638
MKC	MIN	=	-180.8243 +	.3439 X TOP	MIN +	.0642 X 40/100 THK +	.0406 X 40/090 HGT +	-.0350 X 40/100 HGT +	
				.2049 X HAP	MIN +				
TOP	MIN	R=	.88981	STANDARD ERROR =	5.12007	REDUCTION OF VARIANCE =	.79176	STD. DEV. OF PND.	11.21995
TOP	MIN	=	-216.3027 +	.3858 X TOP	MIN +	.0710 X 40/100 THK +	-.0335 X 40/110 HGT +	.0414 X 30/090 HGT +	
				.2021 X LBF	MIN +				
ICT	MIN	R=	.90711	STANDARD ERROR =	4.27410	REDUCTION OF VARIANCE =	.82285	STD. DEV. OF PND.	10.15496
ICT	MIN	=	-149.4612 +	.4610 X ICT	MIN +	.0585 X 40/100 THK +	-.0417 X 45/115 HGT +	.0384 X 35/095 HGT +	
				.1631 X PDT	MAX +				
DDC	MIN	R=	.90358	STANDARD ERROR =	4.22351	REDUCTION OF VARIANCE =	.81645	STD. DEV. OF PND.	9.85824
DDC	MIN	=	-172.5096 +	.0351 X 40/100 THK +	.3179 X DDC	MIN +	.0402 X 45/105 THK +	-.1179 X DAY OF YR +	
				-.0290 X 45/115 HGT +	.0333 X 35/095 HGT +				
PUB	MIN	R=	.88623	STANDARD ERROR =	4.24992	REDUCTION OF VARIANCE =	.78540	STD. DEV. OF PND.	9.17412
PUB	MIN	=	45.4337 +	.2272 X DEN	MIN +	-.1376 X DAY OF YR +	.3440 X PUB	MIN +	.1514 X DEN
									MAX +
GJT	MIN	R=	.91580	STANDARD ERROR =	3.41588	REDUCTION OF VARIANCE =	.83869	STD. DEV. OF PND.	8.50492
GJT	MIN	=	-127.8680 +	.3490 X GJT	MIN +	.0575 X 40/110 THK +	.2048 X ELY	MIN +	-.0770 X DAY OF YR +
MLF	MIN	R=	.86893	STANDARD ERROR =	4.52468	REDUCTION OF VARIANCE =	.75503	STD. DEV. OF PND.	9.14188
MLF	MIN	=	58.4560 +	.5362 X ELY	MIN +	-.1073 X DAY OF YR +	.1924 X WMC	MAX +	-.0384 X 45/115 HGT +
				.0308 X 40/100 HGT +					
ELY	MIN	R=	.85887	STANDARD ERROR =	4.41076	REDUCTION OF VARIANCE =	.73765	STD. DEV. OF PND.	8.61144
ELY	MIN	=	118.5076 +	.4669 X ELY	MIN +	.4299 X WMC	MAX +	-.0269 X 45/125 HGT +	-.1108 X DAY OF YR +
				-.2232 X LAS	MAX +				
SAC	MIN	R=	.83721	STANDARD ERROR =	2.98295	REDUCTION OF VARIANCE =	.70092	STD. DEV. OF PND.	5.45444
SAC	MIN	=	2.7912 +	.4174 X SAC	MIN +	.1272 X SAC	MAX +	.1942 X MFR	MIN +
								.1224 X SFO	MAX +

SFO	MIN	R=	.72417	STANDARD ERROR =	2.82336	REDUCTION OF VARIANCE =	.52442	STD. DEV. OF PND.	4.09407		
SFO	MIN	=	-36.8702 +	.5592 X SFO	MIN +	.0124 X 40/120 THK +	-.0148 X 40/130 HGT +	.0217 X 40/130 THK +			
				.0513 X SAT	MIN +						
OKC	MIN	R=	.89463	STANDARD ERROR =	4.21110	REDUCTION OF VARIANCE =	.80037	STD. DEV. OF PND.	9.42502		
OKC	MIN	=	-165.0703 +	.0674 X OKC	MIN +	.0615 X 40/100 THK +	.3193 X ICT	MIN +	.2563 X FTW	MIN +	
AMA	MIN	R=	.88116	STANDARD ERROR =	4.22390	REDUCTION OF VARIANCE =	.77644	STD. DEV. OF PND.	8.93350		
AMA	MIN	=	-121.3459 +	.3999 X AMA	MIN +	.0611 X 40/100 THK +	-.1136 X DAY OF YR +				
ABW	MIN	R=	.90221	STANDARD ERROR =	3.54184	REDUCTION OF VARIANCE =	.81399	STD. DEV. OF PND.	8.21219		
ABQ	MIN	=	-53.1797 +	.3601 X ABQ	MIN +	.1781 X GJT	MAX +	-.1149 X DAY OF YR +	.0341 X 35/105 THK +		
INW	MIN	R=	.89464	STANDARD ERROR =	3.90165	REDUCTION OF VARIANCE =	.80038	STD. DEV. OF PND.	8.73258		
INW	MIN	=	37.5837 +	.5252 X INW	MIN +	.4916 X SLC	MAX +	-.1071 X DAY OF YR +			
LAS	MIN	R=	.91593	STANDARD ERROR =	3.58050	REDUCTION OF VARIANCE =	.83893	STD. DEV. OF PND.	8.92139		
LAS	MIN	=	-1.4124 +	.3865 X LAS	MIN +	.2188 X LAS	MAX +	.2150 X ELY	MIN +	.1430 X WMC	MAX +
BFL	MIN	R=	.93325	STANDARD ERROR =	2.52452	REDUCTION OF VARIANCE =	.87096	STD. DEV. OF PND.	7.02769		
BFL	MIN	=	-77.0530 +	.5110 X FAT	MIN +	.2893 X SAC	MAX +	.0278 X 40/120 THK +			
FAT	MIN	R=	.90676	STANDARD ERROR =	2.83987	REDUCTION OF VARIANCE =	.82221	STD. DEV. OF PND.	6.73515		
FAT	MIN	=	-126.9472 +	.4143 X FAT	MIN +	.0467 X 40/120 THK +	.3330 X SAC	MIN +			
SMX	MIN	R=	.71258	STANDARD ERROR =	3.52833	REDUCTION OF VARIANCE =	.50778	STD. DEV. OF PND.	5.02907		
SMX	MIN	=	-52.0266 +	.2586 X SAC	MIN +	.2633 X LAX	MIN +	.2512 X EKA	MIN +	.0198 X 40/120 THK +	
FTW	MIN	R=	.91292	STANDARD ERROR =	3.79779	REDUCTION OF VARIANCE =	.83342	STD. DEV. OF PND.	9.30519		
FTW	MIN	=	-101.3235 +	.5431 X FTW	MIN +	.0349 X 40/100 THK +	-.0285 X 40/110 HGT +	.2145 X AMA	MIN +	.0326 X 30/090 HGT +	
MAF	MIN	R=	.89015	STANDARD ERROR =	3.77116	REDUCTION OF VARIANCE =	.79236	STD. DEV. OF PND.	8.27594		
MAF	MIN	=	-64.8095 +	.4160 X MAF	MIN +	.0535 X 35/105 THK +	.2800 X AMA	MIN +	-.0252 X 35/115 HGT +		
ELP	MIN	R=	.89607	STANDARD ERROR =	3.69243	REDUCTION OF VARIANCE =	.80294	STD. DEV. OF PND.	8.31797		
ELP	MIN	=	-4.3265 +	.5152 X ELP	MIN +	.2446 X ELP	MAX +	.2385 X INW	MIN +		
TUS	MIN	R=	.91119	STANDARD ERROR =	3.25559	REDUCTION OF VARIANCE =	.83027	STD. DEV. OF PND.	7.90221		
TUS	MIN	=	-45.5735 +	.3798 X TUS	MIN +	.2883 X PHX	MAX +	-.0957 X DAY OF YR +	.0265 X 35/105 HGT		
PHX	MIN	R=	.91049	STANDARD ERROR =	3.58643	REDUCTION OF VARIANCE =	.82900	STD. DEV. OF PND.	8.67281		
PHX	MIN	=	2.8148 +	.7146 X PHX	MIN +	.2126 X ELY	MAX +				
YUM	MIN	R=	.92543	STANDARD ERROR =	3.18955	REDUCTION OF VARIANCE =	.85642	STD. DEV. OF PND.	8.41754		
YUM	MIN	=	-64.1354 +	.6319 X YUM	MIN +	.0380 X 35/115 HGT +	-.1112 X DAY OF YR +				
SAN	MIN	R=	.87578	STANDARD ERROR =	2.05123	REDUCTION OF VARIANCE =	.76700	STD. DEV. OF PND.	4.24946		
SAN	MIN	=	8.6458 +	.5359 X SAN	MIN +	.1274 X FAT	MIN +	.1011 X LAX	MAX +	.0663 X RNO	MAX +
LAX	MIN	R=	.84801	STANDARD ERROR =	2.36052	REDUCTION OF VARIANCE =	.71911	STD. DEV. OF PND.	4.45391		
LAX	MIN	=	6.8644 +	.6234 X LAX	MIN +	.1180 X LAX	MAX +	.0862 X RNO	MAX +		
SAT	MIN	R=	.90563	STANDARD ERROR =	3.72597	REDUCTION OF VARIANCE =	.82016	STD. DEV. OF PND.	8.78606		
SAT	MIN	=	-81.8502 +	.6454 X SAT	MIN +	.0587 X 35/095 THK +	-.0231 X 40/110 HGT +				
DRT	MIN	R=	.90481	STANDARD ERROR =	3.51830	REDUCTION OF VARIANCE =	.81868	STD. DEV. OF PND.	8.26244		
DRT	MIN	=	-53.9630 +	.7347 X DRT	MIN +	.0540 X 35/105 THK +	-.0297 X 35/115 HGT +				

Southeast Max

September-October

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

SBY	MAX	R=	.92085	STANDARD ERROR =	3.64951	REDUCTION OF VARIANCE =	.84796	STD. DEV. OF PND.	9.35944
SBY	MAX	=	-161.4120 +	.4805 X NYC	MIN +	.0517 X 40/080 THK +	-.0256 X 45/075 HGT +	.0383 X 35/075 HGT +	
				.1826 X DET	MAX +				
DCA	MAX	R=	.91391	STANDARD ERROR =	3.99927	REDUCTION OF VARIANCE =	.83523	STD. DEV. OF PND.	9.85225
DCA	MAX	=	-229.7510 +	.6089 X NYC	MIN +	.0785 X 40/080 THK +	-.0257 X 45/075 HGT +	.0368 X 35/085 HGT +	
CRW	MAX	R=	.91496	STANDARD ERROR =	4.40478	REDUCTION OF VARIANCE =	.83716	STD. DEV. OF PND.	10.91547
CRW	MAX	=	-210.3005 +	.4846 X LOU	MAX +	.0716 X 40/090 THK +	.0547 X 40/080 HGT +	-.0433 X 40/090 HGT +	
HTS	MAX	R=	.90230	STANDARD ERROR =	4.76115	REDUCTION OF VARIANCE =	.81414	STD. DEV. OF PND.	11.04370
HTS	MAX	=	-250.9323 +	.0845 X 40/090 THK +		.4294 X LOU	MAX +	.0446 X 40/080 HGT +	-.0306 X 40/090 HGT +
LOU	MAX	R=	.91340	STANDARD ERROR =	4.39824	REDUCTION OF VARIANCE =	.83431	STD. DEV. OF PND.	10.80500
LOU	MAX	=	-296.7882 +	.1160 X 40/090 THK +		.3800 X LOU	MAX +		
ORF	MAX	R=	.91772	STANDARD ERROR =	3.57881	REDUCTION OF VARIANCE =	.84221	STD. DEV. OF PND.	9.00947
ORF	MAX	=	-211.8838 +	.0778 X 40/080 THK +		.2448 X ORF	MAX +	-.0491 X 40/080 HGT +	.0556 X 35/075 HGT +
				.2901 X NYC	MIN +				
RIC	MAX	R=	.90780	STANDARD ERROR =	4.14490	REDUCTION OF VARIANCE =	.82410	STD. DEV. OF PND.	9.88288
RIC	MAX	=	-291.4750 +	.0975 X 40/080 THK +		.2292 X RIC	MAX +	-.0588 X 40/080 HGT +	.0726 X 35/085 HGT +
				.2822 X NYC	MIN +				
ROA	MAX	R=	.90182	STANDARD ERROR =	4.48350	REDUCTION OF VARIANCE =	.81328	STD. DEV. OF PND.	10.37591
ROA	MAX	=	-316.0374 +	.0921 X 40/080 THK +		.2352 X ROA	MAX +	.0614 X 35/085 HGT +	-.0342 X 45/075 HGT +
				.3874 X NYC	MIN +	-.1692 X AGS	MIN +		
HAT	MAX	R=	.91572	STANDARD ERROR =	2.83507	REDUCTION OF VARIANCE =	.83855	STD. DEV. OF PND.	7.05573
HAT	MAX	=	-98.8204 +	.1517 X RDU	MIN +	.2052 X DCA	MAX +	.0478 X 35/075 THK +	.1557 X CRW
									MIN +
RDU	MAX	R=	.89981	STANDARD ERROR =	4.13273	REDUCTION OF VARIANCE =	.80966	STD. DEV. OF PND.	9.47256
RDU	MAX	=	-322.3596 +	.1173 X 40/080 THK +		.3463 X GSO	MAX +	-.0725 X 40/080 HGT +	.0801 X 35/085 HGT +
GSO	MAX	R=	.90370	STANDARD ERROR =	4.10286	REDUCTION OF VARIANCE =	.81667	STD. DEV. OF PND.	9.58226
GSO	MAX	=	-305.2418 +	.0956 X 40/080 THK +		.2676 X GSO	MAX +	.0968 X 35/085 HGT +	-.0766 X 40/080 HGT +
				.2064 X NYC	MIN +				
TYS	MAX	R=	.90547	STANDARD ERROR =	4.09044	REDUCTION OF VARIANCE =	.81988	STD. DEV. OF PND.	9.63792
TYS	MAX	=	-324.3548 +	.0769 X 35/085 THK +		.3532 X TYS	MAX +	.0488 X 40/090 THK +	
BNA	MAX	R=	.90482	STANDARD ERROR =	4.36065	REDUCTION OF VARIANCE =	.81869	STD. DEV. OF PND.	10.24109
BNA	MAX	=	-207.9356 +	.0928 X 40/090 THK +		.4092 X MEM	MAX +	-.0773 X DAY OF YR +	
MEM	MAX	R=	.90758	STANDARD ERROR =	4.00735	REDUCTION OF VARIANCE =	.82370	STD. DEV. OF PND.	9.54406
MEM	MAX	=	-327.7860 +	.0822 X 35/095 THK +		.3131 X MEM	MAX +	.0458 X 40/090 THK +	
LIT	MAX	R=	.89673	STANDARD ERROR =	4.24854	REDUCTION OF VARIANCE =	.80412	STD. DEV. OF PND.	9.59946
LIT	MAX	=	-135.5155 +	.1031 X 35/095 THK +		.3402 X LIT	MAX +	.2005 X MKC	MIN +
									-.0132 X 25/095 THK +
FSM	MAX	R=	.88995	STANDARD ERROR =	4.51082	REDUCTION OF VARIANCE =	.79202	STD. DEV. OF PND.	9.89107
FSM	MAX	=	-338.0378 +	.0817 X 35/095 THK +		.3522 X FSM	MAX +	.0488 X 40/100 THK +	
CHS	MAX	R=	.89170	STANDARD ERROR =	3.40187	REDUCTION OF VARIANCE =	.79514	STD. DEV. OF PND.	7.51597
CHS	MAX	=	-229.9672 +	.0499 X 35/085 THK +		.2454 X CHS	MAX +	.0858 X BOS	MIN +
				.0402 X 30/080 HGT +		.0362 X 40/080 THK +		.1248 X ROA	MAX +
CLT	MAX	R=	.89659	STANDARD ERROR =	4.21707	REDUCTION OF VARIANCE =	.80388	STD. DEV. OF PND.	9.52249
CLT	MAX	=	-300.1958 +	.0509 X 35/085 THK +		.2906 X CLT	MAX +	.2221 X NYC	MIN +
				-.0242 X 45/075 HGT +		.0391 X 30/090 HGT +		.0479 X 40/080 THK +	.3056 X CLT
									MIN +

AGS	MAX	R=	.88076	STANDARD ERROR =	4.02449	REDUCTION OF VARIANCE =	.77574	STD. DEV. OF PND,	8.49836
AGS	MAX	=	-226.4121 +	.0346 X 35/085 THK +	.3684 X AGS MAX +	.1485 X NYC MIN +	-.0609 X 40/080 HGT +		
				.0655 X 35/085 HGT +	.0506 X 40/080 THK +				
AHN	MAX	R=	.90373	STANDARD ERROR =	3.48517	REDUCTION OF VARIANCE =	.81673	STD. DEV. OF PND,	8.14112
AHN	MAX	=	-152.1729 +	.4444 X ATL MAX +	.0749 X 35/085 THK +	.1635 X BOS MIN +	-.3301 X AGS MIN +		
				.3043 X CLT MIN +	-.0115 X 45/075 HGT +				
ATL	MAX	R=	.90255	STANDARD ERROR =	3.74237	REDUCTION OF VARIANCE =	.81459	STD. DEV. OF PND,	8.69122
ATL	MAX	=	-254.3182 +	.0692 X 35/085 THK +	.2811 X ATL MAX +	.1531 X LIT MAX +	.0394 X 30/090 HGT +		
				.1879 X NYC MIN +	-.0146 X 45/075 HGT +				
BHM	MAX	R=	.89583	STANDARD ERROR =	4.01630	REDUCTION OF VARIANCE =	.80250	STD. DEV. OF PND,	9.03745
BHM	MAX	=	-350.8461 +	.3984 X BHM MAX +	.0497 X 35/095 THK +	.0513 X 35/085 THK +	.0305 X 30/090 HGT +		
JAN	MAX	R=	.89227	STANDARD ERROR =	3.94234	REDUCTION OF VARIANCE =	.79615	STD. DEV. OF PND,	8.73167
JAN	MAX	=	-331.2115 +	.0910 X 35/095 THK +	.3833 X JAN MAX +	.0345 X 30/090 HGT +			
SHV	MAX	R=	.89798	STANDARD ERROR =	3.87928	REDUCTION OF VARIANCE =	.80636	STD. DEV. OF PND,	8.81564
SHV	MAX	=	-285.9031 +	.1132 X 35/095 THK +	.3533 X SHV MAX +				
JAX	MAX	R=	.89207	STANDARD ERROR =	3.03048	REDUCTION OF VARIANCE =	.79579	STD. DEV. OF PND,	6.70619
JAX	MAX	=	-216.0511 +	.3069 X JAX MAX +	.0793 X 35/085 THK +	-.0507 X 35/085 HGT +	.0590 X 30/080 HGT +		
				.1288 X ATL MAX +					
TLH	MAX	R=	.86881	STANDARD ERROR =	3.41864	REDUCTION OF VARIANCE =	.75483	STD. DEV. OF PND,	6.90434
TLH	MAX	=	-266.7345 +	.0840 X 35/085 THK +	.4015 X TLH MAX +	.0502 X 30/090 HGT +	-.0295 X 35/085 HGT +		
MGM	MAX	R=	.88714	STANDARD ERROR =	3.97692	REDUCTION OF VARIANCE =	.78701	STD. DEV. OF PND,	8.61723
MGM	MAX	=	-317.7329 +	.4270 X MGM MAX +	.0945 X 35/085 THK +	.0490 X 30/090 HGT +	-.0230 X 35/075 HGT +		
MOR	MAX	R=	.87178	STANDARD ERROR =	3.51758	REDUCTION OF VARIANCE =	.75999	STD. DEV. OF PND,	7.18011
MOR	MAX	=	-253.8173 +	.3468 X MOR MAX +	.0656 X 35/085 THK +	.0594 X 30/090 HGT +	.1286 X FTW MAX +		
				-.0276 X 35/085 HGT +					
MSY	MAX	R=	.87830	STANDARD ERROR =	3.24217	REDUCTION OF VARIANCE =	.77141	STD. DEV. OF PND,	6.78115
MSY	MAX	=	-197.0274 +	.4214 X MSY MAX +	.0463 X 30/100 THK +	.0768 X 30/090 THK +	-.0419 X 25/085 THK +		
LCH	MAX	R=	.87257	STANDARD ERROR =	3.42226	REDUCTION OF VARIANCE =	.76137	STD. DEV. OF PND,	7.00576
LCH	MAX	=	-223.3721 +	.0488 X 35/095 THK +	.4269 X LCH MAX +	.0412 X 30/100 THK +			
HOU	MAX	R=	.87512	STANDARD ERROR =	3.40214	REDUCTION OF VARIANCE =	.76584	STD. DEV. OF PND,	7.03061
HOU	MAX	=	-191.8957 +	.0773 X 30/100 THK +	.3674 X HOU MAX +	.1384 X OKC MAX +			
CRP	MAX	R=	.84826	STANDARD ERROR =	3.36051	REDUCTION OF VARIANCE =	.71955	STD. DEV. OF PND,	6.34569
CRP	MAX	=	-204.5648 +	.0834 X 30/100 THK +	.4407 X CRP MAX +				
BRO	MAX	R=	.85555	STANDARD ERROR =	2.90685	REDUCTION OF VARIANCE =	.73197	STD. DEV. OF PND,	5.61477
BRO	MAX	=	-123.4445 +	.0778 X 30/100 THK +	.4519 X BRO MAX +	-.0206 X 30/100 HGT +			
ORL	MAX	R=	.83766	STANDARD ERROR =	3.06743	REDUCTION OF VARIANCE =	.70167	STD. DEV. OF PND,	5.61601
ORL	MAX	=	-104.6324 +	.3660 X ORL MAX +	.1508 X MOB MIN +	.0439 X 30/080 THK +	.2240 X EYW MIN +		
TPA	MAX	R=	.84138	STANDARD ERROR =	2.87344	REDUCTION OF VARIANCE =	.70792	STD. DEV. OF PND,	5.31678
TPA	MAX	=	-163.1678 +	.4371 X TPA MAX +	.0393 X 30/090 THK +	.0240 X 30/080 HGT +	.2219 X EYW MIN +		
MIA	MAX	R=	.79981	STANDARD ERROR =	2.12703	REDUCTION OF VARIANCE =	.63970	STD. DEV. OF PND,	3.54354
MIA	MAX	=	-81.5595 +	.3732 X MIA MAX +	.0387 X 30/080 THK +	.2458 X EYW MIN +			
EYW	MAX	R=	.85899	STANDARD ERROR =	1.87882	REDUCTION OF VARIANCE =	.73786	STD. DEV. OF PND,	3.66962
EYW	MAX	=	-73.5971 +	.4443 X EYW MAX +	.3129 X EYW MIN +	.0324 X 30/080 THK +			

Southeast Min

September-October

HGT: (700MB HEIGHT) IN METERS		THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS.		MAX, MIN TEMPERATURES IN DEGREES FAHRENHEIT.	
SBY	MIN R= .88408 STANDARD ERROR = .70004 REDUCTION OF VARIANCE = .78160 STD. DEV. OF PND, 10.48507				
SBY	MIN = -100.7836 + .3314 X RIC MIN + .0219 X 40/060 HGT +		.3055 X CMH MIN +	.0536 X 40/080 THK +	-.0339 X 35/095 HGT +
DCA	MIN R= .92148 STANDARD ERROR = 3.68196 REDUCTION OF VARIANCE = .84913 STD. DEV. OF PND, 9.47941				
DCA	MIN = -119.9094 + .4746 X DCA MIN +		.0463 X 40/080 THK +	.2364 X IND MIN +	
CRW	MIN R= .90529 STANDARD ERROR = 4.44610 REDUCTION OF VARIANCE = .81955 STD. DEV. OF PND, 10.46635				
CRW	MIN = -182.0270 + .2188 X LOU MIN + .2262 X STL MIN +		.0701 X 40/090 THK +	.3201 X CRW MIN +	-.2008 X ROA MAX +
HTS	MIN R= .90062 STANDARD ERROR = 4.49597 REDUCTION OF VARIANCE = .81111 STD. DEV. OF PND, 10.34471				
HTS	MIN = -115.1384 + .4484 X HTS MIN +		.3003 X PIA MIN +	.0433 X 40/080 THK +	
LOU	MIN R= .90762 STANDARD ERROR = 4.43909 REDUCTION OF VARIANCE = .82378 STD. DEV. OF PND, 10.57232				
LOU	MIN = -148.7356 + .3344 X PIA MIN + .0366 X 30/080 HGT +		.3343 X LOU MIN +	.0587 X 40/090 THK +	-.0392 X 35/095 HGT +
ORF	MIN R= .90982 STANDARD ERROR = 3.67507 REDUCTION OF VARIANCE = .82778 STD. DEV. OF PND, 8.85560				
ORF	MIN = -72.1161 + .5217 X ORF MIN +		.2617 X LOU MIN +	.0277 X 40/070 HGT +	
RIC	MIN R= .91642 STANDARD ERROR = 4.12968 REDUCTION OF VARIANCE = .83983 STD. DEV. OF PND, 10.31858				
RIC	MIN = -189.9481 + .4706 X RIC MIN +		.2435 X IND MIN +	.0427 X 40/080 THK +	.0252 X 35/065 HGT +
ROA	MIN R= .89777 STANDARD ERROR = 4.26647 REDUCTION OF VARIANCE = .80599 STD. DEV. OF PND, 9.68635				
ROA	MIN = -123.6024 + .2735 X IND MIN +		.4295 X ROA MIN +	.0470 X 40/080 THK +	
HAT	MIN R= .86296 STANDARD ERROR = 4.16422 REDUCTION OF VARIANCE = .74469 STD. DEV. OF PND, 8.24142				
HAT	MIN = -50.5241 + .5675 X HAT MIN +		.1897 X LOU MIN +	.0219 X 40/070 HGT +	
RDU	MIN R= .91142 STANDARD ERROR = 4.22875 REDUCTION OF VARIANCE = .83069 STD. DEV. OF PND, 10.27703				
RDU	MIN = -145.6698 + .4421 X RDU MIN +		.0545 X 40/090 THK +	.2371 X BNA MIN +	
GSO	MIN R= .91494 STANDARD ERROR = 4.11273 REDUCTION OF VARIANCE = .83711 STD. DEV. OF PND, 10.19019				
GSO	MIN = -134.7958 + .4469 X GSO MIN +		.0503 X 40/080 THK +	.2681 X BNA MIN +	
TYS	MIN R= .91601 STANDARD ERROR = 3.95113 REDUCTION OF VARIANCE = .83988 STD. DEV. OF PND, 9.84960				
TYS	MIN = -165.7264 + .3694 X BNA MIN +		.0614 X 35/085 THK +	.2888 X TYS MIN +	
BNA	MIN R= .91145 STANDARD ERROR = 4.32842 REDUCTION OF VARIANCE = .83092 STD. DEV. OF PND, 10.52652				
BNA	MIN = -227.6504 + .3004 X BNA MIN +		.0571 X 40/090 THK +	.3107 X MEM MIN +	.0248 X 35/075 HGT +
MEM	MIN R= .91434 STANDARD ERROR = 4.22912 REDUCTION OF VARIANCE = .83602 STD. DEV. OF PND, 10.44378				
MEM	MIN = -15.4425 + .5353 X MEM MIN +		.0623 X 40/090 THK +	-.0368 X 35/105 HGT +	-.1008 X DAY OF YR +
LIT	MIN R= .91922 STANDARD ERROR = 3.84297 REDUCTION OF VARIANCE = .84497 STD. DEV. OF PND, 9.76006				
LIT	MIN = -104.9773 + .5725 X LIT MIN +		.0397 X 40/090 THK +	.2846 X ICT MIN +	
FSM	MIN R= .92018 STANDARD ERROR = 4.04695 REDUCTION OF VARIANCE = .84672 STD. DEV. OF PND, 10.33689				
FSM	MIN = -31.2352 + .5529 X FSM MIN +		.2544 X DDC MIN +	-.0286 X 40/110 HGT +	.0439 X 35/095 THK +
CHS	MIN R= .92315 STANDARD ERROR = 3.55195 REDUCTION OF VARIANCE = .85220 STD. DEV. OF PND, 9.23902				
CHS	MIN = -243.3081 + .5136 X CHS MIN +		.0820 X 35/085 THK +	.0562 X 35/075 HGT +	-.0477 X 35/085 HGT +
CLT	MIN R= .91769 STANDARD ERROR = 3.84715 REDUCTION OF VARIANCE = .84215 STD. DEV. OF PND, 9.68327				
CLT	MIN = -124.4231 + .4694 X CLT MIN +		.0476 X 40/080 THK +	.2372 X BNA MIN +	

AGS	MIN	R= .92702	STANDARD ERROR =	3.88258	REDUCTION OF VARIANCE =	.85937	STD. DEV. OF PND,	10.35332	
AGS	MIN	= -165.9251 +	.6075 X AGS	MIN +	.0688 X 35/085 THK +	.0399 X 35/075 HGT +	-.0455 X 30/090 HGT +		
AHN	MIN	R= .92496	STANDARD ERROR =	3.64499	REDUCTION OF VARIANCE =	.85554	STD. DEV. OF PND,	9.59026	
AHN	MIN	= -136.6796 +	.1916 X ATL	MIN +	.0508 X 35/085 THK +	.3061 X BHM	MIN +	.2280 X GSO	MIN +
ATL	MIN	R= .92052	STANDARD ERROR =	3.49182	REDUCTION OF VARIANCE =	.84737	STD. DEV. OF PND,	8.93770	
ATL	MIN	= -231.1099 +	.5179 X ATL	MIN +	.0863 X 35/085 THK +				
BHM	MIN	R= .91840	STANDARD ERROR =	4.09943	REDUCTION OF VARIANCE =	.84347	STD. DEV. OF PND,	10.36146	
BHM	MIN	= -31.9668 +	.4415 X BHM	MIN +	.0559 X 35/085 THK +	.0317 X 40/080 HGT +	-.0551 X 30/100 HGT +		
			-.1042 X DAY OF	YR +					
JAN	MIN	R= .91687	STANDARD ERROR =	4.11494	REDUCTION OF VARIANCE =	.84065	STD. DEV. OF PND,	10.30845	
JAN	MIN	= -154.4432 +	.4872 X JAN	MIN +	.0227 X 35/085 THK +	.2090 X FSM	MIN +	.0447 X 30/080 HGT +	
			-.0521 X 30/100	HGT +	.0441 X 35/095	THK +			
SHV	MIN	R= .92093	STANDARD ERROR =	3.67820	REDUCTION OF VARIANCE =	.84811	STD. DEV. OF PND,	9.43777	
SHV	MIN	= -139.4742 +	.5492 X SHV	MIN +	.0718 X 35/095 THK +	-.0442 X 30/100 HGT +	.0285 X 35/085 HGT +		
JAX	MIN	R= .91337	STANDARD ERROR =	3.21517	REDUCTION OF VARIANCE =	.83424	STD. DEV. OF PND,	7.89702	
JAX	MIN	= -100.0573 +	.6035 X JAX	MIN +	.0425 X 35/085 THK +	.0414 X 30/080 HGT +	-.0418 X 25/095 HGT +		
TLH	MIN	R= .92274	STANDARD ERROR =	3.50412	REDUCTION OF VARIANCE =	.85145	STD. DEV. OF PND,	9.09149	
TLH	MIN	= -269.0443 +	.5990 X TLH	MIN +	.0362 X 35/075 HGT +	.0596 X 30/090 THK +			
MGM	MIN	R= .92728	STANDARD ERROR =	3.67546	REDUCTION OF VARIANCE =	.85985	STD. DEV. OF PND,	9.81769	
MGM	MIN	= -232.7289 +	.6068 X MGM	MIN +	.0595 X 35/085 THK +	.0246 X 35/075 HGT +			
MOR	MIN	R= .93109	STANDARD ERROR =	3.20277	REDUCTION OF VARIANCE =	.86693	STD. DEV. OF PND,	8.77975	
MOR	MIN	= -177.4312 +	.5496 X MOR	MIN +	.0421 X 30/090 THK +	.0388 X 35/085 HGT +	-.0504 X 30/100 HGT +		
			.0379 X 30/100	THK +					
MSY	MIN	R= .91113	STANDARD ERROR =	3.37003	REDUCTION OF VARIANCE =	.83016	STD. DEV. OF PND,	8.17741	
MSY	MIN	= -231.8913 +	.5881 X MSY	MIN +	.0669 X 30/090 THK +	.0181 X 40/080 HGT +			
LCH	MIN	R= .93075	STANDARD ERROR =	3.17397	REDUCTION OF VARIANCE =	.86629	STD. DEV. OF PND,	8.67995	
LCH	MIN	= -85.4182 +	.6398 X LCH	MIN +	.0526 X 35/095 THK +	-.0422 X 30/100 HGT +	.0265 X 35/085 HGT +		
HOU	MIN	R= .92280	STANDARD ERROR =	3.13813	REDUCTION OF VARIANCE =	.85156	STD. DEV. OF PND,	8.14503	
HOU	MIN	= -75.7892 +	.6416 X HOU	MIN +	.0627 X 35/095 THK +	-.0285 X 30/110 HGT +			
CRP	MIN	R= .90550	STANDARD ERROR =	3.20813	REDUCTION OF VARIANCE =	.81994	STD. DEV. OF PND,	7.56836	
CRP	MIN	= -65.4096 +	.6508 X CRP	MIN +	.0505 X 35/095 THK +	-.0202 X 40/110 HGT +			
BRO	MIN	R= .90336	STANDARD ERROR =	2.80912	REDUCTION OF VARIANCE =	.81606	STD. DEV. OF PND,	6.54980	
BRO	MIN	= -127.6411 +	.5345 X BRO	MIN +	.0627 X 30/100 THK +	-.0502 X 30/100 HGT +	.0404 X 30/090 HGT +		
ORL	MIN	R= .90902	STANDARD ERROR =	2.37964	REDUCTION OF VARIANCE =	.82632	STD. DEV. OF PND,	5.70999	
ORL	MIN	= -68.5833 +	.6112 X ORL	MIN +	.0251 X 35/075 HGT +	.0340 X 30/090 THK +	-.0274 X 25/095 HGT +		
TPA	MIN	R= .90780	STANDARD ERROR =	2.60609	REDUCTION OF VARIANCE =	.82411	STD. DEV. OF PND,	6.21395	
TPA	MIN	= -141.1429 +	.6746 X TPA	MIN +	.0228 X 35/075 HGT +	.0303 X 30/090 THK +			
MIA	MIN	R= .84849	STANDARD ERROR =	2.15607	REDUCTION OF VARIANCE =	.71994	STD. DEV. OF PND,	4.07412	
MIA	MIN	= -114.0480 +	.5129 X MIA	MIN +	.0410 X 30/090 HGT +	.0499 X 25/085 THK +	-.0417 X 25/085 HGT +		
EYW	MIN	R= .71671	STANDARD ERROR =	2.39454	REDUCTION OF VARIANCE =	.51367	STD. DEV. OF PND,	3.43367	
EYW	MIN	= -9.4524 +	.4465 X EYW	MIN +	.1595 X ORL	MIN +	.0134 X 30/090	THK +	

Northeast Max

September-October

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS, MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

CAR	MAX	R= .89505	STANDARD ERROR =	4.92520	REDUCTION OF VARIANCE =	.80112	STD. DEV. OF PND,	11.04411
CAR	MAX	= -298.3238 +	.0460 X 50/070 THK +	.3845 X QB	MAX +	.0281 X 40/070 HGT +		
SSM	MAX	R= .91063	STANDARD ERROR =	4.35676	REDUCTION OF VARIANCE =	.82924	STD. DEV. OF PND,	10.54326
SSM	MAX	= -229.0963 +	.0411 X 45/085 THK +	.2157 X LH	MIN +	.2749 X DLH	MAX +	.0198 X 45/075 HGT +
			.0791 X 50/090 THK +					
PWM	MAX	R= .89469	STANDARD ERROR =	4.32043	REDUCTION OF VARIANCE =	.80048	STD. DEV. OF PND,	9.67230
PWM	MAX	= -146.4219 +	.8540 X BOS	MIN +	.1862 X YB	MAX +	-.3733 X HFD	MIN +
			.0483 X 45/075 HGT +		-.0425 X 50/070 HGT +		.0523 X 45/065 THK +	
BTV	MAX	R= .90976	STANDARD ERROR =	4.59795	REDUCTION OF VARIANCE =	.82766	STD. DEV. OF PND,	11.07579
BTV	MAX	= -247.8346 +	.1116 X 45/075 THK +	.2254 X BTV	MAX +	-.1002 X UAY OF YR +		
SYR	MAX	R= .92050	STANDARD ERROR =	4.39464	REDUCTION OF VARIANCE =	.84731	STD. DEV. OF PND,	11.24668
SYR	MAX	= -244.0530 +	.0497 X 45/075 THK +	.2582 X ORR	MAX +	.0260 X 40/070 HGT +	.2469 X YB	MIN +
BUF	MAX	R= .91793	STANDARD ERROR =	4.36409	REDUCTION OF VARIANCE =	.84260	STD. DEV. OF PND,	11.00012
BUF	MAX	= -327.6719 +	.0908 X 45/085 THK +	.3204 X BUF	MAX +	.0346 X 40/070 HGT +		
DET	MAX	R= .92815	STANDARD ERROR =	4.09448	REDUCTION OF VARIANCE =	.86146	STD. DEV. OF PND,	11.00037
DET	MAX	= -289.4585 +	.0860 X 45/085 THK +	.2260 X CHI	MAX +	.2176 X NYC	MIN +	.0255 X 40/080 HGT +
FNT	MAX	R= .92622	STANDARD ERROR =	4.20503	REDUCTION OF VARIANCE =	.85788	STD. DEV. OF PND,	11.15426
FNT	MAX	= -313.3797 +	.0957 X 45/085 THK +	.2958 X MSN	MAX +	.0261 X 40/080 HGT +		
GRR	MAX	R= .91785	STANDARD ERROR =	4.41413	REDUCTION OF VARIANCE =	.84244	STD. DEV. OF PND,	11.12052
GRP	MAX	= -199.3990 +	.0806 X 45/085 THK +	.3124 X DSM	MIN +	.2472 X MSN	MAX +	
MKE	MAX	R= .92116	STANDARD ERROR =	4.34159	REDUCTION OF VARIANCE =	.84854	STD. DEV. OF PND,	11.15574
MKE	MAX	= -275.4034 +	.0529 X 45/085 THK +	.0355 X 45/095 THK +	.0493 X 40/090 HGT +	-.0310 X 50/090 HGT +		
			.2919 X GRB	MIN +	.1554 X FAR	MAX +		
GRR	MAX	R= .91205	STANDARD ERROR =	4.50707	REDUCTION OF VARIANCE =	.83184	STD. DEV. OF PND,	10.99078
GRR	MAX	= -286.6728 +	.0393 X 45/085 THK +	.2232 X FAR	MAX +	.0288 X 40/090 HGT +	.2764 X SSM	MIN +
			.0412 X 45/095 THK +					
MSN	MAX	R= .91454	STANDARD ERROR =	4.59458	REDUCTION OF VARIANCE =	.83638	STD. DEV. OF PND,	11.35855
MSN	MAX	= -312.3618 +	.0909 X 45/095 THK +	.2404 X MSN	MAX +	.2673 X SSM	MIN +	.0454 X 40/090 HGT +
			-.0185 X 50/090 HGT +					
ACK	MAX	R= .89800	STANDARD ERROR =	3.10355	REDUCTION OF VARIANCE =	.80640	STD. DEV. OF PND,	7.05351
ACK	MAX	= 13.8136 +	.3984 X BOS	MIN +	.1580 X BTV	MAX +	-.0675 X DAY OF YR +	.0284 X 40/070 HGT +
			-.0163 X 45/075 HGT +					
BOS	MAX	R= .89926	STANDARD ERROR =	4.40653	REDUCTION OF VARIANCE =	.80866	STD. DEV. OF PND,	10.07388
BOS	MAX	= -125.5688 +	.8180 X BOS	MIN +	.0382 X 40/070 HGT +	-.0392 X 50/070 HGT +	.0532 X 45/075 THK +	
			-.3434 X HFD	MIN +	.2440 X QB	MIN +		
HFD	MAX	R= .90463	STANDARD ERROR =	4.35267	REDUCTION OF VARIANCE =	.81836	STD. DEV. OF PND,	10.21303
HFD	MAX	= -144.1779 +	.4779 X BOS	MIN +	.1601 X FNT	MAX +	.0273 X 40/080 HGT +	.0490 X 45/075 THK +
			-.0190 X 50/070 HGT +		-.4291 X PHL	MIN +	.5225 X NYC	MIN +
ALB	MAX	R= .90996	STANDARD ERROR =	4.44589	REDUCTION OF VARIANCE =	.82802	STD. DEV. OF PND,	10.72072
ALB	MAX	= -258.1710 +	.0720 X 45/075 THK +	.3346 X BOS	MIN +	.0271 X 40/080 HGT +	-.3828 X PHL	MIN +
			.6067 X NYC	MIN +				
NYC	MAX	R= .92178	STANDARD ERROR =	3.66601	REDUCTION OF VARIANCE =	.84968	STD. DEV. OF PND,	9.45542
NYC	MAX	= -83.4800 +	.6168 X NYC	MIN +	.1552 X FNT	MAX +	-.0255 X 50/070 HGT +	.0242 X 40/080 HGT +
			.0377 X 45/075 THK +					
PHL	MAX	R= .91998	STANDARD ERROR =	3.83687	REDUCTION OF VARIANCE =	.84636	STD. DEV. OF PND,	9.78883
PHL	MAX	= -115.6335 +	.6995 X NYC	MIN +	.0621 X 40/080 THK +	-.1856 X NOA	MIN +	.2022 X DET
			-.0133 X 50/070 HGT +					MAX +

September-October

IPT	MAX	R= .90800	STANDARD ERROR =	4.36981	REDUCTION OF VARIANCE =	.82446	STD. DEV. OF PND,	10.42984
IPT	MAX	= -196.3988 +	.7371 X NYC	MIN +	.2264 X MKE	MAX +	.0530 X 40/080 THK +	-.2876 X CRW
			.0216 X 40/080 HGT +					
PIT	MAX	R= .91848	STANDARD ERROR =	4.43903	REDUCTION OF VARIANCE =	.84361	STD. DEV. OF PND,	11.22494
PIT	MAX	= -347.8542 +	.0756 X 40/080 THK +		.0587 X 45/085 THK +		.3100 X CVG	MAX +
CLE	MAX	R= .93342	STANDARD ERROR =	4.04360	REDUCTION OF VARIANCE =	.87128	STD. DEV. OF PND,	11.27050
CLE	MAX	= -312.1932 +	.0848 X 45/085 THK +		.2019 X PIA	MAX +	.0590 X 40/080 HGT +	.2172 X NYC
			-.0249 X 45/085 HGT +					MIN +
CMH	MAX	R= .92559	STANDARD ERROR =	4.23234	REDUCTION OF VARIANCE =	.85672	STD. DEV. OF PND,	11.18114
CMH	MAX	= -282.0145 +	.0781 X 40/090 THK +		.3044 X DAY	MAX +	.2182 X YB	MIN +
								.0297 X 40/080 HGT +
DAY	MAX	R= .92516	STANDARD ERROR =	4.17608	REDUCTION OF VARIANCE =	.85591	STD. DEV. OF PND,	11.00162
DAY	MAX	= -290.9717 +	.0885 X 40/090 THK +		.3030 X DAY	MAX +	.1880 X SSM	MIN +
								.0226 X 40/080 HGT +
CVG	MAX	R= .91493	STANDARD ERROR =	4.44510	REDUCTION OF VARIANCE =	.83709	STD. DEV. OF PND,	11.01307
CVG	MAX	= -318.7273 +	.0979 X 40/090 THK +		.3586 X CVG	MAX +	.0243 X 40/080 HGT +	
IND	MAX	R= .91576	STANDARD ERROR =	4.38184	REDUCTION OF VARIANCE =	.83861	STD. DEV. OF PND,	10.90747
IND	MAX	= -352.2060 +	.1125 X 40/090 THK +		.2425 X CHI	MAX +	.0239 X 40/080 HGT +	
CHI	MAX	R= .91647	STANDARD ERROR =	4.58723	REDUCTION OF VARIANCE =	.83991	STD. DEV. OF PND,	11.46490
CHI	MAX	= -266.5552 +	.3052 X DSM	MIN +	.0517 X 45/085 THK +		.0361 X 40/090 HGT +	-.0280 X 50/090 HGT +
			.0444 X 45/095 THK +		.1701 X MSN	MAX +		
PIA	MAX	R= .91048	STANDARD ERROR =	4.64256	REDUCTION OF VARIANCE =	.82897	STD. DEV. OF PND,	11.22574
PIA	MAX	= -379.1208 +	.0928 X 40/090 THK +		.0543 X 45/095 THK +		.2402 X MSN	MAX +
MLI	MAX	R= .90515	STANDARD ERROR =	4.80380	REDUCTION OF VARIANCE =	.81929	STD. DEV. OF PND,	11.30039
MLI	MAX	= -381.6186 +	.0635 X 40/090 THK +		.0846 X 45/095 THK +		.2335 X MLI	MAX +
STL	MAX	R= .90342	STANDARD ERROR =	4.81745	REDUCTION OF VARIANCE =	.81617	STD. DEV. OF PND,	11.23591
STL	MAX	= -407.0997 +	.1091 X 40/090 THK +		.0478 X 40/100 THK +		.2223 X STL	MAX +
CBT	MAX	R= .89458	STANDARD ERROR =	4.98790	REDUCTION OF VARIANCE =	.80027	STD. DEV. OF PND,	11.16091
CBT	MAX	= -380.7541 +	.0773 X 40/090 THK +		.0692 X 40/100 THK +		.2699 X MKC	MAX +

Northeast Min

September-October

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

CAW	MIN	R= .85710	STANDARD ERROR =	4.69214	REDUCTION OF VARIANCE =	.73461	STD. DEV. OF PND,	9.10816
CAW	MIN	= -72.2752 +	.0581 X 50/070 THK +		.2079 X RTV	MIN +	.2304 X YB	MIN +
			-.0726 X DAY OF YR +					-.0178 X 45/085 HGT +
SSW	MIN	R= .87503	STANDARD ERROR =	4.15422	REDUCTION OF VARIANCE =	.76569	STD. DEV. OF PND,	8.58203
SSW	MIN	= -73.9647 +	.2959 X STC	MIN +	.2953 X SSM	MIN +	.0352 X 50/090 THK +	-.0176 X 50/100 HGT +
			.0139 X 45/075 HGT +					
PWM	MIN	R= .85156	STANDARD ERROR =	5.20686	REDUCTION OF VARIANCE =	.72515	STD. DEV. OF PND,	9.93178
PWM	MIN	= -134.8261 +	.3189 X BTV	MIN +	.0523 X 45/075 THK +		.0378 X 45/065 HGT +	-.0381 X 45/075 HGT +
			.2247 X DET	MIN +				
BTV	MIN	R= .87044	STANDARD ERROR =	5.08650	REDUCTION OF VARIANCE =	.75774	STD. DEV. OF PND,	10.33417
BTV	MIN	= -86.0019 +	.2493 X BUF	MIN +	.0405 X 50/080 THK +		-.0321 X 50/080 HGT +	.0243 X 45/065 HGT +
			.3163 X SSM	MIN +	.2032 X BTV	MIN +		
SYR	MIN	R= .88620	STANDARD ERROR =	4.49288	REDUCTION OF VARIANCE =	.78536	STD. DEV. OF PND,	9.69764
SYR	MIN	= -146.5430 +	.4291 X BUF	MIN +	.2892 X SSM	MIN +	.0516 X 45/085 THK +	-.0286 X 45/085 HGT +
			.0399 X 35/065 HGT +					
BUF	MIN	R= .89514	STANDARD ERROR =	4.20554	REDUCTION OF VARIANCE =	.80127	STD. DEV. OF PND,	9.43393
BUF	MIN	= -164.3098 +	.3123 X BUF	MIN +	.0591 X 45/085 THK +		.2388 X GRB	MIN +
			-.0211 X 45/085 HGT +					.0252 X 40/070 HGT +

DET	MIN	R= .88856	STANDARD ERROR =	4.39655	REDUCTION OF VARIANCE =	.78954	STD. DEV. OF PND,	9.58355
DET	MIN	= -134.5120 +	.0538 X 45/085 THK +	.3871 X GRR	MIN +	.2104 X STC	MIN +	
FNT	MIN	R= .87763	STANDARD ERROR =	4.92070	REDUCTION OF VARIANCE =	.77023	STD. DEV. OF PND,	10.26560
FNT	MIN	= -6.5777 +	.4769 X MSN	MIN +	.0563 X 45/085 THK +	-.0353 X 40/100 HGT +	-.0875 X DAY OF YR +	
GHP	MIN	R= .88438	STANDARD ERROR =	4.74097	REDUCTION OF VARIANCE =	.78213	STD. DEV. OF PND,	10.19999
GRD	MIN	= -27.8869 +	.4395 X MSN	MIN +	.0555 X 45/085 THK +	-.1137 X DAY OF YR +	-.0247 X 45/105 HGT +	
MKE	MIN	R= .88489	STANDARD ERROR =	4.49940	REDUCTION OF VARIANCE =	.78303	STD. DEV. OF PND,	9.65960
MKE	MIN	= 9.2362 +	.2841 X MSP	MIN +	.3211 X MKE	MIN +	.0391 X 45/095 THK +	-.0262 X 40/110 HGT +
			-.0851 X DAY OF YR +					
GRB	MIN	R= .87776	STANDARD ERROR =	4.75130	REDUCTION OF VARIANCE =	.77046	STD. DEV. OF PND,	9.91711
GRD	MIN	= -124.4775 +	.3031 X GRB	MIN +	.0545 X 45/095 THK +	.2472 X STC	MIN +	-.0390 X 45/095 HGT +
			.0339 X 45/085 HGT +					
MSN	MIN	R= .87767	STANDARD ERROR =	5.00661	REDUCTION OF VARIANCE =	.77030	STD. DEV. OF PND,	10.44627
MSN	MIN	= -140.2369 +	.3711 X MSN	MIN +	.0536 X 45/095 THK +	.2354 X FAR	MIN +	-.0329 X 40/100 HGT +
			.0327 X 35/085 HGT +					
ACK	MIN	R= .85789	STANDARD ERROR =	4.03538	REDUCTION OF VARIANCE =	.73597	STD. DEV. OF PND,	7.85338
ACK	MIN	= -98.7232 +	.4005 X ACK	MIN +	.0419 X 45/075 THK +	-.0160 X 45/085 HGT +	.1884 X SSM	MIN +
			.0155 X 40/060 HGT +					
ROS	MIN	R= .90105	STANDARD ERROR =	3.59755	REDUCTION OF VARIANCE =	.81189	STD. DEV. OF PND,	8.29461
BOS	MIN	= -112.7640 +	.0467 X 45/075 THK +	.3640 X ROS	MIN +	.2251 X YB	MIN +	
HFD	MIN	R= .87572	STANDARD ERROR =	4.88699	REDUCTION OF VARIANCE =	.76689	STD. DEV. OF PND,	10.12184
HFD	MIN	= -124.1457 +	.4402 X BUF	MIN +	.0471 X 45/075 THK +	.2519 X HFD	MIN +	
ALB	MIN	R= .87080	STANDARD ERROR =	5.06499	REDUCTION OF VARIANCE =	.75830	STD. DEV. OF PND,	10.31059
ALB	MIN	= -62.3361 +	.5080 X BUF	MIN +	.0437 X 45/075 THK +	.2753 X SSM	MIN +	-.0183 X 45/085 HGT +
NYC	MIN	R= .91299	STANDARD ERROR =	3.47138	REDUCTION OF VARIANCE =	.83354	STD. DEV. OF PND,	8.50846
NYC	MIN	= -136.4290 +	.3558 X NYC	MIN +	.0549 X 40/080 THK +	.2404 X YB	MIN +	
PHL	MIN	R= .90034	STANDARD ERROR =	4.28119	REDUCTION OF VARIANCE =	.81062	STD. DEV. OF PND,	9.83775
PHL	MIN	= -134.6825 +	.4488 X PHL	MIN +	.2812 X DET	MIN +	.0289 X 40/080 THK +	.0205 X 40/070 HGT +
IPT	MIN	R= .88648	STANDARD ERROR =	4.57608	REDUCTION OF VARIANCE =	.78585	STD. DEV. OF PND,	9.88855
IPT	MIN	= 1.3199 +	.3553 X CMH	MIN +	.4135 X RUF	MIN +	.1865 X GRB	MIN +
PIT	MIN	R= .89797	STANDARD ERROR =	4.28001	REDUCTION OF VARIANCE =	.80636	STD. DEV. OF PND,	9.72622
PIT	MIN	= -185.1516 +	.0723 X 40/080 THK +	.3913 X PIT	MIN +	.2710 X MSN	MIN +	-.1568 X ROA
								MAX +
CLE	MIN	R= .88170	STANDARD ERROR =	4.59417	REDUCTION OF VARIANCE =	.77739	STD. DEV. OF PND,	9.73725
CLF	MIN	= -99.3239 +	.3192 X MSN	MIN +	.3724 X CLE	MIN +	.0394 X 45/085 THK +	
CMH	MIN	R= .90147	STANDARD ERROR =	4.53502	REDUCTION OF VARIANCE =	.81266	STD. DEV. OF PND,	10.47754
CMH	MIN	= -72.4406 +	.3120 X PIA	MIN +	.3530 X CMH	MIN +	.0493 X 40/090 THK +	-.0371 X 35/095 HGT +
			.0191 X 45/075 HGT +					
DAY	MIN	R= .91313	STANDARD ERROR =	4.18465	REDUCTION OF VARIANCE =	.83381	STD. DEV. OF PND,	10.26496
DAY	MIN	= -120.6903 +	.3783 X DAY	MIN +	.0594 X 40/090 THK +	.0194 X 45/075 HGT +	.2248 X DSM	MIN +
			-.0303 X 35/095 HGT +					
CVR	MIN	R= .90173	STANDARD ERROR =	4.50981	REDUCTION OF VARIANCE =	.81312	STD. DEV. OF PND,	10.43222
CVR	MIN	= -211.9854 +	.4512 X IND	MIN +	.0824 X 40/090 THK +	.0422 X 40/080 HGT +	-.0438 X 40/090 HGT +	

IND MIN R= .90524 STANDARD ERROR = 4.36488 REDUCTION OF VARIANCE = .81945 STD. DEV. OF PND, 10.27251
 IND MIN = 14.548J + .5117 X PIA MIN + .0550 X 40/090 THK + -.0398 X 35/105 HGT + -.1055 X DAY OF YR +

CHT MIN R= .88506 STANDARD ERROR = 4.92570 REDUCTION OF VARIANCE = .78334 STD. DEV. OF PND, 10.58218
 CHT MIN = -94.8958 + .408J X CHI MIN + .0456 X 45/095 THK + .2531 X OMA MIN + -.0287 X 40/100 HGT +
 .0211 X 40/080 HGT +

PIA MIN R= .89779 STANDARD ERROR = 4.56847 REDUCTION OF VARIANCE = .80603 STD. DEV. OF PND, 10.37288
 PIA MIN = -248.0577 + .4362 X DSM MIN + .0730 X 40/090 THK + .0197 X 50/080 HGT +

MLT MIN R= .88800 STANDARD ERROR = 5.01358 REDUCTION OF VARIANCE = .78855 STD. DEV. OF PND, 10.90287
 MLT MIN = -124.1626 + .3316 X MLI MIN + .0511 X 45/095 THK + .2956 X OMA MIN + -.0265 X 40/100 HGT +
 .0236 X 40/080 HGT +

STL MIN R= .90240 STANDARD ERROR = 4.43654 REDUCTION OF VARIANCE = .81432 STD. DEV. OF PND, 10.29576
 STL MIN = -58.0465 + .4207 X MKC MIN + .0676 X 40/090 THK + -.1106 X DAY OF YR + -.0263 X 40/110 HGT +

CBT MIN R= .89825 STANDARD ERROR = 4.46091 REDUCTION OF VARIANCE = .80686 STD. DEV. OF PND, 10.15040
 CBT MIN = -209.8710 + .0619 X 40/090 THK + .3608 X TOP MIN + .0427 X 40/100 THK + -.0218 X 40/110 HGT +

Northwest Max

November-December

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

INL MAX R= .93548 STANDARD ERROR = 5.04527 REDUCTION OF VARIANCE = .87511 STD. DEV. OF PND. 14.27669
 INL MAX = =343.0216 + .0533 X 50/090 THK + .3626 X WG MAX + .0534 X 50/100 THK + .0220 X 40/080 HGT +

DLH MAX R= .93088 STANDARD ERROR = 4.76253 REDUCTION OF VARIANCE = .86653 STD. DEV. OF PND. 13.03617
 DLH MAX = =185.3364 + .0723 X 45/095 THK + .2928 X DLH MIN + .2602 X DLH MAX +

STC MAX R= .93253 STANDARD ERROR = 5.00773 REDUCTION OF VARIANCE = .86962 STD. DEV. OF PND. 13.86867
 STC MAX = =217.4388 + .1052 X 45/095 THK + .2701 X FAR MAX + -.1595 X DAY OF YR +

FAR MAX R= .94449 STANDARD ERROR = 5.03023 REDUCTION OF VARIANCE = .89207 STD. DEV. OF PND. 15.31122
 FAR MAX = =149.2259 + .0783 X 50/100 THK + .2415 X FAR MAX + .2853 X FAR MIN + .0497 X 45/095 HGT +
 -.0531 X 50/100 HGT + -.1209 X DAY OF YR +

BIS MAX R= .93487 STANDARD ERROR = 5.72482 REDUCTION OF VARIANCE = .87398 STD. DEV. OF PND. 16.12682
 BIS MAX = =179.3854 + .0936 X 50/100 THK + .1960 X GSG MAX + -.1404 X DAY OF YR + -.0550 X 55/105 HGT +
 .0496 X 45/105 HGT + .2391 X BIS MIN +

ISN MAX R= .93393 STANDARD ERROR = 5.69047 REDUCTION OF VARIANCE = .87222 STD. DEV. OF PND. 15.91886
 ISN MAX = =297.9968 + .0661 X 50/110 THK + .2230 X QR MAX + .2733 X GSG MIN + .0489 X 50/100 THK +

GSG MAX R= .92582 STANDARD ERROR = 6.32431 REDUCTION OF VARIANCE = .85714 STD. DEV. OF PND. 16.73267
 GSG MAX = =262.0926 + .3630 X GSG MIN + .1007 X 50/110 THK + .2525 X GSG MAX +

BIL MAX R= .92156 STANDARD ERROR = 5.48417 REDUCTION OF VARIANCE = .84927 STD. DEV. OF PND. 14.12571
 BIL MAX = =305.0377 + .4558 X BIL MIN + .0915 X 45/105 THK + .0554 X 45/115 HGT + -.0318 X 55/115 HGT +

GTF MAX R= .90133 STANDARD ERROR = 6.58947 REDUCTION OF VARIANCE = .81240 STD. DEV. OF PND. 15.21383
 GTF MAX = =314.8038 + .3938 X GTF MIN + .0897 X 50/110 THK + .0307 X 40/110 HGT +

HLN MAX R= .90259 STANDARD ERROR = 5.95404 REDUCTION OF VARIANCE = .81467 STD. DEV. OF PND. 13.83049
 HLN MAX = =334.5396 + .5247 X HLN MIN + .0524 X 45/115 THK + .0484 X 45/105 THK + .0247 X 40/120 HGT +

MSO MAX R= .89310 STANDARD ERROR = 4.84720 REDUCTION OF VARIANCE = .79763 STD. DEV. OF PND. 10.77488
 MSO MAX = =120.7072 + .2972 X MSO MIN + .3129 X MSO MAX + .0479 X 45/115 THK + .1520 X HLN MIN +

GEG MAX R= .91504 STANDARD ERROR = 3.59197 REDUCTION OF VARIANCE = .83730 STD. DEV. OF PND. 8.90506
 GEG MAX = = 21.9112 + .3853 X GEG MIN + .3888 X GEG MAX + -.0882 X DAY OF YR + .0257 X 45/115 HGT +
 -.0198 X 55/125 HGT +

PDT MAX R= .87929 STANDARD ERROR = 5.17321 REDUCTION OF VARIANCE = .77315 STD. DEV. OF PND. 10.86149
 PDT MAX = = 46.3846 + .4100 X PDT MIN + .2992 X PDT MAX + .2501 X VR MIN + -.0274 X 55/125 HGT +
 .0238 X 40/120 HGT + -.0904 X DAY OF YR +

YKM MAX R= .85916 STANDARD ERROR = 5.17199 REDUCTION OF VARIANCE = .73816 STD. DEV. OF PND. 10.10733
 YKM MAX = = 39.5020 + .4542 X YKM MAX + .5044 X PDT MIN + -.0946 X DAY OF YR +

PDX MAX R= .84974 STANDARD ERROR = 3.70755 REDUCTION OF VARIANCE = .72206 STD. DEV. OF PND. 7.03247
 PDX MAX = = -57.7396 + .3028 X PDX MAX + .2108 X PDX MIN + .0343 X 45/125 THK + -.0616 X DAY OF YR +
 .1903 X PDT MIN +

SEA MAX R= .88013 STANDARD ERROR = 3.16979 REDUCTION OF VARIANCE = .77463 STD. DEV. OF PND. 6.67704
 SEA MAX = = -62.7350 + .3907 X SEA MIN + .2547 X SEA MAX + .0299 X 45/125 THK + .0143 X 50/110 HGT +
 -.0095 X 55/135 HGT + -.0510 X DAY OF YR +

TTI MAX R= .86750 STANDARD ERROR = 2.47205 REDUCTION OF VARIANCE = .75255 STD. DEV. OF PND. 4.96949
 TTI MAX = = -66.1068 + .0285 X 50/120 THK + .3317 X SEA MIN + .0126 X 45/115 HGT + -.0471 X DAY OF YR +

MSP MAX R= .93524 STANDARD ERROR = 4.97911 REDUCTION OF VARIANCE = .87468 STD. DEV. OF PND. 14.06488
 MSP MAX = =230.5387 + .1081 X 45/095 THK + .2857 X FAR MAX + -.1403 X DAY OF YR +

HON MAX R = .92235 STANDARD ERROR = 6.02836 REDUCTION OF VARIANCE = .85073 STD. DEV. OF PND. 15.60344
HON MAX = -153.9798 + .0674 X 50/100 THK + .2529 X HON MAX + -.0316 X 55/095 HGT + -.1530 X DAY OF YR +
.0463 X 45/105 THK + .2343 X HON MIN +

RAP MAX R = .92193 STANDARD ERROR = 5.89555 REDUCTION OF VARIANCE = .84996 STD. DEV. OF PND. 15.22019
RAP MAX = -326.4936 + .1219 X 45/105 THK + .2302 X GTF MIN + -.0424 X 55/105 HGT + .1588 X INL MIN +
.0455 X 40/100 HGT +

CPR MAX R = .92002 STANDARD ERROR = 4.76263 REDUCTION OF VARIANCE = .84644 STD. DEV. OF PND. 12.15388
CPR MAX = -342.1067 + .2127 X CPR MIN + .2528 X WMC MAX + .0476 X 45/105 THK + .0602 X 45/115 THK +
.0343 X 35/105 HGT + -.0159 X 50/120 HGT +

LND MAX R = .89994 STANDARD ERROR = 5.63563 REDUCTION OF VARIANCE = .80990 STD. DEV. OF PND. 12.92549
LND MAX = -318.2076 + .6212 X LND MIN + .0716 X 40/120 THK + .0492 X 45/105 THK +

PIH MAX R = .92157 STANDARD ERROR = 4.17822 REDUCTION OF VARIANCE = .84929 STD. DEV. OF PND. 10.76257
PIH MAX = -225.7605 + .3928 X PIH MAX + .0812 X 45/115 THK + -.1214 X DAY OF YR + .0664 X 40/110 HGT +
-.0477 X 45/115 HGT +

BOI MAX R = .89703 STANDARD ERROR = 4.30611 REDUCTION OF VARIANCE = .80466 STD. DEV. OF PND. 9.74282
BOI MAX = -28.3925 + .3896 X BOI MIN + .2105 X BNO MAX + -.1034 X DAY OF YR + .0392 X 45/115 THK +
.1615 X MFR MAX + -.0110 X 45/135 HGT +

BNO MAX R = .88467 STANDARD ERROR = 4.63787 REDUCTION OF VARIANCE = .78264 STD. DEV. OF PND. 9.94777
BNO MAX = -106.6463 + .3890 X BNO MAX + .0334 X 45/125 THK + .3197 X BNO MIN + -.1056 X DAY OF YR +
.0212 X 40/120 HGT +

MFR MAX R = .80334 STANDARD ERROR = 5.28724 REDUCTION OF VARIANCE = .64536 STD. DEV. OF PND. 8.87844
MFR MAX = 33.8066 + .4973 X MFR MAX + .4812 X EKA MIN + -.0911 X DAY OF YR +

SLE MAX R = .82868 STANDARD ERROR = 4.05360 REDUCTION OF VARIANCE = .68671 STD. DEV. OF PND. 7.24210
SLE MAX = -54.5671 + .3325 X SLE MAX + .2082 X PDX MIN + .0324 X 45/125 THK + -.0610 X DAY OF YR +
.2046 X SLE MIN +

Northwest Min

HGT! (700MB HEIGHT) IN METERS THK! (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN! TEMPERATURES IN DEGREES FAHRENHEIT.

INL MIN R = .90359 STANDARD ERROR = 7.33908 REDUCTION OF VARIANCE = .81647 STD. DEV. OF PND. 17.13119
INL MIN = -203.6143 + .3562 X INL MIN + .1015 X 50/100 THK + -.1933 X DAY OF YR + .0220 X 50/080 HGT +
-.0239 X 50/110 HGT +

DLH MIN R = .90583 STANDARD ERROR = 6.37023 REDUCTION OF VARIANCE = .82053 STD. DEV. OF PND. 15.03686
DLH MIN = -183.0081 + .3957 X DLH MIN + .0910 X 50/100 THK + -.1357 X DAY OF YR + -.0263 X 45/105 HGT +
.0215 X 45/085 HGT +

STC MIN R = .88531 STANDARD ERROR = 6.75772 REDUCTION OF VARIANCE = .78377 STD. DEV. OF PND. 14.53252
STC MIN = -218.1969 + .5582 X STC MIN + .0809 X 50/100 THK +

FAR MIN R = .89415 STANDARD ERROR = 6.79781 REDUCTION OF VARIANCE = .79950 STD. DEV. OF PND. 15.18144
FAR MIN = -213.9838 + .3923 X FAR MIN + .0955 X 50/100 THK + -.1297 X DAY OF YR +

BIS MIN R = .88810 STANDARD ERROR = 6.72856 REDUCTION OF VARIANCE = .78873 STD. DEV. OF PND. 14.63869
BIS MIN = -152.4780 + .4378 X BIS MIN + .0785 X 50/110 THK + .2140 X QD MAX + -.0222 X 50/110 HGT +

ISN MIN R = .89953 STANDARD ERROR = 6.62113 REDUCTION OF VARIANCE = .80915 STD. DEV. OF PND. 15.15604
ISN MIN = -196.4924 + .0637 X 50/110 THK + .2687 X BIS MIN + .3606 X EG MIN + .0280 X 45/095 HGT +
-.0207 X 60/120 HGT +

GSG MIN R = .88156 STANDARD ERROR = 7.03859 REDUCTION OF VARIANCE = .77715 STD. DEV. OF PND. 14.91021
GSG MIN = -193.4637 + .4414 X GSG MIN + .0698 X 50/110 THK + .1624 X EG MAX +

BIL MIN R = .87094 STANDARD ERROR = 6.25734 REDUCTION OF VARIANCE = .75854 STD. DEV. OF PND. 12.73406
BIL MIN = -250.3308 + .0910 X 50/110 THK + .3260 X SEA MIN + .2136 X GTF MIN +

GTF MIN R = .88777 STANDARD ERROR = 7.19260 REDUCTION OF VARIANCE = .78814 STD. DEV. OF PND. 15.62635
GTF MIN = -322.4437 + .0694 X 55/115 THK + .3344 X GTF MAX + -.0418 X 55/135 HGT + .0468 X 45/115 HGT +
.0415 X 55/135 THK +

HLN MIN R= .83933 STANDARD ERROR = 7.49491 REDUCTION OF VARIANCE = .70447 STD. DEV. OF PND. 13.78690
 HLN MIN = -92.3015 + .4580 X HLN MIN + .0485 X 50/110 THK + .4667 X SEA MIN + -.0184 X 60/130 HGT +

MSO MIN R= .85021 STANDARD ERROR = 5.80884 REDUCTION OF VARIANCE = .72285 STD. DEV. OF PND. 11.03405
 MSO MIN = -59.8109 + .5453 X MSO MIN + .4351 X SEA MIN + .0635 X 45/115 THK + -.0447 X 40/110 THK +

GEG MIN R= .86139 STANDARD ERROR = 4.66050 REDUCTION OF VARIANCE = .74199 STD. DEV. OF PND. 9.17518
 GEG MIN = -60.5537 + .5244 X GEG MIN + -.0168 X 50/140 HGT + .0386 X 45/125 THK + .2794 X SEA MIN +

PDT MIN R= .86480 STANDARD ERROR = 4.26548 REDUCTION OF VARIANCE = .74788 STD. DEV. OF PND. 8.49506
 PDT MIN = -33.3063 + .5138 X PDT MIN + .3174 X SEA MIN + -.0182 X 55/135 HGT + .0308 X 45/125 THK +

YKM MIN R= .83223 STANDARD ERROR = 4.68406 REDUCTION OF VARIANCE = .69261 STD. DEV. OF PND. 8.44841
 YKM MIN = -70.1737 + .5277 X YKM MIN + .0388 X 45/125 THK + -.0119 X 50/140 HGT + .1775 X GEG MIN +

PDX MIN R= .78661 STANDARD ERROR = 4.33552 REDUCTION OF VARIANCE = .61876 STD. DEV. OF PND. 7.02171
 PDX MIN = -11.9546 + .6383 X PDX MIN + -.0150 X 50/140 HGT + .0235 X 40/130 THK +

SEA MIN R= .80185 STANDARD ERROR = 3.95001 REDUCTION OF VARIANCE = .64296 STD. DEV. OF PND. 6.61056
 SEA MIN = -40.5170 + .5846 X SEA MIN + -.0143 X 50/140 HGT + .0337 X 45/125 THK +

TTI MIN R= .84341 STANDARD ERROR = 2.64858 REDUCTION OF VARIANCE = .71134 STD. DEV. OF PND. 4.92966
 TTI MIN = -62.5578 + .1997 X VR MAX + .0245 X 50/130 THK + .1952 X SEA MIN + .0097 X 50/120 HGT +
 -.0064 X 50/150 HGT + .1308 X EKA MAX +

MSP MIN R= .89815 STANDARD ERROR = 6.13851 REDUCTION OF VARIANCE = .80667 STD. DEV. OF PND. 13.96086
 MSP MIN = -209.6223 + .3456 X MSP MIN + .0541 X 50/100 THK + .0234 X 45/085 HGT + .2400 X FAR MIN +

HON MIN R= .87080 STANDARD ERROR = 6.58097 REDUCTION OF VARIANCE = .75829 STD. DEV. OF PND. 13.38575
 HON MIN = -177.3171 + .0663 X 50/100 THK + .3626 X HON MIN + .2080 X GSG MIN +

RAP MIN R= .88479 STANDARD ERROR = 5.64614 REDUCTION OF VARIANCE = .78285 STD. DEV. OF PND. 12.11641
 RAP MIN = -322.0563 + .0598 X 50/110 THK + .2836 X RAP MIN + .0590 X 45/105 THK +

CPR MIN R= .85018 STANDARD ERROR = 6.35016 REDUCTION OF VARIANCE = .72281 STD. DEV. OF PND. 12.06129
 CPR MIN = -296.5226 + .0560 X 45/115 THK + -.0315 X 50/130 HGT + .0409 X 50/110 THK + .0420 X 40/110 HGT +
 .2221 X CPM MIN +

LND MIN R= .88636 STANDARD ERROR = 5.20488 REDUCTION OF VARIANCE = .78563 STD. DEV. OF PND. 11.24151
 LND MIN = -251.6756 + .0769 X 45/115 THK + .3765 X LND MIN + -.0186 X 55/125 HGT + .0300 X 35/105 HGT +
 .1320 X HLN MIN +

PIH MIN R= .83290 STANDARD ERROR = 5.94884 REDUCTION OF VARIANCE = .69373 STD. DEV. OF PND. 10.74931
 PIH MIN = -78.5457 + .4207 X PIH MIN + .3656 X BNO MIN + -.0384 X 50/120 HGT + .0278 X 40/110 HGT +
 .0388 X 45/125 THK +

BOI MIN R= .85151 STANDARD ERROR = 4.49751 REDUCTION OF VARIANCE = .72507 STD. DEV. OF PND. 8.57746
 BOI MIN = -85.2312 + .5453 X BOI MIN + .0525 X 45/125 THK + -.0206 X 50/130 HGT + .1824 X SLE MIN +

BNO MIN R= .79745 STANDARD ERROR = 5.46102 REDUCTION OF VARIANCE = .63592 STD. DEV. OF PND. 9.05056
 BNO MIN = -108.2309 + .4194 X BNO MIN + .0418 X 40/120 HGT + -.0400 X 45/125 HGT + .0437 X 45/125 THK +
 .1890 X SLE MIN + -.0603 X DAY OF YR +

MFR MIN R= .82265 STANDARD ERROR = 4.13180 REDUCTION OF VARIANCE = .67675 STD. DEV. OF PND. 7.26727
 MFR MIN = -24.0323 + .5638 X MFR MIN + -.0158 X 45/135 HGT + .0272 X 40/130 THK + .1689 X SLE MIN +

SLE MIN R= .78289 STANDARD ERROR = 4.82079 REDUCTION OF VARIANCE = .61291 STD. DEV. OF PND. 7.74839
 SLE MIN = -3.0225 + .4739 X SLE MIN + -.0183 X 50/140 HGT + .0231 X 40/130 THK + .2030 X SEA MIN +

Southwest Max

November-December

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MAX	R= .92482	STANDARD ERROR =	5.65610	REDUCTION OF VARIANCE =	.85529	STD. DEV. OF PND.	14.86847
DSM	MAX	= -232.4483 +	.0900 X 45/095 THK +	.3170 X OMA	MAX +	.3631 X OMA	MIN +	
OMA	MAX	R= .91776	STANDARD ERROR =	5.69639	REDUCTION OF VARIANCE =	.84229	STD. DEV. OF PND.	14.34393
OMA	MAX	= -235.4577 +	.3022 X OMA	MIN +	.0900 X 40/100 THK +	.2698 X OMA	MAX +	.1623 X QR
LBF	MAX	R= .91120	STANDARD ERROR =	5.87030	REDUCTION OF VARIANCE =	.83029	STD. DEV. OF PND.	14.24982
LBF	MAX	= -385.1815 +	.1080 X 45/105 THK +	.1626 X LBF	MAX +	-.0356 X 50/100 HGT +	-.1308 X DAY OF YR +	
DEN	MAX	R= .90066	STANDARD ERROR =	5.76473	REDUCTION OF VARIANCE =	.81119	STD. DEV. OF PND.	13.26676
DEN	MAX	= -456.5329 +	.0829 X 45/105 THK +	.0882 X 35/105 HGT +	-.0532 X 50/110 HGT +	.2580 X CPR	MAX +	
SLC	MAX	R= .91500	STANDARD ERROR =	4.37326	REDUCTION OF VARIANCE =	.83723	STD. DEV. OF PND.	10.83985
SLC	MAX	= -147.7030 +	.4214 X SLC	MAX +	.0360 X 40/120 THK +	.3615 X SLC	MIN +	.1731 X FAT
WMC	MAX	R= .91542	STANDARD ERROR =	4.24233	REDUCTION OF VARIANCE =	.83799	STD. DEV. OF PND.	10.53977
WMC	MAX	= -295.7779 +	.1037 X 40/120 THK +	.3141 X WMC	MAX +	-.1634 X DAY OF YR +	.0304 X 40/110 HGT +	
RNO	MAX	R= .90229	STANDARD ERROR =	4.43254	REDUCTION OF VARIANCE =	.81412	STD. DEV. OF PND.	10.28102
RNO	MAX	= -207.6989 +	.0738 X 40/120 THK +	.3113 X RNO	MAX +	-.1175 X DAY OF YR +	.0399 X 40/120 HGT +	
RBL	MAX	R= .85484	STANDARD ERROR =	5.02026	REDUCTION OF VARIANCE =	.73075	STD. DEV. OF PND.	9.67496
RBL	MAX	= -85.1024 +	.3415 X SAC	MAX +	.0319 X 45/125 HGT +	.2337 X BFL	MAX +	.2274 X RBL
EKA	MAX	R= .778217	STANDARD ERROR =	3.22452	REDUCTION OF VARIANCE =	.61179	STD. DEV. OF PND.	5.17525
EKA	MAX	= 5.8567 +	.2468 X EKA	MIN +	.0100 X 45/115 HGT +	-.0527 X DAY OF YR +	-.0133 X 40/140 HGT +	
MKC	MAX	R= .91207	STANDARD ERROR =	5.69980	REDUCTION OF VARIANCE =	.83187	STD. DEV. OF PND.	13.90089
MKC	MAX	= -242.7192 +	.3958 X MKC	MIN +	.0928 X 40/100 THK +	.2628 X TOP	MAX +	
TOP	MAX	R= .91100	STANDARD ERROR =	5.75512	REDUCTION OF VARIANCE =	.82992	STD. DEV. OF PND.	13.95499
TOP	MAX	= -255.0726 +	.1112 X 40/100 THK +	.1961 X OMA	MAX +	.2796 X MKC	MIN +	-.0980 X DAY OF YR +
ICT	MAX	R= .90702	STANDARD ERROR =	5.47976	REDUCTION OF VARIANCE =	.82269	STD. DEV. OF PND.	13.01343
ICT	MAX	= -256.8858 +	.1381 X 40/100 THK +	.3065 X ICT	MAX +	-.1139 X DAY OF YR +	-.0227 X 45/095 HGT +	
DDC	MAX	R= .89214	STANDARD ERROR =	6.14950	REDUCTION OF VARIANCE =	.79591	STD. DEV. OF PND.	13.61233
DDC	MAX	= -455.9772 +	.1565 X 40/100 THK +	.0966 X 35/105 HGT +	-.0715 X 40/100 HGT +	-.0975 X DAY OF YR +		
PUB	MAX	R= .89705	STANDARD ERROR =	5.88739	REDUCTION OF VARIANCE =	.80470	STD. DEV. OF PND.	13.32218
PUB	MAX	= -399.2830 +	.0508 X 40/100 THK +	.1089 X 35/105 HGT +	-.0818 X 48/105 HGT +	.0714 X 45/105 THK +		
GJT	MAX	R= .93598	STANDARD ERROR =	3.75357	REDUCTION OF VARIANCE =	.87606	STD. DEV. OF PND.	10.66210
GJT	MAX	= -66.3261 +	.4112 X GJT	MAX +	.2245 X WMC	MAX +	.4622 X GJT	MIN +
MLF	MAX	R= .90483	STANDARD ERROR =	5.16029	REDUCTION OF VARIANCE =	.81872	STD. DEV. OF PND.	12.11977
MLF	MAX	= -187.8014 +	.1997 X RNO	MAX +	.1851 X ELY	MIN +	.0530 X 40/110 THK +	.0573 X 35/115 HGT +
ELY	MAX	R= .91582	STANDARD ERROR =	4.63790	REDUCTION OF VARIANCE =	.83872	STD. DEV. OF PND.	11.54869
ELY	MAX	= -371.2896 +	.0999 X 40/120 THK +	.4062 X ELY	MAX +	.0569 X 40/110 HGT +	-.0225 X 50/120 HGT +	
SAC	MAX	R= .88815	STANDARD ERROR =	4.00249	REDUCTION OF VARIANCE =	.78881	STD. DEV. OF PND.	8.70953
SAC	MAX	= -55.7965 +	.5237 X SAC	MAX +	.1951 X RBL	MIN +	.2330 X FAT	MAX +

SFO MAX R= .86802 STANDARD ERROR = 3.28856 REDUCTION OF VARIANCE = .75346 STD. DEV. OF PND. 6.62314
SFO MAX = -34.1370 + .4375 X SFO MAX + .2074 X RBL MIN + .0158 X 40/120 HGT + .1836 X SAC MAX +

OKC MAX R= .89543 STANDARD ERROR = 5.63673 REDUCTION OF VARIANCE = .80179 STD. DEV. OF PND. 12.66078
OKC MAX = -276.8243 + .1138 X 40/100 THK + .2573 X ICT MAX + -.0290 X 45/095 HGT + -.0890 X DAY OF YR +
.0369 X 35/095 THK +

AMA MAX R= .89244 STANDARD ERROR = 5.76759 REDUCTION OF VARIANCE = .79645 STD. DEV. OF PND. 12.78376
AMA MAX = -449.2154 + .1571 X 40/100 THK + .1478 X 35/105 HGT + -.0971 X 40/100 HGT + .1948 X ABQ MAX +
-.0388 X 40/110 HGT +

ABQ MAX R= .91138 STANDARD ERROR = 4.05271 REDUCTION OF VARIANCE = .83061 STD. DEV. OF PND. 9.84703
ABQ MAX = -291.1728 + .0670 X 35/105 THK + .2016 X WMC MAX + .2179 X ABQ MAX + .0379 X 30/110 HGT +
.2654 X ABQ MIN +

INW MAX R= .90439 STANDARD ERROR = 5.12755 REDUCTION OF VARIANCE = .81792 STD. DEV. OF PND. 12.01638
INW MAX = -279.3247 + .5494 X INW MAX + .1051 X 35/115 THK + .3386 X INW MIN + -.3130 X YUM MIN +

LAS MAX R= .91112 STANDARD ERROR = 3.62128 REDUCTION OF VARIANCE = .83013 STD. DEV. OF PND. 8.78635
LAS MAX = -165.5985 + .2653 X LAS MAX + .0775 X 35/115 THK + -.0785 X DAY OF YR + .1845 X WMC MAX +

BFL MAX R= .88106 STANDARD ERROR = 4.67510 REDUCTION OF VARIANCE = .77628 STD. DEV. OF PND. 9.88403
BFL MAX = 38.4326 + .5956 X FAT MAX + .4152 X SFO MAX + -.0221 X 40/130 HGT + .0529 X 40/120 THK +
-.0426 X 40/110 THK +

FAT MAX R= .89633 STANDARD ERROR = 4.40673 REDUCTION OF VARIANCE = .80341 STD. DEV. OF PND. 9.93886
FAT MAX = -62.3770 + .5344 X FAT MAX + .3798 X SAC MAX + .0410 X 40/130 THK + -.0168 X 40/130 HGT +

SMX MAX R= .85292 STANDARD ERROR = 4.26169 REDUCTION OF VARIANCE = .72748 STD. DEV. OF PND. 8.16359
SMX MAX = -221.0356 + .0429 X 40/120 HGT + .1468 X SFO MAX + .1945 X LAX MAX + .0431 X 35/125 THK +
.1555 X YUM MIN +

FTW MAX R= .89045 STANDARD ERROR = 5.32538 REDUCTION OF VARIANCE = .79291 STD. DEV. OF PND. 11.70217
FTW MAX = -434.5944 + .1104 X 35/095 THK + .0618 X 35/105 THK + .2301 X ICT MAX + -.0651 X 35/095 HGT +
.0586 X 30/100 HGT +

MAF MAX R= .87829 STANDARD ERROR = 5.56948 REDUCTION OF VARIANCE = .77139 STD. DEV. OF PND. 11.64837
MAF MAX = -439.6308 + .1047 X 35/105 THK + .0746 X 40/100 THK + -.0513 X 40/100 HGT + .2088 X MAF MAX +
.0397 X 30/110 HGT +

ELP MAX R= .88717 STANDARD ERROR = 4.23516 REDUCTION OF VARIANCE = .78706 STD. DEV. OF PND. 9.17795
ELP MAX = -354.8239 + .0971 X 35/105 THK + .2750 X ELP MAX + .0455 X 30/110 THK + -.0628 X DAY OF YR +

TUS MAX R= .92442 STANDARD ERROR = 3.40239 REDUCTION OF VARIANCE = .85455 STD. DEV. OF PND. 8.92137
TUS MAX = -416.9870 + .0720 X 35/115 THK + .2649 X TUS MAX + .0287 X 35/105 HGT + .0560 X 30/110 THK +

PHX MAX R= .92638 STANDARD ERROR = 3.19895 REDUCTION OF VARIANCE = .85818 STD. DEV. OF PND. 8.49441
PHX MAX = -240.8805 + .3679 X PHX MAX + .0721 X 35/115 THK + .0315 X 35/105 HGT + -.0714 X DAY OF YR +

YUM MAX R= .93504 STANDARD ERROR = 3.06494 REDUCTION OF VARIANCE = .87429 STD. DEV. OF PND. 8.64453
YUM MAX = -229.2630 + .4386 X YUM MAX + .0702 X 35/115 THK + .0290 X 30/120 HGT + -.0777 X DAY OF YR +

SAN MAX R= .84669 STANDARD ERROR = 3.63563 REDUCTION OF VARIANCE = .71688 STD. DEV. OF PND. 6.83280
SAN MAX = -88.4339 + .4621 X SAN MAX + .0382 X 40/120 HGT + .1672 X YUM MIN +

LAX MAX R= .84523 STANDARD ERROR = 4.29319 REDUCTION OF VARIANCE = .71442 STD. DEV. OF PND. 8.03372
LAX MAX = -113.2716 + .5069 X LAX MAX + .0452 X 40/120 HGT + .2647 X YUM MIN + -.1029 X ELY MAX +

SAT MAX R= .86919 STANDARD ERROR = 5.14947 REDUCTION OF VARIANCE = .75549 STD. DEV. OF PND. 10.41395
SAT MAX = -336.6013 + .0649 X 30/100 THK + .1307 X DDC MAX + .2107 X SAT MAX + -.0211 X 30/090 HGT +
.0633 X 35/095 THK + .0568 X 25/105 HGT + -.0343 X 35/095 HGT +

DRT MAX R= .89225 STANDARD ERROR = 4.53522 REDUCTION OF VARIANCE = .79611 STD. DEV. OF PND. 10.04388
DRT MAX = -377.1414 + .0658 X 30/100 THK + .2395 X DRT MAX + .0336 X 35/105 THK + -.0245 X 30/090 HGT +
.0654 X 35/095 THK + .0397 X 30/110 HGT + -.0333 X 35/095 HGT +

Southwest Min

November-December

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

DSM	MIN	R = .89839	STANDARD ERROR = 5.77809	REDUCTION OF VARIANCE = .80711	STD. DEV. OF PND. 13.15610
DSM	MIN	= -218.7517 +	.0816 X 45/095 THK +	.3858 X DSM MIN +	.1611 X BIL MIN +
OMA	MIN	R = .89718	STANDARD ERROR = 5.39720	REDUCTION OF VARIANCE = .80492	STD. DEV. OF PND. 12.21986
OMA	MIN	= -181.6834 +	.4217 X OMA MIN +	.0642 X 45/105 THK +	.1798 X W0 MAX +
			-.0233 X 45/105 HGT +		.0259 X 40/090 HGT +
LBF	MIN	R = .81807	STANDARD ERROR = 5.76505	REDUCTION OF VARIANCE = .66923	STD. DEV. OF PND. 10.02399
LBF	MIN	= -194.9415 +	.0717 X 45/105 THK +	.4660 X LBF MIN +	
DEN	MIN	R = .86554	STANDARD ERROR = 5.05358	REDUCTION OF VARIANCE = .74916	STD. DEV. OF PND. 10.09024
DEN	MIN	= -316.8629 +	.0450 X 45/105 THK +	.3186 X DEN MIN +	.0448 X 39/105 HGT +
			.0488 X 45/115 THK +		-.0251 X 50/110 HGT +
SLC	MIN	R = .84069	STANDARD ERROR = 5.10274	REDUCTION OF VARIANCE = .70675	STD. DEV. OF PND. 9.42297
SLC	MIN	= -80.1883 +	.4573 X SLC MIN +	.0459 X 45/115 THK +	.2459 X BNO MIN +
					-.0143 X 45/125 HGT +
WMC	MIN	R = .79516	STANDARD ERROR = 6.63781	REDUCTION OF VARIANCE = .63229	STD. DEV. OF PND. 10.94637
WMC	MIN	= -59.1969 +	.4606 X WMC MIN +	.3637 X EKA MIN +	-.0546 X 49/125 HGT +
			.0377 X 45/125 THK +		.0356 X 40/120 HGT +
RNO	MIN	R = .80208	STANDARD ERROR = 5.17908	REDUCTION OF VARIANCE = .64333	STD. DEV. OF PND. 8.67204
RNO	MIN	= -68.4633 +	.4701 X RNO MIN +	.2979 X EKA MIN +	-.0312 X 49/125 HGT +
			.0317 X 45/125 THK +		.0224 X 35/115 HGT +
RBL	MIN	R = .80342	STANDARD ERROR = 3.98759	REDUCTION OF VARIANCE = .64549	STD. DEV. OF PND. 6.69723
RBL	MIN	= -1.1455 +	.4329 X RBL MIN +	.3964 X EKA MIN +	.1067 X FAT MAX +
EKA	MIN	R = .79982	STANDARD ERROR = 3.47316	REDUCTION OF VARIANCE = .63971	STD. DEV. OF PND. 5.78624
EKA	MIN	= -53.5244 +	.4400 X EKA MIN +	.0402 X 40/130 THK +	-.0163 X 48/135 HGT +
					.1717 X EKA MAX +
MKC	MIN	R = .89065	STANDARD ERROR = 5.45756	REDUCTION OF VARIANCE = .79325	STD. DEV. OF PND. 12.00268
MKC	MIN	= -266.2918 +	.0631 X 45/095 THK +	.3705 X MKC MIN +	.2204 X CPR MIN +
					.0334 X 30/090 HGT +
TOP	MIN	R = .86248	STANDARD ERROR = 5.87948	REDUCTION OF VARIANCE = .74387	STD. DEV. OF PND. 11.61735
TOP	MIN	= -242.9050 +	.0557 X 45/095 THK +	.4350 X ICT MIN +	.1888 X CPR MIN +
					.0309 X 30/090 HGT +
ICT	MIN	R = .89106	STANDARD ERROR = 4.84114	REDUCTION OF VARIANCE = .79399	STD. DEV. OF PND. 10.66605
ICT	MIN	= -95.3879 +	.0282 X 40/100 THK +	.3665 X ICT MIN +	.2162 X BIL MIN +
			-.0245 X 45/115 HGT +	.1254 X W0 MAX +	.0323 X 35/095 HGT +
DDC	MIN	R = .87731	STANDARD ERROR = 4.76637	REDUCTION OF VARIANCE = .76967	STD. DEV. OF PND. 9.93146
DDC	MIN	= -206.9959 +	.0718 X 45/105 THK +	.4664 X DDC MIN +	-.0428 X 45/105 HGT +
					.0478 X 40/100 HGT +
PUB	MIN	R = .82966	STANDARD ERROR = 5.49284	REDUCTION OF VARIANCE = .68833	STD. DEV. OF PND. 9.83893
PUB	MIN	= -113.2395 +	.1823 X CPR MIN +	.3393 X PUB MIN +	.0415 X 40/100 THK +
					.1854 X BNO MIN +
GJT	MIN	R = .89467	STANDARD ERROR = 4.09309	REDUCTION OF VARIANCE = .80043	STD. DEV. OF PND. 9.16235
GJT	MIN	= -32.1807 +	.4829 X GJT MIN +	.1413 X ELY MIN +	.0308 X 49/115 THK +
			.1775 X GJT MAX +		-.0176 X 40/120 HGT +
MLF	MIN	R = .79225	STANDARD ERROR = 6.80878	REDUCTION OF VARIANCE = .62765	STD. DEV. OF PND. 11.15821
MLF	MIN	= -25.7759 +	.4279 X ELY MIN +	-.0273 X 45/125 HGT +	.4035 X SAC MIN +
					.0361 X 45/115 THK +
ELY	MIN	R = .84237	STANDARD ERROR = 6.02202	REDUCTION OF VARIANCE = .70959	STD. DEV. OF PND. 11.17470
ELY	MIN	= -167.1914 +	.4171 X ELY MIN +	.4569 X EKA MIN +	.0471 X 40/110 HGT +
			.0686 X 35/125 THK +	-.0375 X 35/125 HGT +	-.0246 X 45/125 HGT +
SAC	MIN	R = .84305	STANDARD ERROR = 3.52599	REDUCTION OF VARIANCE = .71073	STD. DEV. OF PND. 6.55589
SAC	MIN	= -12.1066 +	.4799 X SAC MIN +	.0322 X 35/125 THK +	-.0183 X 40/130 HGT +
			-.0474 X DAY OF YR +		.2320 X EKA MIN +

SFO MIN R= .82470 STANDARD ERROR = 3.15331 REDUCTION OF VARIANCE = .68013 STD. DEV. OF PND. 5.57546
SFO MIN = -9.7074 + .4504 X SFO MIN + .2454 X EKA MIN + .0764 X BFL MAX + -.0156 X 40/130 HGT +
.0228 X 40/130 THK +

OKC MIN R= .87893 STANDARD ERROR = 4.83911 REDUCTION OF VARIANCE = .77251 STD. DEV. OF PND. 10.14582
OKC MIN = -156.6047 + .0516 X 40/100 THK + .3832 X ICT MIN + -.0228 X 40/120 HGT + .1795 X BIL MIN +
.0309 X 30/090 HGT +

AMA MIN R= .85340 STANDARD ERROR = 4.63248 REDUCTION OF VARIANCE = .72829 STD. DEV. OF PND. 8.88719
AMA MIN = -204.1672 + .0353 X 40/100 THK + .2187 X LAS MIN + .2329 X DDC MIN + -.0216 X 40/120 HGT +
.0315 X 45/105 THK + .0301 X 30/100 HGT +

ABQ MIN R= .84323 STANDARD ERROR = 4.16843 REDUCTION OF VARIANCE = .71104 STD. DEV. OF PND. 7.75456
ABQ MIN = -95.9193 + .0445 X 35/105 THK + .1674 X INW MIN + .1758 X ELY MIN + -.0556 X DAY OF YR +
.1923 X ABQ MIN +

INW MIN R= .85935 STANDARD ERROR = 4.71145 REDUCTION OF VARIANCE = .73847 STD. DEV. OF PND. 9.21291
INW MIN = 93.9126 + .6031 X INW MIN + .2049 X ELY MAX + -.0314 X 35/125 HGT + .1790 X RND MIN +

LAS MIN R= .86462 STANDARD ERROR = 3.71750 REDUCTION OF VARIANCE = .74757 STD. DEV. OF PND. 7.39913
LAS MIN = -18.0635 + .4544 X LAS MIN + .1586 X PIH MAX + .1252 X ELY MIN + -.0287 X 35/125 HGT +
BFL MIN R= .87165 STANDARD ERROR = 3.32386 REDUCTION OF VARIANCE = .75978 STD. DEV. OF PND. 6.78169
BFL MIN = -22.6068 + .5309 X BFL MIN + .2489 X EKA MIN + .1199 X BFL MAX + -.0260 X 35/125 HGT +
.0354 X 35/125 THK +

FAT MIN R= .85258 STANDARD ERROR = 3.51552 REDUCTION OF VARIANCE = .72649 STD. DEV. OF PND. 6.72704
FAT MIN = -35.1104 + .5718 X FAT MIN + .2114 X EKA MIN + -.0141 X 40/130 HGT + .0294 X 40/120 THK +

SMX MIN R= .78530 STANDARD ERROR = 4.00954 REDUCTION OF VARIANCE = .61669 STD. DEV. OF PND. 6.47621
SMX MIN = -30.4529 + .3767 X SFO MIN + .0471 X 35/125 THK + -.0104 X 40/130 HGT + .2046 X BFL MIN +
-.0219 X 30/130 HGT + .1755 X EKA MIN +

FTW MIN R= .86966 STANDARD ERROR = 5.18439 REDUCTION OF VARIANCE = .75630 STD. DEV. OF PND. 10.50205
FTW MIN = -113.1365 + .2820 X FTW MIN + .0579 X 40/100 THK + -.0403 X 35/115 HGT + .2843 X DDC MIN +
.0298 X 30/090 HGT +

MAF MIN R= .85787 STANDARD ERROR = 4.45108 REDUCTION OF VARIANCE = .73593 STD. DEV. OF PND. 8.66179
MAF MIN = -115.9019 + .3488 X MAF MIN + .0590 X 40/100 THK + -.0558 X 35/115 HGT + .0436 X 30/110 HGT +
.1712 X LAS MIN +

ELP MIN R= .82383 STANDARD ERROR = 4.57750 REDUCTION OF VARIANCE = .67869 STD. DEV. OF PND. 8.07545
ELP MIN = -90.1967 + .3218 X ELP MIN + .0478 X 35/105 THK + -.0504 X 35/115 HGT + .2100 X PHX MIN +
.0408 X 35/115 THK +

TUS MIN R= .84139 STANDARD ERROR = 4.02041 REDUCTION OF VARIANCE = .70794 STD. DEV. OF PND. 7.43928
TUS MIN = -19.7394 + .1907 X TUS MIN + .3025 X PHX MAX + -.0229 X 35/125 HGT + .0300 X 35/105 HGT +
.2564 X PHX MIN +

PHX MIN R= .86286 STANDARD ERROR = 3.67556 REDUCTION OF VARIANCE = .74452 STD. DEV. OF PND. 7.27185
PHX MIN = -68.8115 + .4862 X PHX MIN + .0401 X 35/115 THK + -.0417 X 30/120 HGT + .0289 X 35/105 HGT +

YUM MIN R= .84607 STANDARD ERROR = 3.52675 REDUCTION OF VARIANCE = .71583 STD. DEV. OF PND. 6.61588
YUM MIN = -105.2051 + .4838 X YUM MIN + .0410 X 35/115 THK + .2029 X BFL MIN +

SAN MIN R= .81852 STANDARD ERROR = 2.84678 REDUCTION OF VARIANCE = .66997 STD. DEV. OF PND. 4.95542
SAN MIN = -92.5464 + .5044 X SAN MIN + .0319 X 35/115 THK + -.0254 X 35/125 HGT + .0346 X 35/125 THK +

LAX MIN R= .78663 STANDARD ERROR = 3.25177 REDUCTION OF VARIANCE = .61878 STD. DEV. OF PND. 5.26663
LAX MIN = -78.4023 + .4669 X LAX MIN + .0336 X 35/115 THK + .0876 X BFL MAX +

SAT MIN R= .86050 STANDARD ERROR = 5.38925 REDUCTION OF VARIANCE = .74045 STD. DEV. OF PND. 10.57842
SAT MIN = -60.7823 + .0270 X 35/095 THK + .3141 X SAT MIN + -.0450 X 30/120 HGT + .2996 X AMA MIN +
.0429 X 30/090 HGT + .1698 X ELP MAX +

DRT MIN R= .87885 STANDARD ERROR = 4.40599 REDUCTION OF VARIANCE = .77238 STD. DEV. OF PND. 9.23494
DRT MIN = -106.3485 + .5016 X DRT MIN + .0547 X 35/105 THK + -.0487 X 35/115 HGT + .0379 X 35/095 HGT +
.1031 X MSO MIN +

Southeast Max

November-December

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

SBY	MAX	R= .92459	STANDARD ERROR =	4.46598	REDUCTION OF VARIANCE =	.85487	STD. DEV. OF PND,	11.72308
SBY	MAX	= -187.8447 +	.3454 X NYC	MIN +	.2782 X LOU	MAX +	.0331 X 35/065 HGT +	.0610 X 40/080 THK +
								-.0206 X 40/080 HGT +
DCA	MAX	R= .91571	STANDARD ERROR =	4.66932	REDUCTION OF VARIANCE =	.83852	STD. DEV. OF PND,	11.61966
DCA	MAX	= -53.7618 +	.4948 X NYC	MIN +	.3041 X IND	MAX +	.0393 X 40/080 THK +	-.0136 X 50/080 HGT +
CRW	MAX	R= .92435	STANDARD ERROR =	5.16786	REDUCTION OF VARIANCE =	.85443	STD. DEV. OF PND,	13.54473
CRW	MAX	= -398.2297 +	.0788 X 40/080 THK +		.3213 X MEM	MAX +	.0329 X 35/075 HGT +	.0334 X 40/090 THK +
HTS	MAX	R= .93360	STANDARD ERROR =	4.78639	REDUCTION OF VARIANCE =	.87161	STD. DEV. OF PND,	13.35809
HTS	MAX	= -387.5583 +	.0691 X 40/080 THK +		.3183 X MEM	MAX +	.0500 X 40/090 THK +	.0268 X 35/075 HGT +
LOU	MAX	R= .92948	STANDARD ERROR =	4.81819	REDUCTION OF VARIANCE =	.86392	STD. DEV. OF PND,	13.06151
LOU	MAX	= -370.7491 +	.0811 X 40/090 THK +		.0616 X 40/080 THK +		.2582 X FSM	MAX +
ORF	MAX	R= .92656	STANDARD ERROR =	4.38832	REDUCTION OF VARIANCE =	.85851	STD. DEV. OF PND,	11.66652
ORF	MAX	= -189.3229 +	-.0010 X 35/075 THK +		.2424 X BNA	MAX +	.1663 X SYR	MIN +
			-.0615 X 40/080 HGT +		.0601 X 35/075 HGT +		.1571 X ORF	MAX +
RIC	MAX	R= .91208	STANDARD ERROR =	4.96428	REDUCTION OF VARIANCE =	.83189	STD. DEV. OF PND,	12.10767
RIC	MAX	= -143.0814 +	.4707 X NYC	MIN +	.2847 X BNA	MAX +	.0619 X 40/080 THK +	-.0300 X 45/075 HGT +
			.0249 X 35/075 HGT +					
ROA	MAX	R= .91107	STANDARD ERROR =	4.92426	REDUCTION OF VARIANCE =	.83004	STD. DEV. OF PND,	11.94454
ROA	MAX	= -227.3904 +	.0745 X 40/080 THK +		.0919 X ROA	MAX +	.0405 X 35/085 HGT +	-.0292 X 45/075 HGT +
			.3358 X NYC	MIN +	.2018 X BNA	MAX +		
HAT	MAX	R= .90118	STANDARD ERROR =	4.17982	REDUCTION OF VARIANCE =	.81212	STD. DEV. OF PND,	9.64307
HAT	MAX	= -167.8870 +	.0606 X 35/075 THK +		.1879 X NYC	MIN +	.2781 X BHM	MAX +
			-.0249 X 40/080 HGT +					.0338 X 40/070 HGT +
RDU	MAX	R= .91309	STANDARD ERROR =	4.71155	REDUCTION OF VARIANCE =	.83374	STD. DEV. OF PND,	11.55505
RDU	MAX	= -149.8397 +	.0634 X 40/080 THK +		.3268 X BNA	MAX +	.3389 X NYC	MIN +
			.0287 X 35/075 HGT +					-.0314 X 45/075 HGT +
GSO	MAX	R= .90182	STANDARD ERROR =	4.94742	REDUCTION OF VARIANCE =	.81329	STD. DEV. OF PND,	11.44962
GSO	MAX	= -180.8270 +	.2737 X BNA	MAX +	.3593 X NYC	MIN +	.0712 X 35/085 THK +	-.1770 X TLM
			.1675 X GSO	MAX +				MIN +
TYS	MAX	R= .90893	STANDARD ERROR =	4.83610	REDUCTION OF VARIANCE =	.82615	STD. DEV. OF PND,	11.59858
TYS	MAX	= -273.0051 +	.1038 X 35/085 THK +		.2314 X FSM	MAX +	.2330 X TYS	MAX +
BNA	MAX	R= .91642	STANDARD ERROR =	4.96548	REDUCTION OF VARIANCE =	.83983	STD. DEV. OF PND,	12.40700
BNA	MAX	= -364.8682 +	.0692 X 40/090 THK +		.0714 X 35/085 THK +		.2679 X FSM	MAX +
MEM	MAX	R= .91191	STANDARD ERROR =	4.98529	REDUCTION OF VARIANCE =	.83158	STD. DEV. OF PND,	12.14761
MEM	MAX	= -338.8424 +	.0805 X 35/095 THK +		.3399 X MEM	MAX +	.0499 X 40/090 THK +	
LIT	MAX	R= .89537	STANDARD ERROR =	5.38087	REDUCTION OF VARIANCE =	.80168	STD. DEV. OF PND,	12.08282
LIT	MAX	= -273.0832 +	.1052 X 35/095 THK +		.2494 X ICT	MAX +	.2107 X LIT	MAX +
FSM	MAX	R= .90033	STANDARD ERROR =	5.36877	REDUCTION OF VARIANCE =	.81059	STD. DEV. OF PND,	12.33604
FSM	MAX	= -298.4176 +	.0950 X 35/095 THK +		.2997 X ICT	MAX +	.0325 X 40/100 THK +	-.0863 X DAY OF YR +
CHS	MAX	R= .89893	STANDARD ERROR =	4.39614	REDUCTION OF VARIANCE =	.80807	STD. DEV. OF PND,	10.03454
CHS	MAX	= -223.3801 +	.0427 X 40/080 THK +		.3695 X BHM	MAX +	.0489 X 35/075 HGT +	-.0448 X 40/080 HGT +
			.0442 X 35/085 THK +					
CLT	MAX	R= .89710	STANDARD ERROR =	4.83501	REDUCTION OF VARIANCE =	.80478	STD. DEV. OF PND,	10.94303
CLT	MAX	= -150.5396 +	.1605 X CMH	MAX +	.0612 X 35/085 THK +		.1731 X LIT	MAX +
			.2606 X ROA	MIN +	-.2049 X MGM	MIN +	.2264 X ATL	MAX +

AGS MAX R= .89708 STANDARD ERROR = 4.69196 REDUCTION OF VARIANCE = .80475 STD. DEV. OF PND. 10.61836
 AGS MAX = =169.8240 + .0696 X 35/085 THK + .2367 X ATL MAX + .1968 X LIT MAX + .1812 X ROA MIN +

AHN MAX R= .88794 STANDARD ERROR = 4.73682 REDUCTION OF VARIANCE = .78845 STD. DEV. OF PND. 10.29857
 AHN MAX = =157.8136 + .3496 X ATL MAX + .0644 X 35/085 THK + .2175 X LIT MAX + -.2066 X MGM MIN +
 .1968 X ROA MIN +

ATL MAX R= .89709 STANDARD ERROR = 4.64136 REDUCTION OF VARIANCE = .80478 STD. DEV. OF PND. 10.50455
 ATL MAX = =218.4584 + .0851 X 35/085 THK + .1770 X LIT MAX + .2373 X ATL MAX + .1065 X DDC MAX +

BHM MAX R= .89730 STANDARD ERROR = 4.72659 REDUCTION OF VARIANCE = .80516 STD. DEV. OF PND. 10.70790
 BHM MAX = =333.1059 + .0878 X 35/085 THK + .2541 X LIT MAX + .0425 X 35/095 THK +

JAN MAX R= .89792 STANDARD ERROR = 5.01748 REDUCTION OF VARIANCE = .80626 STD. DEV. OF PND. 11.39927
 JAN MAX = =262.8995 + .1102 X 35/095 THK + .3736 X SHV MAX + -.0381 X 35/095 HGT + .0322 X 35/085 HGT +

SHV MAX R= .89191 STANDARD ERROR = 5.15750 REDUCTION OF VARIANCE = .79550 STD. DEV. OF PND. 11.40507
 SHV MAX = =301.1378 + .1176 X 35/095 THK + .3540 X FTW MAX +

JAX MAX R= .89994 STANDARD ERROR = 3.91701 REDUCTION OF VARIANCE = .80988 STD. DEV. OF PND. 8.98350
 JAX MAX = =285.6296 + .0327 X 30/090 THK + .0091 X 35/075 THK + .2150 X MGM MAX + .0754 X 30/080 HGT +
 -.0626 X 35/085 HGT + .0671 X 35/085 THK + -.0609 X DAY OF YR +

TLH MAX R= .88914 STANDARD ERROR = 4.06375 REDUCTION OF VARIANCE = .79057 STD. DEV. OF PND. 8.87982
 TLH MAX = =212.4510 + .0401 X 35/085 THK + .2315 X JAN MAX + .1659 X JAX MIN + .0479 X 30/090 THK +

MGM MAX R= .89344 STANDARD ERROR = 4.65499 REDUCTION OF VARIANCE = .79824 STD. DEV. OF PND. 10.36329
 MGM MAX = =184.6939 + .0864 X 35/085 THK + .2230 X FTW MAX + .1871 X MOB MIN + -.0748 X DAY OF YR +

MOB MAX R= .89931 STANDARD ERROR = 4.08208 REDUCTION OF VARIANCE = .80875 STD. DEV. OF PND. 9.33437
 MOB MAX = =266.9868 + .0657 X 35/085 THK + .2455 X HOU MAX + .0402 X 30/100 THK + .1500 X MOB MIN +

MSY MAX R= .89252 STANDARD ERROR = 4.35950 REDUCTION OF VARIANCE = .79660 STD. DEV. OF PND. 9.66624
 MSY MAX = =260.2023 + .0622 X 30/090 THK + .2326 X FTW MAX + .2562 X MOB MIN + .0397 X 30/100 THK +

LCH MAX R= .88755 STANDARD ERROR = 4.53470 REDUCTION OF VARIANCE = .78774 STD. DEV. OF PND. 9.84281
 LCH MAX = =259.0002 + .0699 X 30/100 THK + .2627 X SHV MAX + .1856 X LCH MIN + .0322 X 35/095 THK +

HOU MAX R= .88782 STANDARD ERROR = 4.67077 REDUCTION OF VARIANCE = .78822 STD. DEV. OF PND. 10.14962
 HOU MAX = =318.2437 + .1222 X 30/100 THK + .2455 X HOU MAX + .1541 X OBC MAX +

CRP MAX R= .88698 STANDARD ERROR = 4.72682 REDUCTION OF VARIANCE = .78673 STD. DEV. OF PND. 10.23531
 CRP MAX = =175.4802 + .1126 X 30/100 THK + .1926 X CRP MAX + .1372 X DDC MAX + -.0379 X 30/090 HGT +
 .2012 X BRO MIN +

BRO MAX R= .88561 STANDARD ERROR = 4.23293 REDUCTION OF VARIANCE = .78430 STD. DEV. OF PND. 9.11416
 BRO MAX = =202.2320 + .1026 X 30/100 THK + .2731 X SAT MAX + .1784 X BRO MIN + -.0478 X 30/100 HGT +
 .0300 X 30/110 HGT +

ORL MAX R= .89114 STANDARD ERROR = 3.60639 REDUCTION OF VARIANCE = .79412 STD. DEV. OF PND. 7.94818
 ORL MAX = =287.5948 + .2653 X ORL MIN + .0484 X 30/090 THK + .0529 X 30/080 THK + .0156 X 35/075 HGT +

TPA MAX R= .90650 STANDARD ERROR = 3.19957 REDUCTION OF VARIANCE = .82174 STD. DEV. OF PND. 7.57815
 TPA MAX = =185.1160 + .1349 X ORL MIN + .0511 X 30/090 THK + .0230 X 35/075 HGT + .3302 X EYW MIN +
 .1202 X TLH MAX +

MIA MAX R= .88296 STANDARD ERROR = 2.51430 REDUCTION OF VARIANCE = .77962 STD. DEV. OF PND. 5.35589
 MIA MAX = =132.0582 + .3912 X EYW MIN + .0603 X 30/080 THK + .1200 X TLH MAX + -.0952 X RDU MIN +

EYW MAX R= .89448 STANDARD ERROR = 2.45692 REDUCTION OF VARIANCE = .80010 STD. DEV. OF PND. 5.49523
 EYW MAX = =150.1797 + .5101 X EYW MIN + .0481 X 25/085 THK + .0168 X 35/075 THK +

Southeast Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN: TEMPERATURES IN DEGREES FAHRENHEIT.

SBY MIN R= .86597 STANDARD ERROR = 5.34350 REDUCTION OF VARIANCE = .74922 STD. DEV. OF PND. 10.67027
 SBY MIN = -118.7568 + .1965 X BNA MIN + .0201 X 45/075 THK + .0267 X 35/065 HGT + .2417 X CMH MIN +
 .0345 X 40/080 THK + -.0317 X 30/090 HGT +

DCA MIN R= .89414 STANDARD ERROR = 4.14694 REDUCTION OF VARIANCE = .79949 STD. DEV. OF PND. 9.26096
 DCA MIN = -90.1846 + .1836 X PIT MIN + .0373 X 40/080 THK + .2637 X DCA MIN + .1585 X PIA MIN +

CRW MIN R= .85099 STANDARD ERROR = 5.89291 REDUCTION OF VARIANCE = .72419 STD. DEV. OF PND. 11.22083
 CRW MIN = -126.6490 + .3876 X STL MIN + .0516 X 40/080 THK + .2735 X BNA MIN + -.4157 X HTS MAX +
 .4428 X CRW MAX + -.1906 X AHN MAX +

HTS MIN R= .86037 STANDARD ERROR = 5.50360 REDUCTION OF VARIANCE = .74024 STD. DEV. OF PND. 10.79840
 HTS MIN = -173.0796 + .3430 X BNA MIN + .3102 X CBI MIN + .0388 X 40/080 THK + -.2429 X PIA MAX +
 .0514 X 40/090 THK + -.0210 X 40/090 HGT +

LOU MIN R= .86573 STANDARD ERROR = 6.65278 REDUCTION OF VARIANCE = .74950 STD. DEV. OF PND. 11.29418
 LOU MIN = -91.6992 + .3342 X STL MIN + .0615 X 40/090 THK + -.0225 X 40/100 HGT + .1882 X LOU MIN +

ORF MIN R= .89271 STANDARD ERROR = 4.41849 REDUCTION OF VARIANCE = .79693 STD. DEV. OF PND. 9.80513
 ORF MIN = -174.7527 + .0419 X 40/080 THK + .2665 X ORF MIN + .2851 X LOU MIN + .0242 X 35/065 HGT +

RIC MIN R= .89595 STANDARD ERROR = 4.59232 REDUCTION OF VARIANCE = .80273 STD. DEV. OF PND. 10.33953
 RIC MIN = -139.3706 + .0530 X 40/080 THK + .1999 X RIC MIN + .3028 X LOU MIN + .0212 X 35/065 HGT +
 -.0196 X 35/095 HGT +

ROA MIN R= .87741 STANDARD ERROR = 4.85802 REDUCTION OF VARIANCE = .76985 STD. DEV. OF PND. 10.12648
 ROA MIN = -136.9302 + .3221 X LOU MIN + .0534 X 40/080 THK + .2210 X ROA MIN +

HAT MIN R= .87815 STANDARD ERROR = 4.68631 REDUCTION OF VARIANCE = .77114 STD. DEV. OF PND. 9.79594
 HAT MIN = -115.4365 + .0079 X 40/080 THK + .2537 X HAT MIN + .0356 X 35/065 HGT + .1717 X LOU MIN +
 .0413 X 35/085 THK + -.0271 X 35/095 HGT + -.0751 X DAY OF YR +

RDU MIN R= .90017 STANDARD ERROR = 4.66707 REDUCTION OF VARIANCE = .81031 STD. DEV. OF PND. 10.71567
 RDU MIN = -102.3952 + .3606 X BNA MIN + .0517 X 40/080 THK + .1649 X RDU MIN + -.0290 X 30/100 HGT +
 .0201 X 35/065 HGT +

GSO MIN R= .89336 STANDARD ERROR = 4.73639 REDUCTION OF VARIANCE = .79809 STD. DEV. OF PND. 10.54070
 GSO MIN = -47.3521 + .3632 X BNA MIN + .0516 X 40/080 THK + .2160 X GSO MIN + -.0276 X 30/100 HGT +

TYS MIN R= .86415 STANDARD ERROR = 5.08767 REDUCTION OF VARIANCE = .74676 STD. DEV. OF PND. 10.11003
 TYS MIN = -128.5353 + .3616 X BNA MIN + .0305 X 40/090 THK + .2388 X BHM MIN + .0177 X 35/075 HGT +

BNA MIN R= .86734 STANDARD ERROR = 6.69141 REDUCTION OF VARIANCE = .75228 STD. DEV. OF PND. 11.43515
 BNA MIN = -128.2549 + .3089 X MEM MIN + .0725 X 40/090 THK + -.2177 X DSM MAX + .3284 X MKC MIN +
 -.0199 X 45/105 HGT +

MEM MIN R= .86424 STANDARD ERROR = 5.67084 REDUCTION OF VARIANCE = .74691 STD. DEV. OF PND. 11.27223
 MEM MIN = -84.4320 + .0692 X 40/090 THK + .4574 X FSM MIN + -.0299 X 40/110 HGT +

LII MIN R= .86653 STANDARD ERROR = 5.32610 REDUCTION OF VARIANCE = .75088 STD. DEV. OF PND. 10.67095
 LII MIN = -96.8700 + .3655 X FSM MIN + .0587 X 35/095 THK + .2176 X MKC MIN + -.0185 X 40/110 HGT +

FSM MIN R= .86845 STANDARD ERROR = 5.19354 REDUCTION OF VARIANCE = .75421 STD. DEV. OF PND. 10.47599
 FSM MIN = 23.9309 + .3707 X OKC MIN + .0326 X 40/090 HGT + -.0369 X 40/110 HGT + .2260 X DEN MIN +
 .2334 X FSM MIN +

CHS MIN R= .88477 STANDARD ERROR = 5.01207 REDUCTION OF VARIANCE = .78282 STD. DEV. OF PND. 10.75482
 CHS MIN = -123.0292 + .3354 X BHM MIN + .0560 X 35/085 THK + .0322 X 35/065 HGT + -.0378 X 30/100 HGT +
 .1787 X CHS MIN +

CLT MIN R= .89469 STANDARD ERROR = 4.65891 REDUCTION OF VARIANCE = .80047 STD. DEV. OF PND. 10.42985
 CLT MIN = -197.8417 + .3481 X BHM MIN + .0527 X 35/085 THK + .0204 X 40/070 HGT + .1958 X ROA MIN +

AGS	MIN	R = .87509	STANDARD ERROR = 5.24877	REDUCTION OF VARIANCE = .76579	STD. DEV. OF PND. 10.84654
AGS	MIN	= -82.7597 + .4152 X BHM MIN + .037A X 35/085 THK + .2144 X AGS MIN + -.0262 X 35/095 HGT + .0219 X 35/075 HGT +			
AHN	MIN	R = .89341	STANDARD ERROR = 4.67057	REDUCTION OF VARIANCE = .79818	STD. DEV. OF PND. 10.39662
AHN	MIN	= -146.3245 + .5877 X BHM MIN + .0557 X 35/085 THK +			
ATL	MIN	R = .89823	STANDARD ERROR = 4.38138	REDUCTION OF VARIANCE = .80682	STD. DEV. OF PND. 9.96839
ATL	MIN	= -159.9034 + .0237 X 35/085 THK + .2660 X BHM MIN + .1899 X LIT MIN + .0438 X 35/095 THK + .0262 X 35/075 HGT + -.0307 X 30/100 HGT +			
BHM	MIN	R = .86954	STANDARD ERROR = 5.46299	REDUCTION OF VARIANCE = .75610	STD. DEV. OF PND. 11.06183
BHM	MIN	= -107.3822 + .2718 X JAN MIN + .0128 X 40/090 THK + -.0409 X 35/105 HGT + .0317 X 35/075 HGT + .2174 X FSM MIN + .0407 X 35/095 THK +			
JAN	MIN	R = .86996	STANDARD ERROR = 5.54788	REDUCTION OF VARIANCE = .75683	STD. DEV. OF PND. 11.25047
JAN	MIN	= -124.0234 + .0568 X 35/095 THK + .3437 X SHV MIN + -.0438 X 35/105 HGT + .0358 X 30/080 HGT + .2248 X OKC MIN +			
SHV	MIN	R = .85685	STANDARD ERROR = 5.53467	REDUCTION OF VARIANCE = .73420	STD. DEV. OF PND. 10.73528
SHV	MIN	= -139.3063 + .0796 X 35/095 THK + .4358 X FTW MIN + -.0225 X 40/110 HGT +			
JAX	MIN	R = .89085	STANDARD ERROR = 4.72860	REDUCTION OF VARIANCE = .79361	STD. DEV. OF PND. 10.40843
JAX	MIN	= -167.1559 + .0012 X 35/085 THK + .3488 X TLH MIN + .0443 X 35/075 HGT + .0882 X 30/090 THK + -.0638 X 25/095 HGT +			
TLH	MIN	R = .88523	STANDARD ERROR = 5.08120	REDUCTION OF VARIANCE = .78363	STD. DEV. OF PND. 10.92363
TLH	MIN	= -169.0530 + .1520 X MOB MIN + .0432 X 35/075 HGT + .0795 X 30/090 THK + .2931 X TLH MIN + -.0553 X 25/095 HGT +			
MGM	MIN	R = .86254	STANDARD ERROR = 5.27436	REDUCTION OF VARIANCE = .74397	STD. DEV. OF PND. 10.42383
MGM	MIN	= -116.6861 + .4520 X JAN MIN + .0311 X 30/090 THK + .0299 X 35/075 HGT + -.0428 X 30/100 HGT + .0301 X 35/095 THK +			
MOB	MIN	R = .87805	STANDARD ERROR = 5.08183	REDUCTION OF VARIANCE = .77097	STD. DEV. OF PND. 10.61871
MOB	MIN	= -194.0274 + .0320 X 30/090 THK + .3898 X LCH MIN + .0656 X 35/095 THK + -.0491 X 30/100 HGT + .0285 X 35/075 HGT +			
MSY	MIN	R = .86106	STANDARD ERROR = 5.06485	REDUCTION OF VARIANCE = .74143	STD. DEV. OF PND. 9.96038
MSY	MIN	= -174.6952 + .2978 X MSY MIN + .0606 X 35/095 THK + .0356 X 30/080 HGT + -.0286 X 35/105 HGT + .1916 X HOU MIN +			
LCH	MIN	R = .85838	STANDARD ERROR = 5.18427	REDUCTION OF VARIANCE = .73681	STD. DEV. OF PND. 10.10548
LCH	MIN	= -44.9778 + .3919 X HOU MIN + .0531 X 35/095 THK + -.0287 X 40/110 HGT + .1887 X OKC MIN +			
HOU	MIN	R = .86445	STANDARD ERROR = 5.12128	REDUCTION OF VARIANCE = .74727	STD. DEV. OF PND. 10.18709
HOU	MIN	= -121.1924 + .0432 X 35/095 THK + .3121 X CRP MIN + -.0292 X 40/110 HGT + .3074 X AMA MIN + .0346 X 30/090 HGT +			
CRP	MIN	R = .87286	STANDARD ERROR = 5.01892	REDUCTION OF VARIANCE = .76188	STD. DEV. OF PND. 10.28522
CRP	MIN	= -180.9942 + -.0034 X 35/095 THK + .3594 X CRP MIN + -.0441 X 40/110 HGT + .0617 X 35/105 THK + .0549 X 30/090 HGT + .2376 X DDC MIN +			
BRO	MIN	R = .87559	STANDARD ERROR = 4.65087	REDUCTION OF VARIANCE = .76667	STD. DEV. OF PND. 9.62820
BRO	MIN	= -160.9267 + .0241 X 30/100 THK + .3251 X CRP MIN + -.0418 X 40/110 HGT + .1691 X ODC MIN + .0403 X 30/090 HGT + .0427 X 35/105 THK +			
ORL	MIN	R = .90154	STANDARD ERROR = 4.00851	REDUCTION OF VARIANCE = .81277	STD. DEV. OF PND. 9.26392
ORL	MIN	= -100.4819 + .5210 X ORL MIN + .0714 X 30/090 THK + .0456 X 35/075 HGT + -.0470 X 25/095 HGT + -.0266 X 35/075 THK +			
TPA	MIN	R = .89367	STANDARD ERROR = 4.15777	REDUCTION OF VARIANCE = .79865	STD. DEV. OF PND. 9.26574
TPA	MIN	= -132.8049 + .4513 X TPA MIN + .0670 X 30/090 THK + .0391 X 35/075 HGT + -.0495 X 25/095 HGT +			
MIA	MIN	R = .88623	STANDARD ERROR = 3.78543	REDUCTION OF VARIANCE = .78540	STD. DEV. OF PND. 8.17150
MIA	MIN	= -128.5535 + .4987 X MIA MIN + .0693 X 30/080 HGT + -.0557 X 25/095 HGT + .0120 X 25/095 THK +			
EYW	MIN	R = .90670	STANDARD ERROR = 2.43945	REDUCTION OF VARIANCE = .82211	STD. DEV. OF PND. 5.78380
EYW	MIN	= -60.2502 + .4671 X EYW MIN + .0290 X 30/090 THK + .0279 X 30/080 HGT + -.0294 X 25/095 HGT + .2061 X MIA MAX +			

Northeast Max

November-December

HGT: (700MM HEIGHT) IN METERS THK1 (700MM HEIGHT - 1000MM HEIGHT) IN METERS. MAX: MINI TEMPERATURES IN DEGREES FAHRENHEIT.

CAR	MAX	R= .91465	STANDARD ERROR = 4.97147	REDUCTION OF VARIANCE = .83697	STD. DEV. OF PND. 12.31260
CAR	MAX	= -235.0736 + .0930 X 50/070 THK + .4187 X QB	MAX +	-.0407 X 50/070 HGT + .0389 X 45/065 HGT +	
SSV	MAX	R= .93662	STANDARD ERROR = 3.94680	REDUCTION OF VARIANCE = .87727	STD. DEV. OF PND. 11.26579
SSV	MAX	= -113.1828 + .0614 X 45/085 THK + -.1043 X DAY OF YR + .2239 X 55M	MIN +	.1848 X QT	MAX +
PWK	MAX	R= .90385	STANDARD ERROR = 4.73451	REDUCTION OF VARIANCE = .81695	STD. DEV. OF PND. 11.06589
PWK	MAX	= -73.2705 + .4249 X BOS	MIN +	.2992 X YR	MAX + .0327 X 45/065 THK +
RTV	MAX	R= .93702	STANDARD ERROR = 4.44184	REDUCTION OF VARIANCE = .87801	STD. DEV. OF PND. 12.71763
RTV	MAX	= -124.2848 + .3574 X YR	MAX +	.4006 X BOS	MIN + .0496 X 45/075 THK +
SYR	MAX	R= .94004	STANDARD ERROR = 4.31359	REDUCTION OF VARIANCE = .88367	STD. DEV. OF PND. 12.64711
SYR	MAX	= -199.2992 + .0558 X 45/075 THK + .2919 X GR	MAX +	.2952 X SYR	MIN + .0218 X 40/070 HGT +
HUF	MAX	R= .94627	STANDARD ERROR = 4.00171	REDUCTION OF VARIANCE = .89542	STD. DEV. OF PND. 12.37423
HUF	MAX	= -254.1271 + .0577 X 45/075 THK + .2029 X IND	MAX +	.0508 X 45/085 THK + .0393 X 40/080 HGT +	
					-.0357 X 45/085 HGT + -.0894 X DAY OF YR +
DET	MAX	R= .94541	STANDARD ERROR = 3.95359	REDUCTION OF VARIANCE = .89380	STD. DEV. OF PND. 12.13167
DET	MAX	= -232.1276 + .0696 X 45/085 THK + .2324 X PIA	MAX +	-.1101 X DAY OF YR + .0374 X 40/080 THK +	
FNT	MAX	R= .93984	STANDARD ERROR = 4.25583	REDUCTION OF VARIANCE = .88331	STD. DEV. OF PND. 12.45835
FNT	MAX	= -212.7527 + .0974 X 45/085 THK + .3038 X CHI	MAX +	-.0943 X DAY OF YR +	
GRR	MAX	R= .93553	STANDARD ERROR = 4.26121	REDUCTION OF VARIANCE = .87522	STD. DEV. OF PND. 12.06317
GRR	MAX	= -199.6102 + .0934 X 45/085 THK + .2694 X MLI	MAX +	-.0964 X DAY OF YR +	
MKE	MAX	R= .93567	STANDARD ERROR = 4.53109	REDUCTION OF VARIANCE = .87548	STD. DEV. OF PND. 12.84067
MKE	MAX	= -265.9056 + .0737 X 45/085 THK + .2338 X MLI	MAX +	.0442 X 45/095 THK +	-.1044 X DAY OF YR +
GRB	MAX	R= .94038	STANDARD ERROR = 4.29679	REDUCTION OF VARIANCE = .88431	STD. DEV. OF PND. 12.63263
GRB	MAX	= -191.1127 + .0639 X 45/085 THK + .1432 X FAR	MAX +	-.1190 X DAY OF YR + .0285 X 45/095 THK +	
					.1924 X GRB
MSN	MAX	R= .92464	STANDARD ERROR = 4.77394	REDUCTION OF VARIANCE = .87355	STD. DEV. OF PND. 13.42503
MSN	MAX	= -270.7444 + .2393 X MLI	MAX +	.0650 X 45/095 THK + .0573 X 45/085 THK +	-.1312 X DAY OF YR +
ACK	MAX	R= .91099	STANDARD ERROR = 3.68388	REDUCTION OF VARIANCE = .82990	STD. DEV. OF PND. 8.93215
ACK	MAX	= -111.2431 + .3295 X BOS	MIN +	.0616 X 40/070 THK +	-.0863 X DAY OF YR +
BOS	MAX	R= .91237	STANDARD ERROR = 4.64450	REDUCTION OF VARIANCE = .83242	STD. DEV. OF PND. 11.34575
BOS	MAX	= -146.4450 + .4808 X BOS	MIN +	.2454 X DET	MAX + .0279 X 35/065 HGT + .0286 X 45/065 THK +
HFD	MAX	R= .90440	STANDARD ERROR = 5.10090	REDUCTION OF VARIANCE = .81795	STD. DEV. OF PND. 11.95468
HFD	MAX	= 7.9436 + .0903 X BOS	MIN +	.3410 X DET	MAX +
ALB	MAX	R= .92982	STANDARD ERROR = 4.40440	REDUCTION OF VARIANCE = .86456	STD. DEV. OF PND. 11.96775
ALB	MAX	= -89.6175 + .5205 X BOS	MIN +	.2942 X FNT	MAX + .0766 X 45/075 THK +
NYC	MAX	R= .92181	STANDARD ERROR = 4.26048	REDUCTION OF VARIANCE = .84973	STD. DEV. OF PND. 10.99068
NYC	MAX	= -77.6324 + .4660 X BOS	MIN +	.2948 X IND	MAX + .0339 X 40/070 THK +
PHL	MAX	R= .92191	STANDARD ERROR = 4.49917	REDUCTION OF VARIANCE = .84881	STD. DEV. OF PND. 11.57088
PHL	MAX	= -75.0720 + .5561 X NYC	MIN +	.2801 X IND	MAX + .0317 X 40/070 THK +

IPT MAX R= .92577 STANDARD ERROR = 4.18658 REDUCTION OF VARIANCE = .85742 STD. DEV. OF PND. 11.08728
 IPT MAX = 6.4710 + .6465 X NYC MIN + .1460 X MSN MAX + .1797 X CMH MAX +
 PIT MAX R= .93956 STANDARD ERROR = 4.58039 REDUCTION OF VARIANCE = .88278 STD. DEV. OF PND. 13.37830
 PIT MAX = -313.0205 + .1210 X 40/080 THK + .3112 X PIA MAX +
 CLF MAX R= .94380 STANDARD ERROR = 4.36761 REDUCTION OF VARIANCE = .89076 STD. DEV. OF PND. 13.21460
 CLF MAX = -323.6507 + .0729 X 40/080 THK + .2773 X PIA MAX + .0527 X 45/085 THK +
 CMH MAX R= .93872 STANDARD ERROR = 4.41484 REDUCTION OF VARIANCE = .89120 STD. DEV. OF PND. 13.38924
 CMH MAX = -323.6329 + .0818 X 40/080 THK + .3283 X PIA MAX + .0431 X 40/090 THK +
 DAY MAX R= .94255 STANDARD ERROR = 4.43220 REDUCTION OF VARIANCE = .88840 STD. DEV. OF PND. 13.26761
 DAY MAX = -340.2982 + .0695 X 40/080 THK + .0612 X 40/020 THK + .2978 X PIA MAX +
 CVA MAX R= .93917 STANDARD ERROR = 4.55019 REDUCTION OF VARIANCE = .88205 STD. DEV. OF PND. 13.24889
 CVA MAX = -355.5721 + .0685 X 40/080 THK + .0685 X 40/090 THK + .2645 X STL MAX +
 INO MAX R= .93708 STANDARD ERROR = 4.81383 REDUCTION OF VARIANCE = .87813 STD. DEV. OF PND. 13.78913
 INO MAX = -317.8042 + .0809 X 40/090 THK + .3488 X PIA MAX + .0421 X 45/085 THK +
 CHT MAX R= .92834 STANDARD ERROR = 4.99756 REDUCTION OF VARIANCE = .86181 STD. DEV. OF PND. 13.44388
 CHT MAX = -200.7666 + .0792 X 40/090 THK + .3100 X MLI MAX + .2397 X DLH MIN +
 PIA MAX R= .93974 STANDARD ERROR = 4.83551 REDUCTION OF VARIANCE = .88123 STD. DEV. OF PND. 14.03095
 PIA MAX = -299.8867 + .0938 X 40/090 THK + .2564 X MLI MAX + .0373 X 45/095 THK + -.1183 X DAY OF YR +
 MLI MAX R= .93895 STANDARD ERROR = 4.95301 REDUCTION OF VARIANCE = .88164 STD. DEV. OF PND. 14.39652
 MLI MAX = -307.7080 + .0640 X 45/095 THK + .2516 X MLI MAX + .0716 X 40/090 THK + -.1323 X DAY OF YR +
 STL MAX R= .92909 STANDARD ERROR = 5.19110 REDUCTION OF VARIANCE = .86320 STD. DEV. OF PND. 14.03517
 STL MAX = -303.6829 + .0866 X 40/090 THK + .2222 X TOP MAX + .2642 X STL MIN + .0302 X 40/100 THK +
 CRT MAX R= .91597 STANDARD ERROR = 5.79509 REDUCTION OF VARIANCE = .83901 STD. DEV. OF PND. 14.44306
 CRT MAX = -420.8142 + .0884 X 40/090 THK + .0769 X 40/100 THK + .2845 X TOP MAX +

Northeast Min

HGT: (700MB HEIGHT) IN METERS THK: (700MB HEIGHT - 1000MB HEIGHT) IN METERS. MAX, MIN TEMPERATURES IN DEGREES FAHRENHEIT.

CAR MIN R= .88980 STANDARD ERROR = 6.40373 REDUCTION OF VARIANCE = .79174 STD. DEV. OF PND. 14.03227
 CAR MIN = -190.5698 + .0718 X 50/070 THK + .4137 X QB MIN + .2578 X YB MIN +
 SSM MIN R= .87869 STANDARD ERROR = 6.21114 REDUCTION OF VARIANCE = .77210 STD. DEV. OF PND. 13.01052
 SSM MIN = -215.7832 + .4889 X SSM MIN + .0423 X 50/090 THK +
 PWM MIN R= .87967 STANDARD ERROR = 5.81225 REDUCTION OF VARIANCE = .77382 STD. DEV. OF PND. 12.22125
 PWM MIN = -141.9838 + .0480 X 45/075 THK + .3496 X PWM MIN + .0227 X 40/060 HGT + .2593 X SSM MIN +
 -.0175 X 45/085 HGT +
 RTV MIN R= .88989 STANDARD ERROR = 6.23702 REDUCTION OF VARIANCE = .79190 STD. DEV. OF PND. 13.67219
 RTV MIN = -35.1943 + .1346 X YR MIN + .0175 X 45/075 THK + .2601 X BTV MIN + .3664 X SSM MIN +
 -.0245 X 45/095 HGT + .0223 X 45/065 HGT +
 SYR MIN R= .88850 STANDARD ERROR = 5.48562 REDUCTION OF VARIANCE = .78943 STD. DEV. OF PND. 11.95448
 SYR MIN = -122.3768 + .2937 X SSM MIN + .3234 X SYR MIN + .0541 X 45/085 THK + -.0256 X 45/085 HGT +
 .0193 X 40/070 HGT +
 BUF MIN R= .89233 STANDARD ERROR = 4.95022 REDUCTION OF VARIANCE = .79626 STD. DEV. OF PND. 10.96692
 BUF MIN = -160.1161 + .0631 X 45/085 THK + .2473 X BUF MIN + .2520 X SSM MIN +

DET MIN R = .90150 STANDARD ERROR = 4.64733 REDUCTION OF VARIANCE = .81270 STD. DEV. OF PND. 10.73840
 DET MIN = -159.1794 + .0617 X 45/085 THK + .3102 X DET MIN + .2193 X MKC MIN +
 FNT MIN R = .87341 STANDARD ERROR = 5.74074 REDUCTION OF VARIANCE = .76284 STD. DEV. OF PND. 11.78828
 FNT MIN = -177.2856 + .0689 X 45/085 THK + .3377 X FNT MIN + .1293 X INL MIN +
 GRH MIN R = .86511 STANDARD ERROR = 5.51406 REDUCTION OF VARIANCE = .74841 STD. DEV. OF PND. 10.99320
 GRH MIN = -151.9114 + .0599 X 45/085 THK + .3149 X GRH MIN + .1739 X FAR MIN +
 MKE MIN R = .89922 STANDARD ERROR = 5.49520 REDUCTION OF VARIANCE = .80860 STD. DEV. OF PND. 12.56053
 MKE MIN = -104.3091 + .2904 X MKE MIN + .0635 X 45/095 THK + .2757 X MSP MIN + -.0203 X 40/110 HGT +
 GRB MIN R = .89515 STANDARD ERROR = 6.04576 REDUCTION OF VARIANCE = .80129 STD. DEV. OF PND. 13.56246
 GRB MIN = -33.6290 + .3532 X GRB MIN + .0590 X 45/095 THK + .1923 X FAR MIN + -.0282 X 40/110 HGT +
 -.1048 X DAY OF YR +
 MSN MIN R = .88663 STANDARD ERROR = 6.20694 REDUCTION OF VARIANCE = .78611 STD. DEV. OF PND. 13.42098
 MSN MIN = -102.7625 + .0646 X 45/095 THK + .3522 X MSN MIN + .2348 X FAR MIN + -.0223 X 40/110 HGT +
 ACK MIN R = .87203 STANDARD ERROR = 4.68213 REDUCTION OF VARIANCE = .76043 STD. DEV. OF PND. 9.56604
 ACK MIN = -112.2892 + .0421 X 45/075 THK + .2373 X ACK MIN + .0199 X 40/060 HGT + .2094 X SSM MIN +
 -.0146 X 40/090 HGT +
 BOS MIN R = .90781 STANDARD ERROR = 4.42833 REDUCTION OF VARIANCE = .82412 STD. DEV. OF PND. 10.55925
 BOS MIN = -159.8653 + .0454 X 45/075 THK + .2571 X BOS MIN + .2620 X SSM MIN + .0171 X 40/060 HGT +
 HFD MIN R = .87439 STANDARD ERROR = 5.60416 REDUCTION OF VARIANCE = .76456 STD. DEV. OF PND. 11.54970
 HFD MIN = -121.7868 + .0443 X 45/075 THK + .3184 X HFD MIN + .3124 X DET MIN + .0292 X 40/070 HGT +
 -.0270 X 40/090 HGT +
 ALB MIN R = .86909 STANDARD ERROR = 6.16747 REDUCTION OF VARIANCE = .75532 STD. DEV. OF PND. 12.46833
 ALB MIN = -135.8331 + .0520 X 45/075 THK + .3746 X SYR MIN + .2556 X SSM MIN +
 NYC MIN R = .91339 STANDARD ERROR = 4.10281 REDUCTION OF VARIANCE = .83428 STD. DEV. OF PND. 10.07855
 NYC MIN = -132.1455 + .3094 X DET MIN + .2080 X YR MIN + .0396 X 40/080 THK + .0141 X 40/060 HGT +
 PHL MIN R = .88626 STANDARD ERROR = 4.55386 REDUCTION OF VARIANCE = .78546 STD. DEV. OF PND. 9.83155
 PHL MIN = -7.7277 + .0837 X PIT MIN + .1559 X SSM MIN + .0225 X 40/070 HGT + .2414 X PHL MIN +
 .2504 X DAY MIN + -.0162 X 40/090 HGT +
 IPT MIN R = .86775 STANDARD ERROR = 5.34921 REDUCTION OF VARIANCE = .75298 STD. DEV. OF PND. 10.76282
 IPT MIN = -88.7129 + .3290 X CMH MIN + .2393 X SSM MIN + .2138 X ALB MIN + .0369 X 40/080 THK +
 -.1692 X ROA MAX +
 PIT MIN R = .88976 STANDARD ERROR = 5.19134 REDUCTION OF VARIANCE = .79167 STD. DEV. OF PND. 11.37375
 PIT MIN = -184.8605 + .4745 X IND MIN + .0543 X 45/085 THK + .0163 X 40/070 HGT +
 CLE MIN R = .89866 STANDARD ERROR = 5.00604 REDUCTION OF VARIANCE = .80758 STD. DEV. OF PND. 11.41228
 CLE MIN = -143.8864 + .3619 X PIA MIN + .0564 X 45/085 THK + .2025 X CLE MIN +
 CMH MIN R = .88409 STANDARD ERROR = 5.60448 REDUCTION OF VARIANCE = .78162 STD. DEV. OF PND. 11.99311
 CMH MIN = -39.5389 + .4378 X IND MIN + .0409 X 45/085 THK + .2534 X MKC MIN + -.0220 X 40/100 HGT +
 DAY MIN R = .89646 STANDARD ERROR = 5.35637 REDUCTION OF VARIANCE = .80363 STD. DEV. OF PND. 12.08754
 DAY MIN = -182.0009 + .2976 X PIA MIN + .0687 X 40/090 THK + .2473 X DAY MIN +
 CVG MIN R = .89170 STANDARD ERROR = 5.34878 REDUCTION OF VARIANCE = .79513 STD. DEV. OF PND. 11.81718
 CVG MIN = -171.6818 + .4005 X PIA MIN + .0703 X 40/090 THK + .0166 X 40/070 HGT + -.0192 X 40/100 HGT +

IND MIN R= .87847 STANDARD ERROR = 5.03119 REDUCTION OF VARIANCE = .77171 STD. DEV. OF PND. 12.20430
 IND MIN = -195.7231 + .4672 X PIA MIN + .0741 X 40/090 THK +
 CHI MIN R= .88977 STANDARD ERROR = 5.99828 REDUCTION OF VARIANCE = .79169 STD. DEV. OF PND. 13.14217
 CHI MIN = -87.4528 + .4170 X CHI MIN + .0633 X 45/095 THK + -.0258 X 40/110 HGT + .2064 X HON MIN +
 PIA MIN R= .90386 STANDARD ERROR = 5.45263 REDUCTION OF VARIANCE = .81697 STD. DEV. OF PND. 12.74514
 PIA MIN = -112.9523 + -.1152 X CBI MIN + .0676 X 45/095 THK + -.0223 X 40/110 HGT + .4016 X MKC MIN +
 .3140 X PIA MIN +
 MLI MIN R= .89838 STANDARD ERROR = 5.86810 REDUCTION OF VARIANCE = .80709 STD. DEV. OF PND. 13.36052
 MLI MIN = -125.9735 + .0726 X 45/095 THK + .3574 X MLI MIN .2261 X HON MIN + -.0214 X 40/110 HGT +
 STL MIN R= .90671 STANDARD ERROR = 4.90961 REDUCTION OF VARIANCE = .82213 STD. DEV. OF PND. 11.64103
 STL MIN = -148.8574 + .3319 X CBI MIN + .0542 X 45/095 THK + -.0201 X 40/110 HGT + .0249 X 35/085 HGT +
 .1773 X HON MIN +
 CBI MIN R= .89477 STANDARD ERROR = 5.48651 REDUCTION OF VARIANCE = .80061 STD. DEV. OF PND. 12.28689
 CBI MIN = -272.1152 + .0754 X 45/095 THK + .4372 X MKC MIN + .0248 X 35/085 HGT +

(Continued from inside front cover)

- WBTM TDL 16 Objective Visibility Forecasting Techniques Based on Surface and Tower Observations. Donald M. Gales, October 1968. (PB-180 479)
- WBTM TDL 17 Second Interim Report on Sea and Swell Forecasting. N. A. Pore and Lt. W. S. Richardson, USESSA, January 1969. (PB-182 273)
- WBTM TDL 18 Conditional Probabilities of Precipitation Amounts in the Conterminous United States. Donald L. Jorgensen, William H. Klein, and Charles F. Roberts, March 1969. (PB-183 144)
- WBTM TDL 19 An Operationally Oriented Small-Scale 500-Millibar Height Analysis. Harry R. Glahn and George W. Hollenbaugh, March 1969.
- WBTM TDL 20 A Comparison of Two Methods of Reducing Truncation Error. Robert J. Bermowitz, May 1969. (PB-184 741)
- WBTM TDL 21 Automatic Decoding of Hourly Weather Reports. George W. Hollenbaugh, Harry R. Glahn, and Dale A. Lowry, July 1969. (PB-185 806)
- WBTM TDL 22 An Operationally Oriented Objective Analysis Program. Harry R. Glahn, George W. Hollenbaugh, and Dale A. Lowry, July 1969.
- WBTM TDL 23 An Operational Subsynchronous Advection Model. Harry R. Glahn, Dale A. Lowry, and George W. Hollenbaugh, July 1969.
- WBTM TDL 24 A Lake Erie Storm Surge Forecasting Technique. William S. Richardson and N. Arthur Pore, August 1969. (PB -185 778)
- WBTM TDL 25 Charts Giving Station Precipitation in the Plateau States From 850- and 500-Millibar Lows During Winter. August F. Korte, Donald L. Jorgensen, and William H. Klein, September 1969.



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