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OAA Technical Memorandum NWS FCST-25



NATIONAL WEATHER SERVICE
PUBLIC FORECAST VERIFICATION SUMMARY
APRIL 1973 TO MARCH 1978

Office of Meteorology and Oceanography
Silver Spring, Maryland
March 1981

**U.S. DEPARTMENT OF
COMMERCE**

National Oceanic and
Atmospheric Administration

National Weather
Service

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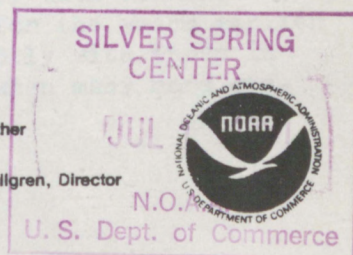
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Frederick S. Zbar
Dean F. Dubofsky
A. Kristine Campbell

Office of Meteorology and Oceanography
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UNITED STATES
DEPARTMENT OF COMMERCE
Malcolm Baldrige, Secretary

National Oceanic and
Atmospheric Administration
James P. Walsh, Acting Administrator

National Weather
Service
Richard E. Hallgren, Director



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NATIONAL WEATHER SERVICE PUBLIC FORECAST VERIFICATION SUMMARY
APRIL 1973 TO MARCH 1978

Duane S. Cooley, Frederick S. Zbar,
Dean F. Dubofsky and A. Kristine Campbell

ABSTRACT. Both WSFO and NMC forecasts of temperature and precipitation made gradual improvements during the 5-year period from 1973 to 1977. One notable exception occurred during 1977, when the percent correct for precipitation decreased to the 1975 value after rising sharply during 1976. WSFO temperature and precipitation forecasts continue to show an improvement over NMC guidance on a nationwide basis; however, the margin of improvement has generally decreased during the last 5 years.

1. INTRODUCTION

The public verification program consists of two forecasts per day based on the 0600 and the 1800 Greenwich mean time (GMT) surface maps. These forecasts are for three successive 12-hour periods:

SURFACE MAPS

PERIODS OF FORECASTS (GMT)

0600 GMT	1200-0000 Today	0000-1200 Tonight	1200-0000 Tomorrow
1800 GMT	0000-1200 Tonight	1200-0000 Tomorrow	0000-1200 Tomorrow Night

Two seasons comprise the forecast year: Summer, April-September; and Winter, October-March. The forecasts verified are maximum and minimum temperatures and probability of precipitation.

For the 5-year period, 1973-1977, data used in the public verification program were verified for a maximum of 92 stations (hereafter referred to as FP) shown in Figure 1. There were variations in availability of data due to changes in the collection system. The following are stations which were not available for more than one of the last 5 years: no forecasts have been verified for Topeka, Kansas, since 1975, and data from Austin, Texas, and Baltimore, Maryland, are unavailable prior to 1975. Only data for those 92 stations and Lubbock, Texas, when available, were used for the years earlier than 1973. As a result, these scores may not agree exactly with those in previous Technical Memorandums on public verification, when many more stations were used.

Up to 51 Weather Service Forecast Offices (WSFO's), a subset of the 92 FP stations, were verified in 1973-1977. Back through 1966, all available data for these stations plus Lubbock, Texas, were used. Several of the present-day WSFO's were classed as Weather Service Offices (WSO's)--actually, Weather Bureau Offices (WBO's)--prior to the early 1970's. All data for these offices were included, regardless of their status at the time, so as to use as many of the 52 stations as possible.

Numerical guidance in the form of probability of precipitation (PoP) and temperature forecasts was not provided for the Alaska and Pacific Regions or for Puerto Rico. As a result, graphs for comparative FP scores include no more than 87 stations, and graphs and tables for comparative WSFO scores include no more than 46 stations. Both comparative FP (up to 87 stations) and non-comparative FP (up to 92 stations) scores are given in the appendix.

Background information in the verification program may be found in the 1966 annual summary (Roberts, et al. 1967) and in the 1972 annual summary (Sadowski and Cobb, 1974).

2. ANALYSIS OF VERIFICATION DATA

Cooley et al. (1977) suggested data be analyzed with respect to the following questions:

- a. What is the national level of skill in present-day precipitation and temperature forecasts?
- b. How did scores of forecasters compare with corresponding scores of the National Meteorological Center (NMC)?
- c. How much better were precipitation probability forecasts than forecasts of climatological frequency?
- d. What was the percentage improvement of mean absolute forecast error in temperature over mean 24-hour temperature variability?

Statistical measures of forecast errors for precipitation and temperature used in the National Weather Service (NWS) verification program are found in Tables 1a and 1b. For the purpose of percent correct verification, the categorical forecasts of precipitation are those where probabilities are equal to 50 percent or greater; forecasts having values of 40 percent or less are placed in the no precipitation category.

All scores are presented by region, as well as summarized nationally for temperature and precipitation in the appendix. The results are given for all three forecast periods for each cycle and season and serve as the basis for the statistics quoted in the following sections for 1973 to 1977.

Table 1a.--Forecast error measures and statistics

Precipitation

1. Relative precipitation frequency: $PF = \frac{\text{number of precipitation cases}}{\text{number of forecast periods}}$
2. Brier scores: $B = \frac{1}{F} \sum_{i=1}^F (F_i - O_i)^2$, O_i = observed precipitation occurrence (0 or 1), F_i = forecast probability, and F = total number of forecasts.
3. Climatological Brier score: $BC = \frac{1}{F} \sum_{i=1}^F (C_L - O_i)^2$ where C_L is the long term climatological relative frequency.
4. Percentage improvement of Brier score over long term climatology: $S = \frac{BC - B}{BC} \times 100$
5. Sample Brier score: $BS = PF (1 - PF)$
6. Percentage improvement of Brier score: $SS = \frac{BS - B}{BS} \times 100$
7. Mean probability of precipitation: $MP = \frac{1}{P} \sum_{i=1}^P F_i^P$ where P = number of precipitation cases and F_i^P = probability forecast when precipitation was observed.
8. Mean probability of no precipitation: $MN = \frac{1}{F-P} \sum_{i=1}^{F-P} F_i^N$ where F_i^N = the probability forecast when precipitation was not observed.
9. Total percent correct: $PC = \frac{\text{Number of correct forecasts}}{\text{Total number of forecasts}}$
(using .50 probability as the threshold value). Values $\geq .50$ are used as "yes" forecasts.

Table 1b.--Forecast error measures and statistics--continued

Temperature

1. Mean absolute forecast error: $TE = \frac{1}{N} \sum_{i=1}^N |T_F - T_O|$ where N = number of forecasts, T_F is the forecast temperature, and T_O is the observed temperature.

2. Mean algebraic forecast error: $TG = \frac{1}{N} \sum_{i=1}^N (T_F - T_O)$

3. Mean absolute 24-hour temperature variability $TV = \frac{1}{M} \sum_{i=1}^M |T_O - T_{O+1}|$
where M is the number of pairs of temperature values, T_O is today's observed maximum or minimum temperature, and T_{O+1} is the corresponding observed value one day later.

4. Percentage improvement of mean absolute forecast error over mean 24-hour temperature variability: $TC = \frac{TV - TE}{TV} \times 100$

5. Mean absolute forecast error when TV exceeds 10° : TM = sum of absolute temperature errors when 24-hour observed temperature changes exceed 10° , divided by the number of such errors.

6. Percent temperature errors in classes:

$$T1 = \text{less than } 6^\circ = 100 \times (\text{number of } 0^\circ \text{ to } 5^\circ \text{ temperature errors}) / (\text{total number of temperature forecasts})$$

$$T2 = 6^\circ \text{ to } 10^\circ = 100 \times (\text{number of } 6^\circ \text{ to } 10^\circ \text{ temperature errors}) / (\text{total number of temperature forecasts})$$

$$T3 = 11^\circ \text{ to } 15^\circ = 100 \times (\text{number of } 11^\circ \text{ to } 15^\circ \text{ temperature errors}) / (\text{total number of temperature forecasts})$$

$$T4 = \text{greater than } 15^\circ = 100 \times (\text{number of greater-than-} 15^\circ \text{ temperature errors}) / (\text{total number of temperature forecasts})$$

3. PRECIPITATION

3.1 1966-1977

Figures 2 and 3 indicate no clearly identifiable trend for probability of precipitation forecasts for the period of 1966 to 1977. The year 1972 shows the lowest percent correct scores; yet that year field forecasters made the largest improvements to NMC guidance. Upon looking at more detailed statistics for 1972 than those given in this report, we find the climatological Brier score (BC) indicates that it was an unusual year with regard to precipitation. The BC for 1972 was 0.1625, while 0.1481 was the average for the 12-year period 1966-1977. The BC for the cool season of 1972 was 0.1724, compared to 0.1515, the normal.

Values given below are annual averages for three periods, both cycles. The actual ranges in percent correct were:

YEAR	WSFO's	NMC	FP	NMC
1972	82.9%	81.6%	82.9%	82.0%
1976	86.3%	85.8%	86.1%	85.8%

3.2 1973-1977

Verification scores for percent correct started improving slowly but steadily in 1973, then jumped over 2 percent in 1976, only to lose the same amount in 1977. No obvious reason could be found to explain this unusual peak.

Using Brier scores for the 46 WSFO's, Table 2 shows the percentage of improvement field forecasters made over model output statistics (MOS) guidance. In 1976, the improvement by the forecaster was suddenly cut in half for the first and second periods. During the next year, forecasters doubled their scores for the second and third periods, but first period remained six percent.

Table 2: Improvement of forecast office precipitation forecasts over guidance (%)

	Period 1	Period 2	Period 3
1973	11.6	2.4	0.9
1974	12.2	3.8	0.8
1975	11.0	5.5	2.4
1976	6.0	2.8	2.1
1977	6.0	5.3	4.3

One reason for the improvement in PoP guidance during 1976 may be a change to using the limited-area fine-mesh model (LFM) as input to the MOS equations. Before 1976, the MOS equations were based on predictions from the primitive equation and trajectory models.

To answer the question of how much better precipitation probability forecasts are than forecasts of climatological frequency, the reader is referred to the comparative scores in the appendix. The columns labeled "S" give the percent improvement of Brier score over the climatological Brier score. When averaged over 5 years, the FP forecasts ranged from 17 percent better in the third period to 34 percent better in the first period, while NMC forecast improvement ranged from almost 16 percent in the third period to 28 percent in the first period. The improvement is also illustrated in Figure 4.

4. TEMPERATURE

4.1 1966-1977

Figures 5 and 6 show a general improvement in temperature forecasting. In 1968, both NMC and the forecasters reached a plateau, maintaining about six-tenths of a degree separation in mean absolute temperature error (MAE) for 5 years. Guidance has improved slowly but steadily since then, narrowing the difference to one-tenth of a degree in 1976. Values given below are annual averages for three periods, both cycles. The actual ranges in MAE are:

YEAR	WSFO's	NMC	YEAR	FP	NMC
1966	4.0	5.3	1966	4.1	5.3
1976	3.6	3.7	1977	3.6	3.8

Figure 7 shows a marked reduction of the percentage occurrence of large temperature errors over the last 12 years.

4.2 1973-1977

The beginning of this 5-year period coincided with the start of NMC's improvement in temperature forecasts. This steady trend may also be seen in Table 3, which shows the actual percent improvement of forecasters over guidance using MAE for the 46 WSFO's. Forecasters showed less improvement each year in all periods until 1977, when they gained what was lost in 1976. One reason for the improvement in guidance was the change from using the perfect prog to using MOS temperature forecasts in July 1973. Further improvements were made in the MOS equations after that date.

Table 3: Improvement MAE, forecast offices over guidance (%)

	Period 1	Period 2	Period 3
1973	17.7	13.5	6.4
1974	11.1	10.9	2.9
1975	6.7	4.8	2.8
1976	3.9	2.7	1.7
1977	5.6	4.3	3.1

The percentage improvement of MAE over mean 24-hour temperature variability may be found in the appendix under columns labeled "TC." When averaged over the 5-year period, FP forecasts ranged from 21 percent improvement in the third period to 38 percent in the first period. Forecast improvement by NMC's numerical guidance ranged from 18 percent to 32 percent.

5. SUMMARY

During the period 1966-1977, changes in most scores were small from year to year. However, temperature forecasts have improved consistently and considerably over the period. Mean absolute temperature errors for the maximum and minimum temperature forecasts dropped from 5.3 to 3.8 degrees (F) for NMC and from 4.1 to 3.6 degrees (F) for the FP stations. There has also been a reduction in forecast errors of greater than 10 degrees (F) by WSFO's, dropping from 6.2 percent to 4.1 percent.

In predicting precipitation, percent correct scores have been on the rise since 1972, with an unexpected peak in 1976. During the period 1966 to 1977, the range of annual average values for the forecasts by NMC was 82 to 85.8 percent correct. The FP forecasts by the WSFO's, or their predecessors, were 82.9 to 86.1 percent correct.

In general, year to year variations in scores for guidance and public forecasts can not be attributed to any one cause. Changes in the dynamic models and the periodic addition of new predictors to the MOS equations, as well as the field forecaster's growing familiarity with the guidance and its characteristics have produced a gradual improvement in forecasting by both.

Information on NWS verification of other forecast variables is available in publications by Techniques Development Laboratory, such as: Klein and Hammons, 1975; Glahn and Lowry, 1976; and Zurndorfer et al., 1979.

6. ACKNOWLEDGMENTS

Edward Zurndorfer and Paul Dallavalle of the Techniques Development Laboratory (TDL) of the National Weather Service provided helpful information about changes in NWS guidance products. We wish to thank Dr. Harry R. Glahn, Director, TDL, for taking time to review this report. Thanks also to Geraldine Cobb, formerly of the Technical Procedures Branch, who processed the data and Nora Keel for typing the text.

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NATIONAL AVERAGE PRECIPITATION

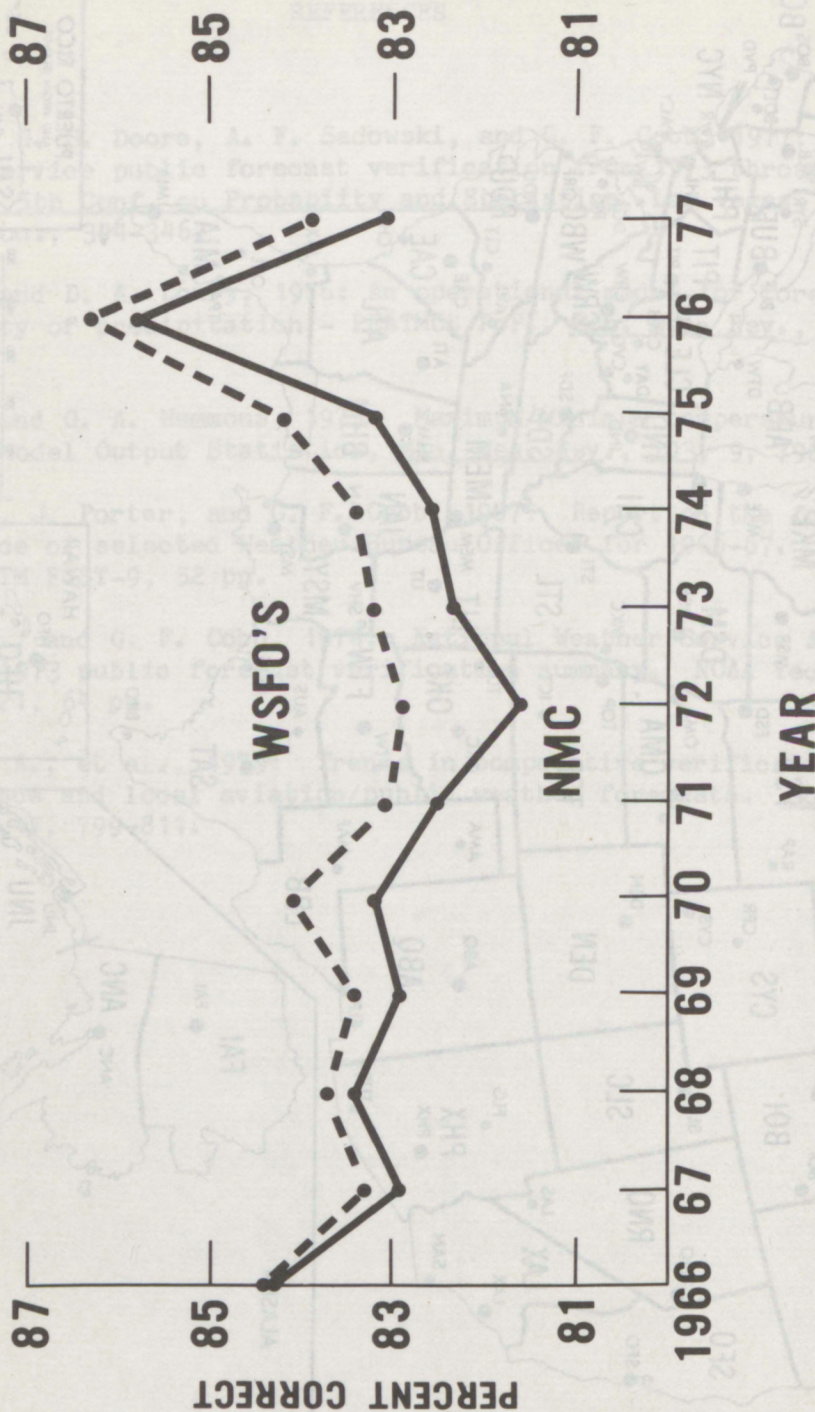


Figure 2: Percent correct of NMC and WSFO (up to 46 stations) precipitation and no precipitation forecasts for 1966-1977. Yearly (April-March) averages for the conterminous United States include morning (0600 GMT) and afternoon (1800 GMT) forecasts for all three periods.

NATIONAL AVERAGE PRECIPITATION

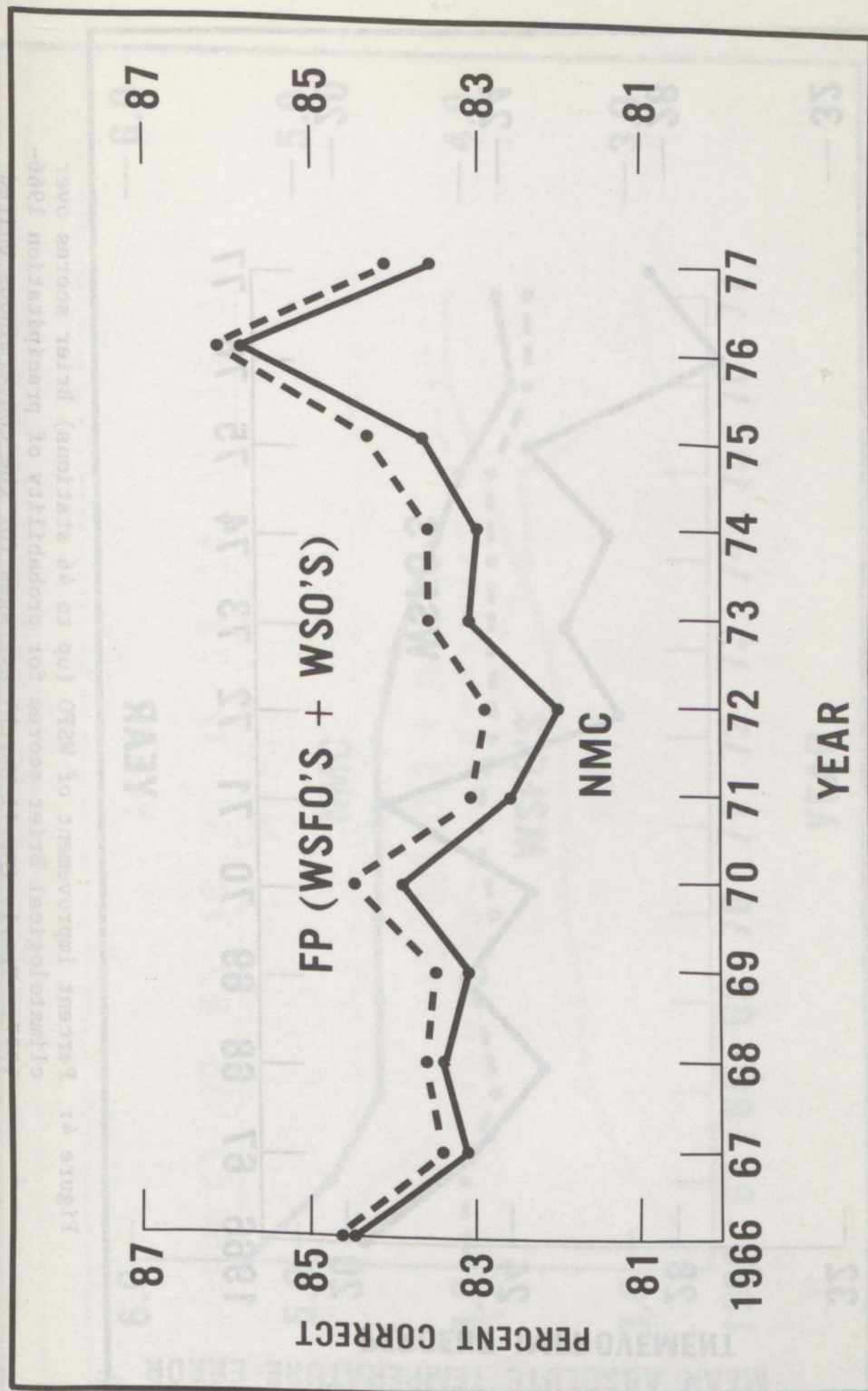


Figure 3: Percent correct of NMC and FP (WSFO's plus WS0's up to 87 stations) precipitation and no precipitation forecasts for 1966-1977. Yearly (April-March) averages for the conterminous United States include morning (0600 GMT) and afternoon (1800 GMT) forecasts for all three periods.

PERCENT IMPROVEMENT OF POP BRIER SCORE OVER CLIMATOLOGY - NATIONAL

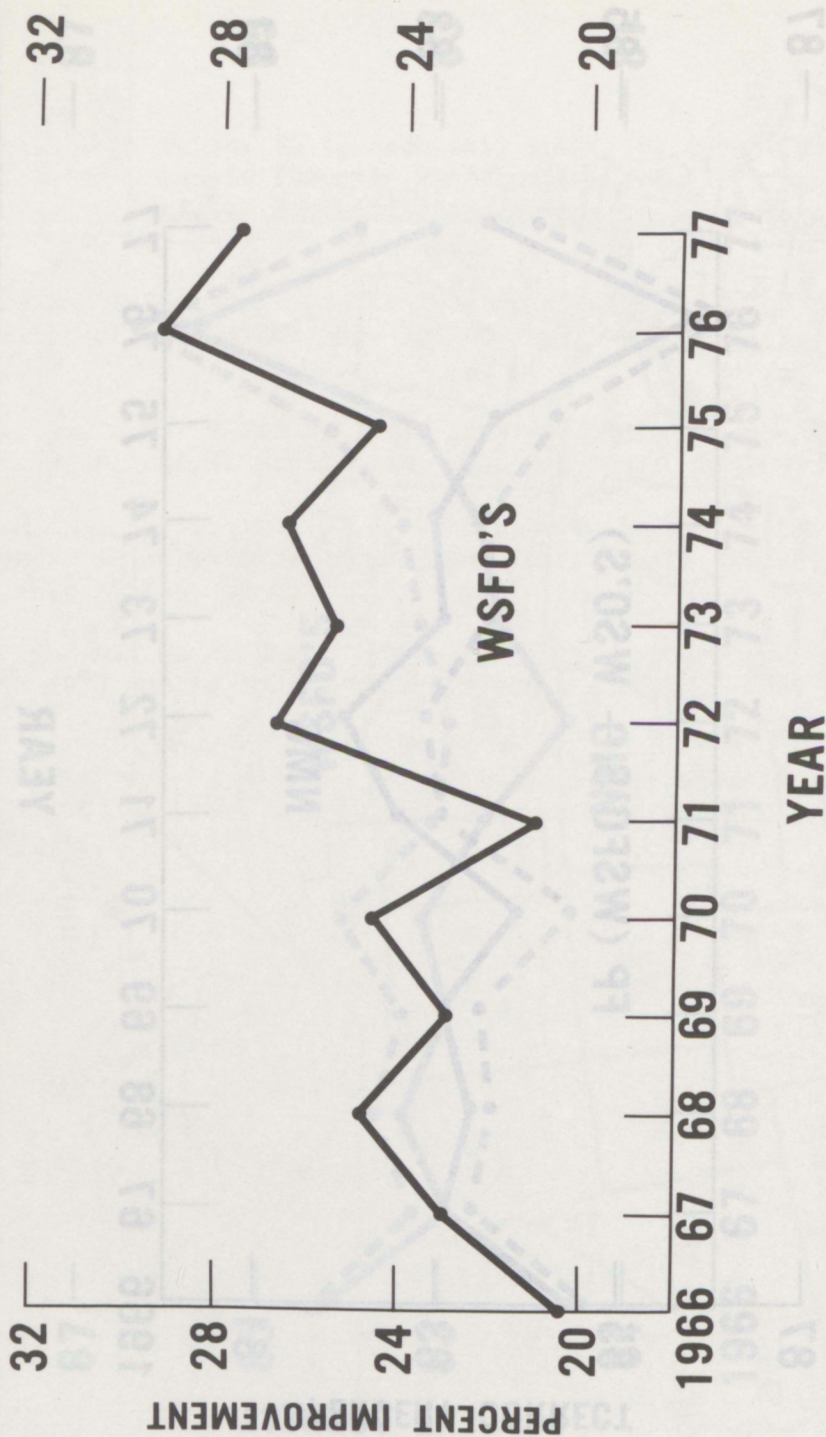


Figure 4: Percent improvement of WSF0 (up to 46 stations) Brier scores over climatological Brier scores for probability of precipitation 1966-1977. Yearly (April-March) averages for the conterminous United States include morning (0600 GMT) and afternoon (1800 GMT) forecasts for all three periods.

NATIONAL AVERAGE TEMPERATURE

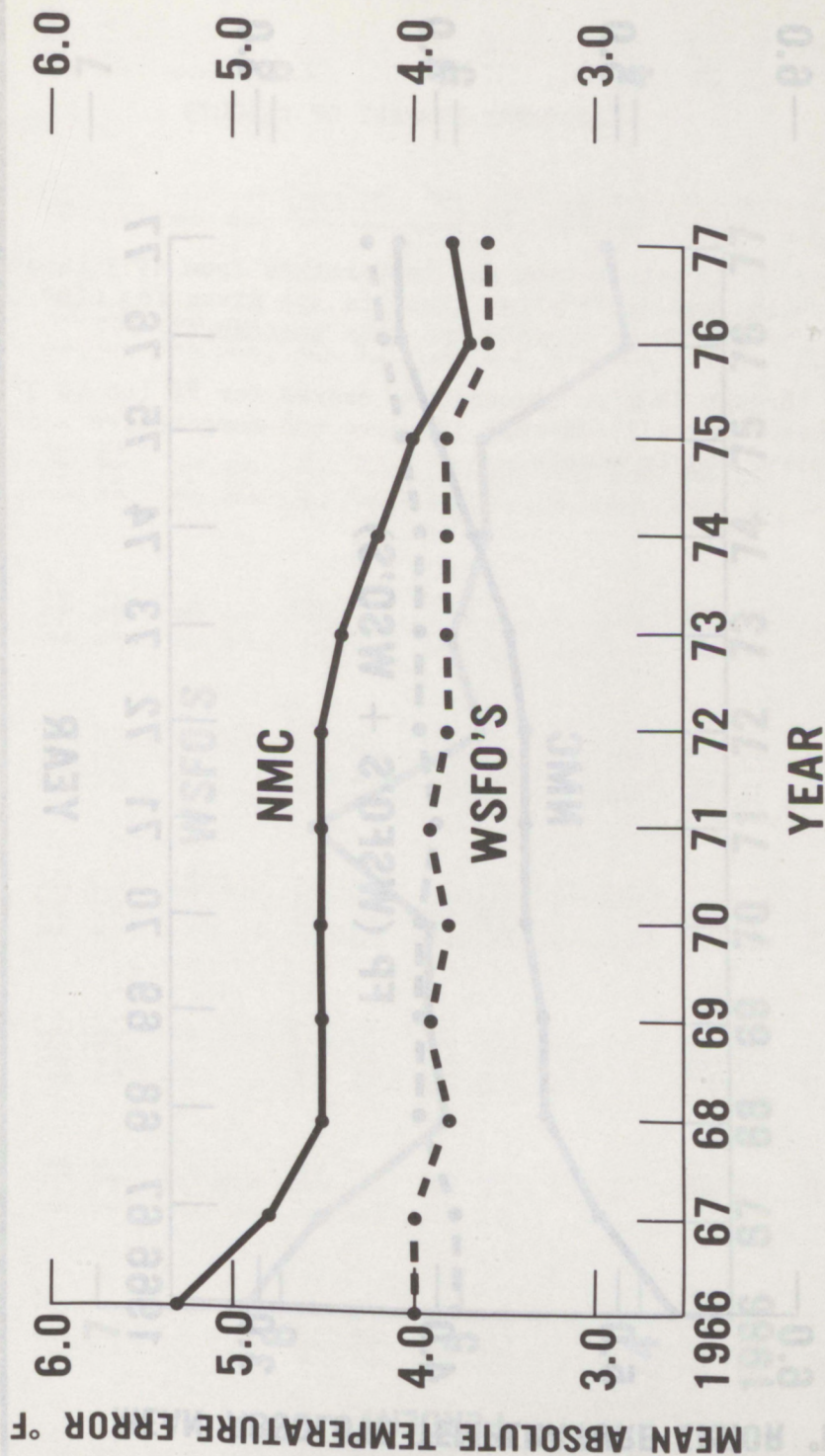


Figure 5: Comparison of NMC and WSFO (up to 46 stations) mean absolute temperature errors 1966-1977. Yearly (April-March) averages for the continental United States include morning (0600 GMT) and afternoon (1800 GMT) forecasts for all three periods.

NATIONAL AVERAGE TEMPERATURE

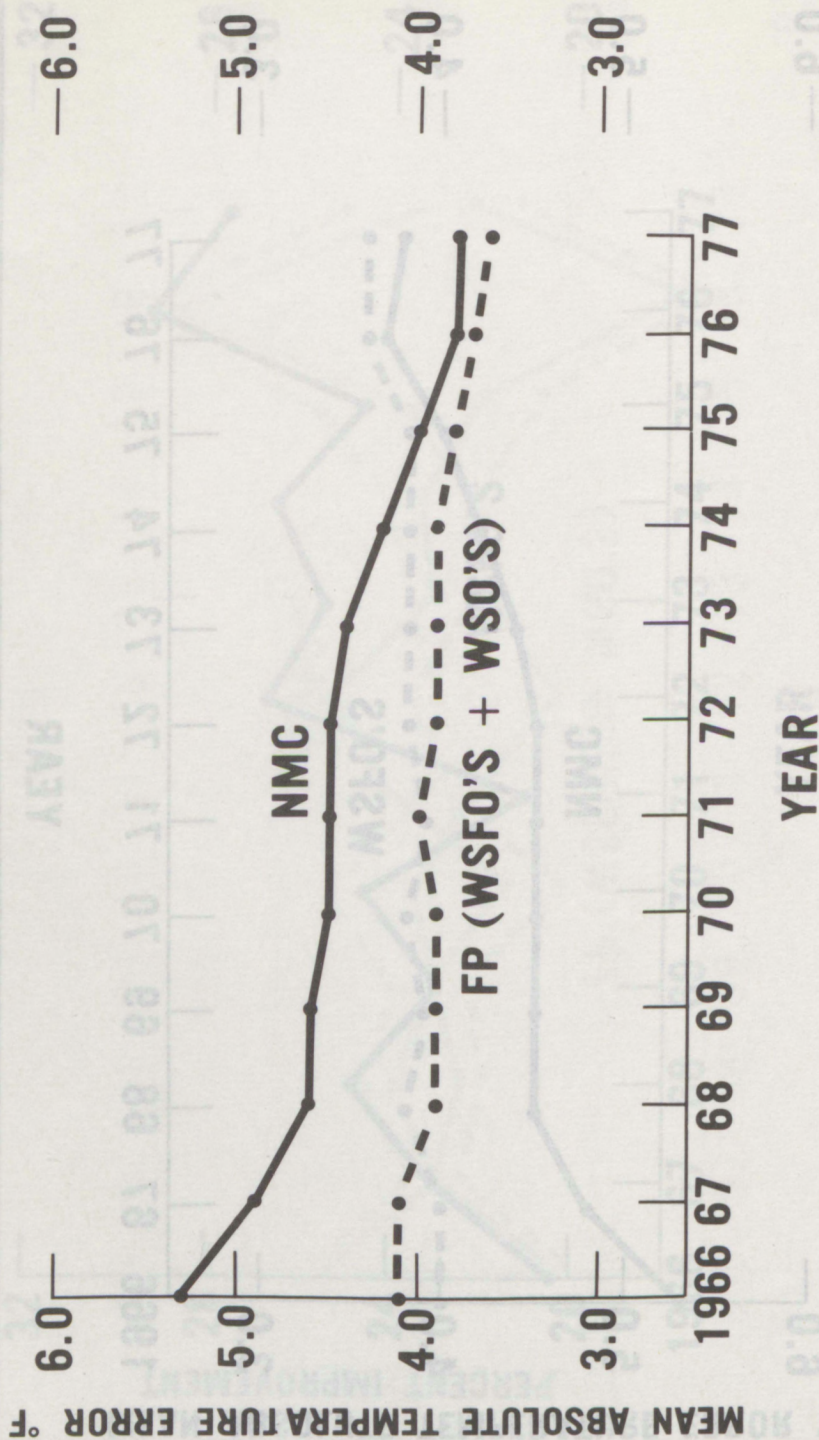


Figure 6: Comparison of NMC and FP (WSFO's plus WSFO's up to 87 stations) mean absolute temperature errors 1966-1977. Yearly (April-March) averages for the conterminous United States include morning (0600 GMT) and afternoon (1800 GMT) forecasts for all three periods.

TEMPERATURE: PERCENTAGE OF ERRORS GREATER THAN 10 DEGREES (F) - NATIONAL

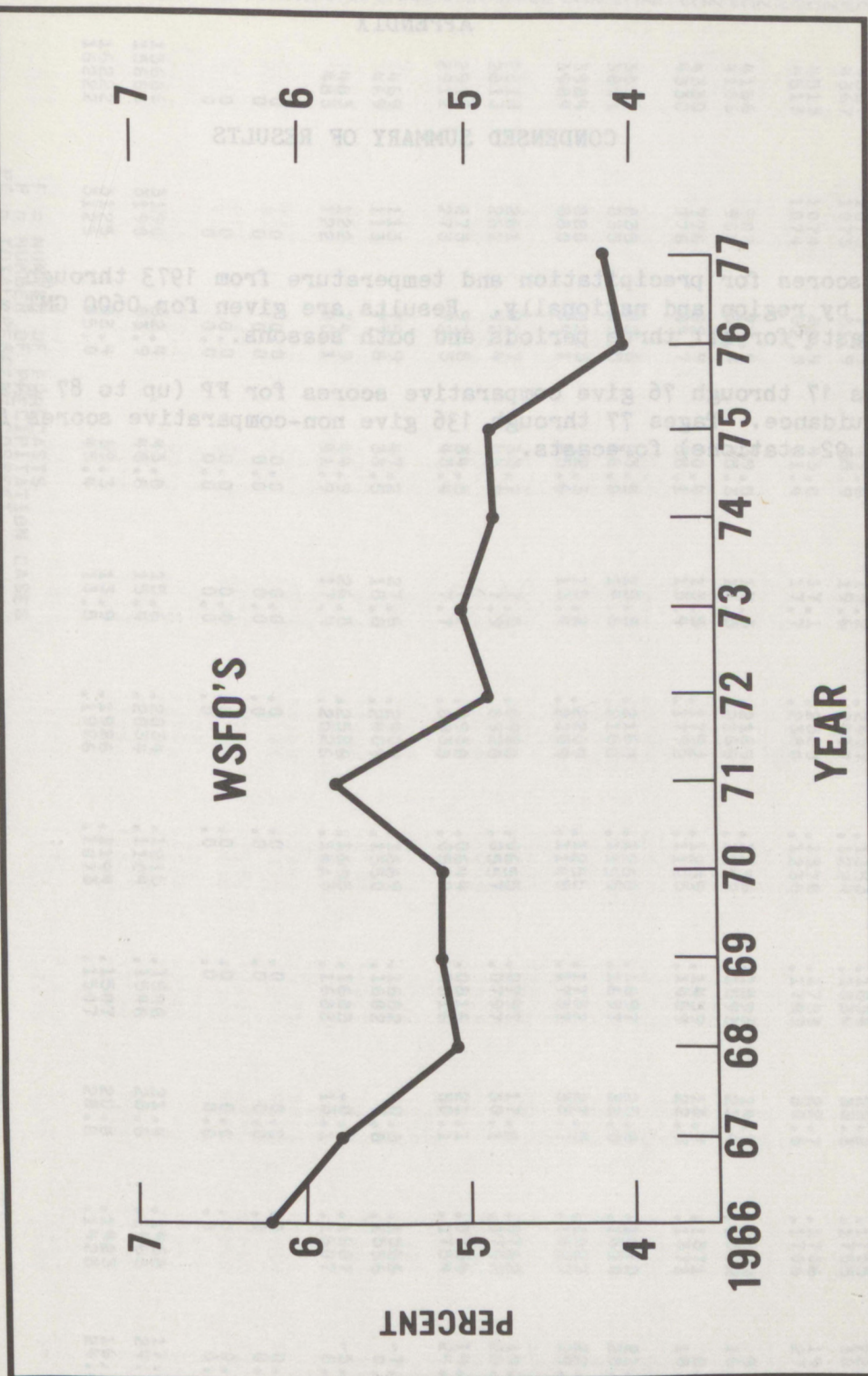


Figure 7: Percent of WSFO (up to 46 stations) temperature forecast errors greater than 10 degrees (F). Yearly (April-March) averages for the conterminous United States include morning (0600 GMT) and afternoon (1800 GMT) forecasts for all three periods.

APPENDIX

CONDENSED SUMMARY OF RESULTS

All scores for precipitation and temperature from 1973 through 1977 are presented by region and nationally. Results are given for 0600 GMT and 1800 GMT forecasts for all three periods and both seasons.

Pages 17 through 76 give comparative scores for FP (up to 87 stations) and NMC guidance. Pages 77 through 136 give non-comparative scores for all FP (up to 92 stations) forecasts.

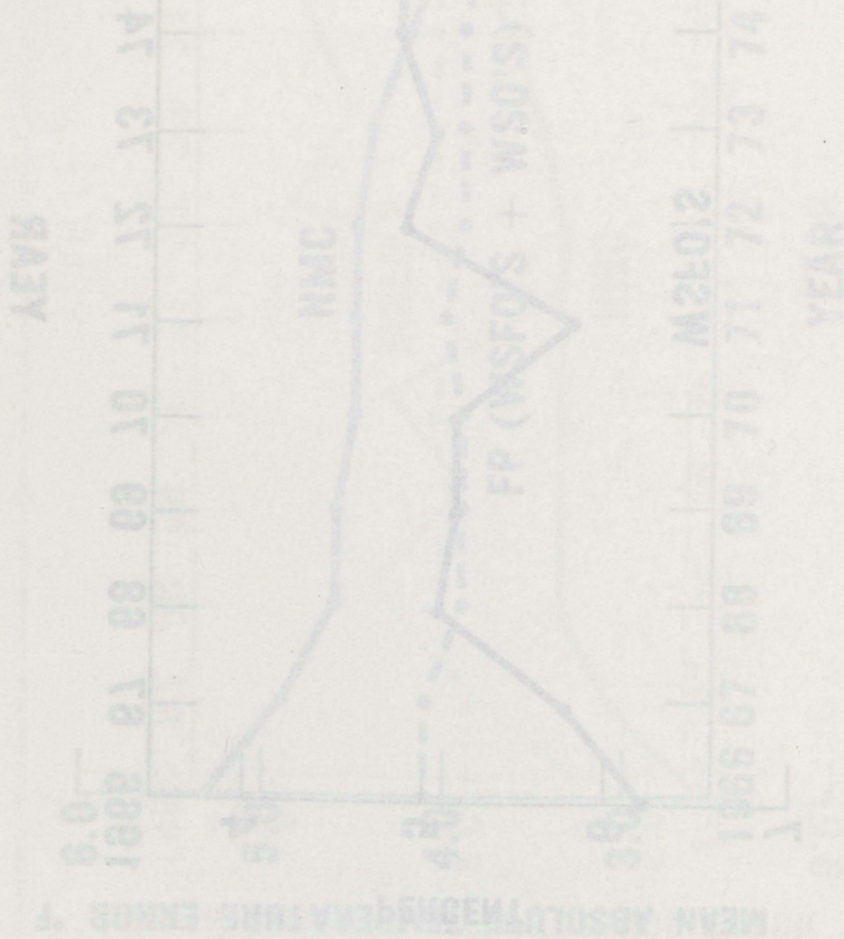


Figure 5: Comparison of NMC and FP (WSFS + WSO'S) Mean Absolute Temperature Error (MAE) from 1966 to 1977.

APR 1973 SEP 1973 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z NMC	4367	1073	79.9	49.6	19.2	.2457	.1353	.1834	26.2	.1755	22.9
18Z NMC	4367	1073	81.9	55.9	19.6	.2457	.1224	.1834	33.3	.1755	30.3
06Z FCP	4513	1074	80.4	43.8	17.1	.2380	.1378	.1783	22.7	.1706	19.2
18Z FCP	4513	1074	82.0	51.4	17.7	.2380	.1238	.1783	30.5	.1706	27.4
SOUTHERN											
06Z NMC	4186	908	79.4	39.5	17.3	.2169	.1356	.1593	14.9	.1502	9.8
18Z NMC	4186	908	81.4	45.3	17.3	.2169	.1252	.1593	21.4	.1502	16.7
06Z FCP	4330	776	82.9	30.4	13.5	.1792	.1259	.1459	13.7	.1371	8.2
18Z FCP	4330	776	84.7	38.1	13.4	.1792	.1125	.1459	22.9	.1371	18.0
CENTRAL											
06Z NMC	3851	835	82.6	43.5	15.5	.2168	.1260	.1697	25.8	.1610	21.8
18Z NMC	3851	835	83.5	46.0	14.6	.2168	.1135	.1697	32.0	.1610	28.3
06Z FCP	3984	880	82.3	42.3	15.2	.2209	.1255	.1732	27.5	.1627	22.8
18Z FCP	3984	880	84.1	43.6	13.4	.2209	.1149	.1732	33.7	.1627	29.4
WESTERN											
06Z NMC	2813	261	91.7	33.7	7.5	.0928	.0655	.0797	17.8	.0762	14.0
18Z NMC	2813	261	92.4	44.9	7.9	.0928	.0557	.0797	30.1	.0762	26.9
06Z FCP	2912	273	91.8	34.8	7.1	.0938	.0644	.0816	21.1	.0754	14.5
18Z FCP	2912	273	92.3	43.4	7.7	.0938	.0570	.0816	30.1	.0754	24.4
ALASKAN											
06Z NMC	469	113	75.9	47.2	27.6	.2409	.1669	.1682	0.8	.1556	-7.3
18Z NMC	469	113	77.6	38.3	18.8	.2409	.1550	.1682	7.8	.1556	-0.4
06Z FCP	483	122	74.9	44.9	26.8	.2526	.1695	.1683	-0.7	.1607	-5.5
18Z FCP	483	122	80.1	41.9	17.4	.2526	.1463	.1683	13.1	.1607	-8.9
PACIFIC											
06Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
06Z FCP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z FCP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z NMC	15886	3190	82.4	43.8	15.6	.2034	.1215	.1546	21.4	.1468	17.2
18Z NMC	15886	3190	83.9	48.8	15.4	.2034	.1104	.1546	28.6	.1468	24.6
06Z FCP	16222	3125	83.4	39.3	13.9	.1926	.1194	.1507	20.8	.1423	16.1
18Z FCP	16222	3125	85.0	43.4	13.5	.1926	.1073	.1507	28.8	.1423	24.6

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = RELATIVE PRECIPITATION FREQUENCY
PF = Brier Score
B = CLIMATOLOGICAL Brier Score
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS
SS = PERCENT IMPROVEMENT OF B OVER BS

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	4366	1038	79.0	43.7	18.8	.2377	.1424	.1782	20.1	.1699	16.2
NMC	4366	1038	79.3	45.6	19.0	.2377	.1398	.1782	21.5	.1699	17.7
18Z	4514	1102	79.4	44.5	19.5	.2441	.1457	.1825	20.1	.1693	16.4
NMC	4514	1102	78.3	45.0	20.7	.2441	.1452	.1823	14.2	.1744	16.7
SOUTHERN											
06Z	4187	754	82.7	27.2	14.0	.1801	.1320	.1466	10.0	.1383	4.6
NMC	4187	754	82.7	31.2	14.4	.1801	.1275	.1466	13.1	.1383	7.9
18Z	4329	935	80.1	34.9	16.2	.2160	.1393	.1588	12.3	.1371	6.9
NMC	4329	935	80.0	38.8	17.2	.2160	.1366	.1588	6.0	.1497	8.7
CENTRAL											
06Z	3676	818	81.0	39.7	17.6	.2225	.1378	.1738	20.7	.1635	15.2
NMC	3676	818	80.8	39.8	16.8	.2225	.1368	.1738	21.3	.1625	15.8
18Z	3798	831	81.2	38.8	15.6	.2188	.1336	.1713	22.0	.1624	17.9
NMC	3798	831	80.9	37.3	15.3	.2188	.1361	.1713	15.0	.1627	16.4
WESTERN											
06Z	2816	263	91.2	30.6	7.6	.0934	.0678	.0813	16.6	.0751	9.7
NMC	2816	263	90.8	35.1	8.4	.0934	.0651	.0813	19.9	.0751	13.2
18Z	2908	267	91.0	32.7	8.1	.0918	.0685	.0793	13.7	.0742	8.9
NMC	2908	267	91.7	37.1	8.7	.0918	.0647	.0793	10.6	.0751	13.9
ALASKAN											
06Z	464	120	74.8	43.8	26.7	.2586	.1700	.1713	0.8	.1652	-2.9
NMC	464	120	78.4	36.1	18.9	.2586	.1640	.1713	4.3	.1652	-0.7
18Z	477	115	72.1	42.1	28.0	.2411	.1816	.1693	-7.3	.1577	-15.1
NMC	477	115	76.7	36.0	20.7	.2411	.1697	.1693	0.0	.1577	-7.6
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	15509	2993	82.5	37.3	15.1	.1930	.1258	.1508	16.6	.1423	11.6
NMC	15509	2993	82.7	39.1	15.1	.1930	.1229	.1508	18.5	.1423	13.6
18Z	16026	3250	81.9	39.3	15.6	.2028	.1282	.1543	16.9	.1409	13.5
NMC	16026	3250	81.8	40.3	16.0	.2028	.1269	.1543	11.8	.1464	13.4

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MN = MEAN PROBABILITY FORECAST, PRECIPITATION
 PF = Brier Score
 B = CLIMATOLOGICAL Brier Score
 BC = CLIMATOLOGICAL Brier Score
 S = PRECIPITATION IMPROVEMENT OF B OVER BC
 BS = SAMPLE Brier Score
 SS = PERCENT IMPROVEMENT OF B OVER BS

APR 1973 SEP 1973 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	4367	1065	76.2	40.3	21.2	.2439	.1562	.1822	14.3	.1733	9.9
NMC	4367	1065	76.4	41.0	21.6	.2439	.1556	.1822	14.6	.1733	10.2
18Z	4512	1062	78.7	36.5	19.1	.2354	.1510	.1773	14.9	.1693	10.9
NMC	4512	1062	77.9	38.1	20.1	.2354	.1522	.1773	14.2	.1693	10.1
SOUTHERN											
06Z	4185	907	78.3	27.7	15.8	.2167	.1533	.1593	3.8	.1500	-2.2
NMC	4185	907	77.2	32.0	17.7	.2167	.1528	.1593	4.1	.1500	-1.9
18Z	4328	777	82.1	22.1	13.8	.1795	.1396	.1460	4.4	.1371	-0.1
NMC	4328	777	82.0	24.6	14.1	.1795	.1372	.1460	6.0	.1371	-0.1
CENTRAL											
06Z	3673	808	78.5	31.6	16.4	.2200	.1496	.1718	12.9	.1627	8.1
NMC	3673	808	78.7	31.4	16.5	.2200	.1515	.1718	11.8	.1627	6.9
18Z	3801	834	79.2	32.5	17.1	.2194	.1468	.1725	14.9	.1624	9.7
NMC	3801	834	79.2	31.0	15.3	.2194	.1467	.1725	15.0	.1624	9.7
WESTERN											
06Z	2812	259	90.8	27.5	8.5	.0921	.0723	.0796	9.2	.0753	4.0
NMC	2812	259	90.7	30.5	8.8	.0921	.0694	.0796	12.7	.0753	7.8
18Z	2912	268	90.3	28.0	9.2	.0920	.0740	.0804	8.1	.0742	0.3
NMC	2912	268	90.1	28.6	8.9	.0920	.0719	.0804	10.6	.0742	3.1
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	15037	3039	80.1	33.1	15.9	.2021	.1381	.1541	10.4	.1459	5.4
NMC	15037	3039	79.8	34.9	16.6	.2021	.1377	.1541	10.6	.1459	5.6
18Z	15553	2941	81.9	30.8	15.1	.1891	.1327	.1493	11.4	.1409	6.1
NMC	15553	2941	81.7	31.7	14.9	.1891	.1317	.1493	11.8	.1409	6.5

F = NUMBER OF FORECASTS
P = TOTAL PRECIPITATION CASES
PC = PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST
MN = MEAN PROBABILITY FORECAST
PF = Brier Score
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
S = PRESENT IMPROVEMENT OF B OVER BC
BS = PRESENT IMPROVEMENT OF B OVER BS
SS = PRESENT IMPROVEMENT OF B OVER BS

APR 1973 SEP 1973 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z NMC	3649	4.0	5.0	21.1	-0.1	7.0	74.3	20.7	4.1	0.8
18Z FFP	3649	3.2	5.0	37.0	0.1	5.5	83.4	13.9	2.3	0.4
18Z FFP	3630	3.8	4.6	16.6	-1.6	6.9	76.0	19.9	3.2	0.3
06Z FFP	3630	3.0	4.6	35.3	-0.9	4.8	85.8	13.0	0.5	0.3
SOUTHERN										
06Z NMC	3597	3.1	3.5	9.9	0.8	8.0	84.1	12.7	2.3	0.8
18Z FFP	3597	2.5	3.5	29.0	0.5	6.0	90.1	8.4	1.1	0.3
18Z FFP	3572	3.1	3.5	12.5	-0.8	6.4	84.7	13.5	1.6	0.1
06Z FFP	3572	2.5	3.5	27.9	-0.5	5.0	90.2	19.2	0.4	0.1
CENTRAL										
06Z NMC	3400	4.5	5.8	21.9	0.9	7.6	70.3	21.9	5.6	2.3
18Z FFP	3400	3.5	5.8	38.5	0.6	5.8	79.3	17.1	2.9	0.7
18Z FFP	3380	4.3	5.4	20.4	-1.9	6.8	70.3	24.0	5.0	0.7
06Z FFP	3380	3.3	5.4	39.6	-1.0	5.0	82.0	16.1	1.7	0.2
WESTERN										
06Z NMC	2537	4.0	4.9	16.9	1.0	8.4	74.6	19.0	4.9	1.5
18Z FFP	2537	2.9	4.9	39.8	0.3	5.9	86.0	11.5	2.0	0.5
18Z FFP	2524	3.2	3.9	19.1	-0.7	7.2	82.8	15.0	2.5	0.2
06Z FFP	2524	2.9	3.9	27.2	-0.7	6.5	86.3	12.0	1.5	0.2
ALASKAN										
06Z NMC	0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z FFP	0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z FFP	0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06Z FFP	0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z NMC	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z FFP	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z FFP	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06Z FFP	0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z NMC	13163	3.9	4.7	16.8	0.6	7.6	76.0	18.5	4.2	1.3
18Z FFP	13163	3.0	4.7	35.3	0.4	5.7	84.7	12.8	2.1	0.5
18Z FFP	13106	3.6	4.3	16.1	-1.3	6.8	78.2	18.3	3.0	0.5
06Z FFP	13106	2.9	4.3	32.7	-0.8	5.2	86.1	12.6	1.1	0.2

N = NUMBER OF FORECASTS
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 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

APR 1973 SEP 1973 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	3649	4.1	4.6	12.0	-1.8	6.9	72.7	22.7	3.9	0.6
NMC	3649	3.4	4.6	26.4	-0.8	5.1	80.6	17.6	1.4	0.4
18Z	3631	4.2	5.0	15.7	-0.9	6.9	71.7	22.6	5.0	0.7
NMC	3631	3.6	5.0	26.9	-0.3	6.3	77.5	18.5	3.4	0.6
SOUTHERN										
06Z	3599	3.3	3.5	4.0	-0.6	5.9	80.9	16.6	2.4	0.1
NMC	3599	2.8	3.5	21.0	-0.2	5.4	87.6	11.5	0.8	0.1
18Z	3582	3.5	3.5	-0.3	-0.1	7.5	79.8	16.4	2.9	0.8
NMC	3582	2.9	3.5	16.8	0.2	6.8	85.9	11.8	1.8	0.5
CENTRAL										
06Z	3234	4.6	5.4	15.3	-1.6	6.8	67.1	26.0	5.9	1.1
NMC	3234	3.8	5.4	29.4	-0.8	5.6	75.8	20.6	3.3	0.3
18Z	3213	5.1	5.7	10.7	-0.8	7.8	62.3	28.3	7.1	2.4
NMC	3213	4.1	5.7	27.9	0.0	6.7	72.8	20.6	5.2	1.4
WESTERN										
06Z	2538	3.3	3.9	15.1	-0.6	6.9	80.9	16.4	2.5	0.2
NMC	2538	3.1	3.9	22.0	-0.7	6.3	83.4	14.4	2.0	0.2
18Z	2524	4.5	4.9	8.2	-0.2	8.6	69.8	22.6	5.8	1.8
NMC	2524	3.5	4.9	28.8	0.0	6.7	79.9	16.6	2.8	0.6
ALASKAN										
06Z	0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	13020	3.8	4.5	10.7	-1.2	6.7	75.2	20.6	3.7	0.5
NMC	13020	3.3	4.5	24.4	-0.6	5.6	81.9	16.0	1.8	0.3
18Z	12950	4.3	4.7	8.0	-0.4	7.6	71.2	22.3	5.1	1.4
NMC	12950	3.5	4.7	24.4	-0.1	6.6	79.1	16.8	3.3	0.8

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED OVER TV
 TC = MEAN IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = TEMPERATURE ERROR CLASSES
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

APR 1973 SEP 1973

3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	I	T2	T3	T4
EASTERN										
06Z	3649	4.3	5.0	14.8	-0.4	6.9	70.7	23.4	4.8	1.1
18Z	3649	4.0	5.0	20.2	-0.2	6.4	74.6	19.4	5.0	1.1
18Z	3631	4.4	4.6	13.2	-2.5	6.8	68.5	25.9	4.6	1.0
SOUTHERN										
06Z	3598	3.6	3.5	-3.1	0.8	8.1	78.7	16.5	3.6	1.2
18Z	3598	3.3	3.5	4.9	0.6	7.3	82.2	14.0	2.8	1.0
18Z	3576	3.5	3.5	-8.2	-1.3	6.2	78.4	18.0	3.2	0.3
CENTRAL										
06Z	3232	5.1	5.7	10.4	0.3	8.1	63.1	25.8	8.0	3.1
18Z	3232	4.7	5.7	18.1	0.2	7.1	66.4	25.0	6.4	3.2
18Z	3214	5.0	5.4	6.7	-2.9	7.2	61.3	29.1	8.2	1.4
WESTERN										
06Z	2538	4.9	4.9	0.6	0.6	9.3	66.6	24.0	6.9	2.5
18Z	2538	4.1	4.9	16.2	0.0	7.5	73.7	20.2	4.8	1.3
18Z	2524	3.6	3.9	7.4	-1.3	6.8	77.1	19.3	3.3	0.3
ALASKAN										
06Z	0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	13017	4.4	4.7	5.6	0.3	8.0	70.2	22.2	5.7	1.9
18Z	13017	4.0	4.7	14.4	0.2	7.0	74.5	19.4	4.7	1.4
18Z	12945	4.2	4.3	3.1	-2.0	6.3	71.1	23.2	4.9	0.8
18Z	12945	3.8	4.3	12.3	-1.3	6.3	76.0	19.9	3.5	0.6

N = NUMBER OF FORECASTS
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 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 I = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT1973 MAR 1974 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3987	1062	85.3	60.8	14.8	.2664	.1064	.1917	44.5	.1859	42.8
NMC	3987	1062	86.0	65.4	16.0	.2664	.1028	.1917	46.4	.1859	44.7
18Z	4033	1066	83.3	60.2	17.4	.2643	.1164	.1908	39.0	.1831	36.4
NMC	4033	1066	84.3	62.1	15.2	.2643	.1102	.1908	42.2	.1831	39.8
SOUTHERN											
06Z	3266	471	88.6	45.0	10.5	.1442	.0848	.1190	28.8	.1124	24.6
NMC	3266	471	89.5	49.8	8.8	.1442	.0754	.1190	36.6	.1124	32.9
18Z	3366	459	89.3	43.4	10.0	.1364	.0803	.1125	28.6	.1062	24.4
NMC	3366	459	89.8	47.4	8.2	.1364	.0734	.1125	34.8	.1062	30.9
CENTRAL											
06Z	3771	723	86.2	47.6	12.1	.1917	.0999	.1503	33.5	.1440	30.6
NMC	3771	723	87.6	51.5	10.4	.1917	.0899	.1503	40.2	.1440	37.6
18Z	3787	772	85.0	46.1	12.7	.2039	.1078	.1576	31.6	.1504	28.3
NMC	3787	772	87.2	49.1	10.0	.2039	.0977	.1576	38.0	.1504	35.0
WESTERN											
06Z	2595	562	84.9	55.0	15.9	.2166	.1096	.1473	25.6	.1360	19.4
NMC	2595	562	87.0	62.0	12.7	.2166	.0891	.1473	39.5	.1360	34.5
18Z	2630	550	84.4	53.0	14.9	.2091	.1093	.1424	23.2	.1341	18.4
NMC	2630	550	87.3	61.3	12.9	.2091	.0918	.1424	35.5	.1341	31.5
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	13619	2818	86.3	53.6	13.1	.2069	.1000	.1543	35.2	.1472	32.0
NMC	13619	2818	87.5	58.6	11.9	.2069	.0901	.1543	41.6	.1472	38.8
18Z	13816	2847	85.4	52.3	13.7	.2061	.1039	.1534	32.3	.1461	28.9
NMC	13816	2847	87.0	56.0	11.5	.2061	.0943	.1534	38.5	.1461	35.4

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST
MP = MEAN PROBABILITY FORECAST
MN = RELATIVE PRECIPITATION FREQUENCY
PF = Brier Score
B = CLIMATOLOGICAL Brier Score
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS

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2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3992	1064	82.9	56.4	17.4	.2665	.1224	.1917	36.2	.1841	33.5
NMC	3992	1064	81.5	55.7	17.9	.2665	.1286	.1917	32.9	.1841	30.1
18Z	4035	1064	82.3	57.3	18.9	.2637	.1224	.1905	35.8	.1859	33.5
NMC	4035	1064	82.3	56.9	18.3	.2637	.1214	.1905	34.0	.1841	34.0
SOUTHERN											
06Z	3288	431	88.3	39.7	10.6	.1311	.0852	.1094	25.1	.1026	16.9
NMC	3288	431	88.8	39.7	8.9	.1311	.0818	.1094	25.2	.1026	20.2
18Z	3370	501	86.6	38.3	11.3	.1487	.0946	.1214	22.1	.1050	17.9
NMC	3370	501	86.6	38.1	9.6	.1487	.0944	.1214	11.4	.1152	18.1
CENTRAL											
06Z	3768	760	83.9	42.8	14.6	.2017	.1175	.1559	24.6	.1478	20.5
NMC	3768	760	84.1	41.6	12.4	.2017	.1146	.1539	26.5	.1478	22.5
18Z	3790	741	84.2	44.3	14.2	.1955	.1116	.1526	26.9	.1490	23.8
NMC	3790	741	84.3	43.4	12.9	.1955	.1109	.1526	16.8	.1466	24.4
WESTERN											
06Z	2606	550	83.2	51.9	16.7	.2111	.1155	.1424	18.9	.1337	13.6
NMC	2606	550	83.6	51.2	14.3	.2111	.1122	.1424	21.2	.1337	16.1
18Z	2622	572	82.0	48.6	16.6	.2182	.1222	.1481	17.5	.1359	11.4
NMC	2622	572	84.2	53.9	14.5	.2182	.1088	.1481	15.5	.1379	21.1
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	13654	2805	84.5	49.2	14.7	.2054	.1108	.1526	27.4	.1448	23.5
NMC	13654	2805	84.4	48.6	13.3	.2054	.1103	.1526	27.7	.1448	23.8
18Z	13817	2878	83.8	48.9	15.2	.2083	.1126	.1552	27.4	.1465	24.0
NMC	13817	2878	84.3	49.6	13.8	.2083	.1096	.1552	18.6	.1482	26.1

F = NUMBER OF FORECASTS
 PC = PERCENT OF PRECIPITATION CORRECT
 MP = MEAN PROBABILITY FORECAST, PRECIPITATION
 MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 PF = RELATIVE FREQUENCY
 B = Brier Score
 BC = CLIMATOLOGICAL Brier Score
 S = PRECENT IMPROVEMENT OF B OVER BC
 BS = PRECENT IMPROVEMENT OF B OVER BS
 SS = PERCENT IMPROVEMENT OF B OVER BS

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3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3991	1040	80.6	47.8	19.0	.2606	.1378	.1887	27.0	.1819	24.3
NMC	3991	1040	80.3	49.0	19.3	.2606	.1382	.1887	26.7	.1819	24.0
18Z	4035	1093	77.4	50.1	23.0	.2709	.1490	.1932	22.9	.1859	19.8
NMC	4035	1093	78.9	49.1	20.8	.2709	.1453	.1932	24.8	.1859	21.8
SOUTHERN											
06Z	3282	468	86.4	30.3	11.1	.1426	.0995	.1175	15.3	.1112	10.5
NMC	3282	468	86.4	31.5	9.8	.1426	.0991	.1175	15.7	.1112	10.9
18Z	3375	456	86.3	29.1	12.0	.1351	.1004	.1116	10.1	.1050	4.4
NMC	3375	456	86.6	28.1	9.5	.1351	.0989	.1116	11.4	.1050	5.8
CENTRAL											
06Z	3769	735	82.2	35.0	15.0	.1950	.1267	.1525	16.9	.1465	13.6
NMC	3769	735	81.6	33.4	14.1	.1950	.1310	.1525	14.1	.1465	10.6
18Z	3785	764	81.6	37.2	17.1	.2018	.1300	.1563	16.8	.1490	12.7
NMC	3785	764	82.2	33.9	14.1	.2018	.1301	.1563	16.8	.1490	12.7
WESTERN											
06Z	2597	568	82.1	46.4	18.4	.2187	.1267	.1489	14.9	.1389	8.8
NMC	2597	568	80.8	45.4	15.2	.2187	.1252	.1489	15.8	.1389	9.9
18Z	2631	567	82.0	45.3	18.2	.2155	.1274	.1446	11.9	.1359	6.2
NMC	2631	567	82.3	46.0	15.0	.2155	.1216	.1446	15.9	.1359	10.3
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	13639	2811	82.7	41.3	15.7	.2061	.1234	.1540	19.3	.1469	16.0
NMC	13639	2811	82.2	41.3	14.7	.2061	.1243	.1540	19.3	.1469	15.4
18Z	13826	2880	81.6	42.4	17.5	.2083	.1278	.1539	17.0	.1465	12.8
NMC	13826	2880	82.4	41.1	14.9	.2083	.1253	.1539	18.6	.1465	14.5

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = MEAN PROBABILITY FORECAST, FREQUENCY
PF = MEAN PROBABILITY FORECAST, Brier Score
B = CLIMATOLOGICAL Brier Score
BC = PRECIPITATION IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS
SS =

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1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3515	3:9	7:6	48.9	0.7	5:1	75.5	19.5	4:1	0:8
FP	3515	3:6	7:6	52.1	0.4	4:8	78.5	18.0	3:0	0:5
18Z										
NMC	3734	3:7	8:1	52.2	-1:3	5:2	65.3	26.7	6:8	1:3
FP	3734	3:9	8:1	52.2	-1:3	4:6	75.3	20.7	3:6	0:5
SOUTHERN										
06Z										
NMC	2916	3:5	6:4	44.3	0.9	4:6	79.8	15.9	3:7	0:8
FP	2916	3:2	6:4	49.8	0.7	4:4	82.5	14.0	3:5	0:7
18Z										
NMC	3149	3:4	7:0	36.6	-1:5	5:4	69.2	23.4	6:6	0:8
FP	3149	3:6	7:0	48.5	-1:2	4:5	78.9	17.2	6:2	0:7
CENTRAL										
06Z										
NMC	3337	4:3	7:8	44.1	1:6	5:1	70.1	23.5	5:0	1:4
FP	3337	3:9	7:8	49.2	1:0	5:0	74.6	20.5	4:1	0:8
18Z										
NMC	3499	5:1	7:9	35.3	-1:9	5:2	61.4	28.4	8:1	2:9
FP	3499	4:2	7:9	47.1	-1:6	5:1	71.1	23.6	4:4	2:9
WESTERN										
06Z										
NMC	2316	3:4	4:9	29.8	0:2	5:6	80.9	15.8	2:5	0:8
FP	2316	3:1	4:9	33.4	0:3	5:6	83.9	14.0	1:8	0:8
18Z										
NMC	2454	3:8	5:1	26.5	-0:3	6:7	77.4	17.9	3:6	1:1
FP	2454	3:5	5:1	32.3	-0:5	6:3	81.4	14.6	3:3	0:8
ALASKAN										
06Z										
NMC	0	0:0	4:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	4:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z										
NMC	0	0:0	6:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	6:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z										
NMC	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z										
NMC	0	0:0	2:9	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	2:9	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z										
NMC	12084	3:8	6:7	42.6	0:9	5:0	76.1	19.0	3:9	1:0
FP	12084	3:5	6:7	47.3	0:6	4:8	79.4	17.0	3:0	0:6
18Z										
NMC	12836	4:6	7:1	35.7	-1:2	5:9	67.5	24.7	6:5	1:3
FP	12836	3:8	7:1	46.5	-1:2	4:9	76.2	19.5	3:6	0:7

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT1973 MAR 1974 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3329	5:2	8:1	35.1	-1.7	5:9	60.1	29.1	8:6	2:1
18Z	3329	4:6	8:1	43.3	-0.7	5:4	66.8	23.9	6:2	1:1
NMC	3702	4:5	7:6	41.1	0:8	5:2	68.3	24.4	5:9	1:4
18Z	3702	4:3	7:6	43.1	-0:2	5:4	71.1	22.2	5:3	1:4
SOUTHERN										
06Z										
NMC	2750	5:0	7:0	27.8	-1:3	5:5	62.7	26.8	8:5	2:0
18Z	2750	4:4	7:0	36.8	-0:8	5:6	69.2	23.7	5:7	1:3
NMC	3143	4:2	6:3	34.0	1:4	5:6	73.4	19.4	5:0	2:2
18Z	3143	3:8	6:3	39.4	0:4	5:6	76.1	17.9	4:6	1:3
CENTRAL										
06Z										
NMC	3156	5:8	7:9	27.1	-2:1	6:3	55.7	29.7	11:1	3:6
18Z	3156	5:1	7:9	35.2	-1:1	6:3	63.0	26.3	7:9	2:7
NMC	3490	5:1	7:8	34.4	0:4	5:7	65.9	25.1	7:1	1:9
18Z	3490	4:8	7:8	38.4	0:1	6:2	62.9	25.1	7:1	1:9
WESTERN										
06Z										
NMC	2193	4:4	5:1	14.6	-1:0	6:4	71.8	20.3	5:7	2:2
18Z	2193	4:0	5:1	22.1	-0:6	6:7	74.0	20.8	3:8	1:5
NMC	2439	4:2	4:8	13.4	0:9	6:2	73.4	21.0	4:0	1:6
18Z	2439	3:6	4:8	24.8	0:1	6:3	77.8	18.4	3:2	0:7
ALASKAN										
06Z										
NMC	0	0:0	6:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	6:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	4:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	4:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z										
NMC	0	0:0	2:9	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	2:9	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z										
NMC	11428	5:2	7:1	27.3	-1:6	6:0	61.8	27.0	8:7	2:5
18Z	11428	4:6	7:1	35.7	-0:8	5:9	67.7	24.5	6:1	1:7
NMC	12774	4:5	6:7	32.4	1:3	5:6	69.1	23.1	5:9	2:0
18Z	12774	4:2	6:7	37.2	0:2	5:8	72.2	21.2	5:2	1:4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = MEAN PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE TEMPERATURE ERROR
 T = WHEN TV EXCEEDS 10 DEGREES
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

OCT1973 MAR 1974

3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3304	4.8	7.6	37.5	1.4	6.0	66.8	23.4	7.5	2.3
FP	3304	4.9	7.6	34.9	0.4	6.4	64.2	25.2	8.0	2.6
18Z										
NMC	3715	5.6	8.1	30.5	-1.8	6.3	57.3	28.0	11.9	2.8
FP	3715	5.2	8.1	35.5	-0.6	6.3	61.2	28.5	7.9	2.4
SOUTHERN										
06Z										
NMC	2731	4.5	6.3	28.5	1.3	5.9	69.5	22.1	6.1	2.3
FP	2731	4.4	6.3	30.6	0.8	6.1	69.1	22.5	6.2	2.2
18Z										
NMC	3162	5.2	7.0	25.3	-1.2	6.4	60.7	28.2	8.9	2.3
FP	3162	5.0	7.0	27.8	-1.0	6.4	62.7	26.9	8.1	2.4
CENTRAL										
06Z										
NMC	3139	5.7	7.8	26.3	2.1	6.8	58.3	26.8	10.2	4.7
FP	3139	5.6	7.8	28.3	0.9	7.0	58.5	27.8	10.1	3.7
18Z										
NMC	3477	6.0	7.9	24.1	-1.8	6.7	55.5	27.7	12.1	4.7
FP	3477	5.7	7.9	27.8	-1.4	6.7	58.1	27.4	10.1	4.4
WESTERN										
06Z										
NMC	2182	4.5	4.8	6.7	0.6	7.1	68.9	23.4	5.8	1.9
FP	2182	4.4	4.8	10.0	0.1	7.1	70.7	22.6	4.9	1.8
18Z										
NMC	2445	4.6	5.2	10.5	-0.4	7.2	69.4	20.9	6.8	2.2
FP	2445	4.5	5.2	12.6	-0.8	7.1	69.0	23.0	5.9	2.2
ALASKAN										
06Z										
NMC	0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FP	0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z										
NMC	0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FP	0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z										
NMC	0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FP	0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z										
NMC	0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FP	0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z										
NMC	11356	4.9	6.7	26.5	1.4	6.4	65.5	24.0	7.6	2.9
FP	11356	4.9	6.7	27.0	0.6	6.6	65.0	24.8	7.6	2.6
18Z										
NMC	12799	5.4	7.1	23.8	-1.4	6.4	59.9	26.6	10.2	3.2
FP	12799	5.1	7.1	27.5	-0.9	6.6	62.2	26.8	8.2	3.2

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0
 T3 = 1
 T4 = 1
 GREATER THAN 15 DEGREES

APR 1974 SEP 1974 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3497	670	79.9	44.7	16.0	.2488	.1374	.1877	26.8	.1771	22.4
NMC	3497	670	82.2	53.7	18.0	.2488	.1236	.1877	34.2	.1771	30.2
18Z	3589	654	79.7	42.2	15.9	.2379	.1381	.1820	29.4	.1741	26.2
NMC	3589	654	81.7	49.9	17.3	.2379	.1285	.1820	29.4	.1741	26.2
SOUTHERN											
06Z	3401	700	81.4	37.5	16.1	.2058	.1320	.1570	15.9	.1455	9.3
NMC	3401	700	81.9	45.3	16.2	.2058	.1166	.1570	25.8	.1455	19.9
18Z	3492	560	84.5	31.0	13.4	.1604	.1146	.1337	14.7	.1245	8.0
NMC	3492	560	85.5	38.4	13.6	.1604	.1047	.1337	21.7	.1245	15.9
CENTRAL											
06Z	3131	604	84.5	38.9	12.3	.1929	.1161	.1539	24.6	.1457	20.4
NMC	3131	604	84.9	44.3	13.3	.1929	.1064	.1539	30.8	.1457	27.0
18Z	3227	660	82.9	35.3	13.1	.2045	.1294	.1608	19.5	.1523	15.0
NMC	3227	660	83.9	41.4	13.2	.2045	.1177	.1608	26.8	.1523	22.7
WESTERN											
06Z	2291	241	90.7	34.1	7.0	.1052	.0705	.0867	18.7	.0792	11.0
NMC	2291	241	91.4	46.3	9.0	.1052	.0624	.0867	28.1	.0792	21.2
18Z	2369	254	89.4	33.4	7.4	.1072	.0738	.0894	17.5	.0813	9.2
NMC	2369	254	90.7	45.9	8.7	.1072	.0643	.0894	28.2	.0813	20.9
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	12320	2415	83.5	40.1	13.2	.1960	.1180	.1518	22.3	.1422	17.0
NMC	12320	2415	84.6	48.2	14.4	.1960	.1059	.1518	30.3	.1422	25.5
18Z	12677	2328	83.5	36.6	12.8	.1836	.1174	.1460	19.6	.1376	14.6
NMC	12677	2328	85.0	44.3	13.5	.1836	.1072	.1460	26.6	.1376	22.1

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST
MP = MEAN PROBABILITY FORECAST
MN = MEAN PROBABILITY FORECAST
PF = MEAN PROBABILITY FORECAST
B = BRIER SCORE
BC = CLIMATOLOGICAL BRIER SCORE
BS = PRESENT IMPROVEMENT OF B OVER BC
SS = PERCENT IMPROVEMENT OF B OVER BS

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3494	859	79.0	39.4	15.7	.2459	.1478	.1874	23.2	.1777	16.9
18Z	3494	859	78.9	43.4	18.1	.2459	.1437	.1874	23.3	.1777	19.1
06Z	3593	924	79.2	41.4	16.1	.2572	.1470	.1928	23.7	.1724	19.2
18Z	3593	924	79.8	45.9	18.6	.2572	.1410	.1928	13.4	.1819	22.5
SOUTHERN											
06Z	3397	540	84.2	30.9	14.3	.1590	.1156	.1332	13.0	.1237	6.3
18Z	3397	540	84.7	33.4	14.3	.1590	.1119	.1332	16.0	.1237	9.5
06Z	3492	694	80.8	34.6	15.8	.1987	.1315	.1513	13.1	.1223	7.9
18Z	3492	694	81.0	38.0	16.2	.1987	.1275	.1513	17.6	.1415	9.9
CENTRAL											
06Z	3132	646	80.8	34.1	14.9	.2063	.1386	.1621	14.5	.1539	10.0
18Z	3132	646	81.4	36.4	15.1	.2063	.1339	.1621	17.4	.1539	13.0
06Z	3219	602	83.8	35.0	13.4	.1870	.1210	.1501	19.4	.1516	14.7
18Z	3219	602	84.6	36.6	13.9	.1870	.1181	.1501	11.2	.1419	16.8
WESTERN											
06Z	2288	245	90.0	31.2	8.6	.1071	.0760	.0897	15.3	.0808	5.7
18Z	2288	245	89.6	36.0	9.4	.1071	.0737	.0897	17.8	.0808	8.7
06Z	2366	250	89.7	32.6	7.9	.1057	.0739	.0873	15.3	.0766	8.1
18Z	2366	250	90.4	40.3	9.5	.1057	.0683	.0873	12.1	.0804	15.1
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	12311	2290	82.9	35.0	13.7	.1860	.1233	.1479	16.6	.1387	11.1
18Z	12311	2290	83.1	39.0	14.5	.1860	.1194	.1479	19.2	.1387	13.9
06Z	12670	2470	82.8	37.0	13.6	.1949	.1225	.1508	18.8	.1354	13.5
18Z	12670	2470	83.4	40.8	14.9	.1949	.1179	.1508	11.2	.1416	16.8

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST
 MP = MEAN PROBABILITY FORECAST
 MN = MEAN PROBABILITY FORECAST
 PF = MEAN PROBABILITY FORECAST
 B = Brier Score
 BC = Brier Score
 S = CLIMATOLOGICAL Brier Score
 BS = CLIMATOLOGICAL Brier Score
 SS = SAMPLE IMPROVEMENT OF B OVER BS

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3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3486	902	76.6	38.6	18.6	.2587	.1582	.1943	18.6	.1809	12.6
NMC	3486	902	77.1	41.6	20.5	.2587	.1582	.1943	18.6	.1809	12.6
18Z	3584	843	77.5	34.4	17.0	.2352	.1552	.1803	13.9	.1724	9.9
18Z	3584	843	76.6	36.1	18.3	.2352	.1552	.1803	13.4	.1724	9.5
SOUTHERN											
06Z	3383	696	79.4	28.0	15.1	.2057	.1444	.1574	8.2	.1451	0.4
NMC	3383	696	78.8	32.4	16.4	.2057	.1413	.1574	10.2	.1451	2.6
18Z	3486	548	84.5	23.8	13.6	.1572	.1229	.1314	6.4	.1223	-0.5
18Z	3486	548	84.1	25.8	13.8	.1572	.1214	.1314	7.6	.1223	-0.8
CENTRAL											
06Z	3118	613	80.8	29.6	14.4	.1966	.1362	.1563	12.8	.1477	7.8
NMC	3118	613	80.9	30.6	14.8	.1966	.1352	.1563	13.5	.1477	8.4
18Z	3211	651	80.1	30.6	16.3	.2027	.1443	.1596	9.6	.1516	4.8
18Z	3211	651	80.9	29.8	15.1	.2027	.1417	.1596	11.2	.1516	6.6
WESTERN											
06Z	2284	229	89.4	27.9	8.7	.1003	.0770	.0839	8.2	.0764	-0.8
NMC	2284	229	90.1	33.9	9.4	.1003	.0722	.0839	13.9	.0764	-5.5
18Z	2359	236	89.8	29.2	9.6	.1000	.0782	.0847	7.7	.0766	-2.1
18Z	2359	236	90.3	32.9	9.9	.1000	.0745	.0847	12.1	.0766	-2.8
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	12271	2440	80.8	32.3	14.5	.1988	.1337	.1539	13.1	.1431	6.6
NMC	12271	2440	80.9	35.5	15.6	.1988	.1317	.1539	14.4	.1431	8.0
18Z	12640	2278	82.4	30.2	14.5	.1802	.1292	.1437	10.1	.1354	4.6
18Z	12640	2278	82.3	31.3	14.5	.1802	.1276	.1437	11.2	.1354	5.6

F = NUMBER OF FORECASTS
 P = NUMBER OF PRECIPITATION CASES
 PC = TOTAL PERCENT CORRECT
 MP = MEAN PROBABILITY FORECAST
 MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 PF = RELATIVE FREQUENCY
 B = Brier Score
 BC = CLIMATOLOGICAL Brier Score
 S = PERCENT IMPROVEMENT OF B OVER BC
 BS = SAMPLE Brier Score
 SS = PERCENT IMPROVEMENT OF B OVER BS

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1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3761	3:3	5:7	41:4	0:3	5:6	82:4	14:0	2:0	0:7
FP	3761	3:1	5:7	46:0	0:3	5:1	84:1	15:4	2:1	0:4
18Z										
NMC	3836	3:4	5:5	37:5	-1:0	5:1	80:6	16:9	2:0	0:5
FP	3836	3:0	5:5	45:3	-0:8	4:3	85:6	13:0	1:2	0:2
SOUTHERN										
06Z										
NMC	3683	2:8	3:8	26:4	1:0	5:9	87:9	8:6	2:2	0:4
FP	3683	2:5	3:8	33:0	0:9	5:9	87:3	8:7	1:8	0:2
18Z										
NMC	3773	2:9	3:7	23:0	-0:8	4:7	86:7	11:9	1:1	0:3
FP	3773	2:5	3:7	31:6	-0:6	4:5	90:1	8:8	1:0	0:2
CENTRAL										
06Z										
NMC	3329	3:7	6:5	43:7	0:3	5:3	76:3	19:9	3:3	0:5
FP	3329	3:6	6:5	45:1	0:4	5:3	78:7	17:8	2:9	0:5
18Z										
NMC	3420	3:7	5:8	35:7	-0:9	4:7	76:7	20:6	2:4	0:3
FP	3420	3:4	5:8	41:5	-0:8	4:6	81:4	16:5	1:8	0:3
WESTERN										
06Z										
NMC	2462	3:2	4:6	30:5	0:4	6:0	83:8	13:0	2:6	0:6
FP	2462	2:8	4:6	38:1	0:4	5:9	87:9	9:9	1:8	0:4
18Z										
NMC	2540	2:9	3:6	18:5	-0:3	6:3	85:6	12:7	1:6	0:1
FP	2540	2:9	3:6	19:5	-0:3	6:3	87:3	11:1	1:3	0:1
ALASKAN										
06Z										
NMC	0	0:0	4:9	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	4:9	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z										
NMC	0	0:0	3:8	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	3:8	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z										
NMC	0	0:0	1:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	1:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z										
NMC	0	0:0	2:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	2:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z										
NMC	13235	3:3	5:1	36:1	0:5	5:6	82:6	14:1	2:8	0:5
FP	13235	3:0	5:1	41:0	0:5	5:4	84:9	12:6	2:2	0:4
18Z										
NMC	13569	3:2	4:6	30:2	-0:7	5:0	82:3	15:6	1:8	0:3
FP	13569	2:9	4:6	36:6	-0:6	4:6	86:1	12:4	1:3	0:2

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED
 TC = MEAN IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR
 T = MEAN TEMPERATURE ERROR CLASSES WHEN TV EXCEEDS 10
 T2 = 0
 T3 = 1
 T4 = 15
 11 - 15
 6 - 10
 0 - 5
 DEGREES
 TEMPERATURE ERROR CLASSES WHEN TV EXCEEDS 10

11 - 15
 6 - 10
 0 - 5
 DEGREES
 TEMPERATURE ERROR CLASSES WHEN TV EXCEEDS 10

11 - 15
 6 - 10
 0 - 5
 DEGREES
 TEMPERATURE ERROR CLASSES WHEN TV EXCEEDS 10

11 - 15
 6 - 10
 0 - 5
 DEGREES
 TEMPERATURE ERROR CLASSES WHEN TV EXCEEDS 10

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	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	3524	3.4	5.5	37.4	-1.0	4.5	80.3	17.5	1.9	0.3
MFC	3524	3.3	5.5	40.2	-0.5	4.3	82.4	15.7	1.7	0.2
18Z	3799	3.9	5.6	31.8	0.0	5.5	76.6	18.0	4.2	1.2
MFC	3799	3.5	5.6	37.4	-0.1	5.5	79.2	16.4	3.5	0.9
SOUTHERN										
06Z	3450	3.2	3.7	12.9	-0.7	5.1	82.0	15.6	2.1	0.4
MFC	3450	2.9	3.7	22.2	-0.3	5.1	86.6	11.6	1.5	0.3
18Z	3722	3.7	3.7	2.2	1.8	6.7	78.0	17.1	3.8	1.1
MFC	3722	3.0	3.7	18.9	0.9	6.7	84.7	11.5	2.8	0.6
CENTRAL										
06Z	3149	4.0	5.8	31.3	-0.8	5.1	73.9	22.2	3.6	0.3
MFC	3149	3.8	5.8	34.6	-0.5	5.1	76.0	20.6	3.1	0.3
18Z	3362	4.7	6.5	27.4	0.2	5.9	67.1	23.2	7.0	2.0
MFC	3362	4.2	6.5	34.7	0.2	6.0	71.6	22.2	5.0	1.2
WESTERN										
06Z	2332	3.1	3.6	13.4	0.0	5.6	83.8	14.2	1.8	0.2
MFC	2332	3.0	3.6	15.9	-0.1	6.6	84.7	12.5	2.1	0.3
18Z	2495	4.1	4.6	11.8	1.3	6.5	73.9	20.3	4.3	1.5
MFC	2495	3.4	4.6	25.7	0.2	6.7	80.8	15.1	3.2	0.9
ALASKAN										
06Z	0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MFC	0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MFC	0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MFC	0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MFC	0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	12455	3.4	4.6	25.7	-0.7	4.7	79.8	17.5	2.4	0.3
MFC	12455	3.2	4.6	30.1	-0.4	4.9	82.4	15.3	2.1	0.3
18Z	13378	4.1	5.1	20.9	0.8	6.0	74.1	19.7	4.8	1.4
MFC	13378	3.6	5.1	29.9	0.3	6.0	79.1	16.4	3.6	0.9

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = TEMPERATURE FORECAST ERROR CLASSES
 T2 = 10 - 15
 T3 = 15 - 20
 T4 = GREATER THAN 20 DEGREES

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3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3587	3:9	5:6	30:0	0:4	6:1	75:8	18:5	4:7	1:1
18Z	3587	4:0	5:6	29:6	0:3	6:2	75:0	18:7	4:9	1:3
FM										
18Z	3757	3:8	5:4	30:2	-1:5	4:6	75:5	21:6	3:7	0:2
FM	3757	3:8	5:4	31:1	-0:9	5:0	77:0	19:3	3:2	0:5
SOUTHERN										
06Z										
NMC	3490	3:6	3:7	4:0	1:6	7:5	80:2	14:4	3:9	1:4
18Z	3490	3:4	3:7	10:2	1:2	7:4	81:3	13:9	3:2	1:4
FM										
18Z	3693	3:4	3:6	6:2	-0:5	5:4	80:0	17:1	2:4	0:7
FM	3693	3:3	3:6	9:6	-0:3	6:0	81:7	15:4	2:3	0:7
CENTRAL										
06Z										
NMC	3182	4:7	6:5	26:7	0:6	6:4	66:7	24:4	7:0	1:9
18Z	3182	4:7	6:5	26:8	0:5	6:5	66:3	24:7	7:3	1:8
FM										
18Z	3344	4:5	5:7	21:6	-0:9	5:1	67:9	25:7	5:3	1:2
FM	3344	4:4	5:7	23:6	-0:8	5:7	69:3	24:9	4:7	1:2
WESTERN										
06Z										
NMC	2352	4:3	4:6	7:4	0:5	6:9	70:1	23:6	5:1	1:3
18Z	2352	4:0	4:6	13:6	0:2	7:6	74:8	19:2	4:5	1:5
FM										
18Z	2486	3:4	3:6	7:0	-0:1	7:3	81:5	17:1	2:7	0:2
FM	2486	3:5	3:6	4:4	0:6	7:4	81:5	15:3	2:5	0:2
ALASKAN										
06Z										
NMC	0	0:0	4:9	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	4:9	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FM										
18Z	0	0:0	3:8	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FM	0	0:0	3:8	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z										
NMC	0	0:0	1:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	1:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FM										
18Z	0	0:0	2:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FM	0	0:0	2:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z										
NMC	12611	4:1	5:1	18:8	0:8	6:5	73:7	19:8	5:1	1:4
18Z	12611	4:0	5:1	21:1	0:6	6:7	74:6	19:0	4:9	1:5
FM										
18Z	13280	3:8	4:6	17:9	-0:7	5:1	75:7	20:5	3:3	0:5
FM	13280	3:7	4:6	19:2	-0:5	5:6	77:2	18:9	3:2	0:6

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE IMPROVEMENT OVER TV
 TC = PERCENT ABSOLUTE FORECAST ERROR
 TG = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 TM = MEAN ABSOLUTE TEMPERATURE ERROR CLASSES
 T = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

OCT 1974 MAR 1975 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z											
NMC	2580	705	85.3	58.0	12.1	.2733	.1074	.1917	44.0	.1796	40.2
18Z	2580	705	86.9	67.4	14.7	.2733	.0955	.1917	50.2	.1796	46.9
18Z	2497	654	85.3	60.2	13.3	.2619	.1061	.1871	43.3	.1784	40.5
18Z	2497	654	85.2	64.3	14.7	.2619	.1028	.1871	45.1	.1784	42.4
SOUTHERN											
06Z											
NMC	2605	447	85.7	44.7	1.8	.1716	.1036	.1396	25.8	.1296	20.1
18Z	2605	447	87.4	50.9	9.9	.1716	.0857	.1396	38.6	.1296	33.9
18Z	2521	390	87.3	47.0	11.7	.1547	.0924	.1264	26.9	.1197	22.8
18Z	2521	390	89.4	51.1	9.1	.1547	.0779	.1264	38.4	.1197	34.9
CENTRAL											
06Z											
NMC	2411	537	84.6	44.4	10.4	.2227	.1149	.1714	32.9	.1596	28.0
18Z	2411	537	86.3	49.9	10.1	.2227	.0992	.1714	42.1	.1596	37.8
18Z	2329	544	84.2	47.6	11.2	.2336	.1126	.1745	35.5	.1635	31.1
18Z	2329	544	85.9	53.3	11.4	.2336	.1016	.1745	41.8	.1635	37.8
WESTERN											
06Z											
NMC	1662	341	84.2	46.1	11.4	.2052	.1084	.1458	25.6	.1323	18.0
18Z	1662	341	86.6	57.4	12.4	.2052	.0930	.1458	36.2	.1323	29.7
18Z	1582	328	84.0	44.8	11.1	.2073	.1086	.1472	26.2	.1339	18.9
18Z	1582	328	86.7	57.3	11.9	.2073	.0932	.1472	36.7	.1339	30.4
ALASKAN											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z											
NMC	9258	2030	85.0	49.5	11.4	.2193	.1085	.1635	33.7	.1518	28.6
18Z	9258	2030	86.9	57.4	11.6	.2193	.0933	.1635	43.0	.1518	38.6
18Z	8929	1916	85.4	51.3	11.9	.2146	.1044	.1596	34.6	.1501	30.4
18Z	8929	1916	86.8	57.3	11.7	.2146	.0937	.1596	41.3	.1501	37.5

F = NUMBER OF FORECASTS
 P = TOTAL PRECIPITATION CORRECT
 PC = MEAN PROBABILITY FORECAST, PRECIPITATION
 MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MN = RELATIVE PRECIPITATION FREQUENCY
 PF = Brier Score
 B = CLIMATE Brier Score
 BC = PRECIPITATION Brier Score
 S = SAMPLING ERROR OF B OVER BC
 BS = PERCENT IMPROVEMENT OF B OVER BS

OCT 1974 MAR 1975

2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	2543	678	83.9	52.1	13.6	.2666	.1180	.1893	37.6	.1811	34.8
NMC	2543	678	83.2	55.5	15.5	.2666	.1183	.1893	37.5	.1811	34.6
18Z	2484	717	81.8	53.1	17.2	.2886	.1292	.1999	35.4	.1821	31.1
NMC	2484	717	81.4	55.4	17.2	.2886	.1294	.1999	21.8	.1875	31.0
SOUTHERN											
06Z	2551	405	85.2	39.7	12.9	.1588	.1042	.1296	19.6	.1224	14.8
NMC	2551	405	86.4	40.7	10.9	.1588	.0977	.1296	24.6	.1224	20.1
18Z	2513	422	83.8	41.4	14.6	.1679	.1122	.1374	18.4	.1183	13.0
NMC	2513	422	85.6	40.6	11.1	.1679	.1029	.1374	17.4	.1289	20.2
CENTRAL											
06Z	2335	543	83.3	44.3	13.3	.2325	.1222	.1745	29.9	.1629	25.0
NMC	2335	543	83.4	44.3	12.9	.2325	.1197	.1745	31.4	.1629	26.5
18Z	2326	517	83.1	41.9	13.7	.2223	.1261	.1717	26.5	.1623	20.9
NMC	2326	517	82.3	43.3	14.6	.2223	.1265	.1717	17.1	.1594	20.7
WESTERN											
06Z	1590	331	83.8	40.5	12.6	.2082	.1202	.1483	19.0	.1346	10.7
NMC	1590	331	83.1	45.9	12.7	.2082	.1130	.1483	23.9	.1346	16.1
18Z	1604	330	83.4	46.9	14.6	.2057	.1151	.1485	22.4	.1310	14.7
NMC	1604	330	83.7	50.1	14.4	.2057	.1100	.1485	10.1	.1350	18.5
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	9019	1957	83.9	44.9	13.1	.2170	.1156	.1613	28.4	.1516	23.8
NMC	9019	1957	84.1	47.7	12.9	.2170	.1119	.1613	30.6	.1516	26.1
18Z	8927	1986	83.0	46.7	14.5	.2225	.1211	.1657	26.9	.1499	21.5
NMC	8927	1986	83.3	48.2	14.2	.2225	.1177	.1657	17.6	.1543	23.7

F = NUMBER OF FORECASTS
 P = TOTAL PRECIPITATION CASES
 PC = MEAN PROBABILITY FORECAST
 MP = MEAN PROBABILITY FORECAST
 MN = MEAN PROBABILITY FORECAST
 PF = MEAN PROBABILITY FORECAST
 B = Brier Score
 BC = Brier Score
 S = PRECIPITATION IMPROVEMENT OF B OVER BC
 BS = PRECIPITATION IMPROVEMENT OF B OVER BS
 SS = PRECIPITATION IMPROVEMENT OF B OVER BS

OCT 1974 MAR 1975 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	2580	759	78.2	41.8	14.5	.2942	.1534	.2036	24.6	.1919	20.1
NMC	2580	759	78.8	45.9	17.4	.2942	.1497	.2036	26.4	.1919	22.0
18Z	2448	661	78.7	44.7	18.3	.2700	.1487	.1906	22.0	.1821	18.4
NMC	2448	661	79.1	45.9	19.0	.2700	.1490	.1906	21.8	.1821	18.2
SOUTHERN											
06Z	2586	436	84.5	32.3	11.8	.1686	.1127	.1380	18.4	.1297	13.1
NMC	2586	436	84.7	33.1	11.2	.1686	.1134	.1380	17.9	.1297	12.6
18Z	2468	378	85.7	37.8	15.1	.1532	.1057	.1267	17.1	.1183	11.2
NMC	2468	378	85.9	33.2	11.3	.1532	.1047	.1267	17.4	.1183	11.4
CENTRAL											
06Z	2389	537	80.9	35.6	14.8	.2248	.1383	.1734	20.2	.1612	14.2
NMC	2389	537	80.9	35.5	14.6	.2248	.1396	.1734	19.5	.1612	13.4
18Z	2277	524	80.0	38.2	18.8	.2301	.1458	.1735	16.4	.1623	11.4
NMC	2277	524	79.4	35.7	16.0	.2301	.1438	.1735	17.1	.1623	11.4
WESTERN											
06Z	1646	340	82.1	39.1	13.9	.2066	.1283	.1483	13.5	.1343	4.5
NMC	1646	340	82.4	41.9	13.3	.2066	.1235	.1483	16.7	.1343	8.1
18Z	1558	318	81.3	39.3	15.6	.2041	.1277	.1455	12.2	.1310	2.5
NMC	1558	318	80.9	39.3	14.4	.2041	.1308	.1455	10.1	.1310	0.2
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	9201	2072	81.4	37.8	13.7	.2252	.1335	.1674	20.2	.1561	14.5
NMC	9201	2072	81.6	39.9	14.2	.2252	.1322	.1674	21.1	.1561	15.3
18Z	8751	1881	81.5	40.6	16.9	.2149	.1317	.1601	17.8	.1499	12.1
NMC	8751	1881	81.4	39.4	15.1	.2149	.1319	.1601	17.6	.1499	12.0

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST
MN = MEAN PROBABILITY FORECAST FREQUENCY
PF = PERCENT IMPROVEMENT OF B OVER BS
B = Brier Score
BC = Brier Score
S = Percent Improvement of B over BC
BS = Percent Improvement of B over BS
SS = Percent Improvement of B over BS

OCT 1974 MAR 1975 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	3557	3.9	7.2	46.0	1.2	4.9	76.0	19.6	3.6	0.7
NMC	3557	3.6	7.2	49.8	0.6	4.5	78.9	17.8	2.6	0.9
18Z	3514	4.5	7.8	42.5	-1.1	5.3	68.6	25.6	4.5	1.3
FM	3514	3.7	7.8	52.5	-1.0	4.4	79.2	17.2	2.3	1.3
SOUTHERN										
06Z	3563	3.9	6.6	41.7	0.8	5.4	75.9	18.8	3.7	1.5
NMC	3563	3.3	6.6	47.9	0.5	5.0	80.1	16.4	2.5	1.1
18Z	3460	4.6	7.0	34.5	-1.0	5.5	67.8	24.8	6.1	1.4
FM	3460	3.9	7.0	44.8	-1.0	4.8	76.4	19.2	3.1	1.2
CENTRAL										
06Z	3348	4.1	7.5	45.7	0.7	5.3	72.7	22.0	4.5	0.7
NMC	3348	3.7	7.5	51.0	0.6	4.8	77.2	19.4	2.8	0.6
18Z	3294	5.3	7.5	29.0	-1.8	6.3	59.9	29.1	8.5	2.6
FM	3294	4.3	7.5	42.4	-1.3	5.3	71.8	22.2	4.7	1.2
WESTERN										
06Z	2183	3.4	5.2	34.0	0.2	5.7	80.9	15.5	2.8	0.8
NMC	2183	3.3	5.2	37.1	0.6	5.4	83.3	13.7	2.0	0.9
18Z	2201	4.0	5.3	24.5	-0.1	7.0	76.3	18.1	4.1	1.5
FM	2201	3.7	5.3	29.7	-0.4	6.5	79.9	15.5	2.6	2.0
ALASKAN										
06Z	0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FM	0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FM	0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	12651	3.9	6.6	41.9	0.8	5.2	75.9	19.3	3.8	1.0
NMC	12651	3.5	6.6	46.8	0.6	4.8	79.5	17.1	2.5	0.9
18Z	12469	4.7	7.0	33.1	-1.1	5.8	67.4	25.0	5.9	1.7
FM	12469	3.9	7.0	43.7	-1.0	5.0	76.6	18.8	3.2	1.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = MEAN IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ALGEBRAIC FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = MEAN TERM TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT 1974 MAP 1975 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	IV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	3569	5.0	7.9	35.7	-1.8	5.5	61.9	29.8	6.6	1.8
NMC	3569	4.4	7.9	43.9	-0.9	5.0	70.2	24.3	3.9	1.5
18Z	3497	4.3	7.2	40.4	1.2	4.9	70.8	23.3	4.7	1.3
NMC	3497	4.0	7.2	43.9	0.0	5.1	74.2	20.8	3.8	1.1
SOUTHERN										
06Z	3512	5.1	7.0	27.5	-2.3	5.5	62.8	26.5	8.4	2.3
NMC	3512	4.4	7.0	37.1	-1.3	5.5	69.7	23.2	5.8	1.3
18Z	3500	4.6	6.7	31.0	1.6	5.9	69.2	22.1	6.1	2.6
NMC	3500	4.2	6.7	37.4	0.2	5.9	72.6	20.0	5.8	1.6
CENTRAL										
06Z	3349	6.2	7.5	17.9	-3.3	6.6	51.6	32.6	11.8	4.0
NMC	3349	5.0	7.5	32.9	-1.5	6.0	62.9	27.9	7.2	2.0
18Z	3288	4.9	7.5	34.6	1.6	5.8	64.4	26.7	5.5	2.5
NMC	3288	4.5	7.5	39.7	0.3	5.9	68.0	24.8	5.8	1.4
WESTERN										
06Z	2244	4.4	5.3	17.1	-1.0	6.6	71.3	21.6	5.4	1.7
NMC	2244	4.0	5.3	23.8	-0.4	6.5	75.4	19.7	3.5	1.4
18Z	2126	4.3	5.2	18.5	1.7	6.2	72.2	22.0	4.3	1.6
NMC	2126	3.9	5.2	26.3	0.4	6.2	76.9	18.0	2.8	1.6
ALASKAN										
06Z	0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	12674	5.2	7.0	24.8	-2.1	6.1	61.1	28.2	8.3	2.5
NMC	12674	4.5	7.0	35.3	-1.1	5.6	69.1	24.1	5.3	1.6
18Z	12411	4.5	6.6	31.9	1.5	5.7	68.9	23.6	5.5	2.0
NMC	12411	4.2	6.6	37.3	0.2	5.7	72.6	21.3	4.8	1.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE 24-HOUR OBSERVED ERROR
 IV = PERCENT IMPROVEMENT OVER TV
 TC = MEAN ALGEBRAIC FORECAST ERROR
 TG = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 TM = TEMPERATURE ERROR CLASSES
 T =
 T2 =
 T3 =
 T4 =
 0 - 5
 6 - 10
 11 - 15
 GREATER THAN 15 DEGREES

OCT 1974 MAR 1975 3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3553	4.5	7.2	37.0	0.9	6.0	68.7	24.5	5.2	1.6
18Z	3553	4.5	7.2	37.1	0.1	5.9	69.3	23.1	6.1	1.5
NMC	3502	5.4	7.8	31.6	-2.0	5.1	59.1	25.9	8.9	2.1
FP	3502	4.8	7.8	38.2	-1.3	5.8	66.0	25.9	8.2	2.0
SOUTHERN										
06Z										
NMC	3560	4.6	6.7	30.3	0.5	6.2	68.7	22.9	6.0	2.4
18Z	3560	4.6	6.7	31.5	0.0	6.4	68.5	22.7	6.7	2.1
NMC	3467	5.4	7.1	23.7	-1.7	6.2	59.1	28.9	9.1	2.9
FP	3467	5.2	7.1	26.9	-1.5	6.4	62.3	26.8	8.3	2.6
CENTRAL										
06Z										
NMC	3339	5.0	7.5	33.4	-0.2	6.3	62.1	28.2	7.7	1.9
18Z	3339	5.1	7.5	32.9	-0.1	6.5	62.8	27.8	7.0	2.3
NMC	3288	6.2	7.4	16.2	-2.8	6.4	51.8	31.6	12.4	4.3
FP	3288	5.7	7.4	23.3	-1.8	6.5	56.5	29.9	10.9	2.6
WESTERN										
06Z										
NMC	2177	4.4	5.2	16.3	0.9	6.5	69.9	23.8	4.6	1.7
18Z	2177	4.4	5.2	15.8	0.7	6.7	71.5	21.8	4.8	1.8
NMC	2196	4.5	5.3	14.5	-0.4	7.3	68.6	23.6	5.7	2.1
FP	2196	4.5	5.3	14.1	-0.4	7.3	70.4	21.4	6.1	2.1
ALASKAN										
06Z										
NMC	0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FP	0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z										
NMC	0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FP	0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z										
NMC	12629	4.7	6.6	29.9	0.6	6.2	67.2	24.9	6.0	1.9
18Z	12629	4.6	6.6	30.1	0.1	6.3	67.7	24.0	6.3	2.0
NMC	12453	5.4	7.0	21.6	-1.8	6.3	58.8	29.0	9.3	2.9
FP	12453	5.1	7.0	26.6	-1.3	6.4	63.2	26.4	8.0	2.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

APR 1975 SEP 1975 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	2914	675	79.4	39.7	16.0	.2316	.1415	.1794	21.1	.1674	15.5
NMC	2914	675	80.5	51.0	20.3	.2316	.1331	.1794	25.8	.1674	20.5
18Z	2841	597	81.9	42.4	16.9	.2101	.1308	.1687	22.4	.1597	18.1
F	2841	597	82.4	50.9	18.9	.2101	.1222	.1687	27.6	.1597	23.5
SOUTHERN											
06Z	2805	606	79.8	38.1	18.0	.2160	.1372	.1591	13.8	.1509	9.1
NMC	2805	606	81.9	43.1	17.9	.2160	.1257	.1591	21.0	.1509	16.1
18Z	2727	427	83.8	28.1	15.5	.1566	.1247	.1292	3.5	.1220	-2.2
F	2727	427	85.2	34.7	14.8	.1566	.1099	.1292	14.9	.1220	10.0
CENTRAL											
06Z	2659	508	83.7	38.1	15.1	.1910	.1251	.1520	17.7	.1441	13.2
NMC	2659	508	83.8	42.4	15.6	.1910	.1189	.1520	21.8	.1441	17.4
18Z	2598	579	78.6	38.6	18.6	.2229	.1467	.1705	13.9	.1598	8.2
F	2598	579	80.6	40.4	16.6	.2229	.1359	.1705	20.3	.1598	15.0
WESTERN											
06Z	1869	219	88.8	37.6	9.9	.1172	.0805	.0983	18.1	.0889	9.5
NMC	1869	219	90.1	47.6	10.6	.1172	.0715	.0983	27.3	.0889	19.7
18Z	1820	186	89.8	39.3	10.8	.1022	.0746	.0889	16.1	.0821	9.2
F	1820	186	89.9	46.8	10.9	.1022	.0694	.0889	21.9	.0821	15.5
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
F	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
F	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	10247	2008	82.1	38.6	15.1	.1960	.1249	.1520	17.8	.1425	12.3
NMC	10247	2008	83.5	46.1	16.5	.1960	.1162	.1520	23.6	.1425	18.5
18Z	9986	1789	83.0	37.4	15.7	.1792	.1230	.1438	14.4	.1353	9.1
F	9986	1789	84.1	43.2	15.6	.1792	.1128	.1438	21.6	.1353	16.7

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = MEAN PROBABILITY FORECAST, PRECIPITATION
PF = RELATIVE PRECIPITATION FREQUENCY
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
BS = PRECIPITATION IMPROVEMENT OF B OVER BC
SS = SAMPLE Brier Score
SS = PERCENT IMPROVEMENT OF R OVER BS

APR 1975 SEP 1975

2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z NMC	2935	629	79.7	33.8	15.1	.2143	.1423	.1720	17.3	.1608	11.5
18Z NMC	2935	629	80.2	43.4	18.6	.2143	.1347	.1720	21.7	.1608	16.2
06Z NMC	2797	657	77.8	41.1	19.5	.2349	.1512	.1811	16.1	.1603	10.8
18Z NMC	2797	657	77.4	43.0	21.0	.2349	.1516	.1811	17.5	.1703	11.0
SOUTHERN											
06Z NMC	2827	450	83.1	28.1	16.1	.1592	.1260	.1313	4.0	.1229	-2.6
18Z NMC	2827	450	83.7	31.2	15.6	.1592	.1192	.1313	9.2	.1229	-2.9
06Z NMC	2678	576	79.7	37.6	19.1	.2151	.1419	.1585	10.5	.1234	5.5
18Z NMC	2678	576	79.6	37.5	19.7	.2151	.1408	.1585	4.2	.1502	6.2
CENTRAL											
06Z NMC	2672	592	78.6	32.0	16.8	.2216	.1534	.1695	9.5	.1580	2.9
18Z NMC	2672	592	79.3	35.4	17.1	.2216	.1474	.1695	13.0	.1580	6.7
06Z NMC	2560	498	81.2	37.6	19.3	.1945	.1387	.1541	10.0	.1624	4.9
18Z NMC	2560	498	81.2	36.3	17.9	.1945	.1361	.1541	5.8	.1458	6.6
WESTERN											
06Z NMC	1871	202	89.6	33.6	9.9	.1080	.0778	.0931	16.4	.0863	9.8
18Z NMC	1871	202	89.4	40.7	11.1	.1080	.0765	.0931	17.8	.0863	11.4
06Z NMC	1789	209	88.4	37.6	11.7	.1168	.0838	.0977	14.2	.0826	5.7
18Z NMC	1789	209	88.9	41.8	11.7	.1168	.0800	.0977	3.4	.0889	10.1
ALASKAN											
06Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
06Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
06Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z NMC	10305	1673	82.1	31.8	14.8	.1818	.1290	.1459	11.6	.1361	5.2
18Z NMC	10305	1673	82.6	37.6	15.9	.1818	.1232	.1459	13.6	.1361	9.5
06Z NMC	9824	1940	80.9	38.8	17.9	.1975	.1333	.1527	12.7	.1366	7.1
18Z NMC	9824	1940	81.1	39.5	17.8	.1975	.1316	.1527	9.0	.1436	8.4

F = NUMBER OF FORECASTS

P = TOTAL PERCENT CORRECT

PC = MEAN PROBABILITY FORECAST, PRECIPITATION

MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION

MN = RELATIVE PRECIPITATION FREQUENCY

PF = Brier Score

B = CLIMATOLOGICAL Brier Score

BC = PRECENT IMPROVEMENT OF B OVER BC

S = SAMPLE Brier Score

BS = PERCENT IMPROVEMENT OF B OVER BS

APR 1975 SEP 1975 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z											
NMC	2886	704	76.6	33.6	18.9	.2439	.1660	.1861	10.8	.1711	3.0
FP	2886	704	75.7	39.2	21.2	.2439	.1583	.1861	14.9	.1711	7.5
18Z											
NMC	2797	602	78.6	36.6	19.0	.2152	.1458	.1723	15.4	.1603	9.1
FP	2797	602	79.6	39.5	19.7	.2152	.1422	.1723	17.5	.1603	11.3
SOUTHERN											
06Z											
NMC	2784	604	77.8	32.6	18.4	.2170	.1495	.1600	6.6	.1515	1.3
FP	2784	604	79.1	33.9	18.7	.2170	.1467	.1600	8.3	.1515	3.1
18Z											
NMC	2683	426	84.1	29.1	17.9	.1588	.1261	.1309	3.7	.1234	-2.2
FP	2683	426	83.1	27.9	16.6	.1588	.1255	.1309	4.2	.1234	-1.7
CENTRAL											
06Z											
NMC	2632	500	81.0	28.8	15.4	.1900	.1379	.1510	8.7	.1426	3.3
FP	2632	500	80.2	29.6	16.7	.1900	.1415	.1510	6.3	.1426	0.8
18Z											
NMC	2561	587	77.4	32.9	20.1	.2292	.1627	.1742	6.6	.1624	-0.2
FP	2561	587	77.4	29.9	18.1	.2292	.1642	.1742	5.8	.1624	-1.1
WESTERN											
06Z											
NMC	1841	213	88.2	28.8	9.1	.1157	.0843	.0977	13.7	.0888	5.1
FP	1841	213	88.2	37.8	11.4	.1157	.0846	.0977	13.5	.0888	4.6
18Z											
NMC	1796	189	88.0	32.9	12.6	.1052	.0852	.0899	5.3	.0826	-3.1
FP	1796	189	88.3	35.6	12.5	.1052	.0848	.0899	3.4	.0826	-5.1
ALASKAN											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z											
NMC	10143	2021	80.2	31.6	15.9	.1993	.1393	.1538	9.4	.1434	2.8
FP	10143	2021	80.1	35.1	17.4	.1993	.1374	.1538	10.7	.1434	4.2
18Z											
NMC	9837	1804	81.5	33.2	17.7	.1834	.1338	.1465	8.7	.1366	2.1
FP	9837	1804	81.5	33.2	17.0	.1834	.1333	.1465	9.0	.1366	2.4

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MP = MEAN PROBABILITY FORECAST, PRECIPITATION
 MN = MEAN PROBABILITY FORECAST, FREQUENCY
 PF = MEAN PROBABILITY FORECAST, FREQUENCY
 B = Brier Score
 BC = Brier Score
 S = Improvement of B over BS
 BS = Percent Improvement of B over BS

APR 1975 SEP 1975

1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3788	3.9	4.7	17.0	-0.5	5.5	77.2	17.5	3.2	2.1
F	3288	3.0	4.7	35.5	0.2	5.1	84.6	13.4	1.5	0.4
18Z										
NMC	3358	3.5	3.9	10.4	-0.7	5.5	82.8	13.4	1.9	1.9
F	3358	3.5	3.9	26.4	0.1	5.2	87.2	11.3	1.2	0.3
SOUTHERN										
06Z										
NMC	3271	3.0	3.2	8.5	0.0	5.2	86.7	10.0	1.9	1.5
F	3271	3.3	3.2	27.8	0.3	5.2	91.3	7.7	0.9	0.1
18Z										
NMC	3260	2.9	2.9	13.5	0.0	5.3	87.8	9.4	1.6	1.2
F	3260	2.5	2.9	13.5	0.2	5.9	90.1	8.6	0.9	0.3
CENTRAL										
06Z										
NMC	3076	4.0	5.4	26.0	-0.2	5.9	73.6	20.8	4.4	1.2
F	3076	3.6	5.4	33.6	-0.1	5.5	79.4	17.2	2.2	1.2
18Z										
NMC	3074	3.3	4.3	23.7	-0.2	5.9	81.6	16.3	1.6	0.9
F	3074	3.2	4.3	26.0	-0.1	5.6	84.3	13.4	1.5	0.9
WESTERN										
06Z										
NMC	2163	3.9	4.6	16.7	0.0	6.0	78.6	15.2	3.0	3.2
F	2163	3.0	4.6	34.6	0.1	5.3	85.0	12.8	2.0	0.2
18Z										
NMC	2149	2.9	3.1	7.6	0.5	7.2	86.5	11.4	1.7	0.5
F	2149	2.7	3.1	14.1	-0.1	7.4	88.8	9.8	0.9	0.5
ALASKAN										
06Z										
NMC	0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z										
NMC	0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z										
NMC	0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z										
NMC	0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F	0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z										
NMC	11898	3.7	4.4	16.9	-0.1	5.9	79.1	15.8	3.1	1.9
F	11898	3.0	4.4	32.2	0.1	5.3	85.2	12.7	1.6	0.5
18Z										
NMC	11841	3.6	3.5	10.9	-0.1	6.0	84.5	12.7	1.7	1.1
F	11841	3.6	3.5	20.3	0.1	5.7	87.5	10.8	1.1	0.5

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE IMPROVEMENT OVER TV
 TC = PERCENT ALGEBRAIC FORECAST ERROR WHEN TV EXCEEDS 10
 TG = MEAN ALGEBRAIC FORECAST ERROR CLASSES
 TM = DEGREES TEMPERATURE ERROR
 T = DEGREES TEMPERATURE ERROR CLASSES
 T2 = DEGREES TEMPERATURE ERROR CLASSES
 T3 = DEGREES TEMPERATURE ERROR CLASSES
 T4 = DEGREES TEMPERATURE ERROR CLASSES

T1 = 0
 T2 = 1
 T3 = 6
 T4 = 11
 GREATER THAN 15 DEGREES

APR 1975 SEP 1975 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z NMC	3394	3:7	3:9	3:5	-1:2	5:1	79:0	17:0	2:1	1:9
18Z NMC	3394	3:1	3:9	20:4	0:1	5:1	84:6	14:2	1:1	0:2
06Z FFP	3306	4:0	4:7	13:3	-0:5	5:3	76:0	18:7	3:1	2:1
18Z FFP	3306	3:4	4:7	27:1	-0:1	5:3	81:1	15:6	2:7	0:6
SOUTHERN										
06Z NMC	3280	2:2	2:9	-9:8	-0:4	6:0	83:9	13:1	2:0	0:9
18Z NMC	3280	2:7	2:9	7:5	0:4	6:5	87:8	10:8	1:2	0:2
06Z FFP	3200	2:7	3:2	-7:2	0:3	5:9	81:9	14:2	2:3	1:6
18Z FFP	3200	2:7	3:2	16:4	0:3	5:9	87:8	10:6	1:3	0:3
CENTRAL										
06Z NMC	3073	3:6	4:3	15:9	-0:1	5:8	78:0	19:3	2:3	0:4
18Z NMC	3073	3:5	4:3	20:1	-0:1	5:6	80:7	16:7	1:8	0:8
06Z FFP	3031	4:1	5:4	15:3	-0:4	6:3	68:5	23:5	4:6	1:6
18Z FFP	3031	4:1	5:4	23:2	-0:4	6:3	74:1	20:0	4:6	1:4
WESTERN										
06Z NMC	2164	3:0	3:1	3:7	-0:3	7:1	85:7	11:9	1:7	0:7
18Z NMC	2164	2:9	3:1	8:4	-0:2	7:6	86:4	11:5	1:5	0:6
06Z FFP	2114	4:4	4:6	4:3	1:0	6:5	71:9	20:1	4:4	3:6
18Z FFP	2114	3:6	4:6	20:8	0:0	6:1	78:1	18:5	3:0	0:5
ALASKAN										
06Z NMC	0	0:0	3:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z NMC	0	0:0	3:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
06Z FFP	0	0:0	4:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z FFP	0	0:0	4:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z NMC	0	0:0	1:4	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z NMC	0	0:0	1:4	0:0	0:0	0:0	0:0	0:0	0:0	0:0
06Z FFP	0	0:0	1:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z FFP	0	0:0	1:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z NMC	11911	3:4	3:5	3:1	-0:4	5:7	81:3	15:6	2:1	1:0
18Z NMC	11911	3:0	3:5	14:3	0:1	5:8	84:8	13:4	1:4	0:4
06Z FFP	11651	4:1	4:4	6:8	0:2	6:1	74:9	19:9	3:9	2:7
18Z FFP	11651	3:4	4:4	21:4	0:0	6:1	80:6	15:9	2:9	0:7

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TEMPERATURE ERROR
 TC = MEAN ABSOLUTE TEMPERATURE FORECAST ERROR
 TG = MEAN ABSOLUTE TEMPERATURE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 TM = MEAN ABSOLUTE TEMPERATURE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = MEAN ABSOLUTE TEMPERATURE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T2 = MEAN ABSOLUTE TEMPERATURE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T3 = MEAN ABSOLUTE TEMPERATURE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T4 = MEAN ABSOLUTE TEMPERATURE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES

APR 1975 SEP 1975

3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3343	4:3	4:7	7:5	-0:4	5:9	72:9	20:3	4:6	2:2
18Z	3343	3:8	4:7	18:4	0:1	5:8	76:1	19:9	3:2	0:9
NMC	3319	3:9	3:9	-0:2	-1:4	5:7	77:9	17:4	3:0	1:7
18Z	3319	3:3	3:9	15:3	0:0	5:4	82:2	15:9	1:6	0:2
SOUTHERN										
06Z	3230	3:5	3:2	-7:5	0:2	6:5	81:3	14:6	2:4	1:7
NMC	3230	3:0	3:2	6:1	0:4	6:1	84:9	12:8	2:0	0:4
18Z	3220	3:3	2:9	-13:9	-0:3	6:3	83:1	13:4	2:4	1:1
NMC	3220	3:0	2:9	-2:2	0:4	6:8	85:5	12:5	1:6	0:5
CENTRAL										
06Z	3031	4:9	5:4	15:8	-0:3	7:1	65:7	24:4	8:0	1:9
NMC	3031	4:5	5:4	9:8	-0:1	6:9	69:4	23:0	5:8	1:8
18Z	3037	3:8	4:3	12:2	-0:2	6:5	76:5	20:2	2:4	0:5
NMC	3037	3:9	4:3	9:2	-0:3	6:5	76:1	20:2	2:4	0:5
WESTERN										
06Z	2130	4:4	4:6	3:2	-0:1	7:2	71:7	20:1	4:5	3:7
NMC	2130	4:0	4:6	14:0	-0:1	6:7	74:8	20:2	3:6	1:3
18Z	2126	3:3	3:1	-6:7	0:7	7:9	82:9	14:1	2:3	0:8
NMC	2126	3:1	3:1	0:7	0:0	7:9	84:9	13:0	1:5	0:6
ALASKAN										
06Z	0	0:0	4:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	4:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	3:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	3:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z	0	0:0	1:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	1:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z	11734	4:2	4:4	3:1	0:1	6:7	73:1	19:8	4:8	2:3
NMC	11734	3:8	4:4	13:1	0:1	6:4	76:5	18:8	3:6	1:1
18Z	11702	3:3	3:5	-1:8	-0:4	6:3	79:9	16:4	2:6	1:1
NMC	11702	3:3	3:5	-5:8	0:0	6:3	82:0	15:6	1:6	0:6

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED
 TC = PERCENT IMPROVEMENT OVER
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR
 T = DEGREES TEMPERATURE ERROR CLASSES
 T2 = WHEN TV EXCEEDS 10
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT 1975 MAR 1976 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	4137	950	83.9	59.5	14.9	.2296	.1070	.1732	38.2	.1646	35.0
NMC	4137	950	85.0	68.2	17.2	.2296	.1011	.1732	41.6	.1646	38.6
18Z	3701	814	85.3	59.2	15.0	.2199	.1058	.1692	37.4	.1607	34.2
NMC	3701	814	85.4	65.2	16.4	.2199	.1021	.1692	39.7	.1607	36.5
SOUTHERN											
06Z	3814	468	88.9	41.1	9.6	.1227	.0811	.1060	23.5	.0992	18.3
NMC	3814	468	90.6	45.0	7.7	.1227	.0666	.1060	37.2	.0992	32.9
18Z	3375	424	88.2	38.9	9.4	.1256	.0907	.1073	15.5	.0989	8.4
NMC	3375	424	90.0	44.9	7.6	.1256	.0731	.1073	31.8	.0989	26.1
CENTRAL											
06Z	3526	574	87.2	48.0	11.0	.1628	.0912	.1296	29.6	.1232	26.0
NMC	3526	574	88.9	51.7	10.1	.1628	.0797	.1296	38.5	.1232	35.3
18Z	3182	546	87.6	47.1	10.3	.1716	.0848	.1351	31.7	.1289	28.4
NMC	3182	546	88.3	51.1	10.1	.1716	.0848	.1351	37.2	.1289	34.2
WESTERN											
06Z	2637	460	86.6	55.9	12.7	.1744	.0930	.1285	27.6	.1217	23.6
NMC	2637	460	89.7	63.0	10.4	.1744	.0720	.1285	43.9	.1217	40.8
18Z	2398	391	86.5	53.3	12.4	.1631	.0964	.1249	39.3	.1130	14.7
NMC	2398	391	88.7	59.9	10.4	.1631	.0758	.1249	39.3	.1130	32.9
ALASKAN											
06Z	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
NMC	1	0	100.0	0.0	10.0	.0	.0	.0289	100.0	.0	0.0
18Z	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
NMC	1	0	100.0	0.0	5.0	.0	.0	.0289	100.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	14115	2452	86.6	52.6	12.0	.1737	.0934	.1358	31.2	.1286	27.3
NMC	14115	2452	88.4	58.9	11.4	.1737	.0810	.1358	40.3	.1286	37.0
18Z	12657	2175	86.9	51.4	11.7	.1718	.0966	.1357	28.8	.1272	24.1
NMC	12657	2175	87.9	56.7	11.2	.1718	.0850	.1357	37.4	.1272	33.1

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST, PRECIPITATION
 MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MN = RELATIVE FREQUENCY
 PF = BRIER SCORE
 B = CLIMATOLOGICAL BRIER SCORE
 BC = PERCENT IMPROVEMENT OF B OVER BC
 S = SAMPLE BRIER SCORE
 BS = PERCENT IMPROVEMENT OF B OVER BS
 SS =

OCT 1975 MAR 1976 2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	4150	914	82.7	53.1	16.4	.2202	.1177	.1687	29.0	.1603	25.3
NMC	4150	914	82.5	58.3	18.3	.2202	.1177	.1687	30.2	.1603	26.6
18Z	3722	895	82.4	55.6	16.4	.2405	.1194	.1790	33.3	.1667	29.5
NMC	3722	895	82.9	59.3	18.6	.2405	.1176	.1790	23.0	.1694	30.6
SOUTHERN											
06Z	3817	473	88.3	32.9	9.9	.1239	.0883	.1060	16.7	.0992	10.9
NMC	3817	473	89.6	34.9	8.0	.1239	.0797	.1060	24.8	.0992	19.7
18Z	3384	412	88.2	39.6	11.4	.1217	.0871	.1052	17.3	.0985	10.9
NMC	3384	412	89.6	39.5	8.7	.1217	.0760	.1052	15.3	.0977	22.2
CENTRAL											
06Z	3529	622	86.4	43.4	12.6	.1763	.0993	.1388	28.5	.1331	25.4
NMC	3529	622	86.4	43.4	11.8	.1763	.0991	.1388	28.6	.1331	25.6
18Z	3186	494	86.1	40.0	12.5	.1551	.1037	.1246	16.7	.1504	19.1
NMC	3186	494	86.5	42.4	12.1	.1551	.0954	.1246	19.9	.1180	19.1
WESTERN											
06Z	2637	447	85.9	51.2	13.4	.1695	.0951	.1285	26.0	.1181	19.4
NMC	2637	447	87.1	53.4	12.3	.1695	.0876	.1285	31.8	.1181	25.8
18Z	2400	394	84.6	51.7	15.1	.1642	.1052	.1228	14.3	.1124	8.6
NMC	2400	394	87.7	55.8	12.5	.1642	.0864	.1228	22.1	.1131	24.9
ALASKAN											
06Z	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
NMC	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
18Z	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
NMC	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	14134	2456	85.7	46.4	13.0	.1738	.1015	.1368	25.8	.1291	21.4
NMC	14134	2456	86.3	49.1	12.6	.1738	.0972	.1368	29.0	.1291	24.8
18Z	12693	2195	85.3	48.4	13.8	.1729	.1041	.1350	22.9	.1291	18.1
NMC	12693	2195	86.5	51.2	13.0	.1729	.0950	.1350	20.4	.1271	25.2

F = NUMBER OF FORECASTS
P = TOTAL NUMBER OF PRECIPITATION CASES
MP = MEAN PROBABILITY OF CORRECT FORECAST, PRECIPITATION
MN = MEAN PROBABILITY OF CORRECT FORECAST, NO PRECIPITATION
PF = MEAN PROBABILITY OF CORRECT FORECAST, FREQUENCY
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
S = PRECENT IMPROVEMENT OF B OVER BC
BS = SAMPLE Brier Score
SS = PERCENT IMPROVEMENT OF B OVER BS

QCT 1975 MAR 1976 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	4129	963	81.3	43.6	16.9	.2332	.1317	.1744	24.5	.1665	20.9
NMC	4129	963	80.9	48.7	18.9	.2332	.1321	.1744	24.5	.1665	20.6
18Z	3712	875	79.1	46.2	19.4	.2357	.1365	.1757	22.3	.1667	18.1
NMC	3712	875	79.1	49.7	19.4	.2357	.1353	.1757	23.0	.1667	18.8
SOUTHERN											
06Z	3793	444	89.1	30.3	10.1	.1171	.0848	.1024	17.2	.0947	10.4
NMC	3793	444	89.1	31.2	8.9	.1171	.0832	.1024	18.8	.0947	12.2
18Z	3385	419	88.1	30.8	10.9	.1238	.0917	.1065	13.9	.0985	6.9
NMC	3385	419	88.3	29.2	8.9	.1238	.0903	.1065	15.3	.0985	8.4
CENTRAL											
06Z	3509	560	85.5	34.9	13.4	.1596	.1062	.1285	17.3	.1222	13.1
NMC	3509	560	85.3	36.1	12.9	.1596	.1035	.1285	19.1	.1222	13.0
18Z	3167	548	85.1	34.8	14.1	.1730	.1134	.1365	16.9	.1304	13.0
NMC	3167	548	85.2	34.5	12.2	.1730	.1094	.1365	19.9	.1304	16.1
WESTERN											
06Z	2621	459	84.1	47.2	14.2	.1751	.1062	.1286	17.4	.1213	12.5
NMC	2621	459	85.1	48.6	13.3	.1751	.0991	.1286	23.0	.1213	16.3
18Z	2400	391	84.5	46.4	15.5	.1629	.1073	.1254	14.5	.1124	4.6
NMC	2400	391	85.8	48.0	13.6	.1629	.0977	.1254	22.1	.1124	13.1
ALASKAN											
06Z	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
NMC	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
18Z	1	0	100.0	0.0	0.0	.0	.0	.0289	100.0	.0	0.0
NMC	1	0	100.0	0.0	5.0	.0	.0	.0289	100.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	14053	2426	85.0	39.8	13.4	.1726	.1079	.1350	20.0	.1276	15.4
NMC	14053	2426	85.0	42.6	13.5	.1726	.1057	.1350	21.7	.1276	17.2
18Z	12665	2233	84.1	40.5	14.9	.1763	.1132	.1379	17.9	.1291	12.3
NMC	12665	2233	84.6	41.8	13.6	.1763	.1097	.1379	20.4	.1291	15.1

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = RELATIVE PRECIPITATION FREQUENCY
PF = BRIER SCORE
B = CLIMATOLOGICAL BRIER SCORE
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE BRIER SCORE
BS = PERCENT IMPROVEMENT OF B OVER BS
SS =

OCT 1975 MAR 1976

1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	4232	3:6	7:9	54:2	-0:5	4:2	77:5	19:4	2:8	0:3
NMC	4232	3:5	7:9	55:8	-0:7	4:2	79:4	17:8	2:4	0:4
18Z	4204	4:1	6:8	38:9	0:9	5:4	73:3	21:5	4:0	1:2
NMC	4204	4:4	6:8	35:1	1:1	6:0	70:6	22:4	4:9	2:0
SOUTHERN										
06Z	3910	3:4	6:3	46:5	-0:4	4:9	80:4	16:9	2:4	0:4
NMC	3910	3:1	6:3	50:6	-0:2	4:4	84:2	13:7	1:6	0:5
18Z	3838	3:9	6:1	36:3	0:8	5:5	74:3	21:3	3:6	0:7
NMC	3838	3:9	6:1	35:9	1:0	6:1	76:3	18:3	3:5	1:9
CENTRAL										
06Z	3558	4:2	8:2	49:1	-1:3	4:9	72:2	21:5	4:8	1:4
NMC	3558	3:9	8:2	52:7	-1:0	4:8	75:6	18:9	4:5	1:0
18Z	3544	4:9	7:2	31:6	0:4	6:6	64:4	26:0	7:3	2:3
NMC	3544	5:0	7:2	30:9	0:7	7:3	65:6	25:0	6:1	2:3
WESTERN										
06Z	2705	3:2	5:2	38:7	-0:2	4:6	83:0	14:9	1:8	0:3
NMC	2705	3:0	5:2	42:2	-0:1	4:5	85:2	13:0	1:4	0:4
18Z	2702	3:7	4:6	20:9	0:6	7:6	77:6	17:9	3:3	1:1
NMC	2702	3:6	4:6	21:2	0:7	7:7	78:1	17:6	3:3	1:1
ALASKAN										
06Z	0	0:0	4:8	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	4:8	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	5:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	5:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z	0	0:0	1:3	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	1:3	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	2:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	2:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z	14405	3:6	6:9	47:6	-0:6	4:6	78:0	18:4	3:0	0:6
NMC	14405	3:4	6:9	50:7	-0:5	4:5	80:9	16:1	2:5	0:6
18Z	14288	4:3	6:2	32:9	0:7	6:6	72:3	21:9	4:6	1:3
NMC	14288	4:3	6:2	31:4	0:9	6:6	72:3	21:1	4:5	1:3

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = MEAN IMPROVE-FORECAST OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = MEAN TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT 1975 MAR 1976 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	3799	4.2	6.8	37.3	0.6	5.3	71.2	23.6	4.1	1.4
18Z	3799	4.7	6.8	31.1	1.6	6.1	69.2	22.9	5.4	2.4
18Z	4128	4.1	7.8	47.8	-0.8	4.9	72.7	21.7	4.8	0.8
18Z	4128	4.2	7.8	46.6	-1.5	5.0	72.7	21.5	4.8	1.0
SOUTHERN										
06Z	3827	4.2	6.1	31.5	0.6	5.3	70.6	24.1	4.8	0.5
18Z	3827	4.4	6.1	27.7	1.3	6.6	69.4	23.8	5.1	1.7
18Z	3836	3.9	6.3	38.6	-1.0	5.1	75.2	20.0	3.9	0.9
18Z	3836	3.6	6.3	43.7	-0.6	5.1	79.3	16.9	3.1	0.7
CENTRAL										
06Z	2860	5.0	7.2	30.2	-0.4	6.6	63.6	26.2	7.9	3.3
18Z	2860	5.1	7.2	28.4	0.8	7.5	63.6	25.1	7.7	3.7
18Z	3315	4.9	8.3	41.0	-2.3	5.6	64.2	26.3	7.7	1.8
18Z	3315	4.7	8.3	43.1	-1.3	5.6	66.7	25.0	6.5	1.9
WESTERN										
06Z	2445	3.7	4.6	19.5	0.4	7.1	77.4	17.3	4.4	0.9
18Z	2445	3.8	4.6	17.4	0.8	7.3	77.1	17.8	4.4	0.7
18Z	2654	3.8	5.2	27.3	-0.6	5.0	76.3	20.0	3.5	0.3
18Z	2654	3.4	5.2	34.0	-0.5	5.3	80.3	16.8	2.4	0.3
ALASKAN										
06Z	0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	12931	4.3	6.2	30.8	0.3	5.8	70.5	23.0	5.2	1.3
18Z	12931	4.5	6.2	27.0	1.2	6.7	69.5	22.7	5.6	2.2
18Z	13933	4.2	6.9	39.6	-1.1	5.3	72.1	22.0	5.0	1.0
18Z	13933	4.0	6.9	42.1	-1.2	5.3	74.6	20.1	4.3	1.0

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = MEAN ALGEBRAIC FORECAST ERROR
 TG = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T2 = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T3 = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T4 = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 0 = 0
 1 = 1
 2 = 2
 3 = 3
 4 = 4
 5 = 5
 6 = 6
 7 = 7
 8 = 8
 9 = 9
 10 = 10
 11 = 11
 12 = 12
 13 = 13
 14 = 14
 15 = 15
 16 = 16
 17 = 17
 18 = 18
 19 = 19
 20 = 20
 21 = 21
 22 = 22
 23 = 23
 24 = 24
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 28 = 28
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 38 = 38
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 81 = 81
 82 = 82
 83 = 83
 84 = 84
 85 = 85
 86 = 86
 87 = 87
 88 = 88
 89 = 89
 90 = 90
 91 = 91
 92 = 92
 93 = 93
 94 = 94
 95 = 95
 96 = 96
 97 = 97
 98 = 98
 99 = 99
 100 = 100

OCT 1975 MAR 1976 3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN 06Z MFC 18Z MFC NLP 4205	4207 4207 4205	4:5 4:6 5:1	7:8 7:8 6:9	42:9 40:8 29:8	-1:2 -1:3 0:6	5:1 5:2 6:2	69:0 67:9 62:7	24:1 24:0 25:9	5:9 6:6 7:5	1:0 1:5 2:9
SOUTHERN 06Z MFC 18Z MFC NLP 3838	3886 3886 3838	4:3 4:0 4:9	6:3 6:3 6:1	32:4 32:4 21:7	-1:4 -0:6 0:1	5:3 5:5 6:3	70:4 73:6 64:4	23:6 21:0 27:0	4:8 4:3 7:2	1:1 1:1 1:4
CENTRAL 06Z MFC 18Z MFC NLP 3537	3537 3537 3544	5:7 5:6 5:6	8:3 8:3 7:2	31:3 32:6 21:7	-3:0 -2:5 -0:1	6:3 6:6 7:0	57:6 58:9 53:9	28:0 27:3 26:4	10:7 10:1 11:1	3:7 3:7 3:8
WESTERN 06Z MFC 18Z MFC NLP 2689	2689 2689 2702	4:3 4:1 4:4	5:2 5:2 4:6	17:9 20:9 5:3	-0:4 -0:6 0:7	5:8 6:0 7:3	70:9 73:0 71:0	22:3 21:1 22:0	5:4 4:8 5:7	1:3 1:1 1:5
ALASKAN 06Z MFC 18Z MFC NLP 0	0 0 0	0:0 0:0 0:0	4:8 4:8 5:4	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0
PACIFIC 06Z MFC 18Z MFC NLP 0	0 0 0	0:0 0:0 0:0	1:3 1:3 2:2	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0	0:0 0:0 0:0
NATIONAL 06Z MFC 18Z MFC NLP 14319	14319 14319 14289	4:7 4:6 4:9	6:9 6:9 6:3	32:1 33:2 21:0	-1:5 -1:3 0:4	5:6 5:8 6:6	66:9 68:2 64:5	24:6 23:4 25:6	6:7 6:5 7:7	1:8 1:9 2:3

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = 6 - 10
 T2 = 11 - 15
 T3 = 16 - 20
 T4 = GREATER THAN 15 DEGREES

APR 1976 SEP 1976 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z											
NMC	3618	774	83.2	54.0	13.9	.2139	.1170	.1680	30.4	.1607	27.2
FP	3618	774	83.4	54.6	17.4	.2139	.1132	.1680	32.6	.1607	29.6
18Z											
NMC	3558	728	84.3	50.2	15.0	.2046	.1132	.1623	30.3	.1568	27.8
FP	3558	728	84.0	57.0	17.6	.2046	.1107	.1623	31.8	.1568	29.4
SOUTHERN											
06Z											
NMC	3983	747	82.0	44.6	17.2	.1875	.1205	.1471	18.1	.1388	13.1
FP	3983	747	82.8	44.4	17.5	.1875	.1155	.1471	21.5	.1388	16.8
18Z											
NMC	3907	603	84.6	31.7	14.0	.1543	.1145	.1302	12.1	.1242	7.8
FP	3907	603	85.4	36.7	14.1	.1543	.1056	.1302	18.9	.1242	15.0
CENTRAL											
06Z											
NMC	3658	520	87.9	38.0	11.8	.1422	.0913	.1248	26.8	.1168	21.8
FP	3658	520	87.6	41.0	11.8	.1422	.0892	.1248	28.5	.1168	23.6
18Z											
NMC	3602	607	84.8	39.3	14.8	.1685	.1136	.1416	19.7	.1345	15.5
FP	3602	607	86.0	41.1	12.4	.1685	.1023	.1416	27.8	.1345	23.9
WESTERN											
06Z											
NMC	2776	315	89.4	36.0	9.4	.1135	.0771	.0979	21.2	.0938	17.8
FP	2776	315	90.1	42.4	9.6	.1135	.0703	.0979	28.2	.0938	25.1
18Z											
NMC	2756	316	88.5	34.4	9.4	.1147	.0844	.0983	14.1	.0927	8.9
FP	2756	316	90.0	42.8	9.4	.1147	.0703	.0983	28.5	.0927	24.2
ALASKAN											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z											
NMC	14035	2356	85.3	41.8	13.0	.1679	.1034	.1369	24.5	.1298	20.3
FP	14035	2356	85.6	46.7	14.3	.1679	.0991	.1369	27.6	.1298	23.6
18Z											
NMC	13823	2254	85.4	40.1	13.5	.1631	.1079	.1351	20.1	.1290	16.3
FP	13823	2254	86.1	45.3	13.5	.1631	.0990	.1351	26.7	.1290	23.2

F = NUMBER OF FORECASTS
P = TOTAL NUMBER OF PRECIPITATION
PC = PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST
MN = MEAN PROBABILITY FORECAST
PF = MEAN PROBABILITY FORECAST
B = Brier Score
BC = Brier Score
S = Sample Standard Deviation
BS = Sample Standard Deviation
SS = Sample Standard Deviation

	F	P	PC	MP	MIN	PF	B	BC	S	BS	SS
EASTERN											
06Z											
NMC	3613	701	83.4	42.0	14.5	.1940	.1150	.1563	26.4	.1509	23.8
18Z	3613	701	83.2	48.2	16.8	.1940	.1161	.1563	25.7	.1509	23.1
06Z											
NMC	3507	766	81.4	41.1	15.5	.2184	.1295	.1702	23.9	.1533	20.3
18Z	3507	766	80.2	46.6	18.9	.2184	.1316	.1702	16.5	.1625	19.0
SOUTHERN											
06Z											
NMC	3971	636	83.7	28.6	14.5	.1602	.1189	.1345	11.6	.1281	7.2
18Z	3971	636	84.4	31.3	14.7	.1602	.1159	.1345	13.8	.1281	9.5
06Z											
NMC	3864	729	81.5	38.4	17.7	.1887	.1270	.1477	14.0	.1247	8.5
18Z	3864	729	81.2	39.1	17.8	.1887	.1251	.1477	7.9	.1388	9.9
CENTRAL											
06Z											
NMC	3660	599	84.8	32.6	13.8	.1637	.1138	.1390	18.1	.1318	13.7
18Z	3660	599	84.6	34.5	13.4	.1637	.1125	.1390	19.1	.1318	14.7
06Z											
NMC	3560	520	86.1	36.1	13.1	.1461	.1013	.1272	20.4	.1343	15.1
18Z	3560	520	86.5	36.4	13.1	.1461	.0985	.1272	14.7	.1193	17.4
WESTERN											
06Z											
NMC	2777	319	89.2	30.6	9.3	.1149	.0801	.0990	19.1	.0937	14.5
18Z	2777	319	89.4	34.4	9.9	.1149	.0780	.0990	21.2	.0937	16.7
06Z											
NMC	2725	317	88.2	30.8	10.2	.1163	.0853	.0994	14.2	.0948	10.2
18Z	2725	317	88.6	35.7	10.2	.1163	.0807	.0994	13.8	.0951	15.1
ALASKAN											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z											
NMC	14021	2255	85.0	34.1	13.2	.1608	.1089	.1343	18.9	.1282	15.0
18Z	14021	2255	85.1	37.9	13.9	.1608	.1076	.1343	19.9	.1282	16.1
06Z											
NMC	13656	2332	84.0	37.8	14.3	.1708	.1126	.1385	18.7	.1286	14.1
18Z	13656	2332	83.8	40.5	15.2	.1708	.1110	.1385	13.2	.1311	15.3

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, PRECIPITATION
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MIN = RELATIVE FREQUENCY
PF = CLIMATOLOGICAL Brier Score
B = PRECENT IMPROVEMENT OF B OVER BC
BC = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS
SS =

APR 1976 SEP 1976 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z											
NMC	3568	759	79.6	40.3	18.8	.2127	.1360	.1666	18.4	.1596	14.8
FP	3568	759	79.6	43.4	19.5	.2127	.1356	.1666	18.6	.1596	15.0
18Z											
NMC	3508	698	81.1	39.1	20.2	.1990	.1329	.1594	16.7	.1533	13.3
FP	3508	698	80.4	39.9	18.3	.1990	.1332	.1594	16.5	.1533	13.1
SOUTHERN											
06Z											
NMC	3948	746	80.0	37.6	19.8	.1890	.1316	.1472	10.6	.1383	4.8
FP	3948	746	80.4	35.6	18.6	.1890	.1330	.1472	9.6	.1383	3.8
18Z											
NMC	3862	604	84.1	30.4	18.4	.1564	.1211	.1315	7.9	.1247	2.9
FP	3862	604	83.9	27.4	15.5	.1564	.1212	.1315	7.9	.1247	2.8
CENTRAL											
06Z											
NMC	3614	510	86.0	30.0	13.9	.1411	.1048	.1240	15.5	.1160	9.6
FP	3614	510	86.0	29.5	13.3	.1411	.1049	.1240	15.4	.1160	9.6
18Z											
NMC	3560	601	83.2	34.2	17.8	.1688	.1221	.1421	14.1	.1343	9.1
FP	3560	601	83.6	29.7	14.2	.1688	.1212	.1421	14.7	.1343	9.7
WESTERN											
06Z											
NMC	2742	310	87.9	26.0	10.6	.1131	.0914	.0975	6.2	.0933	2.0
FP	2742	310	88.0	28.6	10.6	.1131	.0876	.0975	10.1	.0933	6.1
18Z											
NMC	2725	318	88.0	29.2	11.7	.1167	.0909	.1002	9.3	.0948	4.1
FP	2725	318	88.2	31.6	11.1	.1167	.0884	.1002	13.8	.0948	8.9
ALASKAN											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z											
NMC	13872	2325	83.0	35.3	16.0	.1676	.1178	.1363	13.6	.1291	8.7
FP	13872	2325	83.1	35.9	15.7	.1676	.1174	.1363	13.9	.1291	9.1
18Z											
NMC	13655	2221	83.9	34.0	17.3	.1627	.1184	.1352	12.5	.1286	7.9
FP	13655	2221	83.8	32.5	14.9	.1627	.1173	.1352	13.2	.1286	8.6

F = NUMBER OF FORECASTS
P = NUMBER OF PRECIPITATION CASES
PC = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST: NO PRECIPITATION
MN = MEAN PROBABILITY FORECAST: FREQUENCY
PF = RELATIVE SCORE
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
S = PRESENT IMPROVEMENT OF B OVER BC
BS = SAMPLE Brier Score
SS = PERCENT IMPROVEMENT OF B OVER BS

APR 1976 SEP 1976 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	3700	3.0	5.5	45.2	-0.1	4.3	85.5	13.4	1.1	0.1
18Z	3700	2.9	5.5	47.6	0.0	4.3	86.6	12.0	1.3	0.2
18Z	3654	2.8	4.6	38.6	0.6	5.1	85.9	12.1	0.9	0.3
06Z	3654	3.0	4.6	35.6	0.6	5.1	85.5	12.6	1.4	0.3
SOUTHERN										
06Z	4032	2.4	3.3	25.3	-0.1	4.8	91.1	8.1	0.7	0.1
18Z	4032	2.3	3.3	30.6	0.2	5.0	92.6	6.3	0.9	0.2
06Z	3985	2.4	3.2	23.5	0.4	4.8	91.2	8.2	0.6	0.1
18Z	3985	2.5	3.2	22.8	0.3	5.1	91.1	8.2	0.6	0.1
CENTRAL										
06Z	3688	3.5	6.4	45.2	-0.9	4.8	78.6	19.4	1.8	0.2
18Z	3688	3.5	6.4	48.3	-0.4	4.8	82.2	15.4	2.0	0.4
06Z	3634	3.2	4.9	35.2	0.1	5.3	83.4	15.1	1.4	0.3
18Z	3634	3.2	4.9	33.9	0.1	5.3	82.5	15.6	1.6	0.3
WESTERN										
06Z	2802	3.1	4.9	37.4	-0.3	5.0	84.0	14.4	1.3	0.3
18Z	2802	3.2	4.9	36.0	-0.1	5.1	82.9	14.6	2.0	0.5
06Z	2782	2.7	3.4	20.3	-0.2	5.7	89.0	10.2	0.8	0.1
18Z	2782	2.7	3.4	20.3	-0.1	5.9	88.9	10.1	0.9	0.1
ALASKAN										
06Z	0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06Z	0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06Z	0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	14222	3.0	4.9	39.3	-0.4	4.7	85.0	13.6	1.2	0.1
18Z	14222	2.9	4.9	41.8	-0.1	4.7	86.4	11.8	1.5	0.3
06Z	14055	2.8	4.0	30.6	0.2	5.1	87.6	11.4	0.9	0.1
18Z	14055	2.8	4.0	29.2	0.3	5.4	87.0	11.6	1.1	0.2

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = PERCENT IMPROVE OVER TV
 TC = MEAN ALGEBRAIC FORECAST ERROR
 TG = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 TM = TEMPERATURE ERROR CLASSES
 T = WHEN TV EXCEEDS 10
 T2 =
 T3 =
 T4 =

T1 = 6
 T2 = 10
 T3 = 15
 T4 = GREATER THAN 15 DEGREES

APR 1976 SEP 1976 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	3700	3.1	4.6	33.4	0.8	4.8	84.9	13.9	1.1	0.0
NMC	3700	3.2	4.6	30.3	1.0	5.4	83.5	14.1	2.0	0.4
18Z	3629	3.5	5.5	36.5	-0.4	5.2	78.9	18.9	2.1	0.1
NMC	3629	3.4	5.5	37.9	-0.5	5.2	80.8	16.5	2.5	0.2
SOUTHERN										
06Z	4028	2.6	3.2	17.4	0.8	4.5	88.8	10.7	0.6	0.0
NMC	4028	2.7	3.2	16.0	0.9	5.0	88.6	10.3	0.9	0.2
18Z	3959	2.9	3.2	10.6	-0.7	5.1	86.2	12.6	1.1	0.1
NMC	3959	2.6	3.2	20.7	-0.1	5.9	89.5	9.1	1.1	0.3
CENTRAL										
06Z	3689	3.4	4.9	31.4	0.3	4.7	80.4	17.8	1.6	0.2
NMC	3689	3.5	4.9	29.0	0.7	5.2	80.2	17.2	2.2	0.5
18Z	3612	4.2	6.4	34.2	-2.0	5.1	69.8	25.8	4.1	0.3
NMC	3612	3.9	6.4	38.4	-1.2	5.5	74.1	21.3	4.0	0.6
WESTERN										
06Z	2800	2.8	3.4	17.3	-0.2	5.8	88.5	10.6	0.8	0.1
NMC	2800	2.9	3.4	14.1	0.0	6.8	87.4	11.2	1.2	0.3
18Z	2765	3.7	5.0	26.0	-1.1	5.6	77.3	19.3	3.0	0.4
NMC	2765	3.7	5.0	25.0	-0.6	5.8	76.7	19.5	3.1	0.7
ALASKAN										
06Z	0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	14217	3.0	4.0	26.0	0.5	4.8	85.5	13.4	1.0	0.1
NMC	14217	3.1	4.0	23.5	0.7	5.4	84.9	13.2	1.6	0.3
18Z	13965	3.5	4.9	28.1	-1.0	5.3	78.3	19.2	2.6	0.2
NMC	13965	3.4	4.9	31.6	-0.6	5.3	80.7	16.2	2.6	0.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR
 T = DEGREES TEMPERATURE ERROR CLASSES WHEN TV EXCEEDS 10
 T2 = 0
 T3 = 5
 T4 = 10
 GREATER THAN 15 DEGREES

APR 1976 SEP 1976

3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z										
NMC	3675	3:7	5:5	32:4	-0:1	5:3	77:2	19:6	2:9	0:2
18Z	3675	3:6	5:5	33:1	-0:1	5:4	78:2	18:4	2:9	0:4
NMC	3629	3:5	4:6	25:6	0:6	5:2	79:0	18:9	2:1	0:1
06Z										
NMC	4007	3:1	3:2	5:3	-0:2	5:4	84:4	14:0	1:4	0:1
18Z	4007	3:9	3:2	10:8	0:3	5:9	86:4	11:5	1:7	0:4
NMC	3961	3:9	3:2	9:6	0:5	5:0	85:1	13:0	0:9	0:1
06Z										
NMC	3667	4:5	6:4	29:5	-1:6	5:7	66:6	26:8	5:7	0:9
18Z	3667	4:4	6:4	30:7	-1:0	5:9	68:4	25:1	5:4	1:2
NMC	3613	3:7	4:9	23:6	-0:2	5:2	77:1	19:5	3:3	0:3
06Z										
NMC	2786	4:1	5:0	16:6	-0:9	6:4	72:3	22:6	4:1	1:0
18Z	2786	4:2	5:0	15:7	-0:6	6:5	72:8	20:6	4:9	1:6
NMC	2766	3:1	3:4	7:8	-0:3	6:1	84:4	14:2	1:3	0:1
06Z										
NMC	0	0:0	4:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	4:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	3:3	0:0	0:0	0:0	0:0	0:0	0:0	0:0
06Z										
NMC	0	0:0	1:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	1:1	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	1:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
06Z										
NMC	14135	3:8	4:9	22:5	-0:7	5:7	75:5	20:5	3:4	0:5
18Z	14135	3:7	4:9	24:0	-0:3	5:9	76:9	18:6	3:6	0:9
NMC	13969	3:3	4:0	17:9	0:2	5:3	81:6	16:4	1:9	0:1
06Z										
NMC	13969	3:3	4:0	16:9	0:2	5:6	81:0	16:7	2:1	0:2

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT 1976 MAR 1977 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	4391	968	87.3	62.1	13.0	.2205	.0894	.1682	46.8	.1595	43.9
NMC	4391	968	86.7	69.0	16.3	.2205	.0934	.1682	44.5	.1595	41.4
18Z	4437	987	87.7	61.3	13.4	.2224	.0886	.1699	47.9	.1596	44.5
FP	4437	987	86.8	66.8	15.3	.2224	.0931	.1699	45.2	.1596	41.7
SOUTHERN											
06Z	3945	563	89.8	49.8	10.3	.1427	.0738	.1216	39.3	.1164	36.6
NMC	3945	563	91.1	54.0	8.2	.1427	.0660	.1216	45.7	.1164	43.3
18Z	4015	643	88.8	45.3	10.3	.1601	.0832	.1333	37.6	.1259	33.9
FP	4015	643	89.3	48.8	7.9	.1601	.0781	.1333	41.4	.1259	37.9
CENTRAL											
06Z	3701	558	89.6	55.3	12.1	.1508	.0756	.1213	37.7	.1155	34.6
NMC	3701	558	90.6	56.3	9.9	.1508	.0691	.1213	43.1	.1155	40.2
18Z	3724	635	87.9	53.0	12.5	.1705	.0841	.1344	35.9	.1299	33.7
FP	3724	635	88.7	51.7	9.9	.1705	.0841	.1344	37.5	.1299	35.3
WESTERN											
06Z	2799	327	90.1	45.6	9.6	.1168	.0683	.1060	35.6	.0934	26.9
NMC	2799	327	92.1	51.9	8.1	.1168	.0587	.1060	44.6	.0934	37.2
18Z	2847	284	90.9	46.0	9.8	.0998	.0652	.1027	36.6	.0821	20.6
FP	2847	284	91.5	50.1	8.7	.0998	.0598	.1027	41.8	.0821	27.1
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	14836	2416	89.1	55.4	11.3	.1628	.0778	.1324	44.2	.1246	37.5
NMC	14836	2416	89.9	60.3	10.9	.1628	.0735	.1324	44.5	.1246	41.0
18Z	15023	2549	88.6	53.5	11.6	.1697	.0821	.1386	40.8	.1285	36.1
FP	15023	2549	88.8	56.6	10.6	.1697	.0806	.1386	41.9	.1285	37.3

F = NUMBER OF FORECASTS
 P = NUMBER OF PRECIPITATION CASES
 PC = TOTAL PERCENT CORRECT
 MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 PF = RELATIVE PRECIPITATION FREQUENCY
 B = Brier Score
 BC = CLIMATOLOGICAL Brier Score
 S = PRECENT IMPROVEMENT OF B OVER BC
 BS = SAMPLE Brier Score
 SS = PERCENT IMPROVEMENT OF B OVER BS

OCT 1976 MAR 1977 2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	4405	978	85.1	54.8	14.4	.2220	.1025	.1704	39.9	.1598	35.9
NMC	4405	978	84.3	59.3	16.6	.2220	.1063	.1704	37.6	.1598	35.5
18Z	4394	967	84.2	54.2	14.9	.2201	.1082	.1680	35.6	.1611	32.5
NMC	4394	967	84.7	60.0	17.2	.2201	.1064	.1680	28.9	.1603	33.6
SOUTHERN											
06Z	3951	632	87.9	42.8	11.2	.1600	.0896	.1335	32.9	.1254	28.5
NMC	3951	632	87.7	41.6	8.3	.1600	.0872	.1335	34.7	.1254	30.5
18Z	3982	576	88.1	44.0	11.1	.1447	.0838	.1234	32.1	.1251	29.0
NMC	3982	576	88.6	45.4	9.4	.1447	.0805	.1234	22.1	.1180	31.7
CENTRAL											
06Z	3702	634	86.0	46.0	14.6	.1713	.1001	.1350	25.9	.1306	23.4
NMC	3702	634	86.9	44.5	11.8	.1713	.0961	.1350	28.8	.1306	26.4
18Z	3684	560	87.0	46.4	13.5	.1520	.0915	.1221	25.0	.1293	21.2
NMC	3684	560	88.2	46.1	11.5	.1520	.0865	.1221	20.5	.1161	25.5
WESTERN											
06Z	2796	286	90.2	40.3	10.6	.1023	.0732	.1041	29.7	.0839	12.7
NMC	2796	286	90.3	43.3	9.5	.1023	.0679	.1041	34.8	.0839	19.1
18Z	2819	322	89.9	42.1	10.9	.1142	.0743	.1041	28.6	.0823	19.3
NMC	2819	322	90.2	42.3	9.4	.1142	.0715	.1041	26.7	.0921	22.3
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	14854	2530	87.0	47.9	12.8	.1703	.0930	.1393	33.3	.1291	28.0
NMC	14854	2530	87.2	49.3	11.7	.1703	.0914	.1393	34.4	.1291	29.2
18Z	14879	2425	87.0	48.4	12.7	.1630	.0911	.1326	31.3	.1287	27.2
NMC	14879	2425	87.6	51.0	12.1	.1630	.0880	.1326	24.8	.1251	29.7

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, PRECIPITATION
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = RELATIVE PRECIPITATION FREQUENCY
PF = Brier Score
B = CLIMATOLOGICAL Brier Score
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS
SS =

OCT 1976 MAR 1977 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	4331	963	82.2	50.4	18.1	2324	1204	1695	28.9	1615	25.4
NMC	4331	963	82.8	50.2	19.0	2324	1206	1695	28.7	1615	25.2
18Z	4395	991	82.2	49.9	18.2	2255	1207	1712	29.5	1611	25.1
NMC	4395	991	82.2	51.4	17.9	2255	1218	1712	28.9	1611	24.4
SOUTHERN											
06Z	3885	545	87.4	37.8	11.6	1403	0887	1206	26.5	1148	22.8
NMC	3885	545	87.7	36.5	9.3	1403	0883	1206	26.8	1148	23.1
18Z	3983	635	85.3	36.5	13.0	1594	1043	1330	21.6	1251	16.7
NMC	3983	635	85.9	33.6	9.6	1594	1036	1330	22.1	1251	17.2
CENTRAL											
06Z	3641	559	85.7	41.0	15.2	1535	1002	1231	18.6	1174	14.6
NMC	3641	559	86.5	40.3	13.1	1535	0955	1231	22.5	1174	18.7
18Z	3681	627	85.7	39.1	15.0	1703	1064	1344	19.4	1293	16.2
NMC	3681	627	85.7	36.5	12.2	1703	1068	1344	20.5	1293	17.4
WESTERN											
06Z	2751	322	88.7	38.1	11.2	1170	0800	1056	24.3	0939	14.8
NMC	2751	322	89.2	39.1	10.3	1170	0763	1056	27.7	0939	18.7
18Z	2816	282	88.5	36.0	12.5	1001	0794	1022	22.3	0823	3.5
NMC	2816	282	89.5	35.1	10.5	1001	0750	1022	26.7	0823	8.9
ALASKAN											
06Z	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NMC	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
18Z	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NMC	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NMC	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
18Z	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NMC	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NATIONAL											
06Z	14608	2389	85.7	43.7	14.3	1635	0993	1329	25.3	1254	20.8
NMC	14608	2389	86.2	44.9	13.1	1635	0975	1329	26.7	1254	22.3
18Z	14875	2535	85.1	42.3	14.8	1704	1054	1388	24.0	1287	18.1
NMC	14875	2535	85.4	41.4	12.7	1704	1044	1388	24.8	1287	18.9

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = MEAN PROBABILITY FORECAST, PRECIPITATION
PF = PERCENT IMPROVEMENT OF B OVER BS
B = Brier Score
BC = Brier Score
S = Percent Improvement of B over BS
BS = Percent Improvement of B over BS
SS = Percent Improvement of B over BS

OCT 1976 MAR 1977 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	4701	3.6	6.8	47.4	0.8	4.2	78.0	19.3	2.4	0.3
NMC	4701	3.3	6.8	51.9	0.0	3.9	81.8	16.1	1.7	0.3
18Z	4670	4.2	6.8	37.5	1.5	5.7	71.6	22.2	4.9	1.3
NMC	4670	4.1	6.8	39.4	1.0	5.9	74.5	19.5	4.5	1.6
SOUTHERN										
06Z	4160	3.7	6.6	44.0	-0.3	4.9	76.3	20.2	3.3	0.3
NMC	4160	3.4	6.6	48.6	-0.1	4.7	80.4	16.7	2.3	0.3
18Z	4131	3.9	6.0	34.2	0.8	5.7	74.1	21.4	3.9	0.6
NMC	4131	3.8	6.0	36.3	0.8	6.0	76.2	19.3	3.4	1.2
CENTRAL										
06Z	3811	3.8	7.9	52.2	-1.0	4.7	76.1	20.2	3.1	0.6
NMC	3811	3.5	7.9	55.8	-0.6	4.4	79.5	16.6	2.6	0.5
18Z	3806	4.6	6.9	33.4	1.8	6.2	68.2	23.7	5.4	1.6
NMC	3806	4.4	6.9	35.5	0.8	6.4	69.7	23.2	5.4	1.7
WESTERN										
06Z	2895	3.4	4.6	27.1	-0.6	5.0	80.8	17.0	1.9	0.4
NMC	2895	3.0	4.6	35.0	-0.2	5.0	85.3	12.9	1.7	0.1
18Z	2895	3.7	4.2	15.4	0.3	7.1	77.5	18.9	2.9	0.7
NMC	2895	3.6	4.2	15.4	0.3	7.1	78.2	18.0	3.0	0.8
ALASKAN										
06Z	0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	15567	3.6	6.5	44.2	-0.2	4.6	77.6	19.3	2.7	0.4
NMC	15567	3.3	6.5	49.0	-0.2	4.4	81.6	15.9	2.1	0.4
18Z	15502	4.1	6.0	31.4	0.9	6.0	72.5	21.7	4.6	1.1
NMC	15502	4.0	6.0	33.5	0.8	6.2	74.5	20.1	4.1	1.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE IMPROVEMENT OVER TV
 TC = PERCENT ABSOLUTE FORECAST ERROR
 TG = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 TM = MEAN ABSOLUTE TEMPERATURE ERROR CLASSES
 T = GREATER THAN 15 DEGREES
 T2 = 1 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

OCT 1976 MAR 1977 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	4023	4.3	6.8	37.0	1.1	5.6	71.7	22.0	4.8	1.5
NMC	4023	4.4	6.8	35.7	1.6	5.8	71.0	21.8	5.6	1.6
18Z	4365	4.1	6.9	40.8	-0.8	4.7	72.6	22.6	4.1	0.7
NMC	4365	3.9	6.9	44.0	-0.6	4.6	74.8	21.4	3.1	0.7
SOUTHERN										
06Z	3969	4.1	6.0	31.0	0.7	5.6	71.8	23.2	4.1	0.9
NMC	3969	4.2	6.0	29.6	1.0	6.0	71.5	22.1	5.1	1.4
18Z	4053	4.5	6.6	32.6	-0.7	5.8	67.6	25.6	5.9	0.9
NMC	4053	4.0	6.6	39.1	-0.5	5.4	74.0	20.4	4.7	0.9
CENTRAL										
06Z	2990	4.5	6.9	34.2	0.8	5.7	69.0	23.4	6.1	1.5
NMC	2990	4.5	6.9	33.9	1.2	6.1	69.6	22.6	5.9	1.8
18Z	3417	4.5	7.9	43.0	-1.6	5.6	67.8	24.9	6.1	1.6
NMC	3417	4.3	7.9	45.6	-1.4	5.4	71.1	22.3	5.0	1.6
WESTERN										
06Z	2591	3.8	4.2	9.9	0.3	6.2	76.9	19.2	3.2	0.7
NMC	2591	3.7	4.2	11.4	0.8	7.1	76.5	19.6	3.5	0.5
18Z	2805	3.9	4.6	15.0	-1.2	5.9	74.6	21.5	3.5	0.4
NMC	2805	3.6	4.6	23.4	-0.7	5.9	79.6	17.4	2.6	0.4
ALASKAN										
06Z	0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PACIFIC										
06Z	0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18Z	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NMC	0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATIONAL										
06Z	13573	4.2	6.0	30.4	0.8	5.7	72.1	22.1	4.6	1.2
NMC	13573	4.2	6.0	29.7	1.2	6.0	71.9	21.6	5.1	1.4
18Z	14640	4.3	6.5	34.6	-0.6	5.4	70.5	23.8	4.9	0.8
NMC	14640	4.0	6.5	39.3	-0.8	5.2	74.6	20.6	3.9	0.8

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR
 T = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT 1976 MAR 1977 3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	4623	4:4	6:9	36:3	0:7	4:9	68:8	24:9	5:3	0:9
NMC	4623	4:2	6:9	39:1	-0:4	4:8	71:3	23:1	4:7	0:9
18Z	4593	4:8	6:8	28:5	1:3	6:4	65:4	25:0	7:3	0:9
FM	4593	4:8	6:8	28:7	1:3	6:6	66:6	24:1	6:3	2:4
SOUTHERN										
06Z	4091	4:6	6:6	29:8	-0:4	5:1	65:9	25:3	7:6	1:2
NMC	4091	4:5	6:6	32:2	-0:2	5:9	68:7	23:0	6:7	1:6
18Z	4062	4:7	6:0	22:1	1:1	6:5	66:0	26:3	6:1	1:5
FM	4062	4:6	6:0	24:2	0:9	6:7	67:3	25:4	5:7	1:6
CENTRAL										
06Z	3750	4:9	7:9	38:2	-1:7	5:9	63:5	27:6	6:8	2:1
NMC	3750	4:9	7:9	38:5	-1:5	5:9	64:4	26:5	6:8	2:2
18Z	3742	5:3	6:8	23:3	1:2	6:7	61:3	26:8	8:7	3:3
FM	3742	5:2	6:8	23:2	0:9	6:9	61:7	26:7	8:4	3:1
WESTERN										
06Z	2846	4:2	4:6	9:1	-1:0	5:9	71:3	23:8	4:0	0:9
NMC	2846	4:0	4:6	13:6	-0:8	6:1	74:2	21:1	3:9	0:8
18Z	2847	4:5	4:2	-7:1	0:6	7:5	68:5	24:2	5:5	1:7
FM	2847	4:3	4:2	-0:7	0:5	8:4	72:4	20:6	5:2	1:8
ALASKAN										
06Z	0	0:0	4:4	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	4:4	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	4:8	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FM	0	0:0	4:8	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z	0	0:0	1:3	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	1:3	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	2:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FM	0	0:0	2:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z	15310	4:6	6:5	30:2	-0:5	5:6	67:2	25:4	6:1	1:3
NMC	15310	4:4	6:5	32:4	-0:7	5:6	69:5	23:5	5:6	1:4
18Z	15244	4:9	6:0	19:4	1:2	6:6	65:1	25:7	6:9	2:3
FM	15244	4:7	6:0	21:2	1:0	6:8	66:6	24:4	6:5	2:4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR WHEN TV EXCEEDS 10
 TM = MEAN ABSOLUTE TEMPERATURE ERROR CLASSES
 T = DEGREES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

APR 1977 SEP 1977 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z											
NMC	3687	772	84.0	52.0	16.6	.1986	.1106	.1610	31.3	.1523	27.4
FP	3887	772	84.2	56.5	18.5	.1986	.1102	.1610	31.3	.1523	27.6
18Z											
NMC	4172	710	86.8	47.5	15.0	.1702	.1007	.1436	29.9	.1341	24.9
FP	4172	710	85.4	53.6	16.7	.1702	.1027	.1436	28.5	.1341	23.4
SOUTHERN											
06Z											
NMC	3748	703	82.7	43.8	20.2	.1876	.1218	.1429	14.8	.1324	8.0
FP	3748	703	83.5	46.2	18.8	.1876	.1153	.1429	19.3	.1324	12.9
18Z											
NMC	3811	530	86.5	33.6	15.1	.1391	.1033	.1181	12.5	.1116	7.4
FP	3811	530	86.9	38.0	15.2	.1391	.1008	.1181	14.7	.1116	9.7
CENTRAL											
06Z											
NMC	3595	685	83.6	46.1	19.3	.1905	.1215	.1532	20.7	.1458	16.7
FP	3595	685	84.1	46.5	16.9	.1905	.1157	.1532	24.5	.1458	20.6
18Z											
NMC	3749	856	79.5	42.6	17.4	.2283	.1397	.1767	21.0	.1684	17.0
FP	3749	856	80.0	43.3	17.6	.2283	.1364	.1767	22.8	.1684	19.0
WESTERN											
06Z											
NMC	2521	288	90.0	39.5	11.0	.1142	.0756	.0963	21.5	.0898	15.8
FP	2521	288	91.0	45.8	10.2	.1142	.0679	.0963	29.4	.0898	24.3
18Z											
NMC	2707	304	90.0	38.1	9.3	.1123	.0712	.0966	30.7	.0877	18.8
FP	2707	304	90.7	45.0	9.8	.1123	.0670	.0966	30.7	.0877	23.6
ALASKAN											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z											
NMC	13751	2448	84.6	46.5	17.1	.1780	.1101	.1422	22.6	.1337	17.7
FP	13751	2448	85.2	49.5	16.5	.1780	.1053	.1422	25.9	.1337	21.3
18Z											
NMC	14439	2400	85.5	41.5	15.1	.1662	.1060	.1367	22.4	.1284	17.4
FP	14439	2400	85.4	43.4	15.1	.1662	.1043	.1367	23.7	.1284	18.8

F = NUMBER OF FORECASTS
 P = NUMBER OF PRECIPITATION CASES
 PC = TOTAL PERCENT CORRECT
 MP = MEAN PROBABILITY FORECAST, PRECIPITATION
 MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 PF = RELATIVE PRECIPITATION FREQUENCY
 B = Brier Score
 BC = CLIMATOLOGICAL Brier Score
 S = PRECENT IMPROVEMENT OF B OVER BC
 BS = SAMPLE Brier Score
 SS = PERCENT IMPROVEMENT OF B OVER BS

APR 1977 SEP 1977

2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3863	716	82.7	45.9	18.6	.1853	.1195	.1520	21.4	.1440	17.1
NMC	3863	716	83.3	49.1	17.7	.1853	.1135	.1520	25.3	.1440	21.2
18Z	4151	838	80.9	44.3	19.1	.2019	.1342	.1629	17.6	.1455	13.1
18Z	4151	838	81.0	46.7	19.3	.2019	.1278	.1629	20.3	.1543	17.2
SOUTHERN											
06Z	3731	525	85.2	34.3	18.7	.1407	.1121	.1196	6.3	.1127	0.6
NMC	3731	525	85.5	34.1	16.1	.1407	.1064	.1196	11.1	.1127	5.6
18Z	3795	712	79.6	43.4	22.1	.1876	.1322	.1422	7.0	.1099	0.1
18Z	3795	712	82.2	41.7	19.3	.1876	.1249	.1422	5.4	.1324	5.7
CENTRAL											
06Z	3575	818	77.1	39.6	22.6	.2288	.1531	.1769	13.5	.1684	9.1
NMC	3575	818	77.7	39.0	19.7	.2288	.1509	.1769	14.7	.1684	10.4
18Z	3730	730	80.8	36.9	18.9	.1957	.1341	.1568	14.5	.1677	9.7
18Z	3730	730	81.2	36.9	17.4	.1957	.1322	.1568	10.3	.1486	11.1
WESTERN											
06Z	2505	278	89.5	33.6	11.1	.1110	.0811	.0957	15.2	.0860	5.7
NMC	2505	278	89.6	36.3	10.4	.1110	.0758	.0957	20.8	.0860	11.9
18Z	2691	296	89.2	34.0	10.7	.1100	.0772	.0935	17.4	.0852	12.0
18Z	2691	296	89.0	37.2	10.7	.1100	.0763	.0935	11.1	.0878	13.1
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	13674	2337	83.2	39.6	18.1	.1709	.1192	.1394	14.4	.1312	9.1
NMC	13674	2337	83.7	40.7	16.3	.1709	.1144	.1394	17.9	.1312	12.8
18Z	14367	2576	82.1	40.7	18.1	.1793	.1230	.1429	13.9	.1306	8.6
18Z	14367	2576	82.9	41.5	17.1	.1793	.1185	.1429	12.5	.1346	11.9

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST
 MP = MEAN PROBABILITY FORECAST
 MN = MEAN PROBABILITY FORECAST
 PF = MEAN PROBABILITY FORECAST
 B = CLIMATOLOGICAL Brier Score
 BC = PRESENT IMPROVEMENT OF B OVER BC
 S = SAMPLE Brier Score
 BS = PERCENT IMPROVEMENT OF B OVER BS

APR 1977 SEP 1977 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z											
NMC	3844	787	79.1	41.8	21.8	.2047	.1394	.1646	15.3	.1564	10.9
18Z	3844	787	79.3	43.9	21.3	.2047	.1376	.1646	16.4	.1564	12.0
18Z	4150	784	81.6	40.6	21.7	.1889	.1312	.1545	15.1	.1455	9.8
18Z	4150	784	82.1	42.6	18.2	.1889	.1232	.1545	20.3	.1455	15.3
SOUTHERN											
06Z											
NMC	3707	697	79.3	36.7	22.5	.1880	.1400	.1432	2.2	.1324	-5.7
18Z	3707	697	80.7	36.7	19.4	.1880	.1316	.1432	8.1	.1324	0.7
18Z	3796	521	85.5	29.1	18.3	.1372	.1143	.1172	3.4	.1099	-4.0
18Z	3796	521	85.9	29.1	16.3	.1372	.1109	.1172	3.4	.1099	-1.0
CENTRAL											
06Z											
NMC	3554	677	80.4	33.4	20.0	.1905	.1399	.1537	8.9	.1443	3.1
18Z	3554	677	80.2	32.3	18.1	.1905	.1367	.1537	9.7	.1443	3.9
18Z	3729	846	77.1	32.3	21.0	.2269	.1590	.1763	10.3	.1677	5.1
18Z	3729	846	77.6	30.6	17.8	.2269	.1562	.1763	10.3	.1677	5.6
WESTERN											
06Z											
NMC	2489	273	88.7	29.9	11.6	.1097	.0846	.0933	9.3	.0866	2.4
18Z	2489	273	88.5	31.8	11.1	.1097	.0817	.0933	12.4	.0866	5.6
18Z	2691	293	88.2	28.9	11.6	.1089	.0855	.0948	9.8	.0852	-0.3
18Z	2691	293	88.1	29.9	11.1	.1089	.0842	.0948	11.1	.0852	-1.2
ALASKAN											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z											
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z											
NMC	13594	2434	81.2	36.6	19.5	.1790	.1296	.1428	9.2	.1339	3.2
18Z	13594	2434	81.6	37.3	17.9	.1790	.1260	.1428	11.8	.1339	3.9
18Z	14366	2444	82.7	33.9	18.7	.1701	.1254	.1391	9.9	.1306	3.9
18Z	14366	2444	83.0	34.0	16.2	.1701	.1217	.1391	12.5	.1306	6.8

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = MEAN PROBABILITY FORECAST, FREQUENCY
PF = Brier Score
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
S = PRESENT IMPROVEMENT OF B OVER BC
BS = SAMPLE Brier Score
SS = PERCENT IMPROVEMENT OF B OVER BS

APR 1977 SEP 1977 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	4382	3:1	5:3	42:1	-0:6	4:6	84:1	14:4	1:5	0:1
NMC	4382	2:3	5:3	44:5	-0:1	4:6	86:3	11:8	1:4	0:4
18Z										
NMC	4460	2:8	4:5	37:1	0:4	4:4	87:3	11:6	1:1	0:1
FP	4460	2:9	4:5	36:1	0:3	4:6	86:9	11:5	1:5	0:1
SOUTHERN										
06Z	3858	2:6	2:9	10:0	-0:9	5:7	89:3	9:9	0:9	0:0
NMC	3858	2:2	2:9	25:5	0:0	5:7	93:3	5:3	0:9	0:1
18Z										
NMC	3932	2:4	2:7	9:1	-0:1	5:8	91:4	7:9	0:6	0:0
FP	3932	2:2	2:7	16:5	0:1	6:1	92:8	6:7	0:5	0:1
CENTRAL										
06Z	3632	3:5	5:9	41:1	-0:5	5:1	78:9	18:5	2:4	0:2
NMC	3632	3:3	5:9	44:1	0:3	5:1	81:4	15:4	2:9	0:2
18Z										
NMC	3753	3:1	4:5	30:3	-0:6	5:5	83:5	15:4	1:1	0:3
FP	3753	3:2	4:5	29:7	-0:2	5:5	83:8	14:5	1:4	0:3
WESTERN										
06Z	2679	3:1	4:6	32:4	-0:6	5:3	85:0	13:5	1:3	0:2
NMC	2679	3:1	4:6	31:5	-0:1	5:6	83:4	13:3	3:1	0:3
18Z										
NMC	2733	2:6	3:3	20:4	-0:3	5:6	89:0	10:5	0:5	0:1
FP	2733	2:6	3:3	20:4	-0:2	6:1	89:3	10:1	0:6	0:1
ALASKAN										
06Z	0	0:0	4:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	4:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z										
NMC	0	0:0	3:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	3:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z	0	0:0	1:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	1:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z										
NMC	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z	14551	3:1	4:6	33:8	-0:6	5:0	84:3	14:0	1:5	0:1
NMC	14551	2:9	4:6	38:0	0:0	5:1	86:5	11:3	1:9	0:3
18Z										
NMC	14878	2:8	3:7	26:1	-0:1	4:9	87:7	11:4	0:9	0:1
FP	14878	2:7	3:7	26:9	0:0	5:2	88:1	10:7	1:0	0:1

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = DEGREES
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

[illegible]

N	==	NUMBER OF FORECASTS
TE	==	MEAN ABSOLUTE FORECAST ERROR
TV	==	MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
TC	==	PERCENT IMPROVEMENT OVER TV
TG	==	MEAN ALGEBRAIC FORECAST ERROR
TM	==	MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
T1	==	0 - 5
T2	==	6 - 10
T3	==	11 - 15
T4	==	GREATER THAN 15 DEGREES

APR 1977 SEP 1977

3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	4355	3:9	5:3	26:9	-0:9	5:6	74:9	21:4	3:4	0:3
18Z	4355	3:7	5:3	30:4	-0:4	5:4	77:2	19:2	3:1	0:4
18Z	4435	3:4	4:5	24:7	0:6	4:9	81:0	16:6	1:8	0:3
18Z	4435	3:4	4:5	25:1	0:3	5:1	81:0	16:6	1:8	0:4
SOUTHERN										
06Z	3833	3:4	2:9	-16:2	-1:5	6:0	81:1	16:5	2:1	0:3
18Z	3833	3:8	2:9	3:3	-0:2	6:3	87:3	10:9	1:5	0:4
18Z	3912	2:8	2:7	-4:8	-0:4	5:8	86:9	12:0	1:1	0:0
18Z	3912	2:7	2:7	-0:7	0:2	6:6	88:4	10:7	0:9	0:1
CENTRAL										
06Z	3608	4:4	6:0	26:7	-1:0	6:2	69:8	23:9	5:4	0:2
18Z	3608	4:3	6:0	28:7	-0:2	6:1	71:4	21:9	5:5	1:2
18Z	3734	3:8	4:5	15:0	-1:1	5:5	75:3	20:0	3:0	0:4
18Z	3734	3:8	4:5	17:0	-0:5	5:8	76:4	20:0	3:2	0:4
WESTERN										
06Z	2664	4:4	4:6	3:0	-1:5	6:9	69:5	23:8	5:7	1:0
18Z	2664	4:2	4:6	7:2	-0:8	7:2	72:1	21:7	5:1	1:2
18Z	2720	3:0	3:3	8:7	-0:5	5:5	85:7	13:3	1:0	0:0
18Z	2720	3:0	3:3	8:2	-0:5	5:8	85:6	13:2	1:2	0:0
ALASKAN										
06Z	0	0:0	4:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	4:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	3:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	3:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z	0	0:0	1:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	1:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	1:5	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z	14460	4:0	4:6	14:2	-1:2	6:1	74:3	21:2	4:0	0:6
18Z	14460	3:7	4:6	20:1	-0:4	6:1	77:5	18:1	3:6	0:8
18Z	14801	3:3	3:7	12:5	-0:3	5:3	82:0	16:3	1:8	0:3
18Z	14801	3:2	3:7	13:9	-0:1	5:6	82:6	15:3	1:8	0:3

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED
 TC = PERCENT IMPROVEMENT OVER
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR
 T = MEAN TEMPERATURE ERROR CLASSES
 T2 = WHEN TV EXCEEDS 10
 T3 = DEGREES
 T4 = DEGREES
 T1 = 0
 T2 = 6
 T3 = 11
 T4 = 15
 GREATER THAN 15 DEGREES

OCT 1977 MAR 1978 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3867	1087	85.4	65.2	15.5	.2811	.1046	.2006	47.9	.1877	44.3
NMC	3867	1087	84.2	70.4	18.6	.2811	.1099	.2006	45.2	.1877	41.4
18Z	3940	1125	85.5	66.1	16.3	.2855	.1034	.2019	48.8	.1893	45.4
NMC	3940	1125	84.9	71.0	18.4	.2855	.1074	.2019	46.8	.1893	43.3
SOUTHERN											
06Z	3448	519	89.7	51.4	11.0	.1505	.0759	.1281	40.8	.1180	35.7
NMC	3448	519	90.8	52.2	8.5	.1505	.0697	.1281	45.6	.1180	40.9
18Z	3652	558	88.5	44.0	10.6	.1528	.0856	.1271	32.7	.1188	27.9
NMC	3652	558	88.8	46.9	8.4	.1528	.0805	.1271	36.7	.1188	32.2
CENTRAL											
06Z	3338	603	86.8	52.0	13.3	.1806	.0947	.1441	34.3	.1383	31.6
NMC	3338	603	88.6	54.7	11.6	.1806	.0862	.1441	40.2	.1383	37.7
18Z	3549	701	86.1	50.3	13.2	.1975	.1005	.1549	35.1	.1476	31.9
NMC	3549	701	86.7	50.6	11.3	.1975	.0959	.1549	38.1	.1476	35.0
WESTERN											
06Z	2445	537	82.9	49.1	14.6	.2196	.1137	.1645	30.9	.1512	24.9
NMC	2445	537	85.1	56.1	13.9	.2196	.1011	.1645	38.5	.1512	33.1
18Z	2574	591	84.1	48.7	13.1	.2296	.1114	.1678	33.6	.1543	27.8
NMC	2574	591	86.7	58.1	12.4	.2296	.0939	.1678	44.1	.1543	39.2
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	13098	2746	86.4	56.6	13.5	.2097	.0962	.1604	40.0	.1500	35.9
NMC	13098	2746	87.2	60.7	13.0	.2097	.0917	.1604	42.9	.1500	38.9
18Z	13715	2975	86.2	54.8	13.3	.2169	.0994	.1634	39.2	.1532	35.1
NMC	13715	2975	86.8	59.1	12.5	.2169	.0947	.1634	42.0	.1532	38.1

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MP = MEAN PROBABILITY FORECAST, PRECIPITATION
 MN = RELATIVE PRECIPITATION FREQUENCY
 PF = BRIER SCORE
 B = CLIMATOLOGICAL BRIER SCORE
 BC = PRECENT IMPROVEMENT OF B OVER BC
 S = SAMPLE BRIER SCORE
 BS = PERCENT IMPROVEMENT OF B OVER BS
 SS =

OCT 1977 MAR 1978 2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3890	1100	83.3	63.1	19.6	2828	1195	2015	40.7	1873	36.2
NMC	3890	1100	83.0	63.6	19.1	2828	1203	2015	40.3	1873	35.8
18Z	3948	1133	80.9	62.3	21.5	2870	1282	2025	36.7	1819	32.3
NMC	3948	1133	81.9	65.5	20.9	2870	1229	2025	30.3	1895	35.1
SOUTHERN											
06Z	3478	562	86.9	43.3	13.0	1616	0947	1323	28.4	1234	23.2
NMC	3478	562	87.2	41.0	9.6	1616	0937	1323	29.2	1234	24.1
18Z	3663	531	87.8	42.3	11.8	1450	0867	1249	30.6	1222	24.9
NMC	3663	531	88.1	42.7	9.5	1450	0833	1249	19.5	1154	27.8
CENTRAL											
06Z	3361	678	82.4	46.4	17.8	2017	1218	1580	22.9	1490	18.3
NMC	3361	678	83.6	45.0	14.1	2017	1160	1580	26.6	1490	22.1
18Z	3547	625	84.4	44.9	16.1	1762	1104	1407	21.5	1505	18.5
NMC	3547	625	84.9	45.0	14.1	1762	1069	1407	19.3	1355	21.1
WESTERN											
06Z	2462	553	82.9	47.9	16.3	2246	1204	1656	27.3	1525	21.0
NMC	2462	553	83.1	50.3	14.8	2246	1128	1656	31.9	1525	26.0
18Z	2572	572	80.8	45.8	17.3	2224	1275	1666	23.4	1548	16.6
NMC	2572	572	81.3	48.4	15.8	2224	1220	1666	24.7	1528	20.2
ALASKAN											
06Z	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NMC	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
18Z	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NMC	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NMC	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
18Z	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NMC	0	0	0.0	0.0	0.0	0	0	0	0.0	0	0.0
NATIONAL											
06Z	13191	2893	83.6	52.3	16.7	2193	1137	1655	31.3	1542	26.2
NMC	13191	2893	84.3	52.3	14.3	2193	1106	1655	33.1	1542	28.1
18Z	13730	2861	83.6	51.5	16.4	2084	1124	1591	29.4	1528	24.5
NMC	13730	2861	84.2	53.4	14.8	2084	1080	1591	24.1	1469	27.4

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST
MP = MEAN PROBABILITY FORECAST
MN = MEAN PROBABILITY FORECAST
PF = MEAN PROBABILITY FORECAST
B = Brier Score
BC = Brier Score
S = Brier Score
BS = Brier Score
SS = Brier Score

OCT 1977 MAR 1978 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
06Z	3896	1082	78.9	59.5	24.7	.2777	.1414	.1984	28.7	.1849	23.5
NMC	3896	1082	80.4	60.0	21.6	.2777	.1314	.1984	33.8	.1849	28.9
18Z	3945	1081	77.8	55.8	24.9	.2740	.1450	.1959	26.0	.1819	20.3
FP	3945	1081	79.2	56.4	21.2	.2740	.1366	.1959	30.3	.1819	24.9
SOUTHERN											
06Z	3479	520	86.7	38.7	13.8	.1495	.0959	.1270	24.5	.1179	18.7
NMC	3479	520	86.6	34.9	10.2	.1495	.0967	.1270	23.9	.1179	18.0
18Z	3663	577	85.9	36.3	14.1	.1575	.1049	.1298	19.2	.1222	14.2
FP	3663	577	86.2	31.9	9.6	.1575	.1044	.1298	19.5	.1222	14.5
CENTRAL											
06Z	3363	615	82.5	41.5	18.9	.1829	.1228	.1451	15.4	.1391	11.7
NMC	3363	615	83.6	40.1	15.6	.1829	.1169	.1451	19.4	.1391	16.0
18Z	3549	722	81.7	39.6	18.3	.2034	.1305	.1593	18.1	.1505	13.3
FP	3549	722	82.1	37.4	15.0	.2034	.1286	.1593	19.3	.1505	14.5
WESTERN											
06Z	2460	552	80.6	44.2	18.0	.2244	.1321	.1675	21.2	.1541	14.3
NMC	2460	552	80.0	45.2	16.7	.2244	.1285	.1675	23.3	.1541	16.6
18Z	2574	591	79.8	42.4	17.8	.2296	.1317	.1682	21.7	.1548	14.9
FP	2574	591	81.7	44.0	16.1	.2296	.1267	.1682	24.7	.1548	18.2
ALASKAN											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
PACIFIC											
06Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NMC	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
18Z	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
FP	0	0	0.0	0.0	0.0	.0	.0	.0	0.0	.0	0.0
NATIONAL											
06Z	13198	2769	82.2	48.6	18.8	.2098	.1229	.1603	23.3	.1498	18.0
NMC	13198	2769	82.8	47.9	15.9	.2098	.1180	.1603	26.3	.1498	21.2
18Z	13731	2971	81.3	45.4	18.7	.2164	.1281	.1636	21.7	.1528	16.2
FP	13731	2971	82.3	44.6	15.3	.2164	.1241	.1636	24.1	.1528	18.6

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = MEAN PROBABILITY FORECAST, PRECIPITATION
PF = RELATIVE PRECIPITATION FREQUENCY
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
S = PRESENT ELEMENT OF B OVER BC
BS = PRESENT Brier Score
SS = PRESENT IMPROVEMENT OF B OVER BS

OCT 1977 MAR 1978 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN 06Z NMC F 18Z F 18Z F 18Z F	4072 4072 4208 4208	3:6 3:4 4:1 3:9	6:5 6:5 5:9 5:9	45:4 48:4 31:3 34:1	-0:4 -0:5 0:0 0:5	4:6 4:6 5:6 6:0	78:8 82:0 73:1 76:2	18:2 15:1 19:0 19:0	2:5 2:1 3:7 3:4	0:5 0:8 0:9 1:4
SOUTHERN 06Z NMC F 18Z F 18Z F	3580 3580 3698 3698	3:9 3:5 3:9 3:8	6:6 6:6 5:9 5:9	41:4 46:3 34:2 35:9	0:0 0:2 0:6 0:6	4:9 4:8 5:1 5:9	75:0 78:7 74:1 77:4	20:5 17:9 22:0 18:2	3:9 2:8 3:3 3:3	0:7 0:5 0:5 1:1
CENTRAL 06Z NMC F 18Z F 18Z F	3425 3425 3550 3550	3:8 3:5 5:0 4:7	7:0 7:0 6:6 6:6	45:6 50:3 24:7 29:2	-0:3 -0:3 0:3 0:4	4:6 4:6 6:6 7:1	75:4 79:7 63:6 67:3	21:0 17:3 27:1 24:0	3:1 2:5 6:8 6:3	0:5 0:6 2:5 2:4
WESTERN 06Z NMC F 18Z F 18Z F	2488 2488 2587 2587	3:4 3:1 3:7 3:6	4:7 4:7 4:1 4:1	26:4 34:8 10:0 13:9	-0:1 0:1 -0:4 0:0	5:7 5:7 7:2 8:1	80:6 84:6 78:5 79:9	16:4 13:4 16:3 15:7	2:4 1:4 3:7 3:4	0:6 0:6 1:5 1:0
ALASKAN 06Z NMC F 18Z F 18Z F	0 0 0 0	0:0 0:0 0:0 0:0	4:3 4:3 5:2 5:2	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0
PACIFIC 06Z NMC F 18Z F 18Z F	0 0 0 0	0:0 0:0 0:0 0:0	1:6 1:6 2:5 2:5	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0
NATIONAL 06Z NMC F 18Z F 18Z F	13565 13565 14043 14043	3:7 3:4 4:2 4:0	6:2 6:2 5:7 5:7	40:6 45:5 26:7 29:9	-0:2 -0:1 0:1 0:4	4:8 4:8 5:9 6:5	77:3 81:1 72:0 74:9	19:2 16:1 22:3 19:4	3:0 2:3 4:4 4:1	0:6 0:6 1:3 1:5

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T = TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT 1977 MAR 1978 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN 06Z NMC F 18Z NMC F 4052 4052	3344 3344 182 4052	4:0 4:1 4:1 4:0	5:9 5:9 6:5 6:5	32:9 30:5 37:6 36:6	0:0 1:1 -0:5 -1:0	5:5 6:0 5:3 5:3	74:0 73:5 73:2 74:2	21:9 20:9 21:0 19:2	3:7 3:7 4:7 4:9	0:8 1:8 1:0 1:2
SOUTHERN 06Z NMC F 3425 3425 18Z NMC F 3693 3693	3425 3425 182 3693	4:1 4:2 4:4 4:0	5:9 5:9 6:5 6:5	31:2 29:9 32:1 36:3	0:2 1:0 -0:1 -0:0	5:1 5:9 5:3 5:3	72:1 71:8 72:6 72:6	23:4 22:5 23:4 21:4	4:0 4:6 6:3 5:0	0:5 1:1 1:4 1:4
CENTRAL 06Z NMC F 2764 2764 18Z NMC F 3037 3037	2764 2764 182 3037	5:0 4:8 4:5 4:1	6:6 6:6 6:9 6:9	24:5 28:5 35:3 40:3	-0:3 0:6 -0:5 -0:7	6:2 6:8 5:4 5:4	63:2 67:5 68:1 72:7	27:2 23:3 24:4 21:4	7:4 6:6 6:5 5:0	2:7 2:7 1:0 0:9
WESTERN 06Z NMC F 2319 2319 18Z NMC F 2499 2499	2319 2319 182 2499	3:8 3:6 3:6 3:6	4:1 4:1 4:7 4:7	7:4 13:3 20:4 23:0	-1:0 -0:2 -0:6 -0:5	7:3 7:7 5:6 6:2	76:3 79:3 76:2 79:0	18:6 16:9 19:9 17:5	4:0 2:9 3:3 2:8	1:1 0:5 0:6 0:7
ALASKAN 06Z NMC F 0 0 18Z NMC F 0 0	0 0 182 0	0:0 0:0 0:0 0:0	5:2 5:2 4:2 4:2	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0
PACIFIC 06Z NMC F 0 0 18Z NMC F 0 0	0 0 182 0	0:0 0:0 0:0 0:0	2:5 2:5 1:6 1:6	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0	0:0 0:0 0:0 0:0
NATIONAL 06Z NMC F 11852 11852 18Z NMC F 13281 13281	11852 11852 182 13281	4:2 4:2 4:2 4:2	5:7 5:7 6:2 6:2	26:3 27:1 31:9 35:9	-0:2 0:7 -0:4 -0:6	5:7 6:3 5:4 5:4	71:4 72:8 71:4 74:5	22:9 21:2 22:2 20:2	4:7 4:4 5:3 4:6	1:1 1:6 1:0 1:0

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED
 TC = MEAN ABSOLUTE FORECAST ERROR
 TG = MEAN ABSOLUTE FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR
 T = MEAN ABSOLUTE FORECAST ERROR
 T2 = MEAN ABSOLUTE FORECAST ERROR
 T3 = MEAN ABSOLUTE FORECAST ERROR
 T4 = MEAN ABSOLUTE FORECAST ERROR
 WHEN TV EXCEEDS 10
 DEGREES
 0 = 10
 1 = 15
 2 = 20
 3 = 25
 4 = 30
 5 = 35
 6 = 40
 7 = 45
 8 = 50
 9 = 55
 10 = 60
 11 = 65
 12 = 70
 13 = 75
 14 = 80
 15 = 85
 16 = 90
 17 = 95
 18 = 100
 19 = 105
 20 = 110
 21 = 115
 22 = 120
 23 = 125
 24 = 130
 25 = 135
 26 = 140
 27 = 145
 28 = 150
 29 = 155
 30 = 160
 31 = 165
 32 = 170
 33 = 175
 34 = 180
 35 = 185
 36 = 190
 37 = 195
 38 = 200
 39 = 205
 40 = 210
 41 = 215
 42 = 220
 43 = 225
 44 = 230
 45 = 235
 46 = 240
 47 = 245
 48 = 250
 49 = 255
 50 = 260
 51 = 265
 52 = 270
 53 = 275
 54 = 280
 55 = 285
 56 = 290
 57 = 295
 58 = 300
 59 = 305
 60 = 310
 61 = 315
 62 = 320
 63 = 325
 64 = 330
 65 = 335
 66 = 340
 67 = 345
 68 = 350
 69 = 355
 70 = 360
 71 = 365
 72 = 370
 73 = 375
 74 = 380
 75 = 385
 76 = 390
 77 = 395
 78 = 400
 79 = 405
 80 = 410
 81 = 415
 82 = 420
 83 = 425
 84 = 430
 85 = 435
 86 = 440
 87 = 445
 88 = 450
 89 = 455
 90 = 460
 91 = 465
 92 = 470
 93 = 475
 94 = 480
 95 = 485
 96 = 490
 97 = 495
 98 = 500
 99 = 505
 100 = 510

OCT 1977 MAR 1978 3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T	T2	T3	T4
EASTERN										
06Z	4072	4:2	6:5	35:9	-0:4	5:3	71:3	22:9	5:0	0:8
NMC	4072	4:2	6:5	35:9	-0:8	5:3	72:7	21:0	4:8	1:4
18Z	4209	4:8	5:9	19:4	-0:1	6:7	66:9	24:1	7:0	2:0
FP	4209	4:8	5:9	19:8	0:6	6:9	66:9	24:5	6:0	2:7
SOUTHERN										
06Z	3581	4:7	6:5	28:2	0:3	5:5	66:6	25:2	6:6	1:6
NMC	3581	4:6	6:5	30:4	0:3	5:6	68:0	24:3	6:1	1:6
18Z	3696	4:7	5:9	20:5	0:1	6:3	64:9	26:8	7:3	2:1
FP	3696	4:7	5:9	19:8	0:6	6:9	66:4	24:8	6:6	2:1
CENTRAL										
06Z	3424	4:8	6:9	30:4	-0:6	5:6	64:1	27:2	7:3	1:4
NMC	3424	4:6	6:9	34:6	-0:7	5:6	66:8	25:7	6:2	1:3
18Z	3553	5:6	6:6	15:7	-0:4	7:1	59:1	27:3	10:4	3:9
FP	3553	5:5	6:6	16:7	0:1	7:5	57:8	27:3	9:8	3:8
WESTERN										
06Z	2488	4:2	4:7	10:1	-0:6	6:3	72:1	21:8	4:6	1:4
NMC	2488	4:1	4:7	12:3	-0:5	6:8	73:5	20:9	4:0	1:6
18Z	2590	4:4	4:1	-8:1	-1:2	7:7	69:4	23:1	6:1	1:5
FP	2590	4:3	4:1	-8:1	0:5	8:5	71:9	20:7	5:1	2:5
ALASKAN										
06Z	0	0:0	4:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	4:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	5:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	5:2	0:0	0:0	0:0	0:0	0:0	0:0	0:0
PACIFIC										
06Z	0	0:0	1:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NMC	0	0:0	1:6	0:0	0:0	0:0	0:0	0:0	0:0	0:0
18Z	0	0:0	2:4	0:0	0:0	0:0	0:0	0:0	0:0	0:0
FP	0	0:0	2:4	0:0	0:0	0:0	0:0	0:0	0:0	0:0
NATIONAL										
06Z	13565	4:5	6:2	27:4	-0:3	5:6	68:4	24:4	5:9	1:3
NMC	13565	4:4	6:2	29:3	-0:4	5:6	70:1	23:0	5:4	1:5
18Z	14048	4:9	5:7	14:1	-0:3	7:2	64:5	25:6	7:8	2:1
FP	14048	4:9	5:7	14:9	0:3	7:2	65:7	24:6	6:9	2:7

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE IMPROVEMENT OVER TV
 TC = PERCENT ABSOLUTE FORECAST ERROR
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE TEMPERATURE ERROR
 T = WHEN TV EXCEEDS 10 DEGREES
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

APR 1973 SEP 1973 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	RC	S	BS	SS
EASTERN											
06Z	4541	1119	81.9	56.3	19.8	.2464	.1227	.1835	33.1	.1754	30.0
18Z	4538	1074	82.1	51.4	17.6	.2367	.1232	.1775	30.6	.1699	27.5
SOUTHERN											
06Z	4537	989	81.3	45.9	18.0	.2180	.1260	.1612	21.8	.1512	16.7
18Z	4537	843	84.7	39.8	13.7	.1858	.1131	.1492	24.2	.1398	19.1
CENTRAL											
06Z	4005	874	83.4	46.1	14.6	.2182	.1161	.1707	32.0	.1620	28.4
18Z	4006	884	84.1	45.5	13.4	.2207	.1150	.1731	33.6	.1626	29.3
WESTERN											
06Z	2925	273	92.5	45.4	7.8	.0933	.0551	.0802	31.3	.0764	27.9
18Z	2928	273	92.3	43.4	7.7	.0932	.0568	.0813	30.1	.0750	24.3
ALASKAN											
06Z	518	131	77.8	43.1	19.2	.2529	.1523	.1724	11.6	.1613	5.6
18Z	518	137	79.1	44.0	18.1	.2645	.1507	.1748	13.7	.1679	10.2
PACIFIC											
06Z	177	23	84.8	13.9	8.7	.1299	.1223	.1134	-7.9	.1113	-9.9
18Z	177	44	70.6	14.9	13.6	.2486	.2269	.1938	-17.1	.1858	-22.1
NATIONAL											
06Z	16703	3409	83.9	49.0	15.6	.2041	.1111	.1552	28.4	.1472	24.5
18Z	16704	3255	84.9	45.3	13.6	.1949	.1088	.1520	28.4	.1434	24.1

F = NUMBER OF FORECASTS
 P = NUMBER OF PRECIPITATION CASES
 PC = TOTAL PERCENT CORRECT
 MP = MEAN PROBABILITY FORECAST, PRECIPITATION
 MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 PF = RELATIVE PRECIPITATION FREQUENCY
 B = Brier Score
 RC = Climatological Brier Score
 S = Percent Improvement of B over BC
 BS = Sample Brier Score
 SS = Percent Improvement of B over RS

	F	P	PC	MP	MN	PF	R	BC	S	RS	SS
EASTERN 1A7 FD	4540	1075	79.2	45.8	19.3	.2368	.1407	.1776	20.8	.1699	17.2
1A2 FD	4539	1106	78.3	44.9	20.6	.2437	.1451	.1822	20.3	.1742	16.7
SOUTHERN 1A2 FD	4537	843	82.6	32.4	14.8	.1858	.1290	.1492	13.6	.1398	7.7
1A7 FD	4536	993	79.8	39.4	17.7	.2189	.1383	.1615	14.4	.1515	8.8
CENTRAL 1A2 FD	3823	843	80.8	39.7	16.8	.2205	.1365	.1730	21.1	.1622	15.9
1A7 FD	3819	838	80.9	37.1	15.3	.2194	.1368	.1717	20.4	.1631	16.2
WESTERN 1A2 FD	2928	273	90.9	35.2	8.3	.0932	.0646	.0813	20.5	.0750	13.9
1A7 FD	2924	269	91.7	36.9	8.6	.0920	.0649	.0794	18.3	.0753	13.8
ALASKAN 1A2 FD	518	137	78.2	39.6	19.9	.2645	.1648	.1748	5.7	.1679	1.9
1A7 FD	518	132	77.2	39.2	21.1	.2548	.1679	.1737	3.3	.1640	-2.4
PACIFIC 1A2 FD	177	44	72.3	14.1	13.8	.2486	.2182	.1945	-12.2	.1854	-17.7
1A7 FD	177	22	85.9	6.1	9.0	.1243	.1291	.1095	-17.9	.1057	-22.1
NATIONAL 1A7 FD	16523	3215	82.5	39.1	15.3	.1946	.1246	.1518	17.9	.1431	12.9
1A2 FD	16513	3360	81.7	40.2	16.1	.2035	.1276	.1548	17.6	.1468	13.1

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST, PRECIPITATION
 MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MN = RELATIVE PRECIPITATION FREQUENCY
 PF = Brier Score
 R = CLIMATOLOGICAL Brier Score
 BC = PERCENT IMPROVEMENT OF B OVER BC
 S = SAMPLE Brier Score
 RS = PERCENT IMPROVEMENT OF B OVER RS
 SS = PERCENT IMPROVEMENT OF B OVER BS

APR 1973 SEP 1973

3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 1A2 1A2 1A2	4541	1107	76.2	41.0	21.9	.2438	.1564	.1822	14.1	.1742	10.2
SOUTHERN 1A2 1A2 1A2	4537	1066	78.0	38.0	20.0	.2350	.1521	.1771	14.1	.1691	10.1
CENTRAL 1A2 1A2 1A2	4536	993	76.8	32.6	18.1	.2189	.1542	.1615	4.5	.1515	-1.8
WESTERN 1A2 1A2 1A2	4535	842	81.7	26.4	14.5	.1857	.1387	.1489	6.8	.1392	0.4
ALASKAN 1A2 1A2 1A2	3820	839	78.6	31.1	16.5	.2196	.1519	.1718	11.6	.1633	7.0
PACIFIC 1A2 1A2 1A2	3822	835	79.3	31.0	15.4	.2185	.1464	.1719	14.8	.1618	9.5
NATIONAL 1A2 1A2 1A2	2924	269	90.7	30.2	8.8	.0920	.0696	.0794	12.3	.0753	7.5
	2928	271	90.0	28.4	8.9	.0926	.0725	.0809	10.4	.0746	2.9
	518	132	75.3	37.1	21.9	.2548	.1734	.1737	0.2	.1640	-5.7
	518	137	75.7	37.9	21.7	.2645	.1754	.1748	-0.3	.1681	-4.3
	177	22	85.9	8.4	7.8	.1243	.1181	.1092	-8.1	.1067	-10.7
	177	45	71.8	12.7	12.7	.2542	.2216	.1982	-11.8	.1880	-17.9
	16516	3362	79.6	34.8	16.9	.2036	.1395	.1549	9.9	.1469	5.0
	16517	3196	81.3	31.9	15.2	.1935	.1345	.1512	11.1	.1426	5.7

F = NUMBER OF FORECASTS
PC = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST
MN = MEAN PROBABILITY FORECAST
PF = RELATIVE PRECIPITATION FREQUENCY
B = BRIER SCORE
BC = CLIMATOLOGICAL BRIER SCORE
BS = PERCENT IMPROVEMENT OF B OVER BC
SS = SAMPLE IMPROVEMENT OF B OVER BS

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4544	3.1	5.0	38.7	0.1	5.5	84.4	13.1	2.1	0.4
19Z FP	4542	3.0	4.6	35.6	-0.9	4.9	86.3	12.5	0.9	0.3
SOUTHERN 06Z FP	4541	2.4	3.5	30.0	0.6	6.0	90.2	8.2	1.3	0.3
18Z FP	4543	2.4	3.5	30.5	-0.6	4.9	91.0	8.4	0.4	0.1
CENTRAL 06Z FP	4008	3.5	5.8	39.2	0.5	5.7	79.9	16.5	2.9	0.7
18Z FP	4006	3.2	5.4	40.4	-1.0	5.1	82.7	15.6	1.6	0.2
WESTERN 06Z FP	2927	2.9	4.9	40.0	0.3	6.0	86.2	11.2	2.1	0.5
18Z FP	2928	2.9	3.9	27.3	-0.7	6.5	86.5	11.8	1.5	0.2
ALASKAN 06Z FP	518	3.4	3.9	11.8	0.3	7.9	81.1	16.6	1.9	0.4
18Z FP	517	3.1	3.5	11.7	-0.5	7.9	84.1	14.1	1.6	0.2
PACIFIC 06Z FP	177	1.0	1.3	19.8	0.0	0.0	100.0	0.0	0.0	0.0
18Z FP	177	1.9	1.8	-10.8	-0.1	0.0	95.5	4.5	0.0	0.0
NATIONAL 06Z FP	16715	3.0	4.7	36.6	0.4	5.8	85.3	12.2	2.1	0.5
18Z FP	16713	2.9	4.3	33.8	-0.8	5.2	86.8	12.0	1.1	0.2

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE 24-HOUR OBSERVED ERROR
 TV = PERCENT IMPROVEMENT OVER TV
 TC = MEAN ALGEBRAIC FORECAST ERROR
 TG = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES TEMPERATURE ERROR CLASSES
 TM = 11 = 6 - 15
 T1 = 11 - 15
 T2 = 11 - 15
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP 1A2	4544	3.9	5.0	21.7	-0.1	6.3	75.6	18.6	4.6	1.2
SOUTHERN 06Z FP 1A2	4542	3.9	4.6	15.2	-1.4	6.1	74.7	21.4	3.3	0.6
CENTRAL 06Z FP 1A2	4542	3.3	3.5	5.6	0.6	7.3	82.2	14.0	2.8	1.0
WESTERN 06Z FP 1A2	3823	3.1	3.5	11.5	-0.7	6.1	84.0	13.4	2.2	0.4
ALASKAN 06Z FP 1A2	3822	4.7	5.7	18.1	0.2	7.2	66.5	24.7	6.5	2.3
PACIFIC 06Z FP 1A2	2927	4.4	5.4	19.1	-1.7	6.4	69.0	24.8	5.1	1.1
NATIONAL 06Z FP 1A2	2928	4.1	4.9	16.2	0.0	7.5	73.7	20.4	4.8	1.2
	518	3.4	3.9	14.0	-1.2	6.7	80.6	16.6	2.4	0.4
	518	4.4	3.9	-13.7	0.0	8.5	71.6	19.1	7.5	1.7
	518	3.8	3.6	-8.1	-0.4	6.7	75.9	20.9	2.7	0.6
	177	1.2	1.3	7.2	0.1	0.0	98.9	1.1	0.0	0.0
	177	2.3	1.8	-28.6	0.1	0.0	93.2	6.2	0.6	0.0
	16531	3.9	4.7	15.6	0.2	7.0	75.1	18.9	4.6	1.4
	16529	3.7	4.3	14.7	-1.2	6.3	77.2	18.9	3.2	0.6

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

OCT1973 MAR 1974 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	R	RC	S	RS	SS
EASTERN 06Z FP	4230	1112	86.4	65.5	15.7	.2629	.1005	.1901	47.1	.1847	45.6
18Z FP	4228	1129	83.8	61.9	15.7	.2670	.1129	.1922	41.2	.1851	39.0
SOUTHERN 06Z FP	3672	566	88.7	49.0	9.5	.1541	.0814	.1246	34.7	.1183	31.2
18Z FP	3675	540	89.1	49.0	9.1	.1469	.0779	.1158	32.8	.1095	28.9
CENTRAL 06Z FP	3993	764	87.8	51.9	10.4	.1913	.0888	.1499	40.8	.1439	38.3
18Z FP	3983	804	86.9	48.4	10.1	.2019	.0985	.1561	36.9	.1492	34.0
WESTERN 06Z FP	2748	600	86.8	61.7	12.8	.2183	.0904	.1490	39.3	.1389	35.0
18Z FP	2756	587	87.0	61.2	13.2	.2130	.0936	.1445	35.2	.1367	31.5
ALASKAN 06Z FP	448	118	81.0	61.3	19.1	.2634	.1350	.1696	20.4	.1546	12.7
18Z FP	448	121	82.8	59.7	17.0	.2701	.1273	.1680	24.2	.1536	17.1
PACIFIC 06Z FP	179	47	77.1	39.0	17.7	.2626	.1646	.1968	16.4	.1889	12.9
18Z FP	168	36	71.4	31.0	22.6	.2143	.1983	.1754	-13.1	.1633	-21.4
NATIONAL 06Z FP	15270	3207	87.1	58.1	12.3	.2100	.0928	.1559	40.5	.1490	37.7
18Z FP	15258	3217	86.3	55.8	12.2	.2108	.0986	.1549	36.4	.1476	33.2

F = NUMBER OF FORECASTS
P = NUMBER OF PRECIPITATION CASES
PC = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
PF = RELATIVE PRECIPITATION FREQUENCY
R = Brier Score
RC = CLIMATOLOGICAL Brier Score
S = PRECENT IMPROVEMENT OF R OVER RC
RS = SAMPLE Brier Score
SS = PERCENT IMPROVEMENT OF R OVER RS

	F	P	PC	MP	MN	PF	B	BC	S	RS	SS
EASTERN 1A2 1A7 1A7 1A7	4231 4228	1131 1112	81.6 82.4	55.6 56.5	17.9 18.3	.2673 .2630	.1281 .1218	.1923 .1901	33.4 35.9	.1851 .1840	30.8 33.8
SOUTHERN 1A2 1A2 1A2	3677 3670	541 558	87.5 86.2	40.9 38.4	9.9 10.4	.1471 .1520	.0909 .0977	.1159 .1231	21.6 20.6	.1097 .1167	17.1 16.3
CENTRAL 1A2 1A2 1A2	3985 3987	804 769	84.2 84.4	41.7 42.8	12.4 12.9	.2018 .1929	.1142 .1106	.1560 .1507	26.8 26.6	.1492 .1449	23.4 23.7
WESTERN 1A2 1A2 1A2	2756 2748	587 606	83.6 83.8	51.1 53.8	14.3 14.8	.2130 .2205	.1129 .1104	.1442 .1500	21.7 26.4	.1364 .1404	17.2 21.3
ALASKAN 1A2 1A2 1A2	446 448	120 117	80.5 80.6	53.6 55.0	18.6 19.3	.2691 .2612	.1404 .1421	.1686 .1683	16.7 15.6	.1531 .1543	8.3 7.9
PACIFIC 1A2 1A2 1A2	179 168	37 44	79.3 67.9	36.1 25.6	22.0 21.1	.2067 .2619	.1565 .2190	.1722 .1969	9.1 -11.2	.1583 .1865	1.1 -17.4
NATIONAL 1A2 1A2 1A2	15274 15249	3220 3206	84.0 83.9	48.5 49.1	13.8 14.2	.2108 .2102	.1135 .1127	.1548 .1559	26.7 27.7	.1475 .1489	23.1 24.3

F = NUMBER OF FORECASTS
 PC = TOTAL PERCENT OF PRECIPITATION CASES
 MP = MEAN PROBABILITY CORRECT
 MN = MEAN PROBABILITY FORECAST
 PF = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 B = RELATIVE PRECIPITATION FREQUENCY
 BC = CLIMATOLOGICAL Brier Score
 S = SAMPLE IMPROVEMENT OF R OVER BC
 RS = SAMPLE IMPROVEMENT OF R OVER BC
 SS = PERCENT IMPROVEMENT OF R OVER BS

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3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 1A2 FP	4230	1112	80.2	49.0	19.7	.2629	.1393	.1901	26.7	.1839	24.2
1B2 FP	4228	1125	79.0	48.4	20.5	.2661	.1453	.1911	24.0	.1839	21.0
SOUTHERN 1A2 FP	3671	558	85.5	31.4	10.6	.1520	.1064	.1230	13.5	.1166	8.7
1B2 FP	3675	539	85.8	31.1	10.4	.1467	.1039	.1157	10.1	.1087	4.4
CENTRAL 1A2 FP	3989	769	82.0	33.7	14.1	.1928	.1290	.1506	14.4	.1449	11.0
1B2 FP	3981	802	82.3	33.7	14.1	.2015	.1300	.1557	16.5	.1488	12.6
WESTERN 1A2 FP	2748	606	80.7	45.6	15.3	.2205	.1255	.1499	16.3	.1402	10.5
1B2 FP	2756	596	81.9	46.0	15.3	.2163	.1232	.1460	15.6	.1385	11.0
ALASKAN 1A2 FP	446	115	78.3	49.8	21.4	.2578	.1512	.1675	9.8	.1519	0.5
1B2 FP	446	119	80.7	51.8	19.5	.2668	.1411	.1682	16.1	.1534	8.0
PACIFIC 1A2 FP	179	48	70.9	24.7	18.9	.2682	.2047	.1993	-2.7	.1916	-6.8
1B2 FP	168	36	74.4	24.9	21.2	.2143	.1774	.1748	-1.5	.1599	-10.9
NATIONAL 1A2 FP	15263	3208	81.9	41.3	15.1	.2102	.1273	.1559	18.3	.1488	14.4
1B2 FP	15254	3217	82.0	41.2	15.2	.2109	.1276	.1547	17.5	.1473	13.4

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = RELATIVE PRECIPITATION FREQUENCY
PF = Brier Score
B = CLIMATOLOGICAL Brier Score
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS
SS =

OCT1973 MAR 1974

1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4233	3.7	7.6	51.2	0.4	4.9	77.7	18.3	3.5	0.5
1A2 FP	4231	3.9	8.1	52.2	-1.3	4.6	75.2	21.0	3.4	0.5
SOUTHERN 06Z FP	3679	3.1	6.3	51.1	0.6	4.5	83.1	13.7	2.6	0.6
1A2 FP	3677	3.5	7.0	49.9	-1.2	4.6	79.5	16.8	3.2	0.6
CENTRAL 06Z FP	3969	4.0	7.8	48.5	1.0	5.1	73.9	21.1	4.1	0.9
1A2 FP	3954	4.3	7.9	45.8	-1.7	5.3	70.4	23.7	4.8	1.1
WESTERN 06Z FP	2758	3.1	4.9	35.4	0.3	5.7	83.7	14.3	1.8	0.2
1A2 FP	2757	3.5	5.1	31.8	-0.5	6.3	80.9	14.9	3.5	0.7
ALASKAN 06Z FP	449	3.4	4.6	25.4	0.1	6.1	81.1	15.1	3.3	0.4
1A2 FP	450	5.4	6.1	11.4	0.3	9.4	62.0	24.7	8.9	4.4
PACIFIC 06Z FP	179	1.1	1.5	25.2	0.1	0.0	100.0	0.0	0.0	0.0
1A2 FP	168	3.3	2.9	-16.8	-0.1	7.5	80.4	19.1	0.6	0.0
NATIONAL 06Z FP	15267	3.5	6.7	47.7	0.6	4.9	79.4	16.9	3.1	0.6
1A2 FP	15237	3.9	7.1	45.8	-1.2	5.1	75.7	19.6	3.9	0.8

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OVER TV
 TC = MEAN IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = 0 - 5 DEGREES TEMPERATURE ERROR CLASSES
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

OCT1973 MAR 1974 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 062 FP	4235	4.6	8.1	42.8	-0.7	5.4	66.1	26.6	6.3	1.0
182 FP										
SOUTHERN 052 FP	4228	4.4	7.6	41.6	-0.4	5.6	70.0	22.4	5.8	1.7
182 FP										
CENTRAL 052 FP	3677	4.3	7.0	38.1	-0.8	5.6	70.3	22.7	5.6	1.4
182 FP										
WESTERN 062 FP	3678	3.7	6.3	41.2	0.4	5.6	76.8	17.4	4.5	1.3
182 FP										
ALASKAN 062 FP	3956	5.1	7.9	34.9	-1.1	6.4	62.5	26.5	8.4	2.6
182 FP										
PACIFIC 062 FP	2757	4.1	5.1	19.6	-0.6	6.9	73.2	20.8	4.4	1.7
182 FP										
NATIONAL 062 FP	2758	3.6	4.8	25.3	0.0	6.3	77.9	18.5	3.1	0.6
182 FP										
182 FP	449	6.3	6.1	-3.2	1.6	10.4	55.0	26.5	10.5	8.0
182 FP										
182 FP	448	4.9	4.6	-5.6	-0.8	8.6	65.9	23.9	8.3	2.0
182 FP										
182 FP	179	2.8	2.9	3.2	0.3	7.5	88.8	11.2	0.0	0.0
182 FP										
182 FP	168	1.5	1.5	-1.3	0.1	0.0	100.0	0.0	0.0	0.0
182 FP										
182 FP	15253	4.6	7.1	35.0	-0.7	6.0	67.4	24.4	6.4	1.8
182 FP										
182 FP	15245	4.2	6.7	36.9	0.1	5.9	71.9	21.1	5.5	1.5

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FD 1A2	4231	5.1	7.6	33.3	0.1	6.3	63.0	26.0	8.3	2.7
SOUTHERN 06Z FD 1A2	4230	5.3	8.1	34.7	-0.7	6.2	60.3	28.6	8.4	2.7
CENTRAL 06Z FD 1A2	3678	4.4	6.3	30.2	0.6	6.6	69.7	21.4	6.2	2.8
WESTERN 06Z FD 1A2	3677	4.9	7.0	29.6	-1.1	6.5	64.3	25.2	8.0	2.5
ALASKAN 06Z FD 1A2	3967	5.7	7.8	27.1	0.8	7.0	57.8	27.6	10.6	4.0
PACIFIC 06Z FD 1A2	3953	5.7	7.9	27.1	-1.4	7.1	57.8	27.3	10.3	4.6
NATIONAL 06Z FD 1A2	2757	4.3	4.8	10.6	0.1	7.1	70.7	22.8	4.8	1.7
06Z FD 1A2	2756	4.6	5.2	12.1	-0.8	7.2	68.7	23.0	6.1	2.2
06Z FD 1A2	447	5.5	4.6	-20.1	-0.1	10.8	59.5	27.7	7.8	4.9
06Z FD 1A2	448	7.1	6.1	-15.9	1.2	9.9	51.8	25.9	12.1	10.3
06Z FD 1A2	179	1.5	1.5	-2.0	0.1	0.0	98.3	1.7	0.0	0.0
06Z FD 1A2	168	3.8	2.8	-33.3	0.2	7.5	79.8	17.9	2.4	0.0
06Z FD 1A2	15259	4.9	6.7	26.6	0.4	6.7	65.0	24.5	7.6	2.9
06Z FD 1A2	15232	5.2	7.1	26.8	-0.9	6.7	63.1	26.7	8.4	2.7

N	==	NUMBER OF FORECASTS
TV	==	MEAN ABSOLUTE FORECAST ERROR
TTC	==	MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
TM	==	PERCENT IMPROVEMENT OVER TV
T1	==	MEAN ALGEBRAIC FORECAST ERROR
T2	==	MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
T3	==	DEGREES TEMPERATURE ERROR CLASSES
T4	==	0 - - 5
		6 - - 10
		11 - - 15
		GREATER THAN 15 DEGREES

APR 1974 SEP 1974 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 06Z FD	4291	1078	82.0	53.0	18.1	.2512	.1243	.1891	34.3	.1805	31.1
18Z FD	4266	1006	81.9	49.4	17.2	.2358	.1279	.1805	29.1	.1739	26.4
SOUTHERN 06Z FD	4352	895	81.5	44.9	16.8	.2057	.1187	.1560	23.9	.1461	18.7
18Z FD	4320	710	85.4	39.4	14.1	.1644	.1064	.1370	22.3	.1282	17.0
CENTRAL 06Z FD	3841	721	84.9	42.9	13.4	.1877	.1073	.1504	28.7	.1441	25.6
18Z FD	3831	777	83.9	40.8	13.0	.2028	.1174	.1597	26.5	.1529	23.2
WESTERN 06Z FD	2820	281	91.7	45.3	8.5	.0996	.0596	.0832	28.4	.0768	22.4
18Z FD	2810	282	91.2	45.7	8.6	.1004	.0614	.0853	28.0	.0778	21.0
ALASKAN 06Z FD	330	109	73.6	58.9	26.3	.3303	.1794	.2072	13.4	.1967	8.8
18Z FD	329	101	74.5	56.7	22.7	.3070	.1685	.1984	15.1	.1825	7.7
PACIFIC 06Z FD	179	32	81.0	27.8	14.1	.1788	.1354	.1486	8.9	.1339	-1.1
18Z FD	180	25	85.6	26.4	14.6	.1389	.1177	.1183	0.5	.1119	-5.2
NATIONAL 06Z FD	15813	3116	84.1	47.6	14.8	.1971	.1084	.1516	28.5	.1435	24.5
18Z FD	15736	2901	84.9	44.3	13.7	.1844	.1083	.1461	25.9	.1385	21.8

F = NUMBER OF FORECASTS
P = NUMBER OF PRECIPITATION CASES
PC = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = RELATIVE PRECIPITATION FREQUENCY
PF = RRIER SCORE
B = CLIMATOLOGICAL Brier Score
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS

	F	P	PC	MP	MN	PF	B	RC	S	RS	SS
EASTERN 182 FP	4290	1024	79.1	45.1	18.3	.2387	.1422	.1823	22.0	.1754	18.9
182 FP	4266	1084	79.3	45.2	19.2	.2541	.1429	.1908	25.1	.1810	21.0
SOUTHERN 182 FP	4348	717	83.8	32.8	14.7	.1649	.1176	.1373	14.4	.1285	8.5
182 FP	4318	897	80.2	39.0	17.1	.2077	.1321	.1572	15.9	.1476	10.5
CENTRAL 182 FP	3844	777	81.9	35.9	15.1	.2021	.1320	.1592	17.1	.1525	13.5
182 FP	3820	719	83.9	35.4	14.1	.1882	.1217	.1509	19.4	.1442	15.6
WESTERN 182 FP	2816	282	89.9	35.1	9.2	.1001	.0713	.0851	16.2	.0776	8.1
182 FP	2807	275	90.6	39.8	9.4	.0980	.0659	.0822	19.8	.0757	12.9
ALASKAN 182 FP	329	101	69.3	50.5	26.6	.3070	.2033	.1984	-2.5	.1825	-11.4
182 FP	329	111	69.3	49.3	26.7	.3374	.2078	.2071	-0.3	.1948	-6.7
PACIFIC 182 FP	178	25	85.4	31.2	17.1	.1404	.1160	.1193	2.8	.1131	-2.6
182 FP	179	32	77.6	15.9	14.3	.1788	.1597	.1480	-7.9	.1347	-18.6
NATIONAL 182 FP	15805	2926	82.9	38.8	14.9	.1851	.1213	.1466	17.3	.1390	12.7
182 FP	15719	3118	82.5	40.5	15.4	.1984	.1226	.1524	19.5	.1439	14.8

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = RELATIVE SCORE
PF = CLIMATOLOGICAL Brier Score
B = PRECIPITATION IMPROVEMENT OF B OVER BC
RC = SAMPLE Brier Score
S = PERCENT IMPROVEMENT OF B OVER BS
RS =

APR 1974 SEP 1974 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	R	BC	S	BS	SS
EASTERN 1A2	4284	1089	77.5	41.5	20.5	.2542	.1555	.1908	18.5	.1812	14.2
1A2	4257	1019	76.3	36.2	18.6	.2394	.1576	.1829	13.8	.1757	10.3
SOUTHERN 1A2	4345	905	78.0	33.2	17.1	.2083	.1431	.1574	9.1	.1478	3.2
1A2	4315	721	83.1	27.5	14.6	.1671	.1261	.1389	9.2	.1294	2.6
CENTRAL 1A2	3827	722	81.6	29.8	14.6	.1887	.1323	.1512	12.5	.1445	8.4
1A2	3811	759	81.4	30.0	14.9	.1992	.1384	.1575	12.1	.1502	7.8
WESTERN 1A2	2813	275	90.3	33.4	9.4	.0978	.0713	.0821	13.2	.0756	5.7
1A2	2800	265	90.3	32.2	9.6	.0946	.0723	.0816	11.4	.0741	2.4
ALASKAN 1A2	328	111	68.6	46.7	28.3	.3384	.2156	.2071	-4.1	.1950	-10.6
1A2	328	103	65.6	42.6	28.1	.3140	.2233	.1977	-13.0	.1845	-21.0
PACIFIC 1A2	180	32	81.7	20.6	13.4	.1778	.1427	.1472	3.1	.1340	-6.5
1A2	180	25	86.1	23.2	15.7	.1389	.1150	.1183	2.8	.1119	-2.8
NATIONAL 1A2	15777	3134	80.8	35.7	15.9	.1986	.1325	.1525	13.1	.1440	8.0
1A2	15691	2892	81.8	32.1	14.9	.1843	.1299	.1461	11.1	.1381	5.9

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = RELATIVE PRECIPITATION FREQUENCY
PF = Brier Score
R = CLIMATOLOGICAL Brier Score
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS
SS =

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4301	3.1	5.7	46.3	0.3	5.0	84.3	13.1	2.2	0.4
18Z FP	4250	3.0	5.5	45.3	-0.8	4.3	85.8	12.9	1.2	0.2
SOUTHERN 06Z FP	4384	2.5	3.8	34.5	0.8	5.9	89.7	8.5	1.6	0.2
18Z FP	4337	2.5	3.7	32.3	-0.6	4.9	90.2	8.6	1.1	0.2
CENTRAL 06Z FP	3818	3.6	6.5	44.9	0.5	5.4	78.6	17.6	3.2	0.6
18Z FP	3804	3.4	5.8	41.7	-0.8	4.6	81.3	16.7	1.8	0.3
WESTERN 06Z FP	2824	2.8	4.6	38.1	0.3	5.8	87.8	10.1	1.7	0.4
18Z FP	2811	2.9	3.6	19.6	-0.3	6.3	87.3	11.1	1.3	0.4
ALASKAN 06Z FP	330	3.6	4.9	25.4	0.2	7.5	76.1	21.5	1.8	0.6
18Z FP	329	3.1	3.8	19.0	-0.5	6.5	86.3	11.6	1.2	0.9
PACIFIC 06Z FP	181	1.3	1.2	-1.6	0.0	0.0	97.8	1.1	1.1	0.0
18Z FP	179	2.2	2.1	-5.8	-0.1	0.0	94.4	5.6	0.0	0.0
NATIONAL 06Z FP	15838	3.0	5.1	41.6	0.5	5.4	85.0	12.4	2.2	0.4
18Z FP	15710	2.9	4.6	37.0	-0.6	4.7	86.3	12.2	1.3	0.3

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = REGRETS TEMPERATURE ERROR CLASSES
 T2 = 0
 T3 = 1
 T4 = 6 - 15
 T5 = GREATER THAN 15 DEGREES

APR 1974 SEP 1974 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4276	3.3	5.5	39.5	-0.5	4.4	81.9	16.4	1.6	0.2
1A2 FP	4262	3.6	5.6	37.1	-0.1	5.6	79.1	16.6	3.4	0.9
SOUTHERN 06Z FP	4367	2.8	3.7	23.9	-0.3	5.3	87.0	11.2	1.6	0.2
1A2 FP	4342	2.9	3.7	21.5	0.8	6.6	85.4	11.4	2.6	0.6
CENTRAL 06Z FP	3816	3.8	5.8	33.5	-0.5	5.1	75.3	21.2	3.2	0.4
1A2 FP	3799	4.3	6.5	34.2	0.2	6.1	71.4	22.3	5.2	1.2
WESTERN 06Z FP	2819	3.0	3.6	15.6	-0.1	6.7	84.7	13.1	1.9	0.3
1A2 FP	2811	3.4	4.6	26.5	0.2	6.5	81.1	15.0	3.1	0.8
ALASKAN 06Z FP	329	3.4	3.8	8.9	-0.5	8.0	80.2	17.6	1.8	0.3
1A2 FP	329	4.6	4.9	5.4	-0.4	9.3	64.7	28.6	5.5	1.2
PACIFIC 06Z FP	179	2.3	2.1	-11.1	0.4	0.0	94.4	4.5	0.0	1.1
1A2 FP	179	1.4	1.2	-18.0	-0.2	0.0	99.4	0.6	0.0	0.0
NATIONAL 06Z FP	15786	3.2	4.6	30.1	-0.4	5.1	82.3	15.4	2.0	0.3
1A2 FP	15722	3.5	5.1	30.4	0.3	6.1	79.3	16.3	3.6	0.9

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

APR 1974 SEP 1974

3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z 18Z 18Z	4289 4244 4244	4.0 3.8 3.8	5.6 5.4 5.4	29.6 30.5 30.5	0.2 -1.0 -1.0	6.3 5.2 5.2	75.0 76.3 76.3	18.8 19.9 19.9	5.0 3.2 3.2	1.2 0.5 0.5
SOUTHERN 06Z 18Z 18Z	4376 4330 4330	3.3 3.3 3.3	3.7 3.6 3.6	12.9 11.1 11.1	1.2 -0.4 -0.4	7.0 6.0 6.0	82.1 81.9 81.9	13.6 15.2 15.2	3.0 2.2 2.2	1.2 0.7 0.7
CENTRAL 06Z 18Z 18Z	3814 3791 3791	4.8 4.4 4.4	6.5 5.7 5.7	25.8 23.4 23.4	0.5 -0.8 -0.8	6.6 5.7 5.7	65.8 69.1 69.1	24.9 25.0 25.0	7.4 4.7 4.7	2.0 1.2 1.2
WESTERN 06Z 18Z 18Z	2818 2809 2809	4.0 3.4 3.4	4.6 3.6 3.6	13.1 5.1 5.1	0.4 -0.1 -0.1	7.6 7.2 7.2	74.3 81.8 81.8	19.9 14.8 14.8	4.4 2.6 2.6	1.4 0.8 0.8
ALASKAN 06Z 18Z 18Z	329 328 328	5.3 3.9 3.9	4.9 3.8 3.8	-7.9 -1.9 -1.9	0.1 -0.5 -0.5	8.5 7.8 7.8	60.2 72.9 72.9	28.0 22.3 22.3	9.7 4.6 4.6	2.1 0.3 0.3
PACIFIC 06Z 18Z 18Z	179 179 179	1.4 2.4 2.4	1.2 2.0 2.0	-18.9 -16.3 -16.3	0.0 0.2 0.2	0.0 0.0 0.0	98.3 93.9 93.9	0.6 6.1 6.1	0.6 0.0 0.0	0.6 0.0 0.0
NATIONAL 06Z 18Z 18Z	15805 15681 15681	4.0 3.7 3.7	5.1 4.6 4.6	21.4 19.7 19.7	0.6 -0.6 -0.6	6.8 5.7 5.7	74.6 77.2 77.2	19.0 18.8 18.8	5.0 3.2 3.2	1.4 0.8 0.8

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE 24-HOUR OBSERVED
 TV = MEAN ABSOLUTE IMPROVEMENT OVER TV
 TC = PERCENT ALGEBRAIC FORECAST ERROR
 TG = MEAN ALGEBRAIC FORECAST ERROR WHEN TV EXCEEDS 10
 TM = DEGREES TEMPERATURE ERROR CLASSES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

OCT 1974 MAR 1975 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	RS	SS
EASTERN											
06Z	3721	1024	85.5	65.8	15.4	.2752	.1036	.1928	46.3	.1835	43.6
18Z	3693	954	85.0	63.6	15.0	.2583	.1045	.1836	43.1	.1768	40.9
SOUTHERN											
06Z	3939	701	86.4	49.3	10.9	.1780	.0950	.1425	33.3	.1357	30.0
18Z	3883	664	88.0	51.7	10.3	.1710	.0860	.1349	36.3	.1292	33.5
CENTRAL											
06Z	3523	752	86.3	48.6	10.1	.2135	.0989	.1651	40.1	.1565	36.8
18Z	3480	775	86.2	52.3	11.1	.2227	.0995	.1678	40.7	.1596	37.6
WESTERN											
06Z	2420	482	86.8	57.5	12.0	.1992	.0923	.1419	35.0	.1329	30.6
18Z	2354	461	87.8	58.4	11.4	.1958	.0863	.1380	37.5	.1302	33.7
ALASKAN											
06Z	413	162	80.6	66.0	21.2	.3923	.1410	.1981	28.8	.1847	23.7
18Z	383	144	74.7	63.5	25.9	.3760	.1805	.2037	11.4	.1898	4.9
PACIFIC											
06Z	137	28	83.9	44.4	14.5	.2044	.1140	.1609	29.1	.1568	27.3
18Z	137	31	74.4	35.0	18.4	.2263	.1743	.1769	1.5	.1604	-8.7
NATIONAL											
06Z	14153	3149	86.0	56.5	12.2	.2225	.0993	.1630	39.1	.1546	35.8
18Z	13930	3029	86.2	57.0	12.3	.2174	.0978	.1589	38.4	.1516	35.5

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = TOTAL PERCENT CORRECT, PRECIPITATION
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
PF = RELATIVE PRECIPITATION FREQUENCY
B = Brier Score
BC = Climatological Brier Score
S = Percent Improvement of B over BC
RS = Sample Brier Score
SS = Percent Improvement of B over RS

	F	P	PC	MP	MN	PF	B	BC	S	RS	SS
EASTERN 1A2 FD	3709	966	83.0	54.6	15.8	.2604	.1210	.1847	34.5	.1780	32.0
1A2 FD	3741	1057	80.9	54.2	17.5	.2825	.1324	.1964	32.6	.1869	29.2
SOUTHERN 1A2 FD	3881	665	85.3	41.4	11.9	.1713	.1061	.1351	21.5	.1294	18.0
1A2 FD	3935	712	84.1	41.7	12.2	.1809	.1106	.1446	23.5	.1372	19.4
CENTRAL 1A2 FD	3484	773	83.9	42.9	12.8	.2219	.1188	.1673	29.0	.1590	25.3
1A2 FD	3513	754	82.3	41.6	14.2	.2146	.1259	.1660	24.1	.1575	20.1
WESTERN 1A2 FD	2361	465	84.2	46.9	12.3	.1970	.1061	.1388	23.5	.1308	18.9
1A2 FD	2411	482	84.4	49.6	13.8	.1999	.1084	.1430	24.2	.1343	19.3
ALASKAN 1A2 FD	384	145	73.7	59.3	27.2	.3776	.1874	.2052	8.7	.1906	1.7
1A2 FD	413	160	76.8	58.9	23.3	.3874	.1679	.1954	14.1	.1822	7.8
PACIFIC 1A2 FD	138	32	79.0	39.1	19.5	.2319	.1493	.1796	16.9	.1620	7.8
1A2 FD	136	30	77.2	30.5	16.5	.2206	.1638	.1694	3.3	.1610	-1.7
NATIONAL 1A2 FD	13957	3046	83.8	47.6	13.6	.2182	.1159	.1593	27.3	.1519	23.7
1A2 FD	14149	3195	82.6	47.8	14.6	.2258	.1220	.1651	26.1	.1564	22.0

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, PRECIPITATION
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
PF = Brier Score
B = CLIMATOLOGICAL Brier Score
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
RS = PERCENT IMPROVEMENT OF R OVER BS
SS =

OCT 1974 MAR 1975 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
182	3752	1059	78.9	45.3	17.5	.2822	.1478	.1963	24.7	.1869	20.9
182	3670	964	78.1	45.6	19.5	.2627	.1514	.1860	18.6	.1797	15.8
SOUTHERN											
182	3940	712	83.0	33.3	12.3	.1807	.1224	.1445	15.3	.1370	10.7
182	3841	645	84.1	35.3	12.6	.1679	.1139	.1333	14.6	.1271	10.4
CENTRAL											
182	3521	755	81.1	34.5	14.3	.2144	.1361	.1659	17.9	.1574	13.5
182	3441	759	79.7	35.0	15.4	.2206	.1413	.1665	15.1	.1584	10.8
WESTERN											
182	2416	482	82.8	42.6	13.8	.1995	.1209	.1427	15.2	.1341	9.8
182	2337	455	82.3	41.0	13.9	.1947	.1218	.1380	11.7	.1288	5.4
ALASKAN											
182	413	160	78.0	58.8	24.7	.3874	.1668	.1960	14.9	.1827	8.7
182	381	139	71.6	57.2	29.6	.3648	.1995	.1929	-3.4	.1773	-12.5
PACIFIC											
182	138	31	81.9	27.6	16.4	.2246	.1571	.1722	8.8	.1639	4.1
182	136	32	71.3	28.6	19.7	.2353	.1875	.1814	-3.4	.1644	-14.1
NATIONAL											
182	14180	3199	81.3	40.2	14.7	.2256	.1339	.1650	18.8	.1564	14.4
182	13806	2994	80.6	40.3	15.7	.2169	.1351	.1585	14.8	.1509	10.5

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST
MP = MEAN PROBABILITY FORECAST
MN = MEAN PROBABILITY FORECAST
PF = MEAN PROBABILITY FORECAST
B = Brier Score
BC = Climatological Brier Score
S = Percent Improvement of B over BC
BS = Percent Improvement of B over BS

OCT 1974 MAR 1975 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN FP 06Z	3724	3.6	7.2	49.8	0.7	4.6	79.0	17.6	2.5	0.9
FP 18Z	3727	3.7	7.8	52.5	-1.0	4.4	79.0	17.5	2.3	1.3
SOUTHERN FP 06Z	3913	3.4	6.6	49.2	0.5	5.0	80.8	15.7	2.4	1.1
FP 18Z	3855	3.7	7.0	47.0	-1.0	4.8	77.7	18.3	2.9	1.1
CENTRAL FP 06Z	3510	3.7	7.5	50.7	0.7	4.8	77.1	19.4	2.9	0.6
FP 18Z	3511	4.3	7.5	42.9	-1.2	5.3	72.1	22.1	4.6	1.2
WESTERN FP 06Z	2306	3.2	5.2	37.8	0.5	5.4	83.8	13.3	2.0	0.9
FP 18Z	2363	3.6	5.3	30.9	-0.4	6.4	80.2	15.5	2.4	1.9
ALASKAN FP 06Z	411	4.3	4.5	5.0	1.6	5.4	79.1	13.6	2.2	5.1
FP 18Z	410	4.8	5.6	14.4	0.8	6.6	71.5	17.8	6.1	4.6
PACIFIC FP 06Z	163	1.4	1.7	20.0	0.0	2.0	98.2	1.8	0.0	0.0
FP 18Z	164	2.8	2.3	-22.1	0.3	8.0	88.4	10.4	0.6	0.6
NATIONAL FP 06Z	14027	3.5	6.6	47.3	0.6	4.9	80.1	16.5	2.5	1.0
FP 18Z	14030	3.9	7.0	44.4	-0.9	5.0	77.0	18.4	3.2	1.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

OCT 1974 MAR 1975 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FB 1A2 FP	3736 3713	4.4 4.0	7.9 7.2	44.0 44.0	-0.9 0.1	5.0 5.1	70.1 74.5	24.5 20.6	3.9 3.8	1.5 1.1
SOUTHERN 06Z FB 1A2 FP	3864 3895	4.3 4.0	7.0 6.7	39.5 40.1	-1.2 0.3	5.5 6.0	71.3 74.1	22.1 18.9	5.5 5.4	1.1 1.5
CENTRAL 06Z FB 1A2 FP	3516 3502	5.0 4.6	7.5 7.5	33.3 39.4	-1.5 0.4	6.0 6.0	63.1 68.1	27.7 24.4	7.2 6.0	2.0 1.5
WESTERN 06Z FB 1A2 FP	2370 2287	4.0 3.8	5.3 5.2	24.5 27.5	-0.4 0.4	6.5 6.1	75.8 77.6	19.5 18.2	3.4 2.8	1.3 1.5
ALASKAN 06Z FB 1A2 FP	410 412	5.6 5.1	5.6 4.6	0.3 -9.0	0.9 1.0	8.2 9.2	58.3 69.4	26.3 18.4	10.0 5.8	5.4 6.3
PACIFIC 06Z FB 1A2 FP	165 164	2.3 1.7	2.3 1.7	-1.3 3.5	0.6 0.4	8.0 6.0	90.9 96.3	8.5 3.1	0.6 0.6	0.0 0.0
NATIONAL 06Z FB 1A2 FP	14061 13973	4.4 4.1	7.0 6.6	36.1 38.2	-1.0 0.3	5.6 5.8	69.5 73.4	23.7 20.4	5.2 4.7	1.6 1.5

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

APR 1975 SEP 1975 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 06Z FB	3420	786	81.1	52.6	19.8	.2298	.1284	.1785	28.1	.1677	23.5
14Z FB	3505	776	83.1	53.7	18.6	.2214	.1194	.1755	31.9	.1650	27.6
SOUTHERN 06Z FB	3431	739	81.8	44.3	18.2	.2154	.1258	.1607	21.7	.1507	16.6
18Z FB	3507	574	85.1	38.0	15.0	.1637	.1104	.1338	17.5	.1259	12.4
CENTRAL 06Z FB	3115	590	84.1	42.8	15.3	.1894	.1166	.1522	23.4	.1446	19.3
18Z FB	3211	700	81.4	41.1	15.9	.2180	.1310	.1683	22.2	.1587	17.4
WESTERN 06Z FB	2161	284	89.4	51.4	11.2	.1314	.0750	.1080	30.6	.0977	23.3
18Z FB	2226	265	89.5	50.1	11.0	.1190	.0731	.0999	26.8	.0934	21.8
ALASKAN 06Z FB	255	93	79.6	59.1	24.3	.3647	.1611	.2220	27.4	.2168	25.7
14Z FB	258	101	74.0	56.5	24.2	.3915	.1747	.2252	22.4	.2170	19.5
PACIFIC 06Z FB	144	14	91.0	16.1	6.9	.0972	.0857	.0887	3.4	.0868	1.3
18Z FB	133	7	93.2	38.6	10.3	.0526	.0501	.0656	23.6	.0415	-20.7
NATIONAL 06Z FB	12526	2506	83.6	47.7	16.5	.2001	.1157	.1548	25.2	.1453	20.4
18Z FB	12840	2423	84.3	46.0	15.5	.1887	.1122	.1491	24.7	.1401	19.9

F = NUMBER OF FORECASTS
P = NUMBER OF PRECIPITATION CASES
PC = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
PF = RELATIVE PRECIPITATION FREQUENCY
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
S = PRECENT IMPROVEMENT OF B OVER BC
BS = SAMPLE Brier Score
SS = PERCENT IMPROVEMENT OF B OVER BS

	F	P	PC	MP	MN	PF	R	BC	S	RS	SS
EASTERN 1A2 FP	3421	746	80.5	44.3	18.3	.2181	.1340	.1736	22.8	.1641	18.3
1A2 FP	3461	832	78.2	45.4	20.6	.2404	.1471	.1845	20.2	.1738	15.4
SOUTHERN 1A2 FP	3433	572	83.1	32.8	16.2	.1666	.1231	.1366	9.9	.1276	3.6
1A2 FP	3456	734	79.3	38.7	18.9	.2124	.1389	.1591	12.7	.1499	7.3
CENTRAL 1A2 FP	3112	682	79.4	35.4	16.9	.2192	.1460	.1690	13.6	.1592	8.3
1A2 FP	3174	601	81.6	37.0	17.4	.1894	.1321	.1519	13.1	.1446	8.7
WESTERN 1A2 FP	2163	264	88.9	43.4	11.4	.1221	.0798	.1023	22.0	.0957	16.6
1A2 FP	2196	288	88.1	44.5	12.1	.1311	.0856	.1077	20.5	.0978	12.5
ALASKAN 1A2 FP	255	96	71.4	52.6	25.6	.3765	.1855	.2246	17.4	.2174	14.7
1A2 FP	254	92	73.2	53.7	26.5	.3622	.1787	.2198	18.7	.2129	16.1
PACIFIC 1A2 FP	144	7	93.1	16.4	10.9	.0486	.0623	.0643	3.1	.0432	-44.2
1A2 FP	131	15	85.5	16.3	8.8	.1145	.1095	.1007	-8.7	.0990	-10.6
NATIONAL 1A2 FP	12528	2367	82.4	39.1	16.1	.1889	.1249	.1498	16.6	.1408	11.3
1A2 FP	12672	2562	81.1	41.6	17.7	.2022	.1307	.1560	16.2	.1468	11.0

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, PRECIPITATION
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = RELATIVE PRECIPITATION FREQUENCY
PF = Brier Score
R = CLIMATOLOGICAL Brier Score
BC = PRESENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
RS = PERCENT IMPROVEMENT OF B OVER BS
SS =

APR 1975 SEP 1975 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 182 FP	3371	820	76.4	40.1	20.8	.2433	.1549	.1859	16.7	.1736	10.8
182 FP	3463	775	78.8	40.4	19.8	.2238	.1456	.1764	17.5	.1663	12.5
SOUTHERN 182 FP	3390	735	78.6	34.0	18.8	.2168	.1485	.1622	8.5	.1523	2.5
182 FP	3460	573	82.6	28.9	16.6	.1656	.1289	.1364	5.5	.1282	-0.6
CENTRAL 182 FP	3073	575	80.7	30.1	16.6	.1871	.1385	.1506	8.0	.1434	3.4
182 FP	3178	698	77.9	30.3	17.9	.2196	.1589	.1698	6.4	.1599	0.6
WESTERN 182 FP	2133	279	87.3	39.2	11.9	.1308	.0916	.1081	15.2	.0976	6.1
182 FP	2205	260	86.9	37.8	12.8	.1179	.0922	.0987	6.6	.0913	-1.0
ALASKAN 182 FP	251	88	67.3	46.0	29.3	.3506	.2156	.2196	1.8	.2140	-0.7
182 FP	255	99	70.6	49.2	28.9	.3882	.2065	.2230	7.4	.2134	3.2
PACIFIC 182 FP	141	15	88.6	14.7	9.0	.1064	.0982	.0948	-3.6	.0932	-5.4
182 FP	132	4	93.9	17.5	11.1	.0303	.0483	.0540	10.6	.0281	-71.9
NATIONAL 182 FP	12359	2512	79.9	36.0	17.5	.2033	.1387	.1568	11.6	.1470	5.6
182 FP	12693	2409	81.0	34.8	17.2	.1898	.1353	.1500	9.8	.1408	3.9

F = NUMBER OF FORECASTS
P = NUMBER OF PRECIPITATION CASES
PC = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
PF = RELATIVE PRECIPITATION FREQUENCY
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
S = PERCENT IMPROVEMENT OF B OVER BC
BS = SAMPLE Brier Score
SS = PERCENT IMPROVEMENT OF B OVER BS

APR 1975 SEP 1975 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP 18Z FP 3524	3.0 2.9	4.7 3.9	35.6 26.1	0.2 0.2	5.0 5.2	84.9 87.0	13.3 11.6	1.5 1.1	0.4 0.3
SOUTHERN 06Z FP 18Z FP 3481 3565	2.3 2.5	3.2 2.9	29.3 15.7	0.3 0.3	5.2 5.9	91.6 90.7	7.3 8.2	0.9 0.9	0.1 0.3
CENTRAL 06Z FP 18Z FP 3139 3218	3.6 3.2	5.4 4.3	33.6 26.2	-0.1 -0.1	5.5 5.5	79.4 84.4	17.2 13.3	2.2 1.5	1.1 0.8
WESTERN 06Z FP 18Z FP 2207 2258	3.1 2.7	4.6 3.1	34.3 14.8	0.1 -0.1	5.3 7.5	84.9 89.1	12.9 9.6	2.0 0.9	0.3 0.4
ALASKAN 06Z FP 18Z FP 248 264	3.5 3.0	4.2 3.0	16.4 1.1	-0.3 -0.2	7.5 4.4	80.2 84.1	18.1 14.0	1.2 1.5	0.4 0.4
PACIFIC 06Z FP 18Z FP 143 143	1.1 1.7	1.0 1.4	-3.9 -17.2	0.1 0.1	0.0 0.0	98.6 96.5	1.4 3.5	0.0 0.0	0.0 0.0
NATIONAL 06Z FP 18Z FP 12672 12972	2.9 2.8	4.4 3.5	32.9 21.2	0.1 0.1	5.3 5.7	85.4 87.8	12.5 10.7	1.6 1.1	0.5 0.4

N = NUMBER OF FORECASTS
TE = MEAN ABSOLUTE FORECAST ERROR
TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
TC = PERCENT IMPROVEMENT OVER TV
TG = MEAN ALGEBRAIC FORECAST ERROR
TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
T1 = 0 - 5 DEGREES
T2 = 6 - 10 DEGREES
T3 = 11 - 15 DEGREES
T4 = GREATER THAN 15 DEGREES

APR 1975 SEP 1975 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	3460	3.1	3.9	20.3	0.1	5.1	84.5	14.2	1.1	0.2
18Z FP	3469	3.4	4.7	26.1	0.0	5.7	80.7	15.9	2.9	0.6
SOUTHERN 06Z FP	3491	2.6	2.9	10.4	0.3	6.5	88.5	10.1	1.2	0.2
18Z FP	3506	2.6	3.2	18.4	0.2	6.0	88.3	10.1	1.3	0.3
CENTRAL 06Z FP	3136	3.5	4.3	20.0	-0.1	5.6	80.7	16.7	1.8	0.8
18Z FP	3176	4.1	5.4	23.2	-0.3	6.4	74.1	19.8	4.6	1.4
WESTERN 06Z FP	2208	2.9	3.1	8.2	-0.2	7.6	86.3	11.5	1.5	0.6
18Z FP	2225	3.7	4.6	20.3	-0.1	6.3	78.2	18.1	3.0	0.7
ALASKAN 06Z FP	247	3.1	3.0	-3.2	-0.3	3.0	85.8	13.4	0.0	0.8
18Z FP	257	4.2	4.2	1.3	-0.2	8.7	71.2	23.7	3.9	1.2
PACIFIC 06Z FP	143	1.6	1.4	-13.1	0.3	0.0	100.0	0.0	0.0	0.0
18Z FP	141	1.2	1.1	-10.5	0.1	0.0	98.6	1.4	0.0	0.0
NATIONAL 06Z FP	12685	3.0	3.5	15.4	0.1	5.8	85.2	13.1	1.3	0.4
18Z FP	12774	3.4	4.4	21.9	0.0	6.2	80.7	15.7	2.9	0.8

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED OVER TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR WHEN TV EXCEEDS 10
 TM = MEAN ABSOLUTE FORECAST ERROR CLASSES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP 18Z FP 18Z	3409	3.8	4.7	18.1	0.2	5.9	75.9	19.9	3.3	0.9
SOUTHERN 06Z FP 18Z FP 18Z	3485	3.3	3.9	14.1	0.1	5.4	81.7	16.1	1.9	0.3
CENTRAL 06Z FP 18Z FP 18Z	3439	2.9	3.2	8.3	0.4	6.1	85.4	12.3	1.9	0.4
WESTERN 06Z FP 18Z FP 18Z	3524	2.9	2.9	0.0	0.4	6.8	85.9	12.2	1.5	0.5
ALASKAN 06Z FP 18Z FP 18Z	3094	4.6	5.4	15.6	-0.1	7.0	69.4	22.9	5.9	1.8
PACIFIC 06Z FP 18Z FP 18Z	3181	3.9	4.3	9.0	-0.2	6.6	75.9	20.5	2.4	1.2
NATIONAL 06Z FP 18Z FP 18Z	2174	4.0	4.6	13.8	-0.1	6.7	74.8	20.2	3.7	1.3
	2235	3.1	3.1	1.2	0.0	8.0	85.2	12.8	1.5	0.6
	243	4.5	4.2	-6.2	-0.1	9.0	68.7	22.6	8.6	0.0
	260	3.3	3.0	-10.2	-0.2	4.8	83.5	13.5	1.9	1.1
	142	1.3	1.1	-22.9	0.1	0.0	96.5	2.8	0.7	0.0
	141	2.1	1.5	-41.1	-0.1	0.0	95.0	3.6	0.0	1.4
	12501	3.8	4.4	13.9	0.1	6.5	76.8	18.5	3.7	1.0
	12826	3.3	3.5	6.5	0.1	6.4	82.2	15.3	1.8	0.7

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR WHEN TV EXCEEDS 10
 TM = MEAN ABSOLUTE TEMPERATURE ERROR CLASSES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

OCT 1975 MAR 1976 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 06Z FP	4162	970	84.9	68.5	17.3	.2331	.1017	.1749	41.9	.1673	39.2
18Z FP	4152	891	85.5	65.6	16.2	.2146	.0997	.1660	39.9	.1585	37.1
SOUTHERN 06Z FP	4004	528	89.6	45.4	8.6	.1319	.0725	.1109	34.6	.1042	30.4
18Z FP	3932	537	89.2	46.1	8.3	.1366	.0770	.1119	31.3	.1029	25.2
CENTRAL 06Z FP	3546	579	88.8	51.7	10.0	.1633	.0799	.1299	38.5	.1237	35.4
18Z FP	3574	642	88.0	51.9	10.5	.1796	.0873	.1411	38.1	.1351	35.4
WESTERN 06Z FP	2653	460	89.8	63.0	10.3	.1734	.0716	.1280	44.1	.1213	40.9
18Z FP	2694	443	89.2	60.7	10.2	.1644	.0734	.1260	41.8	.1155	36.5
ALASKAN 06Z FP	452	130	80.5	60.2	18.3	.2876	.1337	.1804	25.9	.1661	19.5
18Z FP	475	148	80.8	58.9	15.4	.3116	.1303	.1823	28.5	.1637	20.4
PACIFIC 06Z FP	169	38	79.3	25.8	10.0	.2249	.1543	.1777	13.2	.1624	5.0
18Z FP	139	16	84.9	49.4	18.0	.1151	.1051	.1307	19.6	.0951	-10.5
NATIONAL 06Z FP	14986	2705	87.8	58.5	11.8	.1805	.0850	.1390	38.9	.1319	35.6
18Z FP	14966	2677	87.6	57.1	11.6	.1789	.0871	.1388	37.3	.1302	33.1

F = NUMBER OF FORECASTS
P = NUMBER OF PRECIPITATION CASES
PC = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = RELATIVE PRECIPITATION FREQUENCY
PF = Brier Score
B = CLIMATOLOGICAL Brier Score
BC = PRECENT IMPROVEMENT OF B OVER BC
S = SAMPLE Brier Score
BS = PERCENT IMPROVEMENT OF B OVER BS
SS =

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 1A2 FD	4175	935	82.4	58.7	18.3	.2240	.1179	.1704	30.8	.1630	27.6
1A2 FD	4175	983	83.2	58.9	18.2	.2354	.1161	.1763	34.2	.1680	30.9
SOUTHERN 1A2 FD	4007	554	88.6	37.2	8.8	.1383	.0859	.1124	23.6	.1046	17.9
1A2 FD	3934	513	88.7	39.8	9.5	.1304	.0817	.1095	25.4	.1026	20.4
CENTRAL 1A2 FD	3549	626	86.4	43.3	11.8	.1764	.0994	.1391	28.5	.1334	25.5
1A2 FD	3577	582	86.1	43.4	12.6	.1627	.0984	.1302	24.4	.1235	20.3
WESTERN 1A2 FD	2653	447	87.2	53.4	12.2	.1685	.0871	.1282	32.0	.1178	26.1
1A2 FD	2695	454	87.4	55.1	12.2	.1685	.0873	.1257	30.5	.1188	26.5
ALASKAN 1A2 FD	452	140	79.2	55.7	18.7	.3097	.1401	.1785	21.5	.1599	12.4
1A2 FD	475	140	78.5	55.3	18.8	.2947	.1461	.1834	20.3	.1661	12.0
PACIFIC 1A2 FD	169	27	79.3	22.6	16.3	.1598	.1430	.1500	4.7	.1269	-12.7
1A2 FD	139	26	82.7	27.3	12.0	.1871	.1339	.1554	13.8	.1440	7.0
NATIONAL 1A2 FD	15005	2729	85.7	49.4	13.0	.1819	.1005	.1400	28.3	.1319	23.8
1A2 FD	14995	2698	85.9	50.8	13.3	.1799	.0988	.1387	28.8	.1311	24.7

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST, PRECIPITATION
 MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MN = RELATIVE PRECIPITATION FREQUENCY
 PF = Brier Score
 B = CLIMATOLOGICAL Brier Score
 BC = PRECENT IMPROVEMENT OF B OVER BC
 S = SAMPLE Brier Score
 BS = PERCENT IMPROVEMENT OF B OVER BS

OCT 1975 MAR 1976 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
182	4154	971	80.8	48.7	18.9	.2338	.1321	.1747	24.4	.1668	20.8
182											
182	4171	946	80.1	49.1	19.5	.2268	.1330	.1713	22.4	.1627	18.3
SOUTHERN											
182	3982	504	87.9	32.4	9.8	.1266	.0890	.1071	16.9	.0993	10.4
182											
182	3935	547	87.1	32.4	9.7	.1390	.0964	.1136	15.1	.1058	8.9
CENTRAL											
187	3529	565	85.3	35.9	12.9	.1601	.1043	.1288	19.0	.1226	14.9
182											
182	3561	642	84.4	35.3	12.8	.1803	.1131	.1418	20.2	.1356	16.6
WESTERN											
182	2637	459	85.2	48.6	13.2	.1741	.0985	.1282	23.2	.1211	18.6
187											
187	2695	445	86.0	47.7	13.3	.1651	.0971	.1270	23.5	.1152	15.7
ALASKAN											
182	450	137	74.9	50.7	23.2	.3044	.1717	.1870	8.2	.1725	0.5
182											
182	473	142	77.6	53.1	20.0	.3002	.1487	.1772	16.1	.1564	4.9
PACIFIC											
182	168	38	76.2	16.6	12.7	.2262	.1874	.1789	-4.8	.1641	-14.2
182											
182	138	20	83.3	23.3	16.0	.1449	.1278	.1427	10.4	.1155	-10.6
NATIONAL											
182	14920	2674	84.3	42.6	13.9	.1792	.1099	.1380	20.4	.1304	15.7
182											
182	14973	2742	84.0	42.3	14.0	.1831	.1126	.1410	20.1	.1321	14.8

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MP = MEAN PROBABILITY FORECAST, PRECIPITATION
 MN = RELATIVE PRECIPITATION FREQUENCY
 PF = BRIER SCORE
 B = CLIMATOLOGICAL BRIER SCORE
 BC = PRECENT IMPROVEMENT OF B OVER BC
 S = SAMPLE BRIER SCORE
 BS = PERCENT IMPROVEMENT OF B OVER BS
 SS =

OCT 1975 MAR 1976

1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4245	3.5	7.9	55.8	-0.7	4.2	79.4	17.8	2.4	0.4
1A2 FP	4278	4.4	6.8	35.5	1.1	6.0	70.9	22.3	4.8	2.0
SOUTHERN 06Z FP	4090	3.0	6.3	51.8	-0.2	4.4	84.8	13.1	1.5	0.5
1A2 FP	4060	3.8	6.1	37.6	0.9	6.1	77.2	17.6	3.4	1.8
CENTRAL 06Z FP	3577	3.9	8.2	52.6	-1.0	4.8	75.6	18.9	4.5	1.0
1A2 FP	3607	5.0	7.2	30.8	0.8	7.4	65.5	24.9	6.2	3.4
WESTERN 06Z FP	2712	3.0	5.2	42.2	-0.1	4.5	85.2	13.0	1.4	0.4
1A2 FP	2750	3.6	4.6	21.3	0.7	7.7	78.1	17.6	3.3	1.0
ALASKAN 06Z FP	467	3.5	4.8	26.8	-0.1	6.9	77.9	18.9	2.1	1.1
1A2 FP	478	5.2	5.5	4.9	1.2	8.9	61.3	28.4	7.5	2.7
PACIFIC 06Z FP	165	1.3	1.3	-1.6	0.1	0.0	98.2	1.2	0.6	0.0
1A2 FP	159	2.5	2.2	-13.1	0.5	11.0	88.1	10.7	0.6	0.6
NATIONAL 06Z FP	15256	3.3	6.9	51.3	-0.5	4.5	81.1	15.8	2.4	0.6
1A2 FP	15332	4.2	6.2	31.8	0.9	6.7	72.5	20.9	4.5	2.1

N = NUMBER OF FORECASTS
TE = MEAN ABSOLUTE FORECAST ERROR
TV = MEAN ABSOLUTE IMPROVEMENT OVER TV
TC = PERCENT ALGEBRAIC FORECAST ERROR
TG = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
TM = DEGREES TEMPERATURE ERROR CLASSES
T1 = 0 - 5
T2 = 6 - 10
T3 = 11 - 15
T4 = GREATER THAN 15 DEGREES

N	==	NUMBER OF FORECASTS
TE	==	MEAN ABSOLUTE FORECAST ERROR
TV	==	MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
TC	==	PERCENT IMPROVEMENT OVER TV
TG	==	MEAN ALGEBRAIC FORECAST ERROR
TM	==	MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
T1	==	0 - 5
T2	==	6 - 10
T3	==	11 - 15
T4	==	GREATER THAN 15 DEGREES

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	3811	4.7	6.8	31.1	1.6	6.1	69.2	22.9	5.4	2.4
1A2 FP	4201	4.2	7.8	46.7	-1.5	5.0	72.9	21.3	4.8	1.1
SOUTHERN 06Z FP	4007	4.3	6.1	29.3	1.2	6.5	70.6	22.8	4.9	1.7
1A2 FP	4059	3.5	6.3	45.0	-0.6	5.1	80.1	16.2	3.1	0.7
CENTRAL 06Z FP	2879	5.2	7.2	28.1	0.8	7.5	63.3	25.2	7.8	3.8
1A2 FP	3377	4.7	8.3	43.1	-1.9	5.8	66.6	25.1	6.4	1.9
WESTERN 06Z FP	2452	3.8	4.6	17.3	0.8	7.3	77.1	17.7	4.4	0.7
1A2 FP	2702	3.4	5.2	33.9	-0.6	5.4	80.5	16.7	2.5	0.3
ALASKAN 06Z FP	387	5.6	5.5	-2.6	1.9	10.1	59.2	25.6	10.1	5.2
1A2 FP	411	4.8	4.8	-0.2	-0.5	9.5	68.1	22.9	6.3	2.7
PACIFIC 06Z FP	165	3.2	2.2	-43.0	0.8	9.0	82.4	14.6	2.4	0.6
1A2 FP	159	1.7	1.3	-32.3	-0.1	0.0	97.5	1.9	0.0	0.6
NATIONAL 06Z FP	13701	4.5	6.2	27.1	1.2	6.8	69.7	22.4	5.7	2.2
1A2 FP	14909	4.0	6.9	42.5	-1.1	5.4	74.9	19.8	4.3	1.1

OCT 1975 MAR 1976

3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FD	4220	4.6	7.8	40.9	-1.5	5.2	67.9	24.0	6.6	1.5
18Z FD	4279	5.1	6.9	25.1	1.4	7.1	62.6	26.9	7.5	3.0
SOUTHERN 06Z FD	4066	3.9	6.3	38.1	-0.6	5.5	74.6	20.2	4.1	1.1
18Z FD	4060	4.7	6.1	23.0	1.1	7.3	66.4	24.4	7.3	1.9
CENTRAL 06Z FD	3556	5.6	8.3	32.6	-2.5	6.6	58.9	27.3	10.2	3.7
18Z FD	3607	5.9	7.2	17.9	0.1	7.9	56.9	27.2	11.1	4.9
WESTERN 06Z FD	2696	4.1	5.2	21.0	-0.6	6.0	73.1	21.0	4.9	1.1
18Z FD	2750	4.4	4.6	5.4	0.7	7.8	71.3	21.8	5.5	1.5
ALASKAN 06Z FD	465	5.1	4.8	-5.4	0.0	9.8	66.7	22.4	7.1	3.9
18Z FD	477	6.7	5.4	-22.3	1.8	10.5	54.7	23.3	11.1	10.9
PACIFIC 06Z FD	164	1.6	1.3	-19.2	0.1	0.0	96.9	2.4	0.6	0.0
18Z FD	159	2.9	2.2	-29.9	0.5	11.0	85.5	10.7	3.1	0.6
NATIONAL 06Z FD	15167	4.5	6.9	34.0	-1.3	5.8	68.8	22.9	6.4	1.9
18Z FD	15332	5.1	6.3	18.4	0.9	7.5	63.8	25.1	8.0	3.1

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T1 = 0
 T2 = 6
 T3 = 11
 T4 = 15
 GREATER THAN 15 DEGREES

APR 1976 SEP 1976 2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 1A2 FD	3796	732	83.0	47.9	16.8	.1928	.1170	.1557	24.9	.1501	22.1
1A2 FD	3779	812	80.6	46.5	18.3	.2149	.1289	.1686	23.5	.1613	20.1
SOUTHERN 1A2 FD	4177	683	83.8	32.0	15.2	.1635	.1188	.1374	13.5	.1298	8.5
1A2 FD	4120	792	80.2	39.1	18.6	.1922	.1296	.1504	13.8	.1414	8.3
CENTRAL 1A2 FD	3682	601	84.6	34.5	13.4	.1632	.1123	.1387	19.0	.1316	14.6
1A2 FD	3665	527	86.5	36.2	13.1	.1438	.0983	.1260	21.9	.1179	16.6
WESTERN 1A2 FD	2794	322	89.4	34.4	9.9	.1152	.0782	.0993	21.2	.0938	16.6
1A2 FD	2805	324	88.6	35.4	10.1	.1155	.0804	.0988	18.6	.0946	15.0
ALASKAN 1A2 FD	421	113	74.6	50.5	25.0	.2684	.1666	.1844	9.7	.1732	3.8
1A2 FD	412	102	76.2	48.9	24.4	.2476	.1605	.1763	8.9	.1605	0.0
PACIFIC 1A2 FD	154	18	85.7	21.1	16.3	.1169	.1208	.0996	-21.3	.0809	-49.3
1A2 FD	159	27	78.0	10.0	13.1	.1698	.1724	.1434	-20.2	.1398	-23.3
NATIONAL 1A2 FD	15024	2469	84.6	38.4	14.4	.1643	.1105	.1362	18.8	.1294	14.6
1A2 FD	14940	2584	83.3	40.4	15.5	.1730	.1138	.1400	18.7	.1324	14.0

F = NUMBER OF FORECASTS
P = TOTAL PRECIPITATION CASES
PC = MEAN PROBABILITY FORECAST, PRECIPITATION
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
PF = Brier Score
B = Brier Score
BC = Climatological Brier Score
S = Percent Improvement of B over BC
BS = Sample Brier Score
SS = Percent Improvement of B over BS

3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN											
1A2	3744	803	79.3	43.2	19.3	.2145	.1362	.1676	18.7	.1608	15.3
1A2											
1A2	3780	739	80.3	39.6	18.1	.1955	.1324	.1576	16.0	.1513	12.5
1A2											
SOUTHERN											
1A2	4133	793	79.6	35.8	19.3	.1919	.1366	.1496	8.7	.1401	2.5
1A2											
1A2	4119	660	83.3	28.2	16.1	.1602	.1240	.1352	8.3	.1271	2.5
1A2											
CENTRAL											
1A2	3638	513	86.0	29.4	13.3	.1410	.1048	.1239	15.4	.1158	9.5
1A2											
1A2	3665	609	83.7	29.7	14.2	.1662	.1201	.1405	14.5	.1329	9.6
1A2											
WESTERN											
1A2	2761	316	87.9	28.7	10.7	.1145	.0883	.0983	10.2	.0941	6.2
1A2											
1A2	2805	324	88.3	31.3	11.0	.1155	.0858	.0994	13.6	.0940	8.7
1A2											
ALASKAN											
1A2	415	103	73.7	49.1	26.8	.2482	.1755	.1794	2.1	.1622	-8.2
1A2											
1A2	412	110	72.3	44.6	26.3	.2670	.1839	.1817	-1.2	.1722	-6.8
1A2											
PACIFIC											
1A2	152	21	82.2	13.8	12.4	.1382	.1343	.1200	-11.9	.1168	-15.0
1A2											
1A2	159	24	79.9	17.1	15.3	.1509	.1427	.1219	-17.1	.1062	-34.4
1A2											
NATIONAL											
1A2	14843	2549	82.5	36.3	16.2	.1717	.1208	.1388	13.0	.1312	7.3
1A2											
1A2	14940	2466	83.3	33.0	15.4	.1651	.1198	.1366	12.3	.1295	7.4

E	==	NUMBER OF FORECASTS
P	==	NUMBER OF PRECIPITATION CASES
PC	==	TOTAL PERCENT CORRECT
MP	==	MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN	==	MEAN PROBABILITY FORECAST, PRECIPITATION
PL	==	RELATIVE PRECIPITATION FREQUENCY
B	==	BRIER SCORE
BC	==	CLIMATOLOGICAL BRIER SCORE
BS	==	PERCENT IMPROVEMENT OF B OVER BC
BS	==	SAMPLE BRIER SCORE
BS	==	PERCENT IMPROVEMENT OF R OVER BS

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FD	3874	2.9	5.5	47.7	0.0	4.3	86.7	11.9	1.2	0.1
18Z FD	3905	2.9	4.6	35.8	0.6	5.5	85.6	12.6	1.5	0.3
SOUTHERN 06Z FD	4219	2.2	3.3	31.4	0.2	5.0	92.8	6.1	0.9	0.2
18Z FD	4242	2.4	3.2	24.6	0.3	5.1	91.5	7.8	0.6	0.1
CENTRAL 06Z FD	3709	3.3	6.4	48.4	-0.4	4.8	82.1	15.4	2.0	0.4
18Z FD	3718	3.2	4.9	33.7	0.1	5.3	82.4	15.7	1.6	0.3
WESTERN 06Z FD	2818	3.2	4.9	36.0	-0.1	5.1	82.9	14.6	2.0	0.5
18Z FD	2846	2.7	3.4	19.7	-0.1	6.0	88.7	10.3	0.8	0.2
ALASKAN 06Z FD	411	3.8	4.4	13.6	-0.5	6.1	78.1	17.8	2.9	1.2
18Z FD	420	2.9	3.3	12.5	0.1	6.9	87.6	11.2	0.9	0.2
PACIFIC 06Z FD	165	1.0	1.1	8.0	-0.2	0.0	100.0	0.0	0.0	0.0
18Z FD	165	1.7	1.6	-8.3	0.3	0.0	96.4	3.0	0.6	0.0
NATIONAL 06Z FD	15196	2.9	4.9	42.0	-0.1	4.8	86.5	11.7	1.5	0.3
18Z FD	15296	2.8	4.0	29.8	0.2	5.4	87.2	11.5	1.1	0.2

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

APR 1976 SEP 1976 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	3874	3.2	4.6	30.6	1.0	5.3	83.6	14.2	1.9	0.3
18Z FP	3853	3.4	5.5	38.3	-0.5	5.2	81.0	16.4	2.4	0.2
SOUTHERN 06Z FP	4215	2.6	3.2	17.8	0.8	5.0	89.1	9.8	0.9	0.2
18Z FP	4191	2.5	3.2	21.6	-0.1	5.9	89.8	8.9	1.1	0.3
CENTRAL 06Z FP	3710	3.5	4.9	28.9	0.7	5.2	80.2	17.1	2.3	0.5
18Z FP	3675	3.9	6.4	38.3	-1.2	5.6	74.1	21.3	4.1	0.6
WESTERN 06Z FP	2816	2.9	3.4	14.1	0.0	6.8	87.5	11.1	1.2	0.3
18Z FP	2813	3.7	5.0	24.8	-0.6	5.8	76.7	19.5	3.1	0.8
ALASKAN 06Z FP	411	3.4	3.3	-3.2	0.5	5.6	82.2	15.8	0.7	1.2
18Z FP	414	4.2	4.5	7.5	-0.3	7.2	70.8	24.1	4.6	0.5
PACIFIC 06Z FP	165	1.8	1.6	-17.3	0.3	0.0	97.0	3.0	0.0	0.0
18Z FP	163	1.2	1.1	-8.4	-0.5	0.0	98.8	0.6	0.6	0.0
NATIONAL 06Z FP	15191	3.0	4.0	24.1	0.7	5.4	85.1	13.1	1.5	0.3
18Z FP	15109	3.3	4.9	32.1	-0.6	5.6	80.9	16.1	2.6	0.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	3822	3.6	5.5	33.3	-0.1	5.4	78.3	18.5	2.9	0.4
18Z FP	3853	3.5	4.6	24.8	0.5	5.6	78.6	18.9	2.3	0.2
SOUTHERN 05Z FP	4170	2.8	3.2	12.4	0.3	5.9	86.8	11.1	1.6	0.4
18Z FP	4193	2.9	3.2	10.0	0.5	5.2	85.9	13.0	0.9	0.1
CENTRAL 06Z FP	3667	4.4	6.4	30.7	-1.0	5.9	68.4	25.1	5.4	1.2
18Z FP	3676	3.8	4.9	21.3	-0.1	5.6	75.5	20.6	3.6	0.3
WESTERN 06Z FP	2786	4.2	5.0	15.7	-0.6	6.5	72.8	20.6	4.9	1.6
18Z FP	2814	3.1	3.4	7.9	-0.4	6.4	84.7	13.4	1.7	0.2
ALASKAN 06Z FP	405	4.5	4.5	-0.9	-0.5	6.6	65.9	28.6	3.5	2.0
18Z FP	414	3.4	3.3	-3.6	0.2	6.9	79.7	18.4	1.7	0.2
PACIFIC 06Z FP	163	1.3	1.1	-20.6	-0.1	0.0	98.8	0.6	0.6	0.0
18Z FP	163	1.9	1.6	-17.9	0.4	0.0	96.9	2.4	0.0	0.6
NATIONAL 06Z FP	15013	3.7	4.9	24.6	-0.3	5.9	77.1	18.5	3.5	0.9
18Z FP	15113	3.3	4.0	17.5	0.2	5.6	81.3	16.5	2.1	0.2

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = GREATER THAN 15 DEGREES

OCT 1976 MAR 1977 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	RS	SS
EASTERN											
06Z	4495	971	87.0	69.0	16.1	.2160	.0919	.1662	44.7	.1572	41.5
1A2	4514	991	86.8	66.7	15.2	.2195	.0924	.1687	45.2	.1580	41.5
SOUTHERN											
06Z	4198	616	90.4	52.8	8.9	.1467	.0706	.1241	43.1	.1189	40.6
1A2	4249	717	88.2	47.7	8.6	.1687	.0849	.1383	38.6	.1302	34.8
CENTRAL											
06Z	3785	570	90.5	56.4	10.0	.1506	.0691	.1213	43.0	.1158	40.3
1A2	3787	640	88.8	51.9	9.9	.1690	.0832	.1335	37.7	.1290	35.5
WESTERN											
06Z	2863	329	92.2	51.8	8.0	.1149	.0579	.1052	45.0	.0921	37.2
1A2	2895	286	91.6	49.9	8.6	.0988	.0593	.1024	42.1	.0815	27.3
ALASKAN											
06Z	511	171	79.6	61.4	22.8	.3346	.1463	.1832	20.1	.1712	14.5
1A2	498	162	77.3	61.8	23.7	.3253	.1479	.1816	18.6	.1709	13.5
PACIFIC											
06Z	175	22	85.7	22.3	13.9	.1257	.1203	.1213	0.8	.0999	-20.4
1A2	170	18	87.1	40.8	17.6	.1059	.0980	.1269	22.8	.0915	-7.1
NATIONAL											
06Z	16027	2679	89.4	59.6	11.3	.1672	.0769	.1337	42.5	.1256	38.8
1A2	16113	2814	88.2	56.3	11.1	.1746	.0841	.1404	40.1	.1298	35.2

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = MEAN PROBABILITY FORECAST, FREQUENCY
PF = MEAN PROBABILITY FORECAST, FREQUENCY
B = Brier Score
BC = Brier Score
S = Percent Improvement of B over BC
RS = Percent Improvement of B over RS
SS = Percent Improvement of B over SS

OCT 1976 MAR 1977

2ND PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 1A2 FP	4509	991	84.3	59.0	16.5	.2198	.1061	.1693	37.4	.1586	33.1
1A2 FP	4445	978	84.6	59.9	17.3	.2200	.1068	.1680	36.4	.1601	33.3
SOUTHERN 1A2 FP	4206	714	87.3	41.3	9.1	.1698	.0941	.1386	32.1	.1303	27.8
1A2 FP	4190	628	87.9	44.6	10.1	.1499	.0854	.1267	32.6	.1214	29.6
CENTRAL 1A2 FP	3786	645	86.9	44.5	11.9	.1704	.0960	.1342	28.4	.1297	25.9
1A2 FP	3726	566	88.1	46.2	11.6	.1519	.0867	.1221	29.0	.1162	25.4
WESTERN 1A2 FP	2860	287	90.5	43.1	9.4	.1003	.0668	.1033	35.3	.0826	19.1
1A2 FP	2851	322	90.3	42.3	9.4	.1129	.0708	.1035	31.6	.0913	22.4
ALASKAN 1A2 FP	508	159	77.6	57.7	26.2	.3130	.1681	.1765	4.8	.1653	-1.7
1A2 FP	495	163	74.9	56.9	25.3	.3293	.1660	.1800	7.8	.1680	1.2
PACIFIC 1A2 FP	175	17	85.1	25.0	19.4	.0971	.1146	.1232	7.0	.0848	-35.1
1A2 FP	167	22	85.0	25.9	14.0	.1317	.1187	.1255	5.4	.1015	-16.9
NATIONAL 1A2 FP	16044	2813	86.6	49.3	12.4	.1753	.0956	.1409	32.1	.1302	26.6
1A2 FP	15874	2679	87.0	50.8	12.6	.1688	.0919	.1347	31.7	.1269	27.5

F = NUMBER OF FORECASTS
 PC = TOTAL PERCENT CORRECT
 MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MN = MEAN PROBABILITY FORECAST, PRECIPITATION
 PF = RELATIVE PRECIPITATION FREQUENCY
 B = PRIOR SCORE
 BC = CLIMATOLOGICAL PRIOR SCORE
 S = PERCENT IMPROVEMENT OF B OVER RC
 BS = SAMPLE Brier Score
 SS = PERCENT IMPROVEMENT OF B OVER BS

3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	R	BC	S	BS	SS
EASTERN											
182	4435	989	82.5	53.9	19.1	.2230	.1218	.1698	28.3	.1619	24.8
182											
182	4446	997	82.1	51.4	18.0	.2242	.1221	.1706	28.4	.1601	23.8
SOUTHERN											
182	4137	610	86.9	36.3	10.1	.1474	.0946	.1250	24.3	.1196	20.9
182											
182	4191	714	84.6	33.8	10.3	.1704	.1107	.1390	20.4	.1312	15.6
CENTRAL											
182	3725	568	86.5	40.1	13.1	.1525	.0955	.1225	22.1	.1169	18.3
187											
187	3723	638	85.6	36.5	12.2	.1714	.1073	.1348	20.4	.1299	17.4
WESTERN											
182	2815	323	89.4	39.0	10.2	.1147	.0752	.1046	28.1	.0925	18.7
182											
182	2848	282	89.6	35.1	10.4	.0990	.0741	.1018	27.2	.0816	9.1
ALASKAN											
182	503	163	74.0	57.0	28.2	.3241	.1761	.1790	1.6	.1658	-6.2
182											
182	491	157	74.9	55.1	27.2	.3198	.1769	.1745	-1.4	.1611	-9.8
PACIFIC											
182	173	23	82.1	17.0	15.3	.1329	.1300	.1256	-3.5	.1051	-23.7
182											
182	167	16	88.6	22.2	16.6	.0958	.0993	.1222	18.7	.0824	-20.5
NATIONAL											
182	15788	2676	85.6	45.0	13.7	.1695	.1020	.1351	24.5	.1273	19.9
182											
182	15866	2804	84.8	41.9	13.3	.1767	.1085	.1411	23.1	.1305	16.9

F	NUMBER OF FORECASTS
P	NUMBER OF PRECIPITATION CASES
PC	TOTAL PERCENT CORRECT
MP	MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP	MEAN PROBABILITY FORECAST, PRECIPITATION
PL	RELATIVE PRECIPITATION FREQUENCY
BC	BRIER SCORE
BC	CLIMATOLOGICAL BRIER SCORE
BS	PERCENT IMPROVEMENT OF B OVER BC
BS	SAMPLE BRIER SCORE
BS	PERCENT IMPROVEMENT OF B OVER BS

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4701	3.3	6.8	51.9	0.0	3.9	81.8	16.1	1.7	0.3
18Z FP	4670	4.1	6.8	39.4	1.0	5.9	74.5	19.5	4.5	1.6
SOUTHERN 06Z FP	4328	3.3	6.6	49.9	0.0	4.7	81.1	16.1	2.2	0.5
18Z FP	4307	3.7	6.0	38.0	0.8	6.0	77.1	18.5	3.3	1.2
CENTRAL 06Z FP	3811	3.5	7.9	55.8	-0.6	4.4	79.9	16.8	2.8	0.5
18Z FP	3806	4.4	6.9	35.5	0.8	6.4	69.7	23.2	5.4	1.7
WESTERN 06Z FP	2895	3.0	4.6	35.0	-0.2	5.0	85.3	12.9	1.7	0.1
18Z FP	2895	3.6	4.2	15.4	0.5	7.7	78.2	18.0	3.0	0.8
ALASKAN 06Z FP	501	3.5	4.4	20.9	-0.4	7.2	81.4	13.8	3.6	1.2
18Z FP	515	4.4	4.8	8.3	0.4	8.3	73.2	18.4	5.4	2.9
PACIFIC 06Z FP	175	1.5	1.3	-15.8	-0.2	0.0	98.9	0.6	0.0	0.6
18Z FP	179	2.5	2.6	4.2	0.1	9.0	91.6	8.4	0.0	0.0
NATIONAL 06Z FP	16411	3.3	6.5	49.5	-0.2	4.4	82.0	15.5	2.1	0.4
18Z FP	16372	4.0	6.0	34.1	0.8	6.3	74.9	19.7	4.1	1.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = 0 - 5 DEGREES
 T2 = 6 - 10 DEGREES
 T3 = 11 - 15 DEGREES
 T4 = GREATER THAN 15 DEGREES

OCT 1976 MAR 1977 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FB 1A2 FP	4023 4365	4.4 3.9	6.8 6.9	35.7 44.0	1.6 -0.6	5.8 4.6	71.0 74.8	21.8 21.4	5.6 3.1	1.6 0.7
SOUTHERN 06Z FB 1A2 FP	4139 4225	4.1 3.9	6.0 6.6	31.6 40.8	1.0 -0.5	6.0 5.4	72.6 75.0	21.2 19.6	4.9 4.5	1.3 0.9
CENTRAL 06Z FB 1A2 FP	2990 3417	4.5 4.3	6.9 7.9	33.9 45.6	1.2 -1.4	6.1 5.4	69.6 71.1	22.6 22.3	5.9 5.0	1.8 1.6
WESTERN 06Z FB 1A2 FP	2591 2805	3.7 3.6	4.2 4.6	11.4 23.4	0.8 -0.7	7.1 5.9	76.5 79.6	19.6 17.4	3.5 2.6	0.5 0.4
ALASKAN 06Z FB 1A2 FP	438 441	4.7 4.2	4.8 4.4	1.3 5.2	1.0 -1.6	9.1 8.8	69.2 73.5	20.3 18.6	6.4 5.7	4.1 2.3
PACIFIC 06Z FB 1A2 FP	175 176	3.0 1.6	2.6 1.3	-16.5 -25.2	-0.7 -0.2	7.0 0.0	88.6 99.4	9.7 0.6	0.6 0.0	1.1 0.0
NATIONAL 06Z FB 1A2 FP	14356 15429	4.2 3.9	6.0 6.5	30.3 40.1	1.1 -0.8	6.1 5.2	72.3 75.1	21.2 20.1	5.0 3.9	1.4 0.9

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED OVER TV
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT 1976 MAR 1977

3RD PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4623	4.2	6.9	39.1	-0.4	4.8	71.3	23.1	4.7	0.9
18Z FP	4593	4.8	6.8	28.7	1.3	6.6	66.6	24.1	6.5	2.8
SOUTHERN 06Z FP	4257	4.4	6.6	33.9	-0.2	5.9	69.8	22.2	6.5	1.5
18Z FP	4235	4.4	6.0	26.3	0.9	6.7	68.6	24.3	5.5	1.6
CENTRAL 06Z FP	3750	4.9	7.9	38.5	-1.5	5.9	64.4	26.5	6.8	2.2
18Z FP	3742	5.2	6.8	23.2	0.9	6.9	61.7	26.7	8.4	3.1
WESTERN 06Z FP	2846	4.0	4.6	13.6	-0.8	6.1	74.2	21.1	3.9	0.8
18Z FP	2847	4.3	4.2	-0.7	0.5	8.4	72.4	20.6	5.2	1.7
ALASKAN 06Z FP	493	4.9	4.4	-11.7	-1.1	9.9	66.7	23.1	6.5	3.6
18Z FP	506	5.6	4.8	-16.9	0.3	10.1	61.7	24.3	8.7	5.3
PACIFIC 06Z FP	173	1.5	1.3	-17.3	-0.1	0.0	98.8	1.2	0.0	0.0
18Z FP	176	3.0	2.6	-15.0	0.1	4.0	84.1	14.2	1.7	0.0
NATIONAL 06Z FP	16142	4.4	6.5	33.1	-0.7	5.6	70.0	23.1	5.5	1.4
18Z FP	16099	4.7	6.0	21.6	0.9	6.9	67.0	24.1	6.5	2.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = 0 - 5 DEGREES
 T2 = 6 - 10 DEGREES
 T3 = 11 - 15 DEGREES
 T4 = GREATER THAN 15 DEGREES

APR 1977 SEP 1977 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	RC	S	RS	SS
EASTERN 06Z FP	3962	782	84.1	56.4	18.5	.1974	.1101	.1604	31.4	.1516	27.4
18Z FP	4298	748	85.3	53.5	16.7	.1740	.1038	.1460	28.9	.1370	24.2
SOUTHERN 06Z FP	3967	748	83.0	46.0	19.2	.1886	.1177	.1446	18.6	.1335	11.8
18Z FP	4059	597	86.1	38.6	15.6	.1471	.1048	.1228	14.7	.1160	9.6
CENTRAL 06Z FP	3661	701	84.1	46.6	16.8	.1915	.1156	.1538	24.8	.1465	21.1
18Z FP	3859	875	80.3	43.2	17.2	.2267	.1354	.1758	23.0	.1676	19.2
WESTERN 06Z FP	2569	289	91.1	45.7	10.1	.1125	.0672	.0953	29.5	.0885	24.1
18Z FP	2787	308	90.9	44.8	9.8	.1105	.0663	.0958	30.8	.0866	23.4
ALASKAN 06Z FP	459	131	81.7	58.5	19.4	.2854	.1318	.1973	33.2	.1758	25.0
18Z FP	494	139	77.3	52.9	22.4	.2814	.1581	.2023	21.9	.1827	13.5
PACIFIC 06Z FP	166	15	92.2	26.0	7.1	.0904	.0686	.0811	15.4	.0765	10.3
18Z FP	163	16	91.4	26.6	11.2	.0982	.0821	.0986	16.7	.0828	0.9
NATIONAL 06Z FP	14784	2666	85.0	49.7	16.6	.1803	.1063	.1435	25.9	.1344	20.9
18Z FP	15660	2683	85.1	45.6	15.3	.1713	.1067	.1397	23.6	.1310	18.6

F = NUMBER OF FORECASTS
P = NUMBER OF PRECIPITATION CASES
PC = TOTAL PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MN = MEAN PROBABILITY FORECAST, PRECIPITATION
PF = RELATIVE PPRECIPITATION FREQUENCY
B = BRIER SCORE
RC = CLIMATOLOGICAL BRIER SCORE
S = PRESENT IMPROVEMENT OF B OVER BC
RS = SAMPLE BRIER SCORE
SS = PERCENT IMPROVEMENT OF B OVER BS

	F	P	PC	MP	MN	PF	B	BC	S	RS	SS
EASTERN 1A2 FP	3961	740	83.0	49.1	17.9	.1868	.1150	.1531	24.8	.1448	20.6
1A2 FP	4277	851	81.2	46.8	19.2	.1990	.1267	.1613	21.5	.1526	17.0
SOUTHERN 1A2 FP	3973	585	84.9	34.2	16.6	.1472	.1112	.1233	9.8	.1159	4.1
1A2 FP	4042	766	81.5	41.7	19.7	.1895	.1277	.1446	11.7	.1343	4.9
CENTRAL 1A2 FP	3663	833	77.9	39.0	19.4	.2274	.1495	.1760	15.0	.1675	10.7
1A2 FP	3840	744	81.5	36.6	17.2	.1937	.1312	.1556	15.7	.1479	11.3
WESTERN 1A2 FP	2569	282	89.8	36.4	10.3	.1098	.0751	.0951	21.1	.0850	11.7
1A2 FP	2771	303	89.1	36.9	10.7	.1093	.0761	.0935	18.6	.0876	13.2
ALASKAN 1A2 FP	460	131	75.0	49.5	23.4	.2848	.1742	.2028	14.1	.1802	3.3
1A2 FP	492	135	75.8	45.2	22.9	.2744	.1725	.1903	9.3	.1737	0.7
PACIFIC 1A2 FP	166	15	90.4	23.3	12.7	.0904	.0820	.0937	12.5	.0780	-5.1
1A2 FP	162	16	90.7	21.3	6.9	.0988	.0768	.0883	13.0	.0847	9.3
NATIONAL 1A2 FP	14792	2586	83.3	41.0	16.6	.1748	.1171	.1416	17.3	.1326	11.7
1A2 FP	15584	2815	82.7	41.4	17.2	.1806	.1200	.1437	16.5	.1351	11.2

F = NUMBER OF FORECASTS

P = TOTAL PERCENT CORRECT

MP = MEAN PROBABILITY FORECAST, PRECIPITATION

MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION

PF = RELATIVE PRECIPITATION FREQUENCY

B = Brier Score

BC = CLIMATOLOGICAL Brier Score

S = PERCENT IMPROVEMENT OF B OVER BC

RS = SAMPLE Brier Score

SS = PERCENT IMPROVEMENT OF B OVER RS

APR 1977 SEP 1977

3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 182 FP	3942	798	79.3	44.0	21.3	.2024	.1370	.1634	16.2	.1549	11.6
182 FP	4276	790	82.4	42.5	18.0	.1848	.1215	.1523	20.2	.1437	15.4
SOUTHERN 182 FP	3948	748	80.1	36.5	19.8	.1895	.1343	.1453	7.6	.1340	-0.2
182 FP	4042	586	85.3	29.8	16.6	.1450	.1150	.1214	5.3	.1142	-0.7
CENTRAL 182 FP	3642	688	80.4	32.1	17.9	.1889	.1378	.1526	9.7	.1437	4.1
182 FP	3839	864	77.8	30.4	17.7	.2251	.1574	.1752	10.1	.1669	5.7
WESTERN 182 FP	2553	280	88.6	32.1	11.1	.1097	.0810	.0933	13.2	.0866	6.4
182 FP	2771	303	88.1	29.6	11.2	.1093	.0849	.0951	10.8	.0862	1.5
ALASKAN 182 FP	458	132	74.2	44.4	23.4	.2882	.1836	.1942	5.5	.1738	-5.6
182 FP	492	137	74.0	43.0	24.8	.2785	.1835	.1997	8.1	.1793	-2.3
PACIFIC 182 FP	165	14	90.9	16.4	8.0	.0848	.0738	.0780	5.4	.0744	0.8
182 FP	162	15	90.7	18.3	11.2	.0926	.0836	.0944	11.4	.0812	-3.0
NATIONAL 182 FP	14708	2660	81.4	37.4	18.0	.1809	.1275	.1437	11.3	.1343	5.1
182 FP	15582	2695	82.9	34.3	16.4	.1730	.1237	.1406	12.1	.1320	6.3

F = NUMBER OF FORECASTS
 P = NUMBER OF PRECIPITATION CASES
 PC = TOTAL PERCENT CORRECT
 MP = MEAN PROBABILITY FORECAST
 MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 PF = RELATIVE Brier Score
 B = Brier Score
 BC = CLIMATOLOGICAL Brier Score
 S = PRECIPITATION IMPROVEMENT OF B OVER BC
 BS = SAMPLE Brier Score
 SS = PERCENT IMPROVEMENT OF B OVER BS

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4512	3.0	5.3	44.2	-0.2	4.6	86.2	11.9	1.5	0.4
18Z FP	4590	2.9	4.5	35.8	0.3	4.7	86.6	11.7	1.5	0.1
SOUTHERN 06Z FP	4132	2.1	2.9	26.7	0.0	5.7	93.6	5.4	0.8	0.1
18Z FP	4202	2.2	2.7	17.7	0.1	6.1	93.0	6.4	0.5	0.1
CENTRAL 06Z FP	3740	3.3	5.9	43.9	0.3	5.1	81.3	15.5	2.9	0.2
18Z FP	3862	3.2	4.5	29.9	-0.2	5.5	83.9	14.4	1.4	0.3
WESTERN 06Z FP	2759	3.1	4.6	31.7	-0.1	5.5	83.5	13.2	3.0	0.3
18Z FP	2813	2.6	3.3	19.9	-0.2	6.0	89.1	10.3	0.6	0.1
ALASKAN 06Z FP	476	3.6	4.5	20.7	-0.5	6.7	78.8	18.5	2.3	0.4
18Z FP	504	3.3	3.2	-1.6	-0.4	7.4	81.6	16.9	1.2	0.4
PACIFIC 06Z FP	173	0.9	1.0	7.1	-0.1	0.0	99.4	0.6	0.0	0.0
18Z FP	166	1.4	1.5	2.0	0.0	0.0	97.0	3.0	0.0	0.0
NATIONAL 06Z FP	15792	2.9	4.6	38.3	0.0	5.1	86.4	11.4	1.9	0.3
18Z FP	16137	2.7	3.7	27.1	0.0	5.3	88.0	10.8	1.0	0.1

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

APR 1977 SEP 1977 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FB 1A2 FP	4500	3.1	4.5	30.8	0.8	4.7	84.9	13.2	1.6	0.4
SOUTHERN 06Z FB 1A2 FP	4568	3.4	5.3	35.4	-0.6	5.4	80.6	16.3	2.7	0.4
CENTRAL 06Z FB 1A2 FP	4134	2.5	2.7	7.4	0.2	6.4	90.8	8.2	0.8	0.2
WESTERN 06Z FB 1A2 FP	4170	2.5	2.9	15.1	-0.2	6.1	89.9	8.9	1.0	0.2
ALASKAN 06Z FB 1A2 FP	3784	3.4	4.5	24.8	0.2	5.6	80.9	16.8	2.0	0.3
PACIFIC 06Z FB 1A2 FP	3775	3.8	6.0	36.0	-0.3	5.6	75.3	20.2	4.1	0.4
NATIONAL 06Z FB 1A2 FP	2753	2.8	3.3	14.0	-0.3	5.9	86.7	12.5	0.7	0.1
	2801	3.8	4.6	17.0	-0.7	6.5	76.0	19.2	4.1	0.6
	466	3.4	3.2	-5.3	-0.4	8.3	82.4	15.2	1.9	0.4
	500	3.9	4.5	13.5	-0.6	7.2	75.6	19.6	4.0	0.8
	172	1.7	1.5	-17.6	-0.2	0.0	97.7	1.7	0.0	0.6
	166	1.0	1.0	-6.1	-0.1	0.0	98.8	1.2	0.0	0.0
	15809	3.0	3.7	20.9	0.3	5.3	85.9	12.6	1.3	0.3
	15980	3.3	4.6	28.2	-0.5	5.8	81.0	15.7	2.9	0.4

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	4485	3.7	5.3	30.6	-0.5	5.3	77.3	19.2	3.1	0.4
18Z FP	4565	3.4	4.5	25.0	0.4	5.1	81.1	16.7	1.8	0.4
SOUTHERN 06Z FP	4107	2.8	2.9	4.5	-0.2	6.3	87.6	10.7	1.4	0.3
18Z FP	4181	2.6	2.7	1.1	0.2	6.6	88.8	10.3	0.9	0.1
CENTRAL 06Z FP	3716	4.3	6.0	28.6	-0.2	6.1	71.2	22.1	5.5	1.2
18Z FP	3843	3.8	4.5	16.7	-0.5	5.8	76.2	20.1	3.2	0.4
WESTERN 06Z FP	2744	4.2	4.6	7.4	-0.8	7.2	72.1	21.8	5.0	1.2
18Z FP	2800	3.0	3.5	7.7	-0.6	5.8	85.5	13.3	1.2	0.0
ALASKAN 06Z FP	473	4.5	4.5	-0.6	-0.6	6.9	67.9	24.3	6.6	1.3
18Z FP	503	3.7	3.2	-17.4	-0.5	6.7	76.1	21.7	1.8	0.4
PACIFIC 06Z FP	172	1.1	1.0	-7.1	-0.2	0.0	99.4	0.6	0.0	0.0
18Z FP	166	1.7	1.5	-9.7	0.1	0.0	97.6	2.4	0.0	0.0
NATIONAL 06Z FP	15697	3.7	4.6	20.6	-0.4	6.0	77.6	18.1	3.6	0.7
18Z FP	16058	3.2	3.7	14.2	-0.1	5.6	82.7	15.3	1.8	0.3

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10
 T1 = DEGREES TEMPERATURE ERROR CLASSES
 T2 = 0 - 5
 T3 = 6 - 10
 T4 = 11 - 15
 GREATER THAN 15 DEGREES

OCT 1977 MAR 1978 1ST PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	RC	S	RS	SS
EASTERN 06Z 18Z 18Z	4157 4033	1167 1142	84.4 85.1	70.3 71.1	18.5 18.2	.2807 .2832	.1088 .1062	.2002 .2005	45.7 47.0	.1873 .1878	41.9 43.5
SOUTHERN 06Z 18Z	3860 3872	589 614	90.1 88.3	50.9 46.4	9.1 9.0	.1526 .1586	.0739 .0849	.1293 .1316	42.8 35.5	.1195 .1228	38.1 30.9
CENTRAL 06Z 18Z	3598 3636	645 727	88.7 86.7	54.6 50.8	11.4 11.2	.1793 .1999	.0852 .0959	.1429 .1564	40.4 38.7	.1377 .1492	38.1 35.8
WESTERN 06Z 18Z	2632 2638	580 596	85.2 87.0	56.3 58.1	13.6 12.3	.2204 .2259	.1000 .0924	.1645 .1656	39.2 44.2	.1518 .1533	34.1 39.7
ALASKAN 06Z 18Z	466 459	107 105	87.3 83.2	63.6 61.3	14.2 16.0	.2296 .2288	.0975 .1152	.1694 .1682	42.4 31.5	.1527 .1479	36.2 22.1
PACIFIC 06Z 18Z	150 159	18 16	89.3 86.8	27.2 28.8	9.9 14.1	.1200 .1006	.0956 .1065	.1151 .1262	16.9 15.6	.1003 .0867	4.7 -22.8
NATIONAL 06Z 18Z	14863 14797	3106 3200	87.2 86.6	60.3 58.8	13.0 12.7	.2090 .2163	.0920 .0959	.1598 .1636	42.4 41.4	.1495 .1528	38.4 37.3

F = NUMBER OF FORECASTS
P = TOTAL PERCENT CORRECT
PC = MEAN PROBABILITY FORECAST, NO PRECIPITATION
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = RELATIVE Brier Score
PF = CLIMATOLOGICAL Brier Score
B = PRECENT IMPROVEMENT OF B OVER BC
RC = PRECENT IMPROVEMENT OF B OVER BS
S = PRECENT IMPROVEMENT OF B OVER BS
RS = PRECENT IMPROVEMENT OF B OVER BS
SS = PRECENT IMPROVEMENT OF B OVER BS

	F	P	PC	MP	MN	PF	B	BC	S	BS	SS
EASTERN 182 FP	4155	1165	83.1	63.9	19.1	.2804	.1196	.2002	40.3	.1874	36.2
182 FP	4041	1150	81.9	65.4	20.8	.2846	.1230	.2009	38.8	.1886	34.8
SOUTHERN 182 FP	3865	644	86.6	41.1	10.2	.1666	.0975	.1363	28.5	.1274	23.5
182 FP	3883	578	87.5	42.4	10.1	.1489	.0871	.1274	31.6	.1176	25.9
CENTRAL 182 FP	3601	720	83.5	44.1	14.0	.1999	.1165	.1569	25.7	.1484	21.5
182 FP	3634	645	84.9	45.1	14.1	.1775	.1068	.1414	24.5	.1363	21.7
WESTERN 182 FP	2635	594	83.4	50.4	14.5	.2254	.1123	.1643	31.7	.1527	26.5
182 FP	2636	586	81.4	48.5	15.6	.2223	.1210	.1661	27.2	.1531	21.0
ALASKAN 182 FP	465	108	83.2	56.2	16.6	.2323	.1217	.1661	26.8	.1479	17.7
182 FP	460	100	82.0	59.5	17.6	.2174	.1144	.1615	29.1	.1428	19.9
PACIFIC 182 FP	150	14	88.7	19.3	14.1	.0933	.0985	.1221	19.3	.0803	-22.7
182 FP	160	21	86.9	21.4	11.6	.1312	.1141	.1229	7.2	.1086	-5.1
NATIONAL 182 FP	14871	3245	84.2	52.1	14.4	.2182	.1117	.1649	32.3	.1539	27.4
182 FP	14814	3080	84.0	53.1	14.9	.2079	.1089	.1588	31.4	.1486	26.7

F = NUMBER OF FORECASTS
P = TOTAL NUMBER OF PRECIPITATION CASES
PC = PERCENT CORRECT
MP = MEAN PROBABILITY FORECAST, PRECIPITATION
MN = MEAN PROBABILITY FORECAST, NO PRECIPITATION
PF = RELATIVE PRECIPITATION FREQUENCY
B = Brier Score
BC = CLIMATOLOGICAL Brier Score
S = PRESENT IMPROVEMENT OF B OVER BC
BS = SAMPLE Brier Score
SS = PERCENT IMPROVEMENT OF B OVER BS

OCT 1977 MAR 1978 3RD PERIOD PRECIPITATION FORECASTING PERFORMANCE

	F	P	PC	MP	MN	PF	B	BC	S	RS	SS
EASTERN											
182	4161	1157	80.4	60.0	21.5	.2781	.1316	.1984	33.7	.1866	29.5
182											
182	4038	1109	79.3	56.5	21.0	.2746	.1360	.1958	30.6	.1832	25.8
SOUTHERN											
182	3866	604	85.9	35.4	10.7	.1562	.1006	.1311	23.2	.1217	17.4
182											
182	3882	631	85.6	32.0	10.1	.1625	.1083	.1336	18.9	.1255	13.7
CENTRAL											
182	3603	642	83.6	39.7	15.4	.1782	.1152	.1420	18.9	.1365	15.6
182											
182	3635	737	82.1	37.2	14.9	.2028	.1287	.1587	18.9	.1503	14.4
WESTERN											
182	2633	583	80.1	45.1	16.7	.2214	.1283	.1650	22.2	.1525	15.8
182											
182	2638	610	81.7	44.2	16.0	.2312	.1265	.1679	24.6	.1553	18.5
ALASKAN											
182	466	104	84.6	55.8	17.8	.2232	.1118	.1647	32.1	.1475	24.2
182											
182	461	102	81.3	50.5	19.6	.2213	.1381	.1631	15.3	.1419	2.7
PACIFIC											
182	150	18	86.0	15.6	14.4	.1200	.1232	.1151	-7.0	.1015	-21.4
182											
182	159	12	88.7	15.8	15.4	.0755	.0960	.1148	16.4	.0657	-46.1
NATIONAL											
182	14879	3108	82.8	47.8	15.9	.2089	.1183	.1595	25.8	.1495	20.9
182											
182	14813	3201	82.2	44.5	15.5	.2161	.1249	.1635	23.6	.1525	18.1

F = NUMBER OF FORECASTS
 P = TOTAL PERCENT CORRECT
 PC = MEAN PROBABILITY FORECAST, PRECIPITATION
 MP = MEAN PROBABILITY FORECAST, NO PRECIPITATION
 MN = RELATIVE PRECIPITATION FREQUENCY
 PF = Brier Score
 B = CLIMATOLOGICAL Brier Score
 BC = PRESENT IMPROVEMENT OF B OVER BC
 S = SAMPLE Brier Score
 RS = PERCENT IMPROVEMENT OF B OVER RS
 SS =

OCT 1977 MAR 1978 1ST PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FB 18Z FP	4332	3.3	6.5	48.7	-0.5	4.5	82.2	15.0	2.0	0.7
SOUTHERN 06Z FB 18Z FP	4312	4.0	5.9	33.5	0.5	6.0	75.9	19.1	3.6	1.5
CENTRAL 06Z FB 18Z FP	3968	3.5	6.6	47.2	0.2	4.8	79.2	17.4	2.9	0.5
WESTERN 06Z FB 18Z FP	3946	3.8	5.9	36.9	0.5	5.8	78.1	17.5	3.1	1.3
ALASKAN 06Z FB 18Z FP	3645	3.4	7.0	50.4	-0.3	4.6	80.0	17.1	2.4	0.5
PACIFIC 06Z FB 18Z FP	3637	4.7	6.6	28.7	0.4	7.1	66.9	24.3	6.4	2.4
NATIONAL 06Z FB 18Z FP	2648	3.0	4.7	35.2	0.1	5.7	84.7	13.3	1.4	0.6
	2651	3.5	4.1	14.3	0.0	8.0	80.1	15.6	3.3	1.0
	470	3.4	4.3	20.9	-0.5	7.7	83.4	12.3	3.2	1.1
	466	5.0	5.2	4.3	1.2	8.2	66.7	23.4	7.1	2.8
	164	1.6	1.6	-3.8	-0.4	0.0	98.2	0.6	0.6	0.6
	162	2.8	2.5	-14.2	-0.1	10.3	88.9	9.3	1.2	0.6
	15227	3.3	6.2	46.2	-0.2	4.8	81.6	15.6	2.3	0.6
	15174	4.0	5.7	29.6	0.4	6.5	74.9	19.3	4.2	1.6

N = NUMBER OF FORECASTS
TE = MEAN ABSOLUTE FORECAST ERROR
TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
TC = PERCENT IMPROVEMENT OVER TV
TG = MEAN ALGEBRAIC FORECAST ERROR WHEN TV EXCEEDS 10
TM = MEAN ABSOLUTE FORECAST ERROR CLASSES
T1 = 0
T2 = 5
T3 = 11
T4 = 15
GREATER THAN 15 DEGREES

OCT 1977 MAR 1978 2ND PERIOD TEMPERATURE FORECASTING PERFORMANCE

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP	3524	4.1	5.9	30.6	1.0	5.9	73.6	20.8	3.9	1.8
18Z FP	4153	4.0	6.5	38.9	-1.0	5.3	74.6	19.4	4.9	1.2
SOUTHERN 06Z FP	3787	4.0	5.9	32.5	1.0	5.9	73.3	21.4	4.3	1.0
18Z FP	3941	4.0	6.5	38.9	-0.1	5.3	73.2	20.8	4.9	1.1
CENTRAL 06Z FP	2935	4.7	6.6	28.6	0.5	6.8	67.5	23.2	6.6	2.6
18Z FP	3108	4.1	6.9	40.5	-0.7	5.4	72.4	21.5	5.1	0.9
WESTERN 06Z FP	2471	3.6	4.1	13.0	-0.2	7.9	79.3	16.8	3.0	0.9
18Z FP	2562	3.6	4.7	22.9	-0.4	6.2	79.0	17.4	2.9	0.7
ALASKAN 06Z FP	374	5.4	5.2	-5.1	1.0	10.0	63.4	22.7	9.6	4.3
18Z FP	402	4.3	4.2	-1.2	-0.6	9.7	72.1	21.9	3.7	2.2
PACIFIC 06Z FP	164	3.1	2.5	-28.1	0.0	8.0	83.5	13.4	2.4	0.6
18Z FP	162	2.0	1.6	-29.3	-0.6	0.0	97.5	1.2	0.0	1.2
NATIONAL 06Z FP	13255	4.2	5.7	27.5	0.7	6.4	73.1	20.7	4.6	1.6
18Z FP	14328	3.9	6.2	36.3	-0.6	5.5	74.7	19.7	4.5	1.1

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TV = PERCENT IMPROVEMENT OVER TV
 TC = MEAN ALGEBRAIC FORECAST ERROR
 TG = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES
 TM = DEGREES TEMPERATURE ERROR CLASSES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

	N	TE	TV	TC	TG	TM	T1	T2	T3	T4
EASTERN 06Z FP 18Z	4332	4.2	6.5	35.8	-0.8	5.2	72.8	21.1	4.7	1.3
SOUTHERN 06Z FP 18Z	4313	4.8	5.9	19.8	0.6	6.8	66.8	24.7	5.9	2.6
CENTRAL 06Z FP 18Z	3969	4.4	6.5	32.2	0.3	5.6	69.2	23.4	5.9	1.5
WESTERN 06Z FP 18Z	3945	4.6	5.9	22.3	0.6	6.9	67.9	23.8	6.4	2.0
ALASKAN 06Z FP 18Z	3644	4.6	6.9	34.3	-0.7	5.6	66.8	25.7	6.2	1.3
PACIFIC 06Z FP 18Z	3640	5.5	6.6	16.7	0.2	7.4	59.1	27.3	9.8	3.8
NATIONAL 06Z FP 18Z	2648	4.1	4.7	11.8	-0.6	7.0	73.4	20.9	3.9	1.7
	2654	4.3	4.1	-4.6	-0.5	8.5	72.0	20.6	5.0	2.3
	472	5.2	4.2	-22.2	-0.8	9.6	64.4	24.1	7.8	3.6
	466	6.4	5.2	-23.0	1.1	10.0	57.1	24.9	11.8	6.2
	164	2.1	1.6	-30.6	-0.6	0.0	96.3	2.4	0.0	1.2
	163	3.6	2.4	-51.7	-0.3	19.0	84.1	12.3	2.4	1.2
	15229	4.3	6.2	29.8	-0.4	5.7	70.5	22.7	5.3	1.5
	15181	4.9	5.7	15.0	0.3	7.3	66.0	24.2	7.0	2.8

N = NUMBER OF FORECASTS
 TE = MEAN ABSOLUTE FORECAST ERROR
 TV = MEAN ABSOLUTE 24-HOUR OBSERVED VARIABILITY
 TC = PERCENT IMPROVEMENT OVER TV
 TG = MEAN ALGEBRAIC FORECAST ERROR
 TM = MEAN ABSOLUTE FORECAST ERROR WHEN TV EXCEEDS 10 DEGREES TEMPERATURE ERROR CLASSES
 T1 = 0 - 5
 T2 = 6 - 10
 T3 = 11 - 15
 T4 = GREATER THAN 15 DEGREES

(Continued from inside front cover)

- WBTM FCST 15 Weather Bureau Forecast Verification Scores 1968-69 and Some Performance Trends From 1966. Robert G. Derouin and Geraldine F. Cobb, May 1970. (PB-192-949)

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- NWS FCST 16 Weather Bureau April 1969-March 1970 Verification Report With Special Emphasis on Performance Scores Within Echelons. Robert G. Derouin and Geraldine F. Cobb, April 1971. (COM-71-00555)
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