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TÍTULO: SOME STUDIES ON MOISTURE CONDITIONS
IN THE SOUTHERN HEMISPHERE

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SOME STUDIES ON MOISTURE CONDITIONS IN
THE SOUTHERN HEMISPHERE

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ABSTRACT

Vertical cross-sections of the seasonal mean atmospheric humidity conditions on a planetary scale for the southern hemisphere are presented. The fields of mean precipitable water content are analyzed for the four seasons of the year. Zonally averaged values of the various quantities at several levels are presented and compared wherever possible with previous results. The structure of these fields in association with general circulation patterns of the atmosphere are discussed.

Linear regression equations for different latitudinal belts and for various continental and oceanic regions are presented. They relate the natural logarithm of total precipitable water in the atmospheric column below 500 mb to surface dew point in degrees Fahrenheit. Values of product moment correlation coefficients and standard errors of estimate are calculated. These results indicate that estimates of total precipitable water from surface dew-point are valid on mean monthly basis.

Values of λ which is a parameter used to model the decrease of moisture through the atmospheric column are evaluated. Precipitation efficiencies for the three continents, South America, Africa and Australia are estimated. Vertical cross-sections of atmospheric cooling rates for various seasons are presented.

LIST OF SYMBOLS

C	Intercept Constant, Eq.(4)
C_R	Cooling rate, Eq.(8)
g	Acceleration due to gravity, Eq.(2)
h	Height of the atmosphere
Δh	Thickness of the atmospheric layer, Eq.(1)
M	Slope constant, Eq.(4)
M_v	Mass of water vapour, Eq.(1)
ΔM_v	Mass of water vapour in a small element of humid air of 1 cm^2 cross-section and dh thickness, Eq.(1)
MP	Mean monthly precipitation, Eq.(7)
ND	Number of days in a month, Eq.(7)
P	Pressure
P_0	Pressure at a height h equal to zero, Eq.(2)
P_h	Pressure at a height h , Eq.(2)
dP	Pressure difference, Eq.(2)
PE	Precipitation Efficiency, Eq.(7)
q	Specific humidity
r	Mixing ratio

$\bar{r}$	Mean mixing ratio, Eq.(3)
R	Product-moment correlation co-efficient
$S_{y.x}$	Standard error of estimate from regression
t	Student 't'
t_d	Dew-point temperature in degrees Farenheit, Eq.(4)
$W = PW$	Total precipitable water, Eq.(4)
$\hat{W} =$	Estimated value of precipitable water from linear regression, Eq.(6)
$X = t_d$	
$Y = \ln W$	
ρ_a	Density of air, Eq.(1)
λ	A parameter used to model the decrease of moisture through the atmosphere column, Eq.(5)
$\hat{\lambda}$	Estimated value from linear regression, Eq.(6)
$\sigma(r)$	Standard deviation of mixing ratio

INTRODUCTION

Total moisture present in the atmosphere is necessary for very many purposes. There is a growing need and current interest for more detailed information regarding the distribution of water-vapour in the Southern earth's atmosphere. Indeed such information plays an important part in our understanding of many basic atmospheric processes, and the role of water vapour in the energetics of the general circulation. A knowledge of the quantity of water vapour present, at any moment in different air layers of the atmosphere, is of fundamental importance in meteorological, hydrometeorological and electromagnetic wave propagation studies (Shands, 1949; Palmen, 1967, and Reber et al., 1972). Younkin et al., (1965) and Lowry (1972) pointed out the importance of vertically integrated moisture in the objective prediction of clouds and precipitation.

Considerable number of investigations about atmospheric water vapour on a broad spectrum of scales have been made during the past years. Gold (1908) discussed the variability of temperatures with height over England and Northwestern Europe and used the absolute humidity as an indicator. The discussion, of course, is limited to the heights attained by instrumental equipment of the day. Ratner (1945) provided an excellent presentation of temperature and humidity distributions over the USA. Shands (1949) published tables and graphs for the water contents of selected stations in USA. On a regional basis, the water vapour content over North America was

studied by Benton and Estoque (1954) and Rasmusson (1966 a, b and 1967) among others. Kiryeva et al., (1958) presented seasonal distribution of water vapour density with heights over the territory of USSR. Similar studies have been made for Europe (Grigoreva, 1959; 1961 a b); for Southern England (Hutchings, 1957); for Australia (Hutchings, 1961); for union of South Africa (Schumann, 1951); for Africa (Peixoto and Obasi, 1965); for India (Ananthakrishnan, 1965); (Viswanadham 1970); for Brazil (Rammurthi et al., 1972).

An extensive important role of water vapour in the energetics of general circulation of the atmosphere has been studied and discussed in the light of various meteorological considerations by the General Circulation project at the Massachusetts Institute of Technology (Starr and White, 1954; Peixoto, 1965; and Starr and Saltzman, 1966). Telegads and London (1954) presented for winter and summer, relative humidity distributions for the period 1949-51 at 850, 700 and 500 mb surfaces for the Northern Hemisphere. Studies for entire Northern Hemisphere were carried out by Starr and White (1955); Starr and Peixoto (1958, 1960 and 1964); Starr et al., (1958) and Peixoto (1958 and 1960) for the year 1950 and by Peixoto and Crisi (1965) for the IGY period. Bennon and Steele (1960) provided world-wide Charts of total water vapour content above 1 cm^2 at 850, 700 and 500 mb surfaces. Reitan (1960 a,b) presented Charts of monthly average total water vapour content over the USA for the 11-year period 1946-1956. Starr et al.,

(1969) has presented the total pole-to-pole moisture conditions on a planetary scale during the IGY covering the calendar year 1958.

The present work provides a systematic study of the humidity conditions in the four seasons of the year, for the entire Southern globe on a planetary scale. It is due to lack of data, the study has been restricted to mid-season months representative of four seasons of the year. However, the relationships obtained for four seasons will be of value not only in future studies of large scale atmospheric processes, but also in the precipitations of climatic normals of water vapour content for the Southern Hemisphere.

Data Source and Representativeness

The present study is based on the data given in climate of Upper Air-Southern Hemisphere (Taljaard et al., 1969). The grid point data of mean ambient and dew-point temperatures from surface to 500 mb level for every 5° longitude around each 5° latitude circle between equator and 90°S are utilized. The rainfall data for different stations as given in the Technical Publication (WMO, 1967) are made use of in evaluating the precipitation efficiency values.

When one views the surface of Southern Hemisphere, perhaps the most noticeable characteristic is the large expanse of

ocean with relatively few land masses. Any contemplated atmospheric study of the Southern Hemisphere is hindered due to the less number of observing stations and hence paucity of data.

There are uncertainties inherent in the inaccuracies of the basic data and also portions of the computational procedures may introduce errors in the estimates of the various derived fields. Some aspects of the problems have been discussed among others by Hutchings(1957), Peixoto(1958), Nyberg(1958), Rasmusson (1966a), and others. Although these are very important sources of uncertainty in dealing with studies pinpointed in time and space, it seems safe to accept that for studies of large scale and embracing long periods of time such as the present one, the accuracy of the data is sufficient to depict the main characteristics of the water vapour content in the atmosphere. By far the bulk of the water content of the atmosphere and most of its flux occur below 400 mb level where the upper air observations as obtained by classical methods are more abundant and the reliability of the instrumentations is better and the differences between individual systems less significant. Thus it seems that vertical measurements in the lower atmosphere are fairly adequate for our present study. The approximations and the reliability of the individual parameters are discussed at length in the introductory pages by Taljaard et al (1969).

Atmospheric humidity values are computed from the grid point data at levels corresponding to the surface, 850, 700 and

500 mb levels. To simplify the computations, the specific humidity is replaced by the mixing-ratio r (gm per kgm). This would have the effect of slightly overestimating the total water vapour content; however, a partial compensation is conveniently obtained by setting g equal to 10^3 cm per sec². Neither of these approximations introduce a significant error; furthermore since the errors are consistent in sign, the total water vapour content will be unaffected.

Water Vapour and Precipitable Water

The water vapour content of the surrounding air can be characterized directly by the mass of water vapour in a unit volume or unit mass of air or indirectly by relative humidity wet-bulb and dry-bulb temperatures or dew-point temperature. Benwell(1965) correlated total water vapour content with dew-point, dew-point depression, sea temperature, dry-bulb temperature and other surface parameters. In this study, dew-point temperature is selected as a moisture parameter because it is a measure of water vapour of the surrounding air .

The precipitable water of a column of air is defined as the depth of water which would accumulate if all the water vapour in that column is precipitated. In other words, "The precipitable water", as the term is now used in NMC (National

Meteorological Centre), is the liquid depth of the mass of water vapour in a column of unit horizontal cross-section extending from the surface of the earth to the 500 mb level.

The possibility of estimating the precipitable water (PW) in the atmosphere by spectroscopic method was first demonstrated by Fowle (1912) by using his laboratory measurements of the absorption coefficients of water vapour in the bands in the near infrared. The spectroscopic method does not indicate the distribution of water vapour with height but does provide a rapid means of estimating the total water content of the atmosphere above a station whenever the sun is not obscured by clouds. This method has also been used by Hand (1940) and others. Solot(1939) suggested a method to compute PW from the aerological ascent at the station.

The total mass of vapour in a small element of humid air of 1 cm^2 cross-section and dh thickness is

$$\Delta M_v = q \rho_a dh \quad (1)$$

where ρ_a is the density of air, M_v is the mass of water vapour and q represents the specific humidity. Introducing the equation of hydrostatic equilibrium, it is found that the thickness of liquid water that would be precipitated is

$$W = \frac{1}{g} \int_{P_h=0}^{P_0} q dP \quad (2)$$

if the column extends from pressure P_0 to $P_h(=0)$.

Further it has been considered that for practical purposes q is equal to mixing ratio (r) and g is equal to 1000 cm/sec^2 and PW present from the surface to 500 mb level may be considered as equal to the total amount of PW, since the amount above that elevation is very small. The total mean precipitable water content for each grid point data is expressed by

$$W = \frac{1}{g} \int_{500}^{P_0} \bar{r} dP \quad (3)$$

convenient units for W are gm per cm^2 or cm when pressure is in mb, $\bar{r}$ in gm per Kg and g in cm/sec^2 . The meteorological parameters for each layer of the atmosphere are computed utilizing International Meteorological Tables (WMO, 1968). The total precipitable water is obtained from equation (3) in the present study.

Distribution of Precipitable Water

The distribution of mean precipitable water vapour content in the atmosphere W , is presented for four midseasonal months of the year in Tables 3a to 3d, respectively. Figs. 1 to 4 show the isolines of total PW for every 0.25 gm per cm^2 . The analyzed W field shows the essentials of water vapour distribution in the Southern

atmosphere for the (periods) months under consideration. The analysis shows a continuous decrease of PW vapour content from the equator to south pole which is to be expected since the ability of the atmosphere to retain water vapour is a function of the temperature and so the fields of specific humidity (or mixing ratio) and of W are largely regulated by the temperature fields. As is well known, this is the basic reason why the relative humidity is to a degree a conservative property with respect to temperature changes (Lorenz, 1967). The one feature of the temperature field which possesses no geostrophic counterpart in the wind field is its vertical variation. The principal feature is the separation of the atmosphere into troposphere, where - except at low elevations in polar regions in winter - the temperature decreases with elevation and above it the stratosphere, where - again except in the polar regions in winter - the temperature no longer decreases. At the surface in tropical latitudes the specific humidity is very large; in fact it is higher than the values which would prevail at temperatures a few degrees lower under saturated conditions. Thus the specific humidity falls off with increasing latitude and elevation and to a first approximation is determined by the field of temperature.

The areas of heaviest PW on the maps are generally located, as would be expected in tropical regions, because of the high dry-bulb and dew-point temperatures (Tables 1a to 1d) and also the greatest evaporation takes place. The analysis shows the influence of

oceans and continents on the distribution of the water vapour content in the atmosphere. On the whole the amount of PW is higher over the oceans with the exception of the Amazon basin, in general agreement with the results as obtained by Bannan and Steele (1960) and Starr et al., (1969). There is another outstanding exceptional region of middle latitudes such as Southern Chile, where relatively warm, moist-winds from the sea undergo forced ascent over considerable elevations. The departures from zonal symmetry are clearly associated with the physiography of the globe. Over high ground total PW contents are no doubt smaller than over neighbouring lower lying areas but in figures it has not been thought practicable to make any adjustments for the effects of topography. These effects are evident over both hemispheres.

In marked contrast to the high PW regions just named over the dry polar regions, where the water vapour content is always very low because of the low temperatures and very limited evaporation. The dry areas in the subtropical belts of high atmospheric pressure (in the vicinity of latitudes 20° to 30° S on all continents) and the arid strips on the lee sides of mountains are caused by low PW.

As illustrated in figures, the distribution of PW is practically zonal above 30° S as anticipated. The largest values are in the equatorial regions, and there is a continuous decrease toward the South pole. There are few exceptions to this zonal pattern, however which merit comment.

A certain break of zonality in the variation of the isolines is observed over cool and warm ocean currents. With cold currents the PW decreases. This occurs, for example, over the cold Peruvian current and also the current caused by the westerlies near the southwestern coasts of Australia. The warm currents are connected with an increase in the PW totals. Such an increase is observed over a branch of the South equatorial Pacific ocean current and over the warm currents in the Indian Ocean and the Atlantic Ocean.

The great ocean area of the Southern Hemisphere and the position of the thermal equator north of the geographical borderline causes the mean heat inflow to the atmosphere of the Southern Hemisphere. The maximal PW takes place over the warm equatorial currents with a frequent recurrence of clouds. The absolute maximum in the PW is observed over the Pacific ocean and equals 5 gm per cm^2 in April (fig.2)

Comparison of the geographical distribution charts for the PW with analogous charts for net radiation (Kondratyev, 1969) shows that the distribution of PW over the ocean is largely determined by the influence of the net radiation. Since the net radiation promotes evaporation, the PW over ocean regions is generally high. The mean net radiation for the Southern Hemisphere is slightly greater than for Northern Hemisphere (Kondratyev, 1969). This is due to great ocean area of the former.

In this connection it should be noted that the minimal PW values are related to desert (due to the high temperatures, low atmospheric moisture content and insignificant cloud). For example, a notable decrease of PW totals is observed over the Great-Sandy and Victoria deserts of Australia, Kalahari desert of South Africa and Patagonia and Atacama deserts of South America (Fig.3).

The observed low center of PW over Central Australia is similar to that found by Hutchings(1961). Its presence can be associated with the great Victoria Desert of Australia and the corresponding dryness of that region.

Over the continent of Africa, there is a center of minimum PW over the central portion of the southern part of the continent as observed by Peixoto and Starr et al.,(1969). This is the region of the Kalahari Desert, and dry conditions are expected to prevail there.

The effects of topography are also evident over the Andes, the highland of Ethiopia and the mountains of Kenya.

In general the values of PW for Southern Hemisphere are slightly higher than the value for the Northern Hemisphere (Peixoto and Crisi 1965; Starr et al., 1969; and Saltzman and Vernekar,1972). Peixoto & Obasi(1965) likewise found higher values over southern Africa than over the northern parts of the continent and attributed this to

the effect of the trade winds. It now seems likely that higher mean temperature values for the Southern Hemisphere associated with a larger predominance of the oceans contribute to the higher value of PW.

It is worthwhile to discuss these maps (Fig.1 to 4) seasonwise. From the consideration of these, it is possible to state that the maximal values of the monthly totals of PW occur over the equatorial regions and oceans in summer and the minimal values in winter. The effective PW appears to have influence on maritime climates. Thus at oceanic regions or at tropical coastal stations, there is characteristically a strong vertical gradient of mixing ratio in the lower atmospheric layers. The existence of a strong gradient of mixing ratio in the lower layers is what might be expected from an intense transfer of water vapour from the ocean surface to the atmosphere with its transfer aloft by turbulence and convection (Hutchings, 1961). These promote the local circulation like sea-breeze at coastal stations. Early period of the day the sea-breeze replaces the air of land origin at the coastal regions. Fluctuations in the depth of the sea breeze are mirrored by changes in the surface wind velocity, in temperature and in relative humidity. Generally, an increase in depth of circulation causes an increase in surface wind velocity, in relative humidity and a decrease in temperature (Wexler, 1946). Therefore on some of these occasions in marked contrast, the moisture content of these air masses brings about an increase of PW after the sea breeze sets in (Viswanadham, 1970). Both in summer and winter these conditions prevail at the coastal areas. It is due to this reason all the mean monthly

charts show higher PW values at the coastal regions. Even at coastal areas the PW values show lesser magnitude in winter.

Of course the exact location and character of their circulations are subjected to considerable uncertainty but unfortunately they cannot be determined more accurately until daily observational data are available at low latitudes especially over the ocean areas to the east and west coasts of South America, Africa and Australia.

In the northern countries of South America the sharply contrasted dry and wet seasons are related to the regions of trade winds. In the dry season these winds sweep the entire region, while in the wet season calms and variable winds prevail. In the basin of the Amazon River the PW is related to the equatorial belt of low pressure and to the trade winds, which give the maximum amounts of PW in the extreme, where they ascend the Andean Slopes (Krueger, 1970).

The desert areas on the west coast of South America extending from the equator southward to the latitude of Santiago are due primarily to the cold Peruvian Current and upwelling of cold coastal water. The moist, cool ocean air is warmed in passing over the land, with a consequent decrease in relative humidity, so that the dew temperatures are not favourable for high PW until the incoming air has reached high elevations in the Andes, where temperatures are very much lower than along the coast. In southern Chile the summer and winter

seasons are moderately wet. The conditions that prevail farther north are not present here, and condensation of moisture from the ocean progresses from the shores up to the Crests of Andes. By the time air passes these elevations however, the moisture has been so depleted that the winds on the leeward slopes are dry, becoming more and more so as they are warmed on reaching lower levels. The mountains can be looked upon as casting a "PW shadow" over southern Argentina.

Africa, like South America lies very largely within the tropics. There too temperature distribution is determined mainly by altitude. More over, along the southern portion of the western coast the cool Benguela current moves northward and on the eastern coast are the warm tropical currents of the Indian Ocean, which create conditions closely paralleling those found around the South American continent. In the strictly tropical areas of Africa conditions are characterized by prevailing low barometric pressure, with higher PW values and with the movement of heat equator the ruling influences are the belts of high barometric pressure. The higher PW values are observed over sections of Ethiopia in January, April and October.

Because of the location of Australia, on both sides of Southern Tropic, temperatures far below freezing are to be found only in small parts of continent, in the south at high elevations (in winter). In the arid interior extreme maximum temperatures are very high, ranking with those of the hottest regions of the earth. In the southern winter the high pressure crosses the interior of Australia,

and all except the southern most parts of the continents are dry. In summer on the other hand, this pressure belt has moved south of the continent, still giving dry conditions over the southern and western areas.

If the earth were entirely covered by water, it might be expected that the lines of equal water vapour content would run more or less along latitude circles in all seasons with high values to the North and lower values to the south. The charts of PW show clearly the magnitude of the departures in different seasons from this idealized zonal distribution of PW induced by the presence of the continents.

Charts of PW for the Autumn(April) and Spring (October) seasons are shown in Figs.2 and 4 respectively. The chart for spring shows basically a similar pattern of winter where as the chart for autumn shows the same pattern of summer and are not further discussed. Using the grid point values of total PW, an estimate of the meridional distribution of zonally averaged PW vapour content $\bar{W}$ is obtained. The resulting values are given in Tables (3a to 3d), and are also shown in Fig.5. The curve with the results obtained by Sellers (1969) is also included for comparison. Sellers values are slightly higher because he obtained them by independent means. But, over all the agreement is good. As expected the curves for $\bar{W}$ show maximum values at the equator and show continuous decrease from equator to the poles ($\partial\bar{W}/\partial Q < 0$) with the steepest gradient over the subtropical

latitudes. The grand average of PW is of the order of 2 gm per cm^2 . It is then clear that the storage of the atmosphere for the water vapour is relatively small and the amount present could be completely removed by the average precipitation acting alone with a period of ten days (Starr et al.1964). However the total water vapour content for the entire atmosphere is still comparable to the water content in the rivers of the earth, as estimated by hydrologists. The integrated total PW data given in this study can be used to locate the net in flow regions (convergence) or outflow regions (divergence) of water vapour for a particular area.

Zonally Averaged Values of Mixing Ratio

The distributions of the mixing ratio(r) are analyzed at various levels for four midseason months of the year and tabulated in tables 2a to 2p. In order to present some idea of the structure of the distribution of water vapour in the vertical and of its variability, the zonally averaged values of the mixing ratio ($\bar{r}$) and of its standard deviation $\sigma(r)$ are computed at various levels and are also given in the same tables. The results are presented graphically in Figs.6 to 9.

Figs. 6 to 9 show that the mixing ratio decreases rapidly with latitude and height with a strong vertical gradient in the lower layers of the atmosphere in the intertropical regions. Inspection

of figures reveal generally that about 60% of the water vapour is contained in the lowest 15 percent of the atmosphere, and nearly 90 percent in the lower half of the atmosphere. The gradient along the vertical is strongest within the tropical region and in the lower layers of the atmosphere. As is to be expected in view of the intense vertical transport of water vapour from the surface of oceans associated with the prevailing convection and turbulent diffusion over this region.

Differences in mixing ratio from one month to the next are not perhaps too large. Beyond the latitude 60°S the mixing ratio in winter(July) is slightly lower than in other months. Variability of mixing ratio is found from Figures 10 to 13. The largest variability of water vapour is found in subtropical and middle latitudes in the lower portion of the atmosphere between 1000 to 700 mb. In January and April for latitudes 70° to 80°S the standard deviations of r are also high in the portion of the atmosphere between 1000 and 500 mb. These variations may be attributed to the changes of the predominant air masses over these regions.

Harmonic Analysis of Precipitable Water

Total amount of precipitable water at a place is related to the inhomogeneity in the earth's atmosphere, land and sea contrasts and difference in orography and heating etc. In order to

investigate the occurrence of maxima and minima of PW on the earth's surface, it is decided to perform a harmonic analysis of the mean PW along parallels of the Southern Hemisphere.

For all latitudes the harmonic analysis is based on the calculated values of PW for grid point data (for each 5° latitude-longitude intersection). The distributions of the amplitude and phase spectrums are computed upto wave numbers 10, for every 5° latitude circle based on calculated values of PW at 5° intervals around each latitude circle (i.e. 72 values of PW). The results are presented in Tables 6A to 6D and Figs. 14a to f, 15a to f, 16a to f and 17a to f.

The phase angle indicates the longitude where the maximum of PW corresponding to wave number is located. The mean precipitation data of January and July (WMO, 1967) are compared with calculated values of PW utilizing phase angles.. It is noticed that the mean precipitation maxima and minima are generally agreed with the maxima and minima of mean PW.

Amplitude of each wave number gives an idea about its contribution to the total PW. Figs. 14a to c, 15a to c, 16a to c and 17a to c reveal that the first five harmonics generally give larger contribution to the total PW in tropical latitudes 0 to 35°S . Significant contribution to total PW of the order greater than 40% is associated

with the wave numbers 1 and 3 in the same latitudes. In the remaining latitude 40 to 80°S the wave number 1 is more predominant. It is clearly observed that the first harmonic is dominant at all latitudes except at 15, 20 and 25°S in winter season (July). A marked contrast is observed between the average values of PW for the primarily oceanic latitudes 50 to 65°S and those for latitudes 75 to 85°S which are dominated by the Antarctic Ice Cap.

Moisture Relationships

If the moisture content of air at any upper level is related to the amount of moisture at the surface, it follows that the total water vapour content of the air would also be related to a measure of surface moisture. One relationship between PW and surface moisture has been discussed by Shands(1949). In that study surface dew-point temperatures were related to PW totals computed by assuming that the dew-point decreased at the pseudo-adiabatic lapse rate. It is devised as a tool for use in hydrometeorological studies. Shands compared these empirical values to actual mean monthly values of PW and in general, found them to be underestimates in the colder months and overestimates in warmer months. The search for methods to estimate PW content of the atmosphere from observations at the surface has continued to the present.

It is necessary to specify the total column precipitable water below 500 mb as a function of variables observed at the surface of the earth. Reitan (1963) and Bolsenga(1965) have shown that a large percentage of the variance of natural logarithm of total precipitable water ($\ln W$) is explained by a linear function of the surface dew-point temperature (t_d) degrees Fahrenheit. They derived the linear regression equation of the form.

$$\ln W = C + Mt_d (^{\circ}\text{F}) \quad (4)$$

where C is the intercept constant and M the slope constant.

Consequently, it is also desirable to explore the relationship between $\ln W$ and $t_d (^{\circ}\text{F})$ of this form (4) for the regions of Southern Hemisphere.

The product - moment correlation co-efficient R, the constants C and M, the co-efficient of variation of standard error estimate, $S_{y.x}$ ($=S_{\ln W.t_d}$) from regression and the student, t, are compared by using the data pairs at each grid point data both on monthly (mid season month) and annual (combined four mid-season months) basis for each latitude circle, four continental areas, three ocean areas and for the whole of Southern Hemisphere (see Table 7). The results are present in Tables 8 A to J and in Figs. 18A to J. The degree of relationship as given by the values of product-moment correlation co-efficients is excellent for all latitude circles and

different regions both on monthly and annual basis as well. The correlation co-efficients obtained are ranged from 0.23 to 0.99. The magnitude of correlation co-efficients indicates that the same basic relationship was present in each case. However, the degree of relationship is less for the latitude circles 00 to 20 S in January April and October. Co-efficients of determination show that the differences in water-vapour are related to differences in dew-point for mean monthly values. Generally higher dew-point temperatures are observed at equatorial regions in summer (January), autumn (April) and spring (October) as compared with winter (July). The degree of difference is illustrated in Figs. 18A to J. The values of regression constants C and M also show a discernable geographical pattern. The intercept constants are lower (more negative) in Indian ocean except July where as the dew-point co-efficients are larger. The above tables and figures indicate that there are marked variation in the regression equations both for latitude circles and different regions from season to annual.

As a test, the student "t" values and the standard error of estimate are calculated. The student t values indicate that the regression constants obtained are highly significant above 99% significant point for two-tailed test. But, the regression constants in tables 8A, 8B and 8D (marked*) are only significant at 95% significant point. The standard error of estimate is found to be ranged from 0.02 to 0.22 cm. Since the standard error is a measure of the general reliability of estimates calculated from regression equations, it

follows that the reliability of water vapour values calculated from mean monthly and annual equations are also reliable.

Rietan(1963) found excellent correlation (0.96 - 0.99) between total PW and surface dew-point by using mean monthly data. Bolsenga (1965) obtained a correlation co-efficient of 0.85 between total PW (one observation per day) and mean daily dew-point (mean of 24 observations per day) by using 72 data pairs obtained during the months of February to April 1963 and November 1963 to March 1964 in New Hampshire. The correlation co-efficient dropped to 0.80 for 97 pairs of hourly data,i.e., by using only the dew-point observations just prior to launch of radiosonde. Goss and Brooks(1956) mentioned that the local 1400 hours vapour pressure can be used as the best surface indicator of total moisture in the atmosphere. Benwell (1965) obtained correlation co-efficients of 0.68 and 0.69. Using the surface dew-point and PW pairs for 0000 and 1200 GMT respectively for June to October 1963 at three Atlantic weather stations.

Smith (1966) proposed latitude corrections to improve Reitan's equation for computing PW from surface dew-point and Berkofsky(1967) gave theoretical support to Smith's argument. However Schwarz(1968) showed that surface dew-point is not a reliable indicator of total PW at San Antonio, Tex. Using twice daily observations for 1963 and 1964 and correlating the data points at 0000 and 1200 GMT for each month, Schwarz obtained monthly correlation co-efficients ranging from 0.37 to 0.92 for the 1200 GMT observations. He concluded:"Even with a judiciously chosen estimation of mean vertical distribution of

moisture, one would expect, for some areas and seasons at least, some large errors in trying to estimate liquid equivalent (PW) in depth from surface dew-points". Lowry and Glahn (1969) after analysing two years of 1200 Giff data for 56 stations that are located east of the Rocky Mountains, concluded, their report with the above quote from Schwarz. Reber and Swope(1972) examined the relationship between the total PW in the atmosphere and surface absolute humidity for more than 1500 upper level soundings, made in 1970 at San Nicolas Island, Point Mugu and China Lake, California. Their results indicate that the monthly correlation co-efficients are ranged from - 0.29 to + 0.83; the annual co-efficients for 1970 were only 0.56 at San Nicolas Island, 0.53 at Point Mugu, and 0.66 at China Lake. Thus the correlation between total PW and surface dew-point is generally positive, but widely variable.

The results of Benwell, Bolsenga, Schwarz, Lowry and Glahn and Reber and Swope demonstrate that estimates of precipitable water from surface measurements on an individual basis, are not sufficiently reliable to justify making surface measurements to infer existing PW. Reber and swope stated that the estimates of PW from climatology would probably give results as accurate as those obtained from individual surface measurements. The present study supports the statement of Reber and Swope.

Smith(1966) and others discussed a modification of the relationships used by Reitan (1963) and Bolsenga(1965). Smith has derived the following equation

$$\ln W = |0.1133 - \ln(\lambda+1)| + 0.0393 t_d(F) \quad (5)$$

on the basis of theoretical considerations. It is of the same form as that obtained statistically by Reitan, Bolsenga and the present authors with the exception that the parameter C(Eq.4) is not a constant, but a variable which is clearly dependent upon the actual moisture profile. That is, the constant C is allowed to vary with λ which is a parameter used to model the decrease of moisture through the atmospheric column. Smith calculated the values of λ utilizing the mean Northern Hemisphere soundings tabulated by London(1957)..He presented the values of λ as a function of latitude and season (Table 9). It may be true, as stated by Smith and others that "The scatter about the statistically derived linear regression lines of Figs. 19A to G merely results from variations in λ ". However the study of Lowry and Glahn(1969) show that very little of the scatter could be explained by using a λ which varies only with latitude and season.

The values of λ are also calculated for four mid-season months of the year, and tabulated in Tables 4A to 4D. Zonally averaged values of λ are presented in Table 10. These tables illustrate the dependence of λ on latitude and season in the Southern Hemisphere.

For a given surface dew-point, it follows from equation (5) that the percentage error resulting in an estimate of W from an incorrect estimate of λ is given by

$$\text{Error}(W) = 100 \left(\frac{W - \hat{W}}{W} \right) = 100 \left| \frac{\hat{\lambda} - \lambda}{\hat{\lambda} - 1} \right| \quad (6)$$

where W , λ are the true values and $\hat{W}$, $\hat{\lambda}$ are the estimated values. Since the 'C' constants obtained in this investigation imply $\hat{\lambda}$ values ranging from - 0.68 to 5.13 (Table 11), it is evident from Tables 4A to D and 10 that large errors may result even for mean monthly conditions. The values of λ obtained from Rietan and Bolsenga results are also within the limits of - 0.68 to 5.13 (Table 11). Hence, it seems necessary to consider the latitudinal and seasonal dependence of λ when relating the surface dew-point to the total water vapour content. This may now be done by utilizing Tables 4A to D and 10 with equation (5). More characteristic relationships for individual stations could be obtained in a similar manner from tabulated values of λ for those stations. As an example two λ values are computed from two individual radiosonde ascents of São José dos Campos ($23^{\circ} 13'S$, $45^{\circ} 51'W$), Brazil and they are shown below.

Date	$t_d^{\circ F}$	W cm	λ
17.9.1971	50.0	2.09	2.82
18.1.1972	66.2	3.37	3.48

These two values of λ are very well compared with the values obtained from mean monthly grid point data. Tables 4A to D, 9 and 10 show very distinctly the characteristic variation of λ in both hemispheres. However, the Southern Hemisphere results show slightly larger values than the northern hemisphere. It may be due to higher precipitable water values in the Southern Hemisphere.

PRECIPITATION EFFICIENCY

An idea of the latitudinal variation of the precipitation efficiency (PE) can be obtained by dividing the mean daily precipitation by the average precipitable water. It follows that the PE is given by

$$PE = \frac{MP}{ND \times PW} \times 100 \text{ per cent} \quad (7)$$

where MP is mean monthly precipitation in mm., PW precipitable water in mm and ND number of days in a month. For convenience, this ratio can be thought of as the fraction of the average moisture overhead which falls as precipitation on an average day. The PE values are calculated for South America, Africa and Australia. They are presented in Fig. 20A, 20B, 21A, 21B, 22A and 22B.

In South America in January (Fig. 20A) the PE is low in the west coast and high in the east coast. The PE is very low on the western side of Andes and slightly high on the eastern side of the same ranges, reflecting the orographic effect on precipitation. Maxima are located in the central Amazon, central tropical Brazil, east coast of Brazil (20°S) and over Uruguai region. Maxima of July PE (18 per cent) exist over east coast of tropical Brazil (5-15°S, 35-40°W), central Amazon, south eastern Brazil (Rio Grande do Sul) and Uruguai. Lowest values less than 1 per cent, occur over eastern

region of central tropical Brazil (10°S , 45°W), the foot hills of the Andes in Argentina, the island of Pampa and over Bolivia. Precipitation efficiencies are generally lower in July (Fig. 20B) than in January, with the lowest values along the Pacific Coast, which is under the influence of the very stable Pacific high-pressure system of summer. Values in excess of 10 per cent are found only in the southeastern states and along the northeastern border. Slightly higher values of maxima and lower values of minima are noticed in July than in January. The locations of maxima and minima in the fields are nearly identical with those of Dean et al., (1971).

The PE values of Africa (Fig. 21A) show that the high values occur over Gabon, Tanganika and south central regions and low values occur over the remaining areas. Below 32°S over Africa in July (Fig. 21B), there are slightly higher values of PE (> 10 per cent) and the remaining region is completely dry. This illustrates that there is no elongated mountain chain that can form a climatic barrier, similar to the Andes of South America. However, the vast plateaus exert a profound effect on the climate of the eastern and southern portions of Africa. In January pronounced heating produces a mean low pressure area south of the equator. This vast cyclone separates the well developed oceanic subtropical anticyclones to the east and west. South of the equator (20°S to 35°S). The January upper air circulation is also probably weak, in view of the diffuse surface cyclone and the

indeterminate temperature gradient. The mean July circulation is approximately the converse of January pattern.

Figs. 22A and 22B show the PE values of Australia are larger along the coastal areas of the country. In Fig. 22B, the isolines are poorly presented due to lack of mean monthly precipitation data. On an average lowest PE values appear to be found over the extensive area extending north-westwards from Woomera and southwestwards from Alice Spring. Maximum values are observed over Gulf of Carpentaria, Cape York Peninsula and Townsville areas in summer whereas in winter they are noticed over New Southwales and Victoria. These general considerations demonstrate the importance of topography on the distribution of precipitation and temperature.

The prominent indentations of Australian continent are the Gulf of Carpentaria and the Great Australian Bight. Since, north of 25°S , the prevailing air flow is from east to west, orographical lifting results in considerably heavier precipitation along the east coast than over the central or western section of Australia. South of 30°S , the southeastern highlands also favour higher rainfall over Victoria and New Southwales than across the low-lying lands around the Great Australian Bight. Besides favouring orographic precipitation, the eastern highlands shelter the interior from direct invasions of maritime air consequently, the dry air masses of central Australia are noticed during summer. In contrast to South America and

other continents, the flat Australian relief does not offer any obstacle to the west-east circulation. The migratory anticyclonic centres rarely penetrate further north than 25°S , and consequently the winter southeast trades and the cyclonic circulation in summer are reasonably constant across Northern Australia. These indicate that the general climatological features in summer and winter clearly reflect the variability of PE values over Australia.

ATMOSPHERIC COOLING RATES

Some complexities in studies of atmospheric dynamics can be considerably simplified if suitable approximations are made in computations of radiative heating and cooling in the atmosphere. Radiative cooling in the troposphere, in the absence of clouds, depends largely on the vertical distribution of temperature and water vapour. Dickinson (1969), however suggested that a good first approximation to the radiative cooling distribution would be a linear dependence on the local free-air temperature. The present study also reports the results of some calculations of radiative flux divergence in the southern atmosphere to support such an approximation.

London and Sasamori (1970) studied the linear dependence of radiative cooling rate on the local mean free-air temperature in the model clear atmosphere for winter and summer seasons

at latitudes 0° , 30° and 60° of the Northern and Southern Hemispheres. They deduced the following approximate least square linear equation for the model atmosphere as

$$C_R \sim 0.017 T + 1.8 \quad (8)$$

where C_R is the cooling rate in $^{\circ}\text{C}$ per day and T mean free-air temperature in $^{\circ}\text{C}$. The benefit of this depends on the specific problem studied.

The radiative cooling rates are calculated at four standard levels for all the four mid-season months of the year using the equation (8) and mean free air temperatures. They are presented in Tables 5A to P. The vertical distribution of zonally averaged values of cooling rates are shown in Figs. 23, 24, 25 and 26. It is evident that they are not true representative values because the free air temperatures are averaged values for clear and cloudy conditions. However, the results might be useful in the climatological heat budget studies along with the climatological characteristics of the net radiation and its components for the earth atmosphere system.

Figs. 23 to 26 characterize the latitudinal and seasonal variation of cooling rates. They show approximately a similar pattern as in Figs. 6 to 9. It is clear that the seasonal range is very small. They show that radiative cooling rates are slightly higher in summer

CONCLUDING REMARKS

With the possible exception of a portion of the antarctic region, it is felt that the present study reliably reflects humidity conditions over the southern globe. It is hoped that the results given offer added insight into these conditions and will help to provide the basis for further intensive studies. The agreement of the results with those obtained by the other investigators for the southern hemisphere in previous studies seems to secure the consistency of the approach followed.

The correlation between total precipitable water and surface dew-point is generally positive, but widely variable. This is in contrast to the results of Reitan who worked with monthly average data. When radiosonde data are smoothed by monthly averaging to form mean monthly atmospheric models, the relationship between total precipitable water and surface dew-point is statistically enhanced; the resulting correlation co-efficients tend to one. The results of this study and those of others demonstrate that estimates of precipitable water from surface measurements on monthly basis are sufficiently reliable. They also infer that estimates of precipitable water from climatological data would probably give results as accurate as those obtained from individual surface measurements. The information presented in this study would indeed be a useful supplement to regions where few or no balloon soundings are available. With the desirable

(January) and lower in winter (July). On the whole they are maximal in the low latitudes. The inhomogeneous distributions of radiative temperature changes is mainly caused by the nonhomogeneity of the cloud cover. Minimal values of radiative temperature changes are observed in polar latitudes. The meridional gradient of radiative cooling in the troposphere shows that the cooling rates decrease southward. Low latitudes are usually characterized by high values of specific humidity. Obviously, low latitudes should experience more radiative cooling than high latitudes. The positive net radiation values at tropical latitudes and the negative values at polar latitudes determine the poleward heat transport.

The cooling rates in the layer 1000 mb to 800 mb are lower than the cooling rates in the layer 800-500 mb at the polar latitudes (over 75 to 90°S). It is due to the rapid decrease of humidity with height in polar regions. This rapid decrease in humidity causes polar inversions which are generally noticed below 800 mb level. The minimal cooling occurs at the base of the inversions, while the maximum is near its upper boundary. In other words a sudden decrease in specific humidity from the lower level to the above causes very ineffective screening of the net upward flux. The result is maximum divergence leading to higher cooling rate over the inversion (Viswanadham, 1972).

Comparison with the values of Northern Hemisphere (Kondratyev, 1969) shows the cooling rates are larger for Southern Hemisphere. In addition they have less variation in Southern Hemisphere than in the Northern Hemisphere. These are due to the great oceanic area of the former.

improvement of the southern hemisphere network and the information of new instrumental techniques much can be done to improve the actual results.

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TABLE 14 SURFACE NEAR-BY POINT TEMPERATURE VALUES (F) - JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	75.56	71.42	67.64	64.40	62.78	61.74	59.72	57.72	53.24	45.68	38.12	32.00	27.14	22.46	17.60	0.00	0.00	0.00	-26.32
5W	78.84	70.70	67.24	64.22	62.78	61.52	60.26	57.92	53.24	45.50	37.94	32.00	27.32	22.64	17.60	0.00	-25.60	-22.00	-26.32
10W	78.84	70.34	66.92	64.22	63.32	61.84	61.16	57.92	53.60	45.50	37.94	32.00	27.50	22.82	17.76	-14.80	-22.00	-22.00	-26.32
15W	75.92	70.34	66.92	65.12	64.94	64.04	61.70	59.00	53.60	45.48	37.94	32.36	28.04	23.00	18.14	-5.80	0.00	-20.20	-26.32
20W	75.92	71.42	68.16	67.28	67.10	65.48	62.60	59.00	53.60	45.48	37.94	32.54	28.22	23.36	18.68	6.80	-13.00	-14.40	-26.32
25W	74.30	73.04	70.70	69.44	68.20	66.92	63.32	59.36	53.60	46.22	38.12	33.26	28.54	23.54	19.04	14.18	-9.40	-14.40	-26.32
30W	73.76	73.22	72.32	71.60	70.88	69.36	63.86	59.36	53.60	46.40	39.02	33.62	28.94	23.72	19.22	14.90	-5.80	-14.60	-26.32
35W	73.76	71.96	71.96	73.40	73.94	70.34	64.76	59.72	53.78	46.94	39.02	33.98	29.48	23.90	19.22	15.26	-4.00	-14.60	-26.32
40W	73.40	67.10	61.52	71.60	72.50	71.06	65.48	60.44	54.50	47.66	40.64	34.70	30.20	24.26	19.22	15.26	-0.40	-14.60	-26.32
45W	73.94	72.50	73.40	71.60	64.90	71.60	66.20	61.34	55.40	48.38	41.64	35.60	30.54	24.80	19.22	15.08	-0.40	-14.80	-26.32
50W	74.12	77.72	72.14	69.08	69.80	62.24	67.10	62.60	56.84	49.46	42.62	36.68	31.64	26.78	19.22	14.72	-0.40	-14.80	-26.32
55W	73.76	76.82	72.50	68.90	67.82	69.80	66.56	62.24	57.56	51.80	44.46	38.30	33.08	28.76	19.40	14.00	-2.20	-14.80	-26.32
60W	73.76	75.02	72.32	71.60	77.00	71.42	64.04	60.98	56.66	52.34	45.32	39.56	34.88	30.02	19.58	1.40	-4.00	-14.60	-26.32
65W	75.20	74.30	73.04	71.78	57.20	51.98	64.58	58.64	53.96	45.50	43.70	39.92	35.06	31.10	21.20	-9.40	-5.80	-14.60	-26.32
70W	73.40	74.12	72.32	60.40	60.80	54.68	54.50	52.34	43.16	39.20	39.20	35.44	36.32	32.00	23.00	-7.60	-7.60	-14.40	-26.32
75W	58.02	68.18	66.20	65.12	63.14	60.80	59.00	57.56	54.86	51.98	46.76	41.54	37.08	32.72	28.94	-4.00	-9.40	-14.68	-26.32
80W	68.02	68.18	66.20	65.12	63.14	60.80	59.00	57.56	54.86	51.98	46.76	41.54	37.08	32.72	28.94	-4.00	-9.40	-14.68	-26.32
85W	71.24	68.04	66.22	64.76	62.96	61.16	59.72	57.56	54.86	51.08	46.94	41.90	37.40	32.72	25.88	-4.00	-11.20	-14.60	-26.32
90W	71.24	68.54	66.56	64.40	62.96	61.34	59.72	57.56	55.00	51.26	46.76	41.90	37.40	32.72	25.88	-2.20	-11.20	-14.60	-26.32
95W	71.24	68.18	66.20	64.76	63.32	61.88	60.04	57.74	54.86	51.08	46.68	42.08	37.22	32.72	25.88	-3.20	-11.20	-14.60	-26.32
100W	71.06	67.82	66.56	65.30	64.22	62.96	60.94	58.10	54.64	50.90	46.40	41.72	36.86	32.72	25.88	-2.20	-11.20	-14.80	-26.32
105W	71.06	67.64	66.56	65.66	65.30	64.58	61.88	59.00	55.22	50.72	46.40	41.72	36.86	32.54	25.70	-4.00	-9.40	-14.80	-26.32
110W	71.06	67.02	66.38	66.38	66.38	66.38	63.50	59.72	55.40	50.90	46.40	41.72	37.04	32.36	25.52	-2.20	-7.60	-14.80	-26.32
115W	71.24	67.82	67.46	67.82	67.64	66.38	64.40	60.44	55.76	51.08	46.40	41.72	36.68	32.00	25.16	-0.40	-5.60	-13.00	-26.32
120W	71.24	68.36	68.72	68.90	68.72	67.64	64.76	60.98	56.30	50.90	46.40	41.72	36.68	31.64	24.98	1.40	-2.20	-11.20	-26.32
125W	71.42	69.80	69.80	69.94	69.26	68.54	65.30	61.16	56.44	51.08	46.40	41.18	36.50	31.64	25.16	3.20	-0.40	-11.20	-26.32
130W	71.42	70.70	71.06	71.06	70.34	68.72	65.48	61.16	56.66	51.26	46.40	41.18	36.14	31.46	16.16	5.00	-0.40	-11.20	-26.32
135W	71.42	70.08	72.86	72.86	71.06	68.90	65.30	61.16	56.66	51.26	46.40	41.18	36.14	31.46	25.34	10.40	1.40	-0.40	-26.32
140W	71.42	70.70	73.58	73.76	71.96	69.08	65.30	60.98	56.66	51.44	46.40	41.18	36.32	31.10	25.34	14.90	3.20	-7.60	-26.32
145W	71.42	70.70	73.04	74.12	72.32	69.26	65.12	60.80	56.48	51.62	46.58	41.18	35.96	30.92	25.52	16.16	5.00	-7.60	-26.32
150W	71.24	70.70	72.48	72.50	72.32	69.62	65.12	60.80	56.48	51.80	46.76	41.18	36.32	30.92	25.70	17.42	6.80	-7.60	-26.32
155W	71.06	70.70	73.76	74.66	72.68	69.42	64.94	60.62	56.66	51.80	46.76	41.72	36.32	31.10	25.88	18.68	6.80	-5.80	-26.32
160W	73.40	73.08	74.30	74.30	72.68	69.08	64.58	60.62	56.84	52.16	47.12	41.90	36.50	31.28	26.60	19.58	8.60	-5.80	-26.32
165W	74.12	74.12	74.48	74.12	72.68	68.54	64.04	60.62	56.66	52.16	47.66	42.44	36.86	31.64	27.32	20.66	10.40	-5.80	-26.32
170W	72.96	74.30	74.84	74.30	72.50	67.82	63.50	60.44	56.66	52.52	47.66	42.80	37.40	32.00	28.04	21.74	12.20	-5.80	-26.32
175W	73.58	75.20	75.74	75.38	71.96	66.74	62.60	59.72	57.02	52.34	48.02	43.16	37.76	32.54	28.40	22.10	30.38	-5.80	-26.32
180W	74.12	75.56	76.28	75.38	70.88	66.20	61.52	60.62	57.02	52.52	48.20	43.34	37.76	32.90	28.40	22.46	14.90	-5.80	-26.32
185W	74.94	75.92	75.92	72.40	69.98	66.20	61.70	57.20	52.52	51.98	48.34	43.34	37.76	32.54	28.40	22.22	15.26	-7.60	-26.32
190W	75.56	76.10	75.38	72.86	69.40	66.56	64.22	57.74	51.80	46.40	48.34	43.34	37.40	32.54	28.04	21.38	15.62	-0.40	-26.32
195W	76.28	75.92	74.30	72.50	70.88	68.00	64.58	59.54	52.52	47.30	46.94	43.16	37.04	32.00	28.04	17.96	15.08	-7.60	-26.32
200W	76.28	75.38	72.32	73.94	71.96	69.08	65.48	61.52	53.42	45.32	43.52	41.72	36.68	31.64	18.68	0.00	12.20	0.00	0.00
205W	76.10	74.84	75.74	75.56	72.32	68.90	65.30	61.70	53.60	44.42	41.18	39.56	35.96	30.74	17.20	0.00	0.00	0.00	0.00
210W	75.92	75.74	75.38	75.74	71.78	55.76	53.04	55.40	53.60	43.88	40.28	37.58	34.16	28.94	0.00	0.00	0.00	0.00	0.00
215W	74.84	69.98	75.92	73.22	65.48	54.68	51.44	48.20	50.00	44.42	39.74	36.32	32.72	26.40	0.00	0.00	0.00	0.00	0.00
220W	74.84	69.08	76.10	73.40	65.12	48.02	47.84	48.20	49.28	43.88	39.20	34.88	31.10	25.16	0.00	0.00	0.00	0.00	0.00
225W	75.56	74.48	75.74	71.60	54.86	46.04	45.14	51.78	48.38	43.16	38.48	34.34	29.66	24.08	0.00	0.00	0.00	0.00	0.00
230W	75.56	74.48	75.38	71.96	53.60	44.60	46.04	54.32	49.28	43.52	38.30	33.98	29.30	23.18	0.00	0.00	0.00	0.00	0.00
235W	74.48	73.40	73.94	75.34	56.18	42.50	42.56	54.32	50.90	44.24	38.30	32.68	28.40	23.00	0.00	0.00	0.00	0.00	0.00
240W	73.40	72.86	73.94	75.56	70.16	42.26	48.92	54.68	51.80	45.50	38.66	33.08	28.80	22.82	0.00	0.00	0.00	0.00	0.00
245W	72.46	73.58	75.38	70.34	68.00	60.80	57.54	57.02	52.34	44.22	39.20	33.20	28.22	23.00	0.00	0.00	0.00	0.00	0.00
250W	73.76	73.76	75.74	72.32	68.00	64.76	59.54	57.56	52.70	44.76	39.20	33.26	28.22	23.00	0.00	0.00	0.00	0.00	0.00
255W	73.94	72.14	75.74	70.34	68.36	65.30	61.84	57.56	52.70	46.94	39.38	33.26	28.40	23.00	0.00	0.00	0.00	0.00	0.00
260W	72.14	73.22	74.12	71.24	68.54	65.48	61.88	57.74	52.88	46.94	39.20	33.44	28.40	23.00	0.00	0.00	0.00	0.00	0.00
265W	72.50	73.76	73.40	71.06	68.54	65.48	61.88	57.92	53.04	46.76	39.20	33.26	28.40	23.00	0.00	0.00	0.00	0.00	0.00
270W	73.04	73.76	73.40	71.24	69.08	66.66	62.24	54.10	53.60	47.12	39.20	33.08	28.40	23.18	0.00	0.00	0.00	0.00	0.00
275W	74.12	74.48	73.58	71.42	68.00	66.20	62.78	58.82	54.14	47.12	39.02	33.08	28.40	23.90	0.00	0.00	0.00	0.00	0.00
280W	73.40	74.12	73.58	71.96	69.26	66.74	63.32	59.72	54.50	46.94	38.44	32.72	28.22	24.08	0.00	0.00	0.00	0.00	0.00
285W	73.58	74.30	74.12	72.14	69.00	67.20	63.04	59.20	54.00	46.94	38.44	32.72	28.22	24.44	0.00	0.00	0.00	0.00	0.00
290W	73.76	74.48	74.48	72.86	70.52	68.00	64.58	60.62	55.04	46.76	37.74	32.00	28.04	23.90	0.00	0.00	0.00	0.00	0.00
295W	73.76	74.48	75.38	74.48	70.70	68.54	65.12	63.60	55.04	46.76	37.44	31.82	27.42	23.00	0.00	0.00	0.0		

TABLE 1R SURFACE MEAN DEW-POINT TEMPERATURE VALUES (F)-APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905	
0	75.02	73.76	71.60	67.10	63.50	61.70	57.70	55.40	50.00	42.80	35.60	29.30	23.90	17.60	-13.00	0.00	0.00	0.00	-78.70	
5N	75.56	73.40	70.88	67.10	63.50	61.70	59.00	55.40	50.00	42.80	35.60	29.30	24.26	17.42	-13.00	-56.20	-74.20	-76.00	-79.70	
10N	75.92	72.88	69.40	66.74	63.48	61.70	59.36	55.40	50.18	42.80	35.78	29.30	23.90	17.24	-9.40	-41.80	-67.00	-74.20	-78.70	
15N	75.92	72.50	69.80	67.10	64.76	62.60	59.40	54.32	50.36	43.16	36.14	29.30	23.90	16.70	-4.00	-36.40	0.00	-72.40	-78.70	
20N	75.92	72.68	70.70	68.72	66.56	63.86	60.26	54.66	50.34	43.16	36.32	29.30	23.72	15.80	-0.40	-23.80	-56.20	-72.40	-78.70	
25N	76.10	73.94	72.14	70.10	68.36	65.12	61.52	56.84	0.00	43.70	36.68	29.66	23.72	14.90	-0.40	-18.40	-43.60	-70.60	-78.70	
30N	75.56	74.30	73.76	72.14	69.80	67.10	61.88	57.38	51.08	44.24	37.04	30.20	23.00	14.00	1.40	-13.00	-40.00	-68.80	-78.70	
35N	73.80	73.76	73.76	73.40	71.96	68.36	63.50	57.74	51.08	44.60	37.40	30.20	23.00	13.82	1.40	-13.00	-38.20	-67.00	-78.70	
40N	73.80	71.60	64.04	71.60	71.60	68.90	64.04	57.92	51.44	44.96	37.76	30.74	23.90	12.20	1.40	-13.00	-38.20	-63.80	-78.70	
45N	74.12	73.52	72.50	71.60	61.16	64.94	63.32	57.74	51.26	45.16	38.66	31.82	24.62	10.40	-0.40	-13.00	-38.20	-61.60	-78.70	
50N	74.30	76.10	72.68	65.48	64.22	59.90	59.90	57.56	51.80	45.50	39.20	32.54	25.16	10.40	-0.40	-14.80	-38.20	-61.60	-78.70	
55N	74.12	74.30	72.68	68.00	64.04	62.60	57.20	55.40	51.44	45.50	40.10	35.24	27.68	10.40	-4.00	-20.20	-38.20	-61.60	-78.70	
60N	73.80	74.56	71.60	70.52	68.00	61.16	56.46	53.96	50.36	44.60	40.28	35.06	29.30	15.80	-11.20	-25.60	-40.00	-61.60	-78.70	
65N	73.80	74.30	72.66	64.76	53.60	47.30	52.16	49.64	46.04	40.46	39.56	36.14	31.82	21.20	-22.00	-41.80	-41.80	-61.60	-78.70	
70N	73.04	73.94	72.50	57.20	50.00	51.04	44.20	32.90	32.90	35.06	35.06	32.36	24.44	-7.60	-40.41	-43.60	-61.60	-78.70		
75N	64.04	71.96	64.04	57.20	60.98	58.64	55.04	51.80	50.36	44.40	39.20	35.60	32.54	24.80	5.00	-34.60	-45.00	-61.60	-78.70	
80N	67.82	68.00	66.20	64.76	62.40	60.62	57.74	54.50	51.62	47.66	43.34	37.76	32.72	25.16	10.40	-27.40	-49.00	-61.60	-78.70	
85N	72.48	72.14	68.54	65.84	63.14	61.34	58.64	52.34	48.20	43.34	38.30	33.08	25.34	12.20	-23.80	-49.00	-61.60	-78.70		
90N	71.60	72.14	69.08	66.20	63.48	62.06	57.20	56.12	52.70	47.84	43.52	38.30	33.08	25.16	14.00	-22.00	-49.00	-61.60	-78.70	
95N	71.24	73.94	69.08	68.38	64.40	62.24	59.36	56.66	52.70	48.20	43.70	38.48	33.26	25.16	14.00	-22.00	-49.00	-61.60	-78.70	
100N	71.24	71.96	68.90	66.74	64.94	62.60	59.00	57.02	52.88	48.20	43.70	38.48	33.08	25.16	13.82	-22.00	-47.20	-61.60	-78.70	
105N	71.24	69.80	67.82	66.56	64.94	63.32	60.44	57.20	53.04	48.92	43.52	38.30	33.44	24.80	10.40	-22.00	-43.60	-50.00	-78.70	
110N	71.24	69.44	67.44	66.74	65.30	64.22	61.34	57.56	53.66	48.92	43.52	38.48	33.44	24.80	10.40	-22.00	-41.80	-50.00	-78.70	
115N	71.78	69.44	67.44	66.56	65.84	64.76	61.88	58.10	53.60	48.74	43.52	38.30	33.08	24.80	13.64	-23.80	-40.00	-50.00	-78.70	
120N	71.96	69.44	67.44	67.10	66.20	65.30	63.14	58.28	53.60	48.92	43.70	38.48	33.26	24.80	10.40	-22.00	-39.20	-52.00	-78.70	
125N	72.32	69.80	68.00	67.64	67.64	66.20	63.32	58.28	53.94	49.10	43.52	38.44	33.44	24.80	10.40	-22.00	-39.20	-49.00	-78.70	
130N	72.68	70.70	70.70	70.70	69.26	66.74	63.50	58.28	53.94	49.10	43.52	38.44	33.44	24.80	10.40	-18.40	-20.20	-47.20	-78.70	
135N	73.04	73.04	73.04	72.68	69.80	66.74	63.14	58.10	53.78	48.92	43.52	38.66	33.26	24.80	10.40	-20.20	-18.40	-45.00	-78.70	
140N	73.00	74.48	75.56	74.12	70.34	66.74	62.60	57.20	53.78	48.74	43.52	38.64	33.08	24.80	10.40	-18.40	-20.20	-41.80	-78.70	
145N	73.80	74.84	76.10	74.30	70.34	66.92	61.88	57.92	53.60	49.10	48.52	43.84	33.44	24.80	10.40	-16.60	-18.40	-41.80	-78.70	
150N	73.80	74.84	76.10	74.48	70.70	66.20	61.34	57.20	53.60	49.10	48.70	43.84	33.44	24.80	10.40	-13.00	-18.40	-40.00	-78.70	
155N	74.12	74.84	76.10	74.48	70.70	65.66	60.08	57.20	53.60	49.10	48.70	43.84	33.44	24.80	10.40	-14.80	-18.40	-40.00	-78.70	
160N	74.12	74.84	75.74	74.48	71.24	65.30	60.44	56.84	53.60	49.10	48.70	43.70	39.20	33.44	24.80	10.40	-13.00	-18.40	-40.00	-78.70
165N	74.30	74.48	74.66	74.12	71.24	65.12	60.44	56.66	53.60	49.28	43.70	39.20	33.44	24.80	10.40	-13.00	-18.40	-40.00	-78.70	
170N	74.48	74.84	74.66	74.30	71.60	65.48	60.08	56.66	53.60	49.10	48.46	39.20	33.44	24.80	10.40	-13.00	-18.40	-40.00	-78.70	
175N	74.88	75.56	75.56	75.38	71.24	64.94	59.00	56.30	53.60	49.28	43.88	39.20	33.08	24.80	10.40	-11.20	-18.40	-41.80	-78.70	
180N	74.84	75.74	75.74	75.20	71.06	64.76	59.72	56.12	53.24	49.46	43.70	39.20	32.90	24.62	10.40	-9.40	-18.40	-43.60	-78.70	
175E	75.56	75.92	75.92	74.84	71.06	64.94	59.00	56.12	54.50	49.46	43.10	38.88	39.20	32.90	24.26	8.60	-11.20	-18.40	-45.00	-78.70
170E	76.64	76.10	75.56	74.12	70.70	65.30	60.44	56.66	49.46	42.80	43.70	39.20	32.54	23.00	6.80	-13.00	-22.00	-58.00	-78.70	
165E	76.64	75.74	74.30	72.86	69.40	65.30	61.34	56.66	50.36	46.00	42.44	38.66	32.76	22.10	-2.20	-22.00	-25.60	-58.00	-78.70	
160E	76.64	74.66	74.44	73.40	69.80	65.30	61.88	57.56	51.08	45.32	40.44	37.04	31.64	21.20	-11.20	0.00	-36.20	0.00	0.00	
155E	75.92	74.30	75.56	75.38	69.80	65.48	60.44	57.92	52.70	44.60	39.56	35.78	30.74	19.94	-18.40	0.00	0.00	0.00	0.00	
150E	75.56	75.56	75.38	75.38	69.80	65.40	61.16	57.20	52.70	43.52	38.66	34.88	29.12	17.60	0.00	0.00	0.00	0.00	0.00	
145E	75.38	68.00	75.56	69.80	57.20	41.90	46.00	45.50	50.54	42.98	38.66	34.70	28.40	16.70	0.00	0.00	0.00	0.00	0.00	
140E	75.56	67.10	73.94	65.30	51.08	41.90	43.52	47.30	50.36	42.80	38.48	34.52	27.86	14.36	0.00	0.00	0.00	0.00	0.00	
135E	75.56	74.66	72.86	57.56	42.80	40.46	42.80	54.14	50.36	43.16	38.66	33.80	26.24	14.00	0.00	0.00	0.00	0.00	0.00	
130E	75.56	74.66	73.40	57.74	40.46	38.84	45.90	54.32	50.90	45.32	38.66	33.80	25.34	13.82	0.00	0.00	0.00	0.00	0.00	
125E	74.84	74.30	73.40	67.10	66.58	37.76	46.00	53.94	52.30	45.32	38.66	33.26	24.80	10.40	0.00	0.00	0.00	0.00	0.00	
120E	74.12	73.04	72.14	70.70	57.20	38.84	46.94	53.06	53.06	45.68	39.20	33.08	24.80	8.60	0.00	0.00	0.00	0.00	0.00	
115E	74.10	73.94	73.04	71.06	61.70	53.60	53.94	57.92	52.70	45.86	38.44	32.90	24.84	8.60	0.00	0.00	0.00	0.00	0.00	
110E	75.38	74.66	75.20	73.40	68.00	64.40	61.34	57.20	51.08	44.96	38.30	32.90	24.84	8.60	0.00	0.00	0.00	0.00	0.00	
105E	75.02	71.96	76.10	74.12	69.26	65.48	61.16	56.30	50.00	43.16	37.00	32.36	23.54	8.60	0.00	0.00	0.00	0.00	0.00	
100E	74.84	74.66	76.10	72.50	68.72	64.94	60.44	54.86	49.46	42.44	36.32	32.00	24.24	10.40	0.00	0.00	0.00	0.00	0.00	
95E	74.12	74.66	75.20	71.06	68.00	63.86	59.00	54.50	48.92	41.90	35.78	31.82	23.90	10.40	0.00	0.00	0.00	0.00	0.00	
90E	74.30	73.40	73.40	70.70	67.28	63.32	59.54	54.50	48.74	41.54	35.24	31.64	23.90	14.00	0.00	0.00	0.00	0.00	0.00	
85E	74.30	73.40	72.50	70.70	67.10	61.32	59.54	54.68	48.74	41.00	34.48	31.46	23.90	14.36	0.00	0.00	0.00	0.00	0.00	
80E	74.84	73.40	72.32	70.70	67.28	63.68	59.72	54.68	49.10	40.64	35.24	31.28	24.08	14.90	0.00	0.00	0.00	0.00	0.00	
75E	74.84	73.30	72.32	71.06	67.46	63.68	59.72	55.40	49.64	40.64	34.70	31.10	24.08	15.44	0.00	0.00	0.00	0.00	0.00	
70E	75.56	75.20	73.76	71.60	68.00	64.04	59.00	55.76	49.64	40.64	34.88	31.92	24.08	15.08	0.00	0.00	0.00	0.00	0.00	
65E	75.02	75.74	75.20	72.50	68.00	64.40	60.26	56.12	50.00	41.00	34.70	30.74	23.72	14.00						

TABLE 10 SURFACE MEAN DEW-POINT TEMPERATURE VALUES (F) - JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	67.44	65.30	62.78	61.25	57.92	55.40	52.98	50.18	44.24	36.68	29.30	22.10	14.00	2.48	-18.40	0.00	0.00	0.00	-80.50
5N	67.42	65.48	63.32	60.78	55.10	55.40	52.70	50.00	44.24	36.68	29.30	21.92	13.44	1.54	-20.20	-24.20	-29.40	-77.80	-80.50
25N	71.06	69.76	67.46	65.12	62.60	59.00	54.68	50.72	44.60	37.04	29.12	20.30	11.48	0.68	-11.56	-25.60	-54.40	-68.80	-80.50
30N	71.24	69.84	67.72	65.56	63.68	60.62	55.94	51.08	44.60	37.40	29.38	20.12	11.12	0.68	-10.48	-21.28	-47.20	-67.00	-80.50
35N	71.24	69.72	67.90	65.30	61.70	56.30	51.44	44.60	37.40	29.48	19.76	10.54	0.50	-10.12	-20.20	0.00	-65.20	-80.50	
40N	71.06	69.86	67.82	65.86	63.50	62.42	57.56	51.62	44.60	37.58	30.20	20.12	10.54	0.32	-10.12	-20.02	-23.80	-63.40	-80.50
45N	73.44	68.20	66.00	64.40	60.54	60.80	58.64	51.62	44.60	37.94	31.28	21.74	11.66	0.50	-10.12	-20.38	-38.20	-61.60	-80.50
50N	72.12	73.40	64.04	56.48	55.40	49.10	52.88	50.36	44.42	38.30	32.54	24.26	14.00	0.68	-11.20	-22.00	-40.00	-59.80	-80.50
55N	71.78	71.96	63.48	59.54	56.30	53.78	49.64	46.22	43.16	38.30	33.62	26.60	16.70	2.30	-13.00	-20.20	-41.80	-59.80	-80.50
60N	71.06	71.96	65.12	62.60	57.92	50.72	45.32	44.60	39.56	36.32	33.98	28.76	20.12	5.18	-16.24	-36.40	-43.60	-58.00	-80.50
65N	72.12	72.32	67.28	59.00	46.40	38.30	36.68	37.76	35.24	32.54	37.90	33.80	23.00	9.32	-22.00	-43.60	-47.20	-59.80	-80.50
70N	72.48	71.96	64.40	47.30	50.00	41.00	45.50	42.44	28.76	26.60	27.32	30.20	24.80	12.56	-16.26	-41.80	-47.20	-59.80	-80.50
75N	59.16	68.72	60.42	50.00	54.84	52.70	49.10	46.04	43.70	40.10	33.98	32.90	25.70	14.00	-9.00	-40.00	-49.00	-59.80	-80.50
80N	68.54	64.98	62.42	57.56	57.92	54.50	49.64	46.40	43.70	21.00	37.44	32.90	26.60	15.08	-5.80	-38.20	-49.00	-59.80	-80.50
85N	69.08	66.74	62.78	58.10	55.24	54.86	50.34	47.12	44.04	21.00	37.40	33.44	27.32	15.80	-4.00	-36.40	-49.00	-61.60	-80.50
90N	67.46	65.48	62.78	58.64	56.18	55.76	51.62	48.02	44.60	41.36	37.40	33.62	27.50	15.80	-2.74	-34.60	-49.00	-61.60	-80.50
95N	66.92	65.12	63.14	61.34	57.20	56.30	52.34	48.74	44.96	41.54	37.40	33.62	27.68	15.80	-1.84	-32.80	-49.00	-61.60	-80.50
100N	67.44	65.12	63.68	62.06	60.78	57.02	53.26	49.64	45.32	41.72	37.40	33.44	27.68	15.80	-0.40	-31.00	-49.00	-59.80	-80.50
105N	67.42	66.20	65.30	63.86	61.62	57.92	54.32	50.00	45.68	41.90	37.58	33.62	27.50	15.62	-0.40	-31.00	-49.00	-59.80	-80.50
110N	69.44	66.92	65.66	65.12	62.60	58.82	54.68	50.54	45.86	41.72	37.40	33.62	27.32	15.62	-0.40	-31.00	-49.00	-59.80	-80.50
115N	69.98	67.28	66.20	65.12	63.68	60.08	55.40	50.90	46.22	41.72	37.40	33.62	27.32	15.44	-0.40	-29.20	-49.00	-59.80	-80.50
120N	70.70	67.64	66.92	65.48	64.58	60.62	55.76	51.08	46.40	41.72	37.40	33.26	27.14	15.44	-0.40	-29.20	-47.20	-59.80	-80.50
125N	70.70	68.72	68.36	67.46	64.94	60.98	55.94	50.90	46.40	41.72	37.40	33.44	26.78	15.08	-0.04	-27.40	-47.20	-59.80	-80.50
130N	70.88	69.80	69.80	68.54	65.30	61.16	55.76	50.72	46.04	41.54	37.40	33.08	26.40	15.80	-0.14	-25.60	-47.20	-59.80	-80.50
135N	70.88	70.88	71.24	69.44	65.48	60.80	55.40	50.36	45.68	41.54	37.22	33.08	26.42	15.08	-0.04	-23.80	-47.20	-59.80	-80.50
140N	70.88	71.24	73.58	70.52	65.48	60.26	54.50	49.82	45.14	41.00	37.04	33.08	25.88	14.36	-0.40	-22.00	-47.20	-59.80	-80.50
145N	71.06	71.42	73.94	71.06	65.30	59.36	54.10	49.10	44.78	41.00	37.04	33.08	25.88	14.00	-0.40	-22.00	-47.20	-59.80	-80.50
150N	71.24	71.42	74.12	70.88	64.76	58.82	53.42	48.74	44.60	40.86	36.68	33.08	25.70	14.00	-0.40	-21.64	-45.40	-52.60	-80.50
155N	71.24	72.14	74.12	70.52	64.76	58.28	53.06	48.56	44.42	40.64	37.04	33.08	25.34	14.00	-1.48	-20.38	-45.40	-50.80	-80.50
160N	71.24	73.76	74.68	70.52	64.76	58.28	52.88	48.56	44.60	40.82	37.22	33.26	24.98	13.82	-2.20	-20.20	-43.60	-50.80	-80.50
165N	71.78	75.78	74.48	70.52	64.76	58.28	52.88	48.56	44.60	41.00	37.22	33.08	24.98	13.28	-2.56	-18.94	-41.80	-50.80	-80.50
170N	72.50	75.34	74.12	70.34	64.94	58.28	52.70	48.56	44.60	41.18	37.40	33.08	24.80	12.38	-4.00	-18.40	-38.20	-50.80	-80.50
175N	73.04	75.56	73.58	70.52	65.12	58.46	52.70	48.38	44.94	41.18	37.40	33.08	24.80	12.20	-4.72	-17.32	-34.60	-52.60	-80.50
180N	74.30	75.92	73.48	69.48	65.12	58.82	52.88	47.66	43.98	41.00	37.40	33.26	23.90	11.48	-5.88	-17.32	-32.80	-54.40	-80.50
175E	74.66	75.78	73.94	69.44	65.12	59.00	52.88	46.40	40.28	40.28	37.58	33.08	23.36	10.58	-6.88	-17.86	-31.00	-54.40	-80.50
170E	75.02	75.20	71.78	67.46	64.58	58.64	52.88	47.48	41.72	35.60	37.40	33.44	23.00	10.40	-3.40	-20.74	-32.80	-58.00	-80.50
165E	76.28	74.12	69.94	64.58	60.80	57.56	53.06	49.28	43.70	38.30	36.32	33.08	23.00	9.68	-13.36	-31.00	-36.40	-59.80	-80.50
160E	76.44	73.04	69.26	65.12	61.34	57.92	54.14	50.54	45.86	38.66	34.88	32.72	22.82	8.24	-20.20	0.00	-41.80	0.00	0.00
155E	76.10	72.50	71.60	68.54	63.18	57.74	51.44	50.54	46.94	38.66	34.70	32.18	22.10	6.44	-31.00	0.00	0.00	0.00	0.00
150E	75.74	73.98	72.50	69.72	59.36	37.40	38.30	37.22	45.32	37.76	34.52	31.10	21.20	4.10	0.00	0.00	0.00	0.00	0.00
145E	75.34	72.50	71.60	62.60	41.00	32.90	19.70	38.66	43.16	37.58	34.16	30.20	20.48	1.40	0.00	0.00	0.00	0.00	0.00
140E	75.56	71.60	69.80	57.20	39.92	32.90	36.50	42.44	44.60	38.66	34.52	30.02	19.42	-0.76	0.00	0.00	0.00	0.00	0.00
135E	75.56	73.22	69.38	45.50	33.40	31.28	35.60	46.22	45.86	30.92	34.70	29.30	19.04	-2.02	0.00	0.00	0.00	0.00	0.00
130E	75.02	72.32	68.90	48.74	30.74	30.02	34.70	40.20	40.46	34.88	28.94	18.50	-2.20	0.00	0.00	0.00	0.00	0.00	0.00
125E	71.82	72.14	69.80	53.60	34.52	28.40	40.10	50.00	46.94	40.82	35.06	28.40	17.96	-2.02	0.00	0.00	0.00	0.00	0.00
120E	71.82	71.82	69.80	57.46	29.48	39.20	45.40	46.94	40.46	34.70	28.40	17.60	-1.66	0.00	0.00	0.00	0.00	0.00	0.00
115E	73.04	73.04	71.78	68.72	51.80	47.82	47.82	50.54	46.94	40.28	34.34	26.78	17.60	-0.94	0.00	0.00	0.00	0.00	0.00
110E	73.24	72.68	72.68	68.72	59.18	55.94	55.22	51.62	46.04	39.56	33.08	26.24	17.28	-0.40	0.00	0.00	0.00	0.00	0.00
105E	72.32	71.60	74.68	68.90	43.14	58.64	54.68	50.54	45.32	38.66	32.72	25.70	16.88	-3.40	0.00	0.00	0.00	0.00	0.00
100E	71.42	72.32	73.76	68.72	62.06	54.10	53.96	49.66	46.04	37.76	31.10	25.34	16.70	-0.40	0.00	0.00	0.00	0.00	0.00
95E	72.32	72.50	72.32	68.36	62.42	57.38	53.06	49.10	43.52	37.04	30.92	24.80	16.34	-0.40	0.00	0.00	0.00	0.00	0.00
90E	73.40	73.24	71.96	68.00	61.70	56.84	52.70	48.92	43.34	36.68	30.56	24.62	15.80	0.50	0.00	0.00	0.00	0.00	0.00
85E	73.76	72.86	71.78	67.28	61.36	56.66	52.52	48.56	43.34	36.50	30.20	24.26	15.80	2.48	0.00	0.00	0.00	0.00	0.00
80E	73.76	72.68	71.60	66.92	61.34	56.66	52.52	48.56	43.34	35.78	29.48	23.72	15.44	3.20	0.00	0.00	0.00	0.00	0.00
75E	73.76	72.50	71.24	66.92	61.16	56.48	52.52	48.74	43.34	35.60	29.30	23.36	15.08	4.10	0.00	0.00	0.00	0.00	0.00
70E	73.40	72.50	71.42	67.10	60.80	56.46	52.70	48.92	43.52	35.60	29.12	23.00	14.72	3.92	0.00	0.00	0.00	0.00	0.00
65E	73.22	72.50	71.78	68.18	60.80	56.84	53.06	48.92	43.70	35.60	28.94	22.64	14.36	3.20	0.00	0.00	0.00	0.00	0.00
60E	73.04	72.32	71.96	68.72	60.62	57.20	53.60	49.46	43.88	35.60	28.94	22.46	14.30	1.58	0.00	0.00	0.00	0.00	0.00
55E	72.88	71.24	70.88	69.08	61.88	58.10	54.14	49.82	44.24	35.60	28.94	22.28	14.00	1.40	0.00	0.00	0.00	0.00	0.00
50E	72.88	70.34	67.46	62.96	64.76	59.90	54.84	50.00	44.82	35.60	28.94	22.28	14.00	1.40	0.00	0.00	0.00	0.00	0.00
45E	72.14	70																	

TABLE 2A SURFACE MIXING RATIO VALUES (GM/KGM)-JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	19.46	16.86	14.77	13.17	12.43	11.80	11.13	10.42	8.77	4.59	4.91	3.84	3.15	2.59	2.10	0.00	0.00	0.00	0.25
5W	18.99	16.45	14.59	13.08	12.43	11.88	11.35	10.42	8.77	4.55	4.88	3.84	3.17	2.61	2.10	0.00	0.26	0.32	0.25
10W	18.99	16.24	14.40	13.08	12.67	12.03	11.72	10.42	8.89	6.55	4.88	3.84	3.19	2.63	2.13	0.46	0.32	0.32	0.25
15W	19.10	16.24	14.40	13.51	13.42	13.00	11.95	10.84	8.89	6.59	4.88	3.90	3.27	2.65	2.15	0.72	0.00	0.35	0.25
20W	19.10	16.86	15.15	14.59	14.49	13.68	12.35	10.84	8.89	6.44	4.88	3.93	3.29	2.69	2.20	1.30	0.50	0.38	0.25
25W	18.48	17.88	16.45	15.74	15.44	14.40	12.67	10.98	8.89	6.73	4.91	4.04	3.34	2.71	2.24	1.81	0.40	0.38	0.25
30W	18.29	17.55	17.40	16.97	16.55	15.15	12.92	10.98	8.89	4.78	5.09	4.10	3.39	2.73	2.25	1.87	0.72	0.42	0.25
35W	18.29	17.18	17.18	16.06	17.54	16.24	13.34	11.13	8.95	6.92	5.27	4.16	3.47	2.75	2.25	1.90	0.79	0.42	0.25
40W	18.46	14.40	11.88	16.97	17.51	16.65	13.68	11.42	9.19	7.11	5.42	4.28	3.57	2.79	2.25	1.90	0.93	0.42	0.25
45W	18.41	17.51	18.06	16.97	13.17	16.97	14.04	11.80	9.50	7.31	5.62	4.44	3.62	2.85	2.25	1.88	0.93	0.46	0.25
50W	18.52	20.96	17.29	15.58	15.94	12.19	14.49	12.35	10.02	7.61	5.86	4.64	3.79	3.10	2.25	1.85	0.93	0.46	0.25
55W	18.29	20.32	17.51	15.44	14.87	15.94	14.22	12.19	10.28	8.31	6.19	4.65	4.01	3.37	2.27	1.79	0.86	0.46	0.25
60W	18.29	19.10	17.40	16.97	20.45	16.86	13.00	11.65	9.85	8.48	6.50	5.20	4.32	3.54	2.29	1.01	0.79	0.42	0.25
65W	19.22	18.52	17.84	17.08	10.15	8.37	13.25	10.70	9.01	4.55	6.11	5.27	4.51	3.70	2.45	0.60	0.72	0.42	0.25
70W	18.06	18.52	17.40	11.57	11.57	9.25	9.19	8.48	5.98	5.12	5.12	5.05	4.57	3.84	2.65	0.66	0.66	0.46	0.25
75W	10.77	17.40	13.17	12.59	11.35	10.49	9.69	9.13	7.56	6.11	5.12	4.64	3.93	2.77	0.79	0.60	0.42	0.25	
80W	13.95	15.06	14.04	13.51	12.59	11.57	10.84	10.28	9.25	8.09	6.87	5.62	4.70	3.96	2.88	0.79	0.55	0.42	0.25
85W	16.76	15.54	14.40	13.34	12.51	11.72	10.98	10.28	9.31	8.09	6.92	5.70	4.77	3.96	2.99	0.79	0.55	0.42	0.25
90W	16.76	15.25	14.22	13.17	12.51	11.80	11.13	10.28	9.37	8.14	6.87	5.70	4.77	3.96	2.99	0.86	0.55	0.42	0.25
95W	16.76	15.06	14.04	13.34	12.67	12.03	11.27	10.35	9.31	8.09	6.82	5.74	4.78	3.96	2.99	0.81	0.55	0.42	0.25
100W	16.65	14.87	14.22	13.60	13.08	12.51	11.65	10.49	9.25	8.03	6.78	5.66	4.67	3.96	2.99	0.86	0.55	0.46	0.25
105W	16.65	14.77	14.22	13.77	13.40	13.25	12.03	10.84	9.44	7.98	6.78	5.66	4.67	3.93	2.96	0.79	0.60	0.46	0.25
110W	16.65	14.87	14.13	14.13	14.13	13.68	13.15	11.13	9.50	8.03	6.78	5.66	4.70	3.90	2.94	0.86	0.66	0.50	0.25
115W	16.76	14.87	14.68	14.87	14.77	14.13	13.17	11.42	9.63	8.09	6.78	5.66	4.64	3.84	2.90	0.93	0.72	0.50	0.25
120W	16.76	15.15	15.34	15.44	15.34	14.77	13.34	11.65	9.87	8.03	6.78	5.66	4.64	3.79	2.88	1.01	0.86	0.55	0.25
125W	16.86	15.94	15.94	16.04	15.64	15.25	13.60	11.72	9.89	8.09	6.78	5.54	4.60	3.79	2.90	1.10	0.93	0.55	0.25
130W	16.86	16.45	16.45	16.65	16.24	15.34	13.68	11.72	9.95	8.14	6.78	5.54	4.54	3.76	1.97	1.20	0.93	0.55	0.25
135W	16.86	16.55	17.62	17.73	16.65	15.44	13.60	11.72	9.95	8.14	6.78	5.54	4.54	3.76	2.92	1.53	1.01	0.60	0.25
140W	16.86	16.45	18.18	18.29	17.18	15.54	13.60	11.65	9.95	8.20	6.78	5.54	4.57	3.70	2.92	1.87	1.10	0.66	0.25
145W	16.86	16.45	17.84	18.52	17.40	15.64	13.51	11.57	9.89	8.25	6.82	5.54	4.51	3.68	2.94	1.97	1.20	0.66	0.25
150W	16.76	16.45	17.62	17.51	17.40	15.84	13.51	11.57	9.89	8.31	6.87	5.54	4.57	3.68	2.94	2.08	1.30	0.66	0.25
155W	16.65	16.45	18.29	18.87	17.62	15.84	13.42	11.50	9.95	8.31	6.87	5.66	4.57	3.70	2.99	2.20	1.30	0.72	0.25
160W	18.06	17.84	18.64	18.64	17.62	15.54	13.25	11.50	10.02	4.42	6.06	5.70	4.60	3.73	3.08	2.29	1.41	0.72	0.25
165W	18.52	18.52	18.75	18.52	17.62	15.25	13.00	11.50	9.95	8.42	7.11	5.82	4.67	3.79	3.17	2.40	1.53	0.72	0.25
170W	17.73	18.64	18.99	18.64	17.51	14.87	12.75	11.42	9.95	8.54	7.11	5.90	4.77	3.84	3.27	2.51	1.66	0.72	0.25
175W	18.18	19.22	19.58	19.34	17.18	14.31	12.35	11.13	10.08	8.48	7.21	5.98	4.84	3.93	3.12	2.55	3.60	0.72	0.25
180W	18.52	19.46	19.95	19.34	16.55	14.04	11.88	11.50	10.04	8.54	7.26	6.02	4.84	3.98	3.32	2.59	1.87	0.72	0.25
-175E	18.99	19.70	19.70	18.06	16.04	14.04	11.95	10.15	8.54	8.37	7.31	6.02	4.84	3.93	3.32	2.57	1.90	0.66	0.25
-170E	19.46	19.83	19.34	17.73	15.94	14.22	13.08	10.35	8.31	6.78	7.26	6.02	4.77	3.93	3.27	2.47	1.93	0.60	0.25
-165E	19.95	19.70	18.64	17.51	16.55	14.96	13.25	11.05	8.54	7.01	6.92	5.98	4.70	3.84	2.77	2.13	1.88	0.66	0.25
-160E	19.25	19.34	17.40	18.41	17.18	15.54	13.68	11.88	8.83	6.50	6.06	5.66	4.64	3.79	2.20	0.00	1.66	0.00	0.00
-155E	19.83	18.90	19.58	19.46	17.40	15.44	13.60	11.95	8.89	6.28	5.54	5.20	4.51	3.65	1.66	0.00	0.00	0.00	0.00
-150E	19.10	19.58	19.34	19.58	17.08	9.63	9.01	9.50	8.89	6.15	5.35	4.81	4.19	3.39	0.00	0.00	0.00	0.00	0.00
-145E	18.99	16.04	19.77	17.95	13.68	9.25	8.20	7.26	7.77	6.28	5.23	4.57	3.96	3.08	0.00	0.00	0.00	0.00	0.00
-140E	18.99	15.54	19.83	18.06	13.51	7.21	7.16	7.26	7.56	6.15	5.12	4.32	3.70	2.90	0.00	0.00	0.00	0.00	0.00
-135E	19.46	18.75	19.58	16.97	9.31	6.68	6.46	8.95	7.31	5.98	4.98	4.22	3.49	2.77	0.00	0.00	0.00	0.00	0.00
-130E	19.46	18.64	19.34	17.18	8.89	6.32	6.68	9.13	7.56	4.06	4.95	4.16	3.44	2.67	0.00	0.00	0.00	0.00	0.00
-125E	18.99	18.64	18.41	19.34	9.40	5.40	7.34	9.13	8.03	4.24	4.95	4.01	3.32	2.65	0.00	0.00	0.00	0.00	0.00
-120E	18.76	17.73	18.41	19.46	16.14	5.78	7.46	9.25	8.31	6.55	5.02	4.01	3.32	2.63	0.00	0.00	0.00	0.00	0.00
-115E	17.73	18.18	19.34	16.24	14.96	11.57	10.28	10.08	8.48	6.73	5.12	3.98	3.29	2.65	0.00	0.00	0.00	0.00	0.00
-110E	18.29	18.29	19.58	17.40	14.94	13.34	11.05	10.22	8.59	6.87	5.12	4.04	3.29	2.65	0.00	0.00	0.00	0.00	0.00
-105E	18.41	17.29	19.58	16.24	15.15	13.60	12.03	10.28	8.59	6.92	5.12	4.04	3.32	2.65	0.00	0.00	0.00	0.00	0.00
-100E	17.29	17.95	18.52	16.76	15.25	13.68	12.03	10.35	8.65	6.92	5.12	4.07	3.32	2.65	0.00	0.00	0.00	0.00	0.00
-95E	17.51	18.29	18.06	16.65	15.25	13.68	12.03	10.42	8.71	6.87	5.12	4.04	3.32	2.65	0.00	0.00	0.00	0.00	0.00
-90E	17.84	18.29	18.06	16.76	15.54	13.77	12.19	10.49	8.89	6.96	5.12	4.01	3.32	2.67	0.00	0.00	0.00	0.00	0.00
-85E	18.52	18.75	18.18	16.86	15.44	14.04	12.43	10.77	9.07	6.96	5.09	4.01	3.32	2.75	0.00	0.00	0.00	0.00	0.00
-80E	18.06	18.52	18.18	17.18	15.64	14.31	12.67	11.13	9.19	6.92	5.05	3.96	3.29	2.77	0.00	0.00	0.00	0.00	0.00
-75E	18.18	18.64	18.52	17.29	15.94	14.59	12.92	11.27	9.25	6.87	4.88	3.90	3.29	2.81	0.00	0.00	0.00	0.00	0.00
-70E	18.29	18.75	18.75	17.73	16.34	14.96	13.25	11.50	9.37	6.87	4.84	3.84	3.27	2.75	0.00	0.00	0.00	0.00	0.00
-65E	18.29	18.75	19.34	18.75	16.45	15.25	13.51	9.89	9.37	6.87	4.70	3.81	3.17	2.65	0.00	0.00	0.00	0.00	0.00
-60E	18.06	18.47	19.70	19.58	16.76	15.44	13.68	11.65	9.31	6.87	4.67	3.79	3.10	2.53	0.00	0.00	0.00	0.00	0.00
-55E	17.73	18.64	19.46	19.70	17.51	16.65	14.04	11.72	9.25	6.78	4.64	3.76	3.05	2.43	0.00	0.00	0.00	0.00	0.00
-50E	17.84	18.29	18.75	16.97	18.64	16.34	14.59	11.88	9.37	6.73	4.60	3.73	2.99	2.36	0.00	0.00	0.00	0.00	0.00
-45E	17.																		

TABLE 2H 850-MH MIXING RATIO VALUES (GM/KGM)-JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	11.80	10.00	8.26	6.95	6.16	5.66	5.31	4.90	4.42	3.88	3.28	2.80	2.38	1.97	1.57	0.00	0.00	0.00	0.00
5W	11.13	9.22	7.82	6.95	6.34	5.86	5.50	5.08	4.52	3.90	3.33	2.84	2.43	2.01	1.61	0.00	0.00	0.00	0.00
10W	10.81	8.70	7.71	7.00	6.48	6.08	5.70	5.23	4.62	3.99	3.38	2.88	2.47	2.06	1.65	0.00	0.00	0.00	0.00
15W	10.81	8.85	7.82	7.14	6.66	6.30	5.91	5.42	4.73	4.02	3.44	2.93	2.51	2.09	1.69	0.00	0.00	0.00	0.00
20W	11.20	9.28	8.09	7.40	6.95	6.57	6.21	5.66	4.86	4.08	3.46	2.97	2.55	2.15	1.73	0.00	0.00	0.00	0.00
25W	12.05	9.80	8.49	7.76	7.40	7.04	6.61	5.95	5.04	4.18	3.49	3.00	2.57	2.18	1.77	0.00	0.00	0.00	0.00
30W	12.29	10.06	8.79	8.32	8.09	7.76	7.14	6.25	5.19	4.17	3.51	3.02	2.61	2.20	1.80	0.00	0.00	0.00	0.00
35W	12.13	10.06	8.79	8.97	9.09	8.67	7.76	6.57	5.31	4.23	3.51	3.04	2.63	2.23	1.83	0.00	0.00	0.00	0.00
40W	11.97	10.34	9.80	10.13	10.34	9.66	8.38	6.85	5.38	4.23	3.51	3.07	2.67	2.27	1.84	0.00	0.00	0.00	0.00
45W	11.97	11.05	11.05	11.58	11.66	10.62	8.91	7.09	5.46	4.23	3.51	3.07	2.67	2.27	1.84	0.00	0.00	0.00	0.00
50W	12.21	12.13	12.37	12.67	12.62	11.43	9.15	7.19	5.50	4.26	3.51	3.09	2.73	2.32	1.87	0.00	0.00	0.00	0.00
55W	12.42	12.79	13.13	13.39	12.87	11.43	9.28	7.19	5.46	4.26	3.57	3.16	2.74	2.34	1.87	0.00	0.00	0.00	0.00
60W	12.29	12.87	13.39	13.65	12.95	11.43	9.28	7.09	5.34	4.20	3.62	3.23	2.84	2.36	1.87	0.00	0.00	0.00	0.00
65W	11.86	12.62	13.39	12.45	10.36	8.79	7.66	6.30	4.94	4.08	3.65	3.33	2.91	2.49	1.87	0.00	0.00	0.00	0.00
70W	11.20	12.45	12.45	10.06	7.19	5.82	5.86	5.27	4.56	4.02	3.76	3.44	2.95	2.40	1.87	0.00	0.00	0.00	0.00
75W	11.13	11.97	11.28	8.61	6.93	4.08	5.12	5.08	4.69	4.26	3.93	3.51	2.95	2.40	1.87	0.00	0.00	0.00	0.00
80W	11.05	11.05	9.93	7.98	6.43	5.74	5.75	5.54	5.04	4.56	4.05	3.51	2.93	2.38	1.89	0.00	0.00	0.00	0.00
85W	10.49	10.00	8.73	7.50	6.66	6.30	6.12	5.78	5.23	4.59	4.02	3.46	2.91	2.38	1.89	0.00	0.00	0.00	0.00
90W	10.34	9.15	8.04	7.24	2.91	6.66	6.30	5.91	5.27	4.59	4.02	3.46	2.91	2.40	1.90	0.00	0.00	0.00	0.00
95W	10.13	8.67	7.66	7.19	2.82	6.05	6.57	5.99	5.31	4.62	4.02	3.46	2.91	2.40	1.93	0.00	0.00	0.00	0.00
100W	10.06	8.83	7.55	7.29	2.73	7.14	6.71	6.03	5.31	4.59	4.02	3.46	2.91	2.40	1.95	0.00	0.00	0.00	0.00
105W	9.93	8.32	7.55	7.50	2.65	7.35	6.80	6.08	5.31	4.59	4.02	3.46	2.91	2.40	1.95	0.00	0.00	0.00	0.00
110W	9.53	8.21	7.61	7.76	2.55	7.45	6.85	6.08	5.31	4.59	4.02	3.46	2.91	2.41	1.97	0.00	0.00	0.00	0.00
115W	9.09	8.26	7.98	8.09	2.47	7.61	6.90	6.08	5.31	4.59	4.02	3.46	2.91	2.41	1.99	0.00	0.00	0.00	0.00
120W	8.85	8.32	8.32	8.38	2.40	7.76	7.00	6.12	5.31	4.59	4.02	3.46	2.93	2.43	1.98	0.00	0.00	0.00	0.00
125W	8.85	8.56	8.61	8.73	2.30	7.93	7.03	6.12	5.31	4.59	4.02	3.46	2.93	2.43	2.00	0.00	0.00	0.00	0.00
130W	8.65	8.79	8.97	9.03	2.23	8.04	7.14	6.16	5.31	4.59	4.02	3.46	2.93	2.43	2.01	0.00	0.00	0.00	0.00
135W	8.67	9.03	9.41	9.47	2.15	8.21	7.19	6.12	5.31	4.59	4.02	3.46	2.93	2.45	2.01	0.00	0.00	0.00	0.00
140W	8.55	9.28	9.93	10.00	2.03	8.43	7.29	6.21	5.31	4.59	4.02	3.46	2.93	2.45	2.01	0.00	0.00	0.00	0.00
145W	8.61	9.60	10.41	10.55	1.93	8.67	7.35	6.21	5.27	4.56	4.02	3.46	2.93	2.45	2.01	0.00	0.00	0.00	0.00
150W	8.85	9.86	10.69	10.91	1.86	8.85	7.40	6.16	5.27	4.56	4.02	3.46	2.95	2.45	2.01	0.00	0.00	0.00	0.00
155W	9.22	10.13	10.98	11.20	1.80	9.03	7.85	6.16	5.27	4.56	4.02	3.46	2.95	2.45	2.00	0.00	0.00	0.00	0.00
160W	9.66	10.41	11.28	11.58	1.74	9.09	7.85	6.16	5.23	4.52	4.02	3.46	2.93	2.45	1.97	0.00	0.00	0.00	0.00
165W	10.00	10.62	11.58	11.97	1.70	9.09	7.80	6.12	5.19	4.49	3.96	3.46	2.93	2.43	1.93	0.00	0.00	0.00	0.00
170W	10.13	10.83	11.97	12.37	1.66	9.09	7.35	6.08	5.15	4.46	3.96	3.46	2.93	2.40	1.89	0.00	0.00	0.00	0.00
175W	10.20	11.13	12.29	12.70	1.63	9.09	7.29	6.03	5.12	4.46	3.96	3.46	2.91	2.38	1.81	0.00	0.00	0.00	0.00
180W	10.42	11.50	12.70	12.87	1.65	9.03	7.24	6.08	5.19	4.49	3.96	3.44	2.86	2.27	1.78	0.00	0.00	0.00	0.00
-175E	11.13	12.05	12.95	12.79	1.70	8.79	7.24	6.16	5.27	4.59	4.02	3.44	2.80	2.18	1.65	0.00	0.00	0.00	0.00
-170E	11.66	12.54	13.13	12.37	1.80	8.55	7.19	6.21	5.38	4.66	4.05	3.41	2.73	2.06	1.55	0.00	0.00	0.00	0.00
-165E	11.89	12.79	12.87	11.73	1.92	8.38	7.24	6.30	5.42	4.69	4.02	3.33	2.63	1.97	1.47	0.00	0.00	0.00	0.00
-160E	11.97	12.62	12.29	11.05	2.00	8.38	7.29	6.30	5.38	4.59	3.90	3.21	2.51	1.86	1.39	0.00	0.00	0.00	0.00
-155E	12.05	12.21	11.66	10.69	2.00	8.43	7.19	6.12	5.15	4.39	3.73	3.07	2.38	1.76	1.32	0.00	0.00	0.00	0.00
-150E	12.05	11.73	11.28	10.76	1.95	8.26	6.76	5.62	4.79	4.14	3.54	2.91	2.29	1.66	1.00	0.00	0.00	0.00	0.00
-145E	12.13	11.43	11.28	11.05	1.97	7.61	6.05	4.97	4.39	3.90	3.36	2.75	2.13	1.59	0.00	0.00	0.00	0.00	0.00
-140E	11.97	11.43	11.35	10.98	1.93	6.61	5.08	4.46	4.11	3.73	3.21	2.63	2.03	1.54	0.00	0.00	0.00	0.00	0.00
-135E	11.97	11.43	11.43	10.55	1.91	5.91	4.40	4.20	3.96	3.59	3.09	2.53	1.97	1.50	0.00	0.00	0.00	0.00	0.00
-130E	11.73	11.50	11.35	10.20	1.82	5.82	4.76	4.23	3.93	3.58	3.00	2.45	1.93	1.50	0.00	0.00	0.00	0.00	0.00
-125E	11.43	11.50	11.35	10.00	1.72	6.12	5.08	4.39	3.93	3.49	2.93	2.41	1.92	1.50	0.00	0.00	0.00	0.00	0.00
-120E	11.20	11.50	11.20	9.66	1.71	6.30	5.31	4.52	3.96	3.44	2.88	2.36	1.90	1.52	0.00	0.00	0.00	0.00	0.00
-115E	11.05	11.43	11.35	9.34	1.70	6.25	5.34	4.56	3.96	3.41	2.84	2.32	1.90	1.53	0.00	0.00	0.00	0.00	0.00
-110E	10.98	11.43	10.91	9.15	1.70	6.12	5.27	4.56	3.96	3.38	2.80	2.29	1.89	1.55	0.00	0.00	0.00	0.00	0.00
-105E	10.98	11.43	10.83	9.09	1.70	6.12	5.05	4.59	3.99	3.36	2.75	2.25	1.89	1.57	0.00	0.00	0.00	0.00	0.00
-100E	11.05	11.43	10.91	9.28	1.75	6.25	5.38	4.66	3.99	3.33	2.71	2.21	1.87	1.57	0.00	0.00	0.00	0.00	0.00
-95E	11.28	11.58	10.98	9.47	1.77	6.52	5.54	4.76	4.02	3.31	2.67	2.20	1.86	1.57	0.00	0.00	0.00	0.00	0.00
-90E	11.43	11.73	11.13	9.66	1.85	6.80	5.74	4.86	4.05	3.28	2.63	2.16	1.84	1.55	0.00	0.00	0.00	0.00	0.00
-85E	11.50	11.80	11.28	9.86	1.82	7.04	5.91	4.97	4.08	3.26	2.59	2.15	1.83	1.54	0.00	0.00	0.00	0.00	0.00
-80E	11.50	11.97	11.43	10.00	1.84	7.19	6.03	5.04	4.11	3.26	2.57	2.13	1.81	1.53	0.00	0.00	0.00	0.00	0.00
-75E	11.50	12.05	11.58	10.27	1.83	7.35	6.12	5.12	4.17	3.26	2.57	2.11	1.80	1.52	0.00	0.00	0.00	0.00	0.00
-70E	11.58	12.13	11.81	10.62	1.83	7.55	6.30	5.19	4.20	3.28	2.57	2.09	1.79	1.50	0.00	0.00	0.00	0.00	0.00
-65E	11.73	12.13	12.05	10.98	1.81	7.87	6.88	5.19	4.26	3.33	2.69	2.11	1.77	1.49	0.00	0.00	0.00	0.00	0.00
-60E	11.66	12.13	12.21	11.50	1.86	8.38	6.80	5.46	4.36	3.38	2.63	2.13	1.79	1.49	0.00	0.00	0.00	0.00	0.00
-55E	11.43	12.05	12.37	12.05	1.83	9.09	7.29	5.70	4.46	3.46	2.69	2.16	1.80	1.50	0.00	0.00	0.00	0.00	0.00
-50E	11.43	11.73	12.37	12.37	1.83	9.73	7.82	6.03	4.59	3.70	2.75	2.21	1.84	1.53	0.00	0.00	0.00	0.00	0.00
-45E	10.62	11.50	12.37	12.45	1.58	10.06	8.21	6.34	4.73	3.59	2.82	2.27	1.89	1.55	0.00	0.00	0.00	0.00	0.00
-40E	10.83	11.66	12.54	12.62	1.73	10.27	8.61	6.61	4.86	3.6									

TABLE 7C 700-HR MIXING RATIO VALUES (GM/KGM)-JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	5.42	4.78	4.45	3.37	2.80	2.56	2.41	2.28	2.17	2.00	1.80	1.57	1.36	1.14	0.99	0.00	0.00	0.00	0.51
5W	4.78	4.18	3.53	3.10	2.40	2.61	2.44	2.33	2.20	2.02	1.81	1.60	1.39	1.16	0.91	0.00	0.56	0.51	0.51
10W	4.60	3.90	3.35	3.00	2.82	2.65	2.50	2.37	2.24	2.05	1.83	1.61	1.42	1.19	0.93	0.71	0.57	0.52	0.51
15W	4.67	3.84	3.30	3.03	2.84	2.71	2.54	2.43	2.28	2.07	1.84	1.64	1.44	1.21	0.96	0.73	0.60	0.52	0.51
20W	4.85	3.90	3.35	3.05	2.80	2.75	2.63	2.44	2.31	2.10	1.87	1.65	1.46	1.24	0.98	0.75	0.60	0.53	0.51
25W	4.96	3.99	3.40	3.12	2.96	2.82	2.71	2.56	2.39	2.13	1.90	1.70	1.50	1.26	1.00	0.77	0.61	0.53	0.51
30W	5.07	4.14	3.53	3.27	3.07	2.93	2.78	2.63	2.43	2.19	1.93	1.72	1.54	1.30	1.03	0.79	0.62	0.54	0.51
35W	5.58	4.66	3.93	3.59	3.35	3.15	2.91	2.71	2.48	2.22	1.97	1.77	1.56	1.32	1.05	0.81	0.64	0.55	0.51
40W	6.13	5.50	4.72	4.53	4.18	3.67	3.17	2.84	2.54	2.26	1.98	1.78	1.59	1.34	1.07	0.83	0.65	0.56	0.51
45W	6.22	6.50	6.54	6.22	5.62	4.57	3.59	2.98	2.61	2.28	2.00	1.80	1.60	1.35	1.09	0.85	0.67	0.56	0.51
50W	6.04	7.38	7.82	7.66	6.88	5.38	3.96	3.15	2.67	2.29	2.02	1.81	1.61	1.36	1.10	0.87	0.68	0.57	0.51
55W	6.13	7.55	8.22	8.10	7.44	6.00	4.40	3.37	2.78	2.33	2.03	1.84	1.63	1.36	1.11	0.89	0.70	0.57	0.51
60W	6.54	7.60	8.28	8.39	7.99	6.74	5.00	3.70	2.89	2.37	2.07	1.90	1.67	1.36	1.12	0.91	0.71	0.58	0.51
65W	6.98	7.88	8.16	7.60	6.64	5.50	4.24	3.30	2.75	2.37	2.15	2.00	1.71	1.36	1.12	0.92	0.73	0.58	0.51
70W	7.19	7.93	7.29	5.70	4.24	3.22	2.54	2.26	2.26	2.28	2.22	2.07	1.74	1.36	1.12	0.93	0.74	0.59	0.51
75W	7.50	7.39	6.19	4.27	2.91	2.17	1.80	1.75	1.98	2.20	2.20	2.05	1.71	1.36	1.13	0.94	0.75	0.60	0.51
80W	7.08	6.40	5.33	3.61	2.73	2.22	1.92	1.89	2.08	2.24	2.19	1.97	1.65	1.35	1.13	0.95	0.75	0.60	0.51
85W	6.27	5.38	4.34	3.37	2.78	2.41	1.33	2.56	2.26	2.28	2.13	1.90	1.63	1.35	1.14	0.96	0.76	0.60	0.51
90W	5.54	4.71	3.96	3.35	2.89	2.61	2.45	2.37	2.35	2.26	2.08	1.86	1.60	1.35	1.14	0.97	0.77	0.60	0.51
95W	5.18	4.47	3.87	3.40	3.13	2.78	2.59	2.48	2.37	2.24	2.05	1.84	1.60	1.35	1.15	0.97	0.77	0.61	0.51
100W	5.15	4.41	3.93	3.48	3.15	2.91	2.71	2.54	2.39	2.20	2.02	1.81	1.59	1.35	1.15	0.98	0.77	0.61	0.51
105W	5.00	4.43	3.99	3.59	3.27	1.03	2.82	2.61	2.41	2.20	2.00	1.80	1.57	1.34	1.15	0.98	0.78	0.61	0.51
110W	4.71	4.37	4.07	3.67	3.37	3.12	2.89	2.65	2.43	2.19	1.98	1.78	1.56	1.34	1.15	0.98	0.78	0.61	0.51
115W	4.47	4.27	4.08	3.78	3.45	3.19	2.93	2.67	2.43	2.19	1.97	1.77	1.56	1.34	1.15	0.98	0.77	0.61	0.51
120W	4.37	4.30	4.21	3.90	3.56	3.27	2.98	2.69	2.43	2.19	1.95	1.75	1.55	1.33	1.15	0.97	0.77	0.61	0.51
125W	4.40	4.47	4.40	4.11	3.70	3.32	3.00	2.69	2.43	2.19	1.95	1.74	1.54	1.33	1.14	0.97	0.77	0.60	0.51
130W	4.43	4.68	4.67	4.37	3.84	3.37	3.00	2.67	2.41	2.17	1.93	1.72	1.52	1.32	1.14	0.96	0.76	0.60	0.51
135W	4.47	4.78	4.92	4.64	4.05	3.45	3.00	2.69	2.37	2.15	1.93	1.72	1.51	1.31	1.13	0.95	0.75	0.60	0.51
140W	4.50	4.81	5.13	4.85	4.24	3.56	3.00	2.69	2.37	2.13	1.92	1.71	1.50	1.30	1.12	0.93	0.75	0.59	0.51
145W	4.53	4.85	5.15	5.11	4.50	3.67	3.03	2.61	2.35	2.13	1.92	1.71	1.50	1.29	1.10	0.92	0.73	0.58	0.51
150W	4.57	4.92	5.34	5.42	4.31	3.78	3.03	2.61	2.35	2.13	1.92	1.71	1.48	1.27	1.08	0.90	0.71	0.58	0.51
155W	4.60	5.00	5.54	5.74	5.03	3.90	3.03	2.59	2.35	2.15	1.93	1.71	1.48	1.26	1.06	0.88	0.70	0.57	0.51
160W	4.67	5.07	5.62	5.87	5.22	3.96	3.00	2.56	2.35	2.17	1.93	1.71	1.47	1.24	1.05	0.85	0.68	0.56	0.51
165W	4.67	5.15	5.74	6.09	5.42	4.02	2.98	2.54	2.37	2.19	1.95	1.71	1.46	1.22	1.02	0.82	0.66	0.56	0.51
170W	4.44	5.24	5.96	6.31	5.54	4.02	2.96	2.54	2.37	2.19	1.97	1.70	1.44	1.20	0.98	0.79	0.65	0.55	0.51
175W	4.85	5.58	6.31	6.59	5.62	3.96	2.93	2.54	2.39	2.20	1.98	1.70	1.41	1.17	0.95	0.76	0.62	0.54	0.51
180W	5.02	6.04	6.44	6.69	5.50	3.84	2.91	2.56	2.41	2.22	1.98	1.70	1.40	1.14	0.91	0.73	0.61	0.54	0.51
-175E	6.00	6.50	6.88	6.64	5.26	3.70	2.86	2.61	2.43	2.24	2.00	1.70	1.39	1.10	0.87	0.70	0.58	0.53	0.51
-170E	6.36	6.74	6.98	6.54	5.07	3.59	2.88	2.61	2.45	2.26	2.02	1.71	1.38	1.07	0.83	0.66	0.57	0.52	0.51
-165E	6.65	6.83	6.98	6.40	4.96	3.56	2.84	2.59	2.43	2.26	2.03	1.71	1.36	1.05	0.79	0.63	0.55	0.52	0.51
-160E	6.50	6.88	7.03	6.36	5.03	3.70	2.96	2.61	2.39	2.22	2.00	1.71	1.35	1.01	0.76	0.60	0.54	0.00	0.00
-155E	6.40	6.74	6.93	6.45	5.34	4.14	3.24	2.73	2.41	2.17	1.97	1.68	1.33	0.99	0.73	0.60	0.00	0.00	0.00
-150E	6.45	6.31	6.59	6.50	5.70	4.53	3.45	2.78	2.39	2.13	1.93	1.67	1.32	0.97	0.00	0.00	0.00	0.00	0.00
-145E	6.54	6.04	6.31	6.50	5.74	4.47	3.30	2.65	2.33	2.12	1.92	1.65	1.31	0.96	0.00	0.00	0.00	0.00	0.00
-140E	6.59	6.18	6.36	6.36	5.50	4.14	3.00	2.46	2.24	2.08	1.90	1.64	1.31	0.96	0.00	0.00	0.00	0.00	0.00
-135E	6.59	6.54	6.54	6.22	5.30	3.96	2.91	2.43	2.20	2.07	1.89	1.63	1.30	0.96	0.00	0.00	0.00	0.00	0.00
-130E	6.54	6.78	6.59	6.13	5.26	3.99	2.93	2.41	2.19	2.03	1.87	1.61	1.31	0.97	0.00	0.00	0.00	0.00	0.00
-125E	6.54	6.83	6.59	6.13	5.38	4.18	3.03	2.41	2.15	2.03	1.87	1.61	1.31	0.98	0.00	0.00	0.00	0.00	0.00
-120E	6.54	6.93	6.69	6.13	5.42	4.24	3.07	2.39	2.13	2.02	1.86	1.60	1.32	0.99	0.00	0.00	0.00	0.00	0.00
-115E	6.69	7.08	6.74	6.00	5.22	4.08	2.98	2.37	2.13	2.00	1.84	1.60	1.32	1.00	0.00	0.00	0.00	0.00	0.00
-110E	6.88	7.18	6.59	5.62	4.74	3.75	2.86	2.37	2.13	2.00	1.84	1.60	1.32	1.01	0.00	0.00	0.00	0.00	0.00
-105E	7.03	7.03	6.18	5.11	4.27	3.48	2.82	2.41	2.15	2.00	1.84	1.59	1.33	1.01	0.00	0.00	0.00	0.00	0.00
-100E	7.03	6.64	5.70	4.67	3.96	3.35	2.84	2.46	2.19	2.02	1.83	1.59	1.33	1.01	0.00	0.00	0.00	0.00	0.00
-95E	7.03	6.40	5.38	4.47	3.84	3.35	2.93	2.54	2.24	2.03	1.83	1.59	1.33	1.00	0.00	0.00	0.00	0.00	0.00
-90E	6.93	6.36	5.38	4.47	3.84	3.40	2.98	2.61	2.29	2.05	1.83	1.59	1.32	0.99	0.00	0.00	0.00	0.00	0.00
-85E	6.64	6.36	5.54	4.60	3.93	3.45	3.05	2.69	2.35	2.07	1.83	1.59	1.32	0.98	0.00	0.00	0.00	0.00	0.00
-80E	6.50	6.45	5.74	4.78	4.02	3.50	3.10	2.73	2.37	2.08	1.83	1.59	1.30	0.96	0.00	0.00	0.00	0.00	0.00
-75E	6.50	6.62	6.08	5.00	4.18	3.59	3.17	2.78	2.41	2.08	1.81	1.57	1.29	0.94	0.00	0.00	0.00	0.00	0.00
-70E	6.54	6.78	6.31	5.26	4.37	3.73	3.24	2.82	2.43	2.08	1.81	1.57	1.27	0.93	0.00	0.00	0.00	0.00	0.00
-65E	6.59	6.93	6.59	5.58	4.60	3.90	3.37	2.83	2.45	2.08	1.80	1.56	1.26	0.91	0.00	0.00	0.00	0.00	0.00
-60E	6.64	7.08	6.83	5.87	4.85	4.08	3.50	2.96	2.48	2.08	1.80	1.56	1.26	0.92	0.00	0.00	0.00	0.00	0.00
-55E	6.31	6.93	7.03	6.27	5.18	4.30	3.64	3.05	2.50	2.07	1.80	1.56	1.26	0.93	0.00	0.00	0.00	0.00	0.00
-50E	5.58	6.36	6.98	6.74	5.66	4.64	3.84	3.15	2.52	1.85	1.74	1.56	1.27	0.93	0.00	0.00	0.00	0.00	0.00
-45E	5.15	5.79	6.69	7.08	6.22	5.03	4.11	3.27	2.52	2.05	1.77	1.55	1.27	0.95	0.00	0.00	0.00	0.00	0.00
-40E	5.66	5.79	6.54	7.23	6.74	5.50	4.43	3.42	2.54	2.02	1.75	1.55	1.27	0.97	0.00	0.00	0.00	0.00	0.00
-35E	6.50	6.31	6.78	7.39	7.18	6.09	4.85	3.53	2.50	1.98	1								

TABLE 20. SOUNDING MIXING WATER VALUES

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	1.39	1.44	1.32	1.07	0.87	0.80	0.81	0.85	0.86	0.79	0.68	0.59	0.52	0.44	0.34	0.00	0.00	0.00	0.19
5W	1.27	1.27	1.15	0.96	0.83	0.80	0.82	0.86	0.86	0.79	0.68	0.59	0.52	0.44	0.35	0.00	0.22	0.20	0.19
10W	1.16	1.18	1.07	0.93	0.84	0.82	0.84	0.88	0.88	0.80	0.68	0.60	0.52	0.44	0.35	0.27	0.22	0.20	0.19
15W	1.24	1.16	1.06	0.94	0.87	0.86	0.89	0.92	0.90	0.80	0.68	0.59	0.52	0.44	0.35	0.27	0.20	0.20	0.19
20W	1.38	1.22	1.10	1.02	0.96	0.95	0.96	0.96	0.91	0.80	0.68	0.59	0.52	0.44	0.35	0.27	0.23	0.21	0.19
25W	1.56	1.32	1.20	1.15	1.10	1.07	1.05	1.01	0.92	0.80	0.69	0.60	0.52	0.44	0.35	0.27	0.23	0.21	0.19
30W	1.80	1.43	1.35	1.33	1.27	1.21	1.13	1.04	0.93	0.80	0.69	0.60	0.53	0.44	0.35	0.28	0.23	0.21	0.19
35W	2.15	1.70	1.64	1.57	1.44	1.31	1.19	1.07	0.94	0.80	0.69	0.60	0.53	0.44	0.35	0.28	0.23	0.21	0.19
40W	2.58	2.26	2.16	1.86	1.61	1.39	1.22	1.08	0.95	0.80	0.68	0.60	0.53	0.44	0.35	0.28	0.23	0.21	0.19
45W	2.87	2.80	2.58	2.20	1.77	1.44	1.23	1.08	0.95	0.81	0.69	0.60	0.53	0.44	0.35	0.28	0.24	0.21	0.19
50W	2.80	3.11	3.01	2.50	1.91	1.49	1.24	1.09	0.96	0.82	0.69	0.60	0.53	0.44	0.35	0.28	0.24	0.21	0.19
55W	2.82	3.14	3.10	2.65	1.99	1.54	1.27	1.10	0.97	0.83	0.69	0.60	0.53	0.44	0.35	0.29	0.24	0.21	0.19
60W	2.84	2.90	3.24	2.67	2.03	1.58	1.33	1.15	1.00	0.84	0.69	0.60	0.53	0.44	0.35	0.29	0.24	0.21	0.19
65W	1.88	2.84	3.27	2.60	1.80	1.33	1.14	1.05	0.94	0.83	0.69	0.62	0.54	0.44	0.36	0.29	0.24	0.21	0.19
70W	1.96	2.90	3.29	2.42	1.45	0.94	0.80	0.79	0.79	0.75	0.70	0.61	0.54	0.44	0.36	0.29	0.25	0.21	0.19
75W	2.24	3.01	3.11	2.20	1.23	0.74	0.62	0.62	0.65	0.69	0.68	0.62	0.54	0.44	0.36	0.30	0.25	0.22	0.19
80W	2.56	2.85	2.67	1.91	1.12	0.72	0.60	0.59	0.62	0.67	0.67	0.62	0.53	0.44	0.37	0.30	0.25	0.22	0.19
85W	2.69	2.54	2.19	1.60	1.04	0.73	0.61	0.60	0.62	0.67	0.67	0.62	0.53	0.45	0.37	0.31	0.25	0.22	0.19
90W	2.54	2.22	1.83	1.40	1.00	0.75	0.65	0.62	0.64	0.67	0.67	0.62	0.53	0.45	0.37	0.31	0.25	0.22	0.19
95W	2.36	1.98	1.64	1.31	1.02	0.81	0.70	0.66	0.66	0.68	0.67	0.62	0.53	0.45	0.38	0.31	0.25	0.22	0.19
100W	2.20	1.82	1.52	1.26	1.05	0.88	0.77	0.71	0.69	0.70	0.68	0.62	0.53	0.45	0.38	0.31	0.25	0.22	0.19
105W	2.08	1.71	1.45	1.25	1.09	0.96	0.86	0.77	0.73	0.72	0.69	0.62	0.54	0.45	0.38	0.31	0.25	0.22	0.19
110W	1.96	1.65	1.44	1.28	1.15	1.06	0.96	0.85	0.77	0.73	0.69	0.62	0.54	0.45	0.38	0.32	0.25	0.22	0.19
115W	1.85	1.62	1.46	1.34	1.23	1.13	1.04	0.92	0.82	0.75	0.69	0.62	0.54	0.45	0.38	0.31	0.25	0.22	0.19
120W	1.80	1.65	1.52	1.40	1.30	1.20	1.09	0.97	0.86	0.78	0.70	0.62	0.54	0.45	0.38	0.31	0.25	0.22	0.19
125W	1.86	1.70	1.57	1.46	1.37	1.26	1.13	1.01	0.90	0.80	0.71	0.62	0.53	0.45	0.38	0.31	0.25	0.22	0.19
130W	1.96	1.77	1.64	1.54	1.45	1.33	1.18	1.04	0.91	0.81	0.71	0.62	0.53	0.45	0.37	0.31	0.25	0.22	0.19
135W	2.08	1.85	1.71	1.64	1.54	1.40	1.22	1.01	0.93	0.82	0.72	0.62	0.53	0.44	0.37	0.31	0.25	0.22	0.19
140W	2.13	1.93	1.82	1.77	1.67	1.48	1.25	1.07	0.93	0.82	0.72	0.62	0.53	0.44	0.37	0.30	0.24	0.22	0.19
145W	2.13	1.99	1.96	1.93	1.86	1.56	1.27	1.07	0.93	0.82	0.71	0.62	0.53	0.44	0.36	0.30	0.25	0.21	0.19
150W	2.15	2.08	2.10	2.08	1.93	1.70	1.27	1.06	0.93	0.82	0.72	0.62	0.53	0.44	0.36	0.30	0.25	0.21	0.19
155W	2.22	2.17	2.20	2.22	2.01	1.61	1.24	1.04	0.92	0.82	0.72	0.62	0.52	0.44	0.36	0.29	0.25	0.21	0.19
160W	2.20	2.10	2.28	2.34	2.08	1.61	1.22	1.03	0.92	0.82	0.71	0.61	0.52	0.43	0.36	0.29	0.24	0.21	0.19
165W	2.11	2.20	2.38	2.46	2.15	1.61	1.20	1.02	0.92	0.82	0.71	0.61	0.52	0.43	0.35	0.28	0.23	0.20	0.19
170W	2.06	2.28	2.52	2.58	2.22	1.60	1.16	1.01	0.93	0.82	0.71	0.61	0.52	0.43	0.35	0.28	0.23	0.20	0.19
175W	2.11	2.40	2.65	2.67	2.24	1.57	1.15	1.00	0.93	0.83	0.72	0.61	0.52	0.43	0.35	0.28	0.23	0.20	0.19
180W	2.24	2.52	2.73	2.67	2.17	1.53	1.13	1.00	0.94	0.84	0.73	0.62	0.52	0.42	0.34	0.28	0.24	0.20	0.19
-175E	2.38	2.62	2.78	2.62	2.11	1.44	1.10	0.99	0.93	0.83	0.73	0.62	0.52	0.42	0.33	0.27	0.22	0.20	0.19
-170E	2.48	2.76	2.87	2.56	1.91	1.34	1.07	0.97	0.91	0.82	0.72	0.61	0.51	0.41	0.33	0.26	0.23	0.20	0.19
-165E	2.45	2.92	2.94	2.48	1.80	1.30	1.06	0.95	0.87	0.80	0.71	0.61	0.51	0.40	0.32	0.25	0.22	0.19	0.19
-160E	2.49	3.00	2.92	2.38	1.73	1.27	1.05	0.92	0.85	0.77	0.70	0.60	0.50	0.40	0.31	0.20	0.22	0.00	0.00
-155E	3.06	3.11	2.32	2.30	1.73	1.28	1.04	0.91	0.83	0.75	0.67	0.58	0.48	0.38	0.30	0.00	0.00	0.00	0.00
-150E	3.01	3.06	2.78	2.32	1.79	1.33	1.05	0.91	0.81	0.74	0.65	0.56	0.46	0.38	0.00	0.00	0.00	0.00	0.00
-145E	2.96	3.06	2.82	2.38	1.83	1.35	1.06	0.91	0.81	0.73	0.65	0.55	0.45	0.37	0.00	0.00	0.00	0.00	0.00
-140E	3.04	3.11	2.89	2.42	1.93	1.34	1.06	0.91	0.81	0.73	0.64	0.54	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-135E	3.14	3.19	2.76	2.42	1.80	1.33	1.07	0.92	0.82	0.73	0.63	0.53	0.43	0.35	0.00	0.00	0.00	0.00	0.00
-130E	3.14	3.21	2.79	2.44	1.80	1.35	1.09	0.94	0.81	0.71	0.62	0.52	0.43	0.35	0.00	0.00	0.00	0.00	0.00
-125E	3.16	3.24	2.79	2.42	1.82	1.40	1.14	0.96	0.80	0.69	0.61	0.52	0.43	0.35	0.00	0.00	0.00	0.00	0.00
-120E	3.19	3.24	2.72	2.34	1.79	1.43	1.15	0.95	0.79	0.67	0.60	0.52	0.43	0.35	0.00	0.00	0.00	0.00	0.00
-115E	3.06	3.14	2.73	2.11	1.67	1.37	1.11	0.91	0.76	0.66	0.58	0.52	0.44	0.35	0.00	0.00	0.00	0.00	0.00
-110E	2.85	2.92	2.44	1.85	1.49	1.24	1.03	0.86	0.73	0.64	0.57	0.51	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-105E	2.71	2.65	2.15	1.62	1.33	1.13	0.92	0.81	0.70	0.62	0.57	0.51	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-100E	2.71	2.44	1.94	1.50	1.26	1.08	0.92	0.78	0.68	0.61	0.56	0.51	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-95E	2.71	2.34	1.85	1.46	1.25	1.07	0.91	0.77	0.67	0.60	0.56	0.51	0.45	0.37	0.00	0.00	0.00	0.00	0.00
-90E	2.67	2.30	1.83	1.46	1.24	1.07	0.90	0.76	0.65	0.60	0.56	0.51	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-85E	2.67	2.30	1.85	1.48	1.24	1.06	0.89	0.75	0.65	0.60	0.56	0.51	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-80E	2.69	2.32	1.85	1.50	1.24	1.05	0.89	0.75	0.65	0.59	0.55	0.51	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-75E	2.60	2.34	1.83	1.53	1.26	1.07	0.90	0.76	0.65	0.60	0.56	0.51	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-70E	2.34	2.32	1.99	1.58	1.31	1.11	0.94	0.79	0.67	0.61	0.56	0.51	0.44	0.36	0.00	0.00	0.00	0.00	0.00
-65E	2.01	2.26	2.10	1.70	1.30	1.19	1.01	0.93	0.71	0.62	0.57	0.52	0.45	0.36	0.00	0.00	0.00	0.00	0.00
-60E	1.76	2.17	2.20	1.86	1.50	1.28	1.09	0.91	0.75	0.77	0.59	0.53	0.45	0.36	0.00	0.00	0.00	0.00	0.00
-55E	1.60	2.04	2.28	2.06	1.68	1.40	1.19	0.96	0.79	0.68	0.61	0.54	0.45	0.37	0.00	0.00	0.00	0.00	0.00
-50E	1.50	1.94	2.34	2.32	1.94	1.57	1.26	1.01	0.83	0.78	0.62	0.55	0.46	0.37	0.00	0.00	0.00	0.00	0.00
-45E	1.43	1.89	2.42	2.60	2.28	1.77	1.34	1.06	0.86	0.75	0.65	0.56	0.47	0.38	0.00	0.00	0.00	0.00	0.00
-40E	1.50	2.03	2.56	2.78	2.50	1.94	1.44	1.08	0.89	0.77	0.66	0.57	0.48	0.39	0.31	0.00	0.00	0.00	0.00
-35E	1.82	2.42	2.87	2.89	2.52	1.98	1.46	1.08	0.89	0.77	0.67	0.57</							

TABLE OF SURFACE MIXING RATIO VALUES (GM/KGM)-APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	19.10	18.29	16.97	14.49	12.75	11.95	10.84	9.50	7.77	5.90	4.44	3.44	2.75	2.10	0.50	0.00	0.00	0.00	0.01
5W	19.46	18.06	16.55	14.89	12.75	11.95	10.84	9.50	7.77	5.90	4.44	3.44	2.79	2.08	0.50	0.04	0.01	0.01	0.01
10W	19.70	17.62	15.94	14.31	12.83	11.95	10.98	9.50	7.82	5.90	4.47	3.44	2.75	2.07	0.60	0.11	0.01	0.01	0.01
15W	19.70	17.51	15.94	14.49	13.34	12.35	11.20	9.13	7.87	5.98	4.54	3.44	2.75	2.02	0.79	0.15	0.00	0.01	0.01
20W	19.70	17.62	16.45	15.34	14.22	12.92	11.35	9.95	7.87	5.98	4.57	3.44	2.73	1.94	0.93	0.29	0.04	0.01	0.01
25W	19.83	18.41	17.29	16.45	15.15	13.51	11.88	10.02	0.00	6.11	4.64	3.49	2.73	1.87	0.93	0.38	0.10	0.01	0.01
30W	19.46	18.68	18.29	17.22	15.94	14.49	12.03	10.22	8.09	6.24	4.70	3.57	2.65	1.79	1.01	0.50	0.12	0.01	0.01
35W	18.06	18.29	18.29	18.06	17.18	15.15	12.75	10.35	8.09	6.32	4.77	3.57	2.65	1.78	1.01	0.50	0.13	0.01	0.01
40W	18.06	16.97	13.70	16.97	16.97	15.44	13.00	10.42	8.20	6.41	4.84	3.65	2.75	1.66	1.01	0.50	0.13	0.02	0.01
45W	18.52	18.18	17.51	16.97	11.72	13.42	12.67	10.35	8.14	6.46	5.02	3.81	2.83	1.53	0.93	0.50	0.13	0.02	0.01
50W	18.64	19.83	17.62	13.68	13.08	11.20	11.20	10.28	8.31	6.55	5.12	3.93	2.90	1.53	0.93	0.46	0.13	0.02	0.01
55W	18.52	18.64	17.62	14.96	13.00	12.35	10.15	9.50	8.20	6.55	5.31	4.38	3.22	1.53	0.79	0.35	0.13	0.02	0.01
60W	18.06	19.46	16.97	16.34	14.96	11.72	9.95	9.01	7.87	6.32	5.35	4.51	3.44	1.94	0.55	0.26	0.12	0.02	0.01
65W	18.06	18.64	17.73	13.34	8.89	7.01	8.42	7.66	6.68	5.38	5.20	4.54	3.81	2.45	0.32	0.11	0.11	0.02	0.01
70W	17.84	18.41	17.51	9.19	10.15	7.77	8.20	7.26	3.98	3.98	4.35	4.35	3.90	2.81	0.66	0.11	0.10	0.02	0.01
75W	13.00	17.18	13.17	10.15	11.65	10.70	9.37	8.31	7.87	6.78	5.12	4.44	3.93	2.85	1.70	0.16	0.09	0.02	0.01
80W	14.87	14.96	14.04	13.34	12.35	11.50	10.35	9.19	8.25	7.11	6.02	4.84	3.96	2.90	1.53	0.24	0.07	0.02	0.01
85W	17.62	17.29	15.25	13.86	12.59	11.80	10.70	9.56	8.48	7.26	6.02	4.95	4.01	2.92	1.66	0.29	0.07	0.02	0.01
90W	16.97	17.29	15.54	14.04	12.93	12.11	10.15	9.76	8.59	7.16	6.06	4.95	4.01	2.90	1.79	0.32	0.07	0.02	0.01
95W	16.76	18.41	15.54	14.13	13.17	12.19	10.98	9.95	8.59	7.26	6.11	4.98	4.04	2.90	1.79	0.32	0.07	0.02	0.01
100W	16.76	17.18	15.44	14.31	13.42	12.35	11.20	10.08	8.65	7.26	6.02	4.98	4.01	2.90	1.78	0.32	0.08	0.02	0.01
105W	16.76	15.94	14.87	14.22	13.42	12.67	11.42	10.15	8.71	7.46	6.06	4.95	4.07	2.85	1.53	0.32	0.10	0.02	0.01
110W	16.76	15.74	14.77	14.31	13.60	13.08	11.80	10.28	8.71	7.46	6.06	4.98	4.07	2.85	1.53	0.32	0.11	0.02	0.01
115W	17.08	15.74	14.77	14.22	13.86	13.34	12.01	10.49	8.89	7.41	6.06	4.95	4.01	2.85	1.77	0.29	0.13	0.04	0.01
120W	17.18	15.74	14.77	14.49	14.04	13.60	12.59	10.56	8.89	7.46	6.11	4.98	4.04	2.85	1.53	0.32	0.22	0.06	0.01
125W	17.40	15.94	14.96	14.77	14.77	14.04	12.67	10.56	9.01	7.51	6.06	5.05	4.07	2.85	1.53	0.32	0.32	0.07	0.01
130W	17.62	16.45	16.45	16.45	15.44	14.31	12.75	10.56	9.01	7.46	6.06	5.05	4.07	2.85	1.53	0.38	0.35	0.08	0.01
135W	17.84	17.84	18.06	17.62	15.94	14.31	12.59	10.49	8.95	7.46	6.06	5.02	4.04	2.85	1.53	0.35	0.38	0.09	0.01
140W	18.06	18.75	19.46	18.52	16.74	14.31	12.35	10.15	8.95	7.41	6.06	5.05	4.01	2.85	1.53	0.38	0.35	0.11	0.01
145W	18.06	18.99	19.83	18.64	16.74	14.40	12.03	10.42	8.89	7.51	6.06	5.05	4.07	2.85	1.53	0.42	0.38	0.11	0.01
150W	18.06	18.99	19.83	18.75	16.45	14.04	11.80	1.29	8.89	7.51	6.11	5.05	4.13	2.85	1.53	0.50	0.38	0.12	0.01
155W	18.52	18.99	19.83	18.75	16.45	13.77	11.65	10.15	8.83	7.51	6.11	5.05	4.13	2.85	1.53	0.46	0.38	0.12	0.01
160W	18.52	18.99	19.83	18.75	16.76	13.60	11.42	10.02	8.89	7.51	6.11	5.12	4.07	2.85	1.53	0.50	0.38	0.12	0.01
165W	18.64	18.75	18.87	18.52	16.76	13.51	11.42	9.95	8.89	7.56	6.11	5.12	4.07	2.85	1.53	0.50	0.38	0.12	0.01
170W	18.75	18.99	18.87	18.64	16.97	13.68	11.27	9.95	8.89	7.51	6.19	5.12	4.07	2.85	1.53	0.50	0.38	0.12	0.01
175W	18.75	19.46	19.46	19.34	16.76	13.42	11.20	9.82	8.89	7.56	6.15	5.12	4.01	2.85	1.53	0.55	0.38	0.11	0.01
180W	18.99	19.58	19.58	19.22	16.45	13.34	11.13	9.76	8.89	7.61	6.11	5.12	3.98	2.83	1.53	0.60	0.38	0.10	0.01
175E	19.46	19.70	19.70	18.99	16.65	13.42	11.20	9.19	7.61	7.51	6.15	5.12	3.98	2.79	1.41	0.55	0.38	0.06	0.01
170E	20.70	19.83	19.46	18.52	16.45	13.60	11.42	9.25	7.61	5.90	6.11	5.12	3.93	2.65	1.30	0.50	0.32	0.04	0.01
165E	20.70	19.58	18.64	17.73	15.94	13.60	11.80	9.95	7.87	6.32	5.82	5.02	3.90	2.55	0.86	0.32	0.26	0.04	0.01
160E	20.70	18.87	18.75	18.06	15.94	13.60	12.03	10.28	8.09	6.50	5.42	4.70	3.79	2.45	0.55	0.00	0.13	0.00	0.00
155E	19.70	18.64	19.46	19.34	15.94	13.68	11.42	10.42	8.59	6.32	5.20	4.47	3.65	2.24	0.38	0.00	0.00	0.00	0.00
150E	19.66	19.46	19.34	19.34	14.96	7.51	7.21	7.26	8.59	6.06	5.02	4.32	3.42	2.10	0.00	0.00	0.00	0.00	0.00
145E	19.34	14.96	19.46	15.94	10.15	5.70	6.78	6.55	7.93	5.94	5.02	4.28	3.32	2.02	0.00	0.00	0.00	0.00	0.00
140E	19.46	14.49	18.41	13.60	8.09	5.70	6.06	7.01	7.87	5.90	4.98	4.25	3.24	1.82	0.00	0.00	0.00	0.00	0.00
135E	19.46	18.67	17.73	10.28	5.90	5.38	5.90	9.13	8.03	6.06	5.02	4.13	3.23	1.79	0.00	0.00	0.00	0.00	0.00
130E	19.46	18.67	18.06	10.35	5.38	5.05	6.55	9.13	8.03	6.06	5.02	4.13	2.92	1.78	0.00	0.00	0.00	0.00	0.00
125E	18.75	18.64	18.34	10.49	6.82	4.84	6.78	9.01	8.84	6.50	5.05	4.04	2.85	1.53	0.00	0.00	0.00	0.00	0.00
120E	18.52	17.84	17.29	16.45	10.15	5.05	6.92	8.71	8.71	6.59	5.12	4.01	2.85	1.41	0.00	0.00	0.00	0.00	0.00
115E	18.44	18.41	18.41	16.45	11.95	8.89	9.01	10.42	8.59	6.64	5.05	3.98	2.81	1.41	0.00	0.00	0.00	0.00	0.00
110E	19.34	18.87	19.22	18.06	14.96	13.17	11.80	10.15	8.09	6.41	4.95	3.98	2.81	1.41	0.00	0.00	0.00	0.00	0.00
105E	19.10	17.18	19.83	18.52	15.44	13.68	11.72	9.82	7.77	5.98	4.77	3.90	2.71	1.41	0.00	0.00	0.00	0.00	0.00
100E	18.75	18.87	19.83	17.51	15.34	13.42	11.42	9.31	7.61	5.82	4.57	3.84	2.79	1.53	0.00	0.00	0.00	0.00	0.00
95E	18.52	18.87	19.22	16.65	14.96	12.92	11.20	9.19	7.46	5.70	4.47	3.81	2.75	1.53	0.00	0.00	0.00	0.00	0.00
90E	18.44	18.06	18.06	16.45	14.59	12.67	11.05	9.19	7.41	5.62	4.38	3.79	2.75	1.79	0.00	0.00	0.00	0.00	0.00
85E	18.44	18.06	17.51	16.45	14.49	12.67	11.05	9.25	7.41	5.50	4.32	3.76	2.75	1.82	0.00	0.00	0.00	0.00	0.00
80E	18.09	18.06	17.40	16.45	14.59	12.83	11.13	9.25	7.51	5.42	4.38	3.73	2.77	1.67	0.00	0.00	0.00	0.00	0.00
75E	18.09	18.52	17.73	16.65	14.68	12.83	11.13	9.50	7.66	5.42	4.28	3.70	2.77	1.91	0.00	0.00	0.00	0.00	0.00
70E	18.06	18.29	18.29	16.97	14.96	13.00	11.20	9.63	7.66	5.42	4.32	3.68	2.77	1.88	0.00	0.00	0.00	0.00	0.00
65E	19.70	19.58	19.22	17.51	15.44	13.17	11.35	9.76	7.77	5.50	4.28	3.65	2.73	1.79	0.00	0.00	0.00	0.00	0.00
60E	19.05	19.58	19.70	18.64	15.74	13.17	11.35	9.82	7.77	5.50	4.28	3.57	2.73	1.79	0.00	0.00	0.00	0.00	0.00
55E	19.83	18.64	18.75	18.87	15.44	13.60	11.88	9.95	7.82	5.50	4.28	3.57	2.73	1.85	0.00	0.00	0.00	0.00	0.00
50E	19.70	18.52	18.06	16.97	16.45	14.96	12.92	10.28	7.93	5.62	4.25	3.52	2.75	1.94	0.00	0.00	0.00	0.00	0.00
45E	19.58	18.99	18.06																

TABLE 2F 1850-NB MIXING RATIO VALUES (GM/KGM)-APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	12.13	11.20	10.13	8.73	7.09	5.82	5.08	4.56	3.99	3.38	2.86	2.41	1.89	1.27	0.74	0.00	0.00	0.00	0.00
5W	11.89	10.69	9.53	8.26	7.09	6.08	5.31	4.66	4.02	3.38	2.86	2.40	1.87	1.29	0.79	0.49	0.30	0.14	0.09
10W	11.50	10.34	9.15	8.04	7.04	6.16	5.38	4.73	4.10	3.36	2.84	2.40	1.87	1.31	0.84	0.54	0.32	0.14	0.09
15W	11.24	10.20	9.29	7.98	7.04	6.25	5.50	4.76	4.05	3.38	2.86	2.41	1.90	1.36	0.91	0.60	0.40	0.15	0.09
20W	11.50	10.34	9.03	7.98	7.09	6.39	5.62	4.83	4.05	3.38	2.86	2.41	1.93	1.42	0.98	0.67	0.39	0.16	0.09
25W	12.13	10.69	9.15	7.98	7.14	6.52	5.82	4.94	4.00	3.36	2.84	2.41	1.95	1.47	1.05	0.72	0.41	0.17	0.09
30W	12.37	11.13	9.53	8.15	7.29	6.71	5.92	5.01	4.04	3.36	2.84	2.43	2.00	1.52	1.10	0.77	0.43	0.17	0.09
35W	12.21	11.58	10.00	8.49	7.71	7.14	6.25	5.08	4.04	3.36	2.86	2.47	2.05	1.57	1.13	0.80	0.45	0.18	0.09
40W	12.05	11.89	10.48	9.03	8.43	7.76	6.48	5.08	4.05	3.36	2.86	2.49	2.09	1.61	1.16	0.80	0.46	0.18	0.09
45W	12.05	12.13	11.13	9.93	9.28	8.26	6.57	5.04	4.05	3.36	2.88	2.53	2.13	1.65	1.17	0.80	0.46	0.19	0.09
50W	12.05	12.20	11.81	10.98	10.06	8.49	6.48	4.94	4.05	3.38	2.88	2.55	2.18	1.69	1.18	0.80	0.46	0.19	0.09
55W	12.05	12.45	12.21	11.58	10.55	8.61	6.39	4.94	4.02	3.38	2.91	2.57	2.21	1.71	1.18	0.78	0.45	0.19	0.09
60W	12.29	12.54	12.54	12.21	11.05	8.97	6.76	5.42	4.05	3.36	2.88	2.57	2.23	1.73	1.18	0.77	0.43	0.19	0.09
65W	11.89	12.13	12.29	11.05	8.67	6.85	5.82	4.76	3.87	3.23	2.88	2.61	2.29	1.76	1.19	0.76	0.42	0.19	0.09
70W	10.98	11.35	11.28	8.79	5.74	4.33	4.20	4.05	3.73	3.36	3.07	2.75	2.36	1.79	1.20	0.74	0.42	0.19	0.09
75W	10.76	10.98	10.41	7.55	4.76	3.65	3.73	3.90	3.90	3.70	3.36	2.91	2.40	1.80	1.21	0.74	0.41	0.19	0.09
80W	11.58	11.13	9.60	7.19	5.19	4.36	4.26	4.20	4.17	3.96	3.69	2.93	2.40	1.81	1.21	0.73	0.40	0.19	0.09
85W	12.45	10.98	8.79	6.66	5.38	4.86	4.52	4.42	4.26	3.96	3.66	2.91	2.41	1.83	1.22	0.72	0.40	0.19	0.09
90W	12.29	10.41	8.15	6.52	3.57	5.27	8.00	4.62	4.36	3.99	3.64	2.91	2.43	1.86	1.23	0.72	0.40	0.19	0.09
95W	11.66	9.73	7.76	6.57	3.38	5.58	5.23	4.86	4.46	3.99	3.64	2.93	2.45	1.87	1.23	0.72	0.40	0.19	0.09
100W	10.98	9.28	7.66	6.66	3.26	5.86	5.50	5.04	4.56	3.99	3.61	2.93	2.45	1.86	1.22	0.72	0.40	0.19	0.09
105W	10.41	9.03	7.71	6.80	3.14	6.12	5.74	5.23	4.62	3.99	3.61	2.93	2.45	1.86	1.22	0.72	0.40	0.19	0.09
110W	10.27	9.03	7.76	7.00	3.07	6.30	5.91	5.34	4.66	3.99	3.64	2.93	2.45	1.83	1.21	0.75	0.43	0.20	0.09
115W	10.55	9.09	7.93	7.14	2.95	6.48	6.03	5.42	4.66	3.93	3.36	2.93	2.45	1.83	1.20	0.76	0.45	0.21	0.09
120W	10.76	9.22	8.04	7.40	2.84	6.66	6.21	5.46	4.66	3.93	3.36	2.93	2.45	1.81	1.20	0.78	0.47	0.21	0.09
125W	10.76	9.22	8.26	7.71	2.71	6.90	6.34	5.54	4.66	3.93	3.36	2.93	2.45	1.81	1.20	0.80	0.50	0.22	0.09
130W	10.55	9.15	8.43	8.09	2.57	7.19	6.48	5.62	4.66	3.90	3.36	2.93	2.47	1.83	1.20	0.82	0.52	0.23	0.09
135W	10.41	9.00	8.67	8.55	2.41	7.45	6.57	5.62	4.66	3.90	3.33	2.93	2.47	1.83	1.20	0.83	0.54	0.23	0.09
140W	10.41	9.22	9.43	9.09	2.27	7.76	6.71	5.66	4.66	3.90	3.33	2.93	2.47	1.84	1.20	0.85	0.56	0.24	0.09
145W	10.41	9.73	9.73	9.80	2.13	8.04	6.80	5.66	4.66	3.90	3.33	2.93	2.49	1.84	1.21	0.86	0.58	0.24	0.09
150W	10.34	10.20	10.41	10.34	2.03	8.15	6.85	5.66	4.62	3.87	3.33	2.93	2.49	1.84	1.21	0.87	0.59	0.25	0.09
155W	10.34	10.55	10.91	10.76	1.98	8.21	6.85	5.66	4.62	3.87	3.33	2.93	2.49	1.84	1.21	0.87	0.60	0.25	0.09
160W	10.34	10.76	11.05	10.91	1.95	8.21	6.85	5.66	4.66	3.90	3.33	2.93	2.49	1.84	1.20	0.86	0.60	0.24	0.09
165W	10.34	10.98	11.35	11.05	1.93	8.21	6.80	5.66	4.66	3.90	3.33	2.93	2.49	1.83	1.18	0.84	0.59	0.24	0.09
170W	10.55	11.35	11.66	11.20	1.92	8.26	6.76	5.62	4.66	3.93	3.36	2.95	2.49	1.81	1.14	0.81	0.57	0.24	0.09
175W	11.05	11.73	11.97	11.43	1.90	8.21	6.71	5.58	4.66	3.96	3.41	2.97	2.49	1.77	1.09	0.76	0.54	0.23	0.09
180W	11.66	12.13	12.21	11.58	1.92	8.09	6.61	5.46	4.59	3.93	3.44	3.00	2.49	1.70	1.01	0.70	0.51	0.22	0.09
175F	12.13	12.37	12.29	11.43	1.97	7.93	6.52	5.38	4.52	3.93	3.44	3.00	2.43	1.61	0.91	0.63	0.47	0.21	0.09
170F	12.45	12.54	12.29	11.13	2.06	7.71	6.48	5.46	4.59	3.96	3.44	2.97	2.34	1.49	0.81	0.55	0.43	0.20	0.09
165F	12.79	12.70	12.13	10.76	2.16	7.50	6.43	5.58	4.73	4.05	3.46	2.93	2.27	1.37	0.72	0.49	0.38	0.19	0.09
160F	13.24	12.70	11.89	10.41	2.25	7.35	6.39	5.54	4.76	4.05	3.44	2.86	2.16	1.27	0.64	0.40	0.34	0.20	0.09
155F	13.21	12.54	11.50	10.00	2.39	7.19	6.08	5.23	4.52	3.93	3.36	2.78	2.06	1.18	0.57	0.30	0.20	0.10	0.00
150F	13.21	12.21	10.91	9.53	3.02	6.76	5.50	4.66	4.14	3.70	3.23	2.69	1.97	1.09	0.50	0.30	0.20	0.10	0.00
145F	13.13	11.73	10.41	9.09	2.61	6.34	4.83	4.14	3.82	3.54	3.14	2.61	1.87	1.01	0.50	0.30	0.20	0.10	0.00
140F	12.95	11.50	10.76	8.55	6.85	5.34	4.39	3.93	3.70	3.46	3.07	2.55	1.80	0.95	0.50	0.30	0.20	0.10	0.00
135F	12.79	11.35	9.93	8.04	6.16	4.94	4.30	3.93	3.70	3.44	3.04	2.53	1.76	0.92	0.50	0.30	0.20	0.10	0.00
130F	12.54	11.50	10.76	7.82	5.82	4.83	4.42	4.08	3.76	3.44	3.02	2.51	1.74	0.92	0.50	0.30	0.20	0.10	0.00
125F	12.45	11.73	10.76	7.93	5.82	4.94	4.66	4.30	3.87	3.44	3.02	2.51	1.76	0.93	0.50	0.30	0.20	0.10	0.00
120F	12.37	12.13	10.33	8.38	6.21	5.23	4.90	4.49	3.96	3.46	3.00	2.51	1.76	0.96	0.50	0.30	0.20	0.10	0.00
115F	12.29	12.37	11.28	8.97	6.80	5.66	5.15	4.62	3.99	3.44	2.97	2.49	1.77	0.98	0.50	0.30	0.20	0.10	0.00
110F	12.05	12.29	11.35	9.41	7.40	6.08	5.34	4.66	3.96	3.41	2.95	2.49	1.79	1.01	0.50	0.30	0.20	0.10	0.00
105F	11.81	11.97	11.20	9.60	7.76	6.39	5.38	4.62	3.93	3.36	2.93	2.49	1.80	1.03	0.50	0.30	0.20	0.10	0.00
100F	11.58	11.58	10.91	9.47	7.87	6.48	5.42	4.56	3.87	3.33	2.93	2.47	1.80	1.04	0.50	0.30	0.20	0.10	0.00
95F	11.54	11.28	10.55	9.41	7.71	6.43	5.34	4.52	3.84	3.33	2.93	2.47	1.79	1.04	0.50	0.30	0.20	0.10	0.00
90F	11.81	11.70	10.27	8.97	7.61	6.39	5.34	4.52	3.84	3.31	2.93	2.47	1.77	1.03	0.50	0.30	0.20	0.10	0.00
85F	11.97	11.73	10.13	8.85	7.50	6.34	5.34	4.49	3.82	3.31	2.93	2.47	1.74	1.01	0.50	0.30	0.20	0.10	0.00
80F	11.89	11.05	10.13	8.85	7.45	6.30	5.34	4.49	3.82	3.31	2.95	2.45	1.71	0.99	0.50	0.30	0.20	0.10	0.00
75F	11.50	11.20	10.27	8.97	7.61	6.39	5.34	4.49	3.84	3.33	2.95	2.43	1.67	0.96	0.50	0.30	0.20	0.10	0.00
70F	12.21	11.58	10.69	9.47	7.98	6.57	5.42	4.52	3.84	3.36	2.95	2.41	1.65	0.94	0.50	0.30	0.20	0.10	0.00
65F	12.42	11.97	11.20	10.13	8.67	7.00	5.54	4.56	3.87	3.36	2.95	2.40	1.62	0.93	0.50	0.30	0.20	0.10	0.00
60F	12.70	12.13	11.58	10.76	9.41	7.55	5.82	4.66	3.87	3.36	2.95	2.41	1.61	0.94	0.50	0.30	0.20	0.10	0.00
55F	12.05	11.80	11.58	11.13	10.04	8.15	6.16	4.76	3.90	3.36	2.93	2.41	1.67	0.97	0.50	0.30	0.20	0.10	0.00
50F	11.28	11.43	11.35	11.13	10.20	8.49	6.57	4.97	3.99	3.36	2.95	2.43	1.71	1.03	0.50	0.30	0.20	0.10	0.00
45F	10.98	11.35	11.43	11.05	10.06	8.55	6.80	5.19	4.08	3.41	2.95	2.45	1.77	1.10	0.50	0.30	0.20	0.10	0.00
40F	11.43	11.73	11.73	11.28	10.20	8.73	7.00	5.42	4.20	3.									

TABLE 26. 700-MR MIXING RATIO VALUES (GM/KGM)-APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	7.74	4.64	5.59	4.27	3.27	2.54	2.10	1.83	1.68	1.57	1.41	1.23	1.02	0.71	0.42	0.00	0.00	0.00	0.24
5W	6.80	5.62	4.60	3.64	3.00	2.54	2.17	1.89	1.71	1.57	1.41	1.23	1.03	0.74	0.45	0.29	0.22	0.21	0.24
10W	5.62	4.96	4.11	3.37	2.93	2.59	2.26	1.97	1.75	1.57	1.40	1.23	1.04	0.77	0.50	0.32	0.24	0.22	0.24
15W	5.76	4.74	3.99	3.32	2.96	2.69	2.39	2.08	1.81	1.59	1.40	1.23	1.05	0.80	0.55	0.36	0.00	0.24	0.24
20W	5.15	4.92	4.18	3.45	3.12	2.86	2.56	2.22	1.89	1.60	1.39	1.22	1.05	0.83	0.59	0.41	0.30	0.25	0.24
25W	5.38	5.38	4.50	3.70	3.32	3.07	2.78	2.39	0.00	1.63	1.38	1.22	1.07	0.86	0.63	0.45	0.32	0.26	0.24
30W	6.09	5.87	4.81	3.93	3.59	3.32	2.94	2.54	2.07	1.65	1.38	1.22	1.04	0.89	0.67	0.48	0.35	0.27	0.24
35W	6.78	6.45	5.26	4.37	3.99	3.64	3.19	2.71	2.17	1.68	1.38	1.22	1.10	0.92	0.70	0.51	0.38	0.29	0.24
40W	7.50	7.13	6.00	5.11	4.60	4.08	3.65	2.84	2.26	1.72	1.36	1.22	1.12	0.94	0.73	0.54	0.40	0.30	0.24
45W	7.55	7.77	6.94	6.00	5.30	4.57	3.73	2.98	2.33	1.75	1.38	1.23	1.13	0.96	0.75	0.57	0.43	0.31	0.24
50W	7.44	8.22	7.77	6.69	5.83	4.92	3.90	3.03	2.37	1.78	1.40	1.23	1.14	0.98	0.77	0.60	0.45	0.32	0.24
55W	7.39	8.45	8.22	7.18	6.13	5.11	3.99	3.03	2.37	1.81	1.42	1.25	1.16	0.99	0.80	0.62	0.47	0.34	0.24
60W	7.34	8.57	8.63	7.60	6.50	5.34	4.14	3.10	2.39	1.84	1.48	1.32	1.20	1.01	0.81	0.63	0.49	0.35	0.24
65W	7.50	8.63	8.33	6.59	4.85	3.78	3.19	2.73	2.29	1.87	1.59	1.42	1.25	1.03	0.82	0.65	0.50	0.36	0.24
70W	7.77	8.45	7.34	6.33	4.81	2.91	2.15	2.63	2.10	1.92	1.72	1.54	1.30	1.05	0.84	0.67	0.52	0.36	0.24
75W	7.99	8.05	6.50	4.05	2.37	2.20	1.72	1.92	2.03	1.98	1.83	1.61	1.33	1.05	0.85	0.68	0.53	0.37	0.24
80W	7.93	7.44	5.87	4.02	2.75	2.43	2.07	2.07	2.08	2.00	1.84	1.61	1.33	1.06	0.85	0.70	0.54	0.38	0.24
85W	7.60	6.59	5.18	3.81	2.94	2.52	2.26	2.17	2.08	1.95	1.77	1.56	1.31	1.06	0.86	0.70	0.55	0.39	0.24
90W	7.03	5.79	4.60	3.61	2.91	2.52	2.35	2.22	2.08	1.92	1.72	1.52	1.29	1.06	0.87	0.71	0.56	0.39	0.24
95W	6.45	5.26	4.24	3.45	2.89	2.52	2.35	2.24	2.08	1.92	1.72	1.51	1.29	1.06	0.87	0.71	0.56	0.39	0.24
100W	6.22	5.00	4.05	3.37	2.86	2.52	2.35	2.22	2.07	1.89	1.70	1.50	1.27	1.06	0.87	0.71	0.57	0.40	0.24
105W	6.13	4.89	3.96	3.32	2.86	2.56	2.37	2.22	2.07	1.87	1.68	1.48	1.27	1.06	0.87	0.71	0.57	0.40	0.24
110W	6.00	4.78	3.93	3.30	2.89	2.61	2.41	2.24	2.07	1.86	1.67	1.48	1.29	1.07	0.88	0.72	0.57	0.40	0.24
115W	5.79	4.74	3.93	3.32	2.93	2.65	2.45	2.26	2.05	1.86	1.67	1.48	1.29	1.07	0.88	0.72	0.57	0.40	0.24
120W	5.70	4.74	3.96	3.40	2.98	2.71	2.48	2.24	2.03	1.84	1.65	1.47	1.27	1.05	0.86	0.71	0.56	0.39	0.24
125W	5.70	4.74	4.02	3.45	3.07	2.80	2.50	2.24	2.02	1.83	1.65	1.47	1.27	1.05	0.86	0.71	0.56	0.39	0.24
130W	5.70	4.74	4.08	3.59	3.22	2.91	2.59	2.26	2.02	1.83	1.65	1.47	1.26	1.05	0.85	0.70	0.56	0.39	0.24
135W	5.66	4.71	4.14	3.73	3.40	3.03	2.63	2.28	2.02	1.83	1.64	1.47	1.26	1.03	0.83	0.69	0.55	0.38	0.24
140W	5.00	4.53	4.18	3.87	3.56	3.15	2.69	2.29	2.02	1.81	1.63	1.46	1.25	1.02	0.82	0.68	0.54	0.38	0.24
145W	4.71	4.47	4.30	4.08	3.75	3.30	2.75	2.31	2.02	1.81	1.63	1.46	1.25	1.01	0.80	0.66	0.52	0.37	0.24
150W	4.67	4.64	4.60	4.40	4.02	3.45	2.82	2.33	2.02	1.81	1.63	1.46	1.24	1.00	0.79	0.65	0.51	0.36	0.24
155W	4.47	4.74	4.85	4.71	4.24	3.56	2.84	2.33	2.02	1.81	1.63	1.46	1.24	0.98	0.77	0.62	0.49	0.35	0.24
160W	4.74	4.85	4.96	4.89	4.40	3.61	2.84	2.33	2.02	1.81	1.61	1.45	1.23	0.98	0.76	0.60	0.47	0.34	0.24
165W	5.03	5.00	5.03	5.07	4.57	3.70	2.86	2.33	2.02	1.81	1.61	1.45	1.23	0.97	0.73	0.58	0.45	0.33	0.24
170W	5.42	5.22	5.30	5.34	4.74	3.70	2.78	2.28	2.03	1.83	1.63	1.46	1.24	0.96	0.71	0.55	0.42	0.32	0.24
175W	5.50	5.38	5.54	5.54	4.78	3.56	2.63	2.19	2.02	1.84	1.65	1.50	1.26	0.95	0.69	0.51	0.40	0.31	0.24
180W	5.34	5.46	5.70	5.66	4.78	3.46	2.52	2.13	2.03	1.87	1.67	1.50	1.26	0.93	0.66	0.48	0.37	0.29	0.24
175E	5.46	5.66	5.91	5.79	4.74	3.32	2.39	2.08	2.07	1.92	1.65	1.45	1.22	0.91	0.62	0.45	0.35	0.28	0.24
170E	6.09	6.27	6.31	5.83	4.47	2.98	2.15	2.00	2.10	1.95	1.65	1.42	1.20	0.89	0.58	0.41	0.32	0.27	0.24
165E	7.03	6.93	6.69	5.83	4.21	2.69	2.02	2.02	2.13	1.95	1.65	1.42	1.19	0.85	0.55	0.38	0.30	0.26	0.24
160E	7.60	7.39	6.78	5.62	4.02	2.69	2.15	2.15	2.17	1.90	1.63	1.42	1.18	0.82	0.51	0.00	0.00	0.00	0.00
155E	7.71	7.50	6.64	5.22	3.84	2.82	2.39	2.29	2.13	1.83	1.59	1.42	1.16	0.79	0.49	0.00	0.00	0.00	0.00
150E	7.66	7.39	6.27	4.81	3.44	2.86	2.45	2.24	2.00	1.72	1.55	1.40	1.14	0.77	0.00	0.00	0.00	0.00	0.00
145E	7.60	7.08	5.83	4.47	3.48	2.63	2.26	1.97	1.78	1.63	1.52	1.38	1.11	0.74	0.00	0.00	0.00	0.00	0.00
140E	7.50	6.78	5.42	4.21	3.17	2.63	2.07	1.78	1.65	1.57	1.50	1.35	1.09	0.72	0.00	0.00	0.00	0.00	0.00
135E	7.44	6.54	5.18	4.14	3.42	2.71	2.12	1.77	1.64	1.57	1.50	1.34	1.06	0.70	0.00	0.00	0.00	0.00	0.00
130E	7.44	6.59	5.30	4.27	3.44	2.93	2.24	1.84	1.67	1.59	1.48	1.32	1.04	0.69	0.00	0.00	0.00	0.00	0.00
125E	7.44	6.93	5.66	4.40	3.47	3.10	2.33	1.97	1.67	1.57	1.46	1.30	1.01	0.69	0.00	0.00	0.00	0.00	0.00
120E	7.50	7.22	6.04	4.92	4.05	3.12	2.29	1.84	1.67	1.56	1.45	1.27	0.99	0.66	0.00	0.00	0.00	0.00	0.00
115E	7.44	7.39	6.31	5.07	4.08	3.07	2.24	1.81	1.65	1.56	1.44	1.26	0.98	0.67	0.00	0.00	0.00	0.00	0.00
110E	7.29	7.18	6.22	4.96	3.90	2.93	2.10	1.81	1.65	1.55	1.44	1.25	0.98	0.68	0.00	0.00	0.00	0.00	0.00
105E	7.03	6.78	5.87	4.71	3.64	2.73	2.05	1.78	1.65	1.55	1.44	1.24	0.98	0.69	0.00	0.00	0.00	0.00	0.00
100E	6.88	6.45	5.46	4.34	3.35	2.56	2.07	1.78	1.64	1.55	1.44	1.24	0.99	0.71	0.00	0.00	0.00	0.00	0.00
95E	6.88	6.18	5.15	4.05	3.15	2.50	2.05	1.78	1.64	1.55	1.44	1.24	1.00	0.73	0.00	0.00	0.00	0.00	0.00
90E	6.88	6.08	5.00	3.93	3.07	2.46	2.05	1.78	1.65	1.56	1.44	1.25	1.01	0.73	0.00	0.00	0.00	0.00	0.00
85E	6.88	6.00	5.00	3.93	3.05	2.46	2.07	1.80	1.65	1.57	1.45	1.25	1.02	0.74	0.00	0.00	0.00	0.00	0.00
80E	6.78	6.40	5.50	4.24	3.15	2.48	2.10	1.83	1.68	1.59	1.46	1.26	1.02	0.73	0.00	0.00	0.00	0.00	0.00
75E	6.88	7.23	6.40	4.71	3.15	2.56	2.15	1.87	1.71	1.60	1.46	1.26	1.02	0.72	0.00	0.00	0.00	0.00	0.00
70E	7.39	8.05	7.13	5.18	3.56	2.69	2.24	1.93	1.74	1.61	1.47	1.27	1.01	0.71	0.00	0.00	0.00	0.00	0.00
65E	8.16	8.51	7.39	5.42	3.81	2.86	2.35	2.00	1.77	1.61	1.47	1.27	1.00	0.70	0.00	0.00	0.00	0.00	0.00
60E	8.63	8.57	7.50	5.79	4.24	3.17	2.48	2.07	1.80	1.63	1.48	1.27	1.00	0.70	0.00	0.00	0.00	0.00	0.00
55E	8.51	8.57	7.66	6.18	4.71	3.53	2.69	2.15	1.83	1.63	1.48	1.27	1.02	0.73	0.00	0.00	0.00	0.00	0.00
50E	8.45	8.51	7.77	6.54	5.15	3.87	2.91	2.28	1.87	1.64	1.47	1.27	1.04	0.76	0.00	0.00	0.00	0.00	0.00
45E	8.51	8.39	7.93	6.98	5.54	4.14	3.15	2.41	1.93	1.65	1.47	1.27	1.05	0.80	0.00	0.00	0.00	0.00	0.00
40E	8.45	7.99	7.66	6.83	5.58	4.34	3.40	2.59	1.98	1.65	1.46	1.26	1.07	0.83	0.49	0.00	0.00	0.00	0.00
35E	8.14	7.50	6.88	6.04	5.														

TABLE 2H 500-MR MIXING RATIO VALUES (GM/KGM)-APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.65	2.15	1.57	1.12	0.84	0.66	0.57	0.55	0.56	0.54	0.49	0.42	0.34	0.24	0.16	0.00	0.00	0.00	0.14
5W	2.28	1.78	1.24	0.96	0.75	0.62	0.56	0.56	0.56	0.54	0.49	0.42	0.34	0.24	0.17	0.13	0.12	0.12	0.14
10W	1.93	1.45	1.08	0.84	0.68	0.58	0.56	0.56	0.56	0.54	0.48	0.42	0.34	0.25	0.18	0.14	0.13	0.13	0.14
15W	1.76	1.34	1.03	0.81	0.66	0.57	0.56	0.57	0.57	0.54	0.48	0.41	0.34	0.26	0.19	0.15	0.00	0.13	0.14
20W	1.80	1.40	1.07	0.84	0.69	0.60	0.58	0.59	0.59	0.55	0.48	0.41	0.34	0.26	0.20	0.16	0.14	0.14	0.14
25W	2.06	1.61	1.22	0.93	0.76	0.66	0.64	0.62	0.60	0.55	0.48	0.41	0.34	0.27	0.21	0.17	0.15	0.14	0.14
30W	2.48	1.98	1.45	1.07	0.87	0.77	0.71	0.68	0.64	0.56	0.48	0.40	0.34	0.28	0.22	0.18	0.16	0.14	0.14
35W	2.92	2.46	1.82	1.33	1.06	0.90	0.80	0.74	0.67	0.57	0.48	0.40	0.34	0.28	0.23	0.19	0.17	0.15	0.14
40W	3.29	3.01	2.30	1.65	1.27	1.05	0.90	0.80	0.71	0.59	0.48	0.40	0.34	0.29	0.24	0.20	0.18	0.15	0.14
45W	3.48	3.48	2.80	1.99	1.49	1.20	1.00	0.86	0.74	0.60	0.49	0.41	0.35	0.29	0.25	0.21	0.19	0.16	0.14
50W	3.35	3.71	3.24	2.34	1.70	1.33	1.09	0.93	0.77	0.62	0.49	0.41	0.36	0.30	0.25	0.22	0.19	0.16	0.14
55W	3.06	3.68	3.48	2.58	1.83	1.43	1.18	0.97	0.80	0.63	0.50	0.42	0.36	0.31	0.26	0.23	0.20	0.17	0.14
60W	2.80	3.62	3.59	2.69	1.83	1.39	1.14	0.96	0.80	0.64	0.51	0.43	0.37	0.32	0.27	0.24	0.21	0.17	0.14
65W	2.80	3.65	3.54	2.52	1.58	1.12	0.96	0.88	0.77	0.64	0.54	0.45	0.39	0.33	0.28	0.25	0.22	0.18	0.14
70W	3.01	3.65	3.32	2.19	1.24	0.82	0.67	0.76	0.73	0.66	0.58	0.49	0.41	0.34	0.29	0.26	0.22	0.18	0.14
75W	3.27	3.44	2.92	1.88	1.05	0.67	0.61	0.68	0.70	0.67	0.60	0.51	0.42	0.35	0.30	0.27	0.23	0.18	0.14
80W	3.29	3.06	2.48	1.68	1.00	0.65	0.59	0.64	0.67	0.65	0.58	0.51	0.42	0.36	0.31	0.28	0.24	0.19	0.14
85W	3.18	2.65	2.10	1.50	0.79	0.69	0.60	0.64	0.66	0.62	0.54	1.13	0.43	0.37	0.32	0.28	0.24	0.19	0.14
90W	3.01	2.42	1.89	1.40	0.97	0.71	0.62	0.65	0.66	0.62	0.56	0.49	0.43	0.38	0.33	0.29	0.25	0.19	0.14
95W	2.96	2.38	1.80	1.34	0.77	0.74	0.65	0.65	0.66	0.62	0.55	0.49	0.43	0.38	0.34	0.30	0.25	0.19	0.14
100W	2.87	2.30	1.76	1.30	0.66	0.75	0.67	0.66	0.65	0.61	0.55	0.49	0.43	0.38	0.34	0.30	0.25	0.19	0.14
105W	2.85	2.28	1.70	1.24	0.95	0.76	0.68	0.66	0.65	0.61	0.55	0.49	0.44	0.39	0.34	0.30	0.25	0.20	0.14
110W	2.80	2.22	1.64	1.20	0.94	0.78	0.69	0.67	0.65	0.61	0.56	0.50	0.44	0.39	0.35	0.31	0.26	0.20	0.14
115W	2.62	2.11	1.58	1.19	0.95	0.80	0.71	0.67	0.65	0.62	0.56	0.50	0.44	0.39	0.35	0.31	0.26	0.20	0.14
120W	2.32	1.94	1.52	1.19	0.97	0.84	0.74	0.69	0.66	0.62	0.56	0.50	0.44	0.40	0.35	0.31	0.26	0.20	0.14
125W	2.08	1.80	1.48	1.21	1.02	0.89	0.77	0.71	0.67	0.62	0.56	0.50	0.45	0.40	0.35	0.31	0.26	0.20	0.14
130W	1.98	1.71	1.45	1.24	1.07	0.95	0.83	0.75	0.68	0.62	0.56	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.14
135W	1.94	1.68	1.46	1.28	1.15	1.03	0.91	0.80	0.70	0.62	0.56	0.50	0.45	0.40	0.35	0.30	0.25	0.19	0.14
140W	1.94	1.68	1.49	1.34	1.22	1.10	0.98	0.85	0.73	0.63	0.56	0.51	0.45	0.40	0.35	0.30	0.25	0.19	0.14
145W	1.94	1.70	1.54	1.41	1.30	1.18	1.05	0.90	0.74	0.63	0.56	0.51	0.45	0.40	0.34	0.30	0.25	0.19	0.14
150W	1.93	1.73	1.58	1.48	1.35	1.24	1.09	0.93	0.76	0.63	0.56	0.51	0.45	0.40	0.34	0.29	0.24	0.19	0.14
155W	1.93	1.76	1.64	1.54	1.44	1.30	1.13	0.96	0.77	0.63	0.56	0.50	0.45	0.39	0.34	0.28	0.24	0.18	0.14
160W	1.98	1.82	1.74	1.67	1.53	1.35	1.16	0.96	0.77	0.63	0.56	0.50	0.45	0.38	0.33	0.28	0.23	0.18	0.14
165W	2.06	1.93	1.89	1.83	1.67	1.43	1.18	0.96	0.77	0.64	0.55	0.51	0.44	0.38	0.32	0.27	0.22	0.18	0.14
170W	2.15	2.11	2.08	2.01	1.80	1.49	1.18	0.93	0.75	0.64	0.57	0.51	0.44	0.37	0.31	0.26	0.22	0.17	0.14
175W	2.38	2.36	2.34	2.19	1.89	1.50	1.18	0.89	0.74	0.64	0.57	0.51	0.44	0.36	0.30	0.24	0.21	0.17	0.14
180W	2.58	2.65	2.58	2.32	1.93	1.46	1.07	0.83	0.72	0.64	0.57	0.51	0.44	0.36	0.28	0.23	0.20	0.16	0.14
-175E	2.71	2.85	2.76	2.40	1.89	1.35	0.95	0.76	0.70	0.64	0.58	0.51	0.43	0.34	0.27	0.22	0.19	0.16	0.14
-170E	2.73	2.98	2.85	2.38	1.77	1.20	0.83	0.70	0.68	0.64	0.58	0.51	0.43	0.33	0.25	0.21	0.18	0.15	0.14
-165E	2.76	2.94	2.80	2.24	1.60	1.05	0.75	0.67	0.67	0.64	0.57	0.50	0.42	0.32	0.24	0.19	0.17	0.15	0.14
-160E	2.82	2.94	2.71	2.06	1.43	0.97	0.74	0.68	0.67	0.63	0.56	0.49	0.40	0.31	0.23	0.00	0.00	0.00	0.00
-155E	2.82	2.94	2.58	1.88	1.30	0.95	0.78	0.73	0.69	0.61	0.54	0.47	0.39	0.30	0.22	0.00	0.00	0.00	0.00
-150E	2.82	2.87	2.40	1.70	1.21	0.94	0.80	0.73	0.66	0.58	0.52	0.45	0.38	0.29	0.00	0.00	0.00	0.00	0.00
-145E	2.82	2.80	2.22	1.54	1.13	0.90	0.77	0.69	0.61	0.55	0.50	0.44	0.37	0.28	0.00	0.00	0.00	0.00	0.00
-140E	2.78	2.73	2.10	1.46	1.11	0.90	0.73	0.64	0.57	0.53	0.48	0.43	0.36	0.28	0.00	0.00	0.00	0.00	0.00
-135E	2.71	2.71	2.36	1.46	1.18	0.95	0.75	0.62	0.56	0.51	0.44	0.42	0.36	0.28	0.00	0.00	0.00	0.00	0.00
-130E	2.71	2.73	2.38	1.50	1.25	1.04	0.79	0.62	0.55	0.51	0.47	0.42	0.36	0.27	0.00	0.00	0.00	0.00	0.00
-125E	2.71	2.76	2.11	1.53	1.30	1.09	0.82	0.63	0.55	0.51	0.46	0.42	0.35	0.27	0.00	0.00	0.00	0.00	0.00
-120E	2.69	2.78	2.13	1.52	1.27	1.07	0.81	0.62	0.54	0.50	0.46	0.41	0.35	0.27	0.00	0.00	0.00	0.00	0.00
-115E	2.60	2.78	2.11	1.48	1.21	1.01	0.77	0.61	0.54	0.50	0.46	0.41	0.35	0.27	0.00	0.00	0.00	0.00	0.00
-110E	2.69	2.73	2.04	1.41	1.23	0.92	0.71	0.59	0.54	0.50	0.46	0.41	0.35	0.27	0.00	0.00	0.00	0.00	0.00
-105E	2.60	2.65	1.98	1.37	1.07	0.86	0.67	0.58	0.54	0.50	0.46	0.41	0.35	0.27	0.00	0.00	0.00	0.00	0.00
-100E	2.52	2.58	1.94	1.34	1.04	0.82	0.65	0.57	0.54	0.51	0.46	0.42	0.35	0.27	0.00	0.00	0.00	0.00	0.00
-95E	2.52	2.54	1.93	1.33	1.01	0.80	0.65	0.58	0.55	0.51	0.47	0.42	0.35	0.27	0.00	0.00	0.00	0.00	0.00
-90E	2.62	2.58	1.91	1.33	1.01	0.80	0.66	0.59	0.55	0.52	0.48	0.42	0.35	0.26	0.00	0.00	0.00	0.00	0.00
-85E	2.69	2.54	1.91	1.33	1.02	0.82	0.67	0.60	0.56	0.53	0.49	0.43	0.35	0.26	0.00	0.00	0.00	0.00	0.00
-80E	2.71	2.58	1.89	1.34	1.04	0.84	0.70	0.61	0.57	0.54	0.50	0.44	0.35	0.26	0.00	0.00	0.00	0.00	0.00
-75E	2.76	2.58	1.91	1.35	1.06	0.87	0.73	0.63	0.58	0.55	0.51	0.45	0.35	0.25	0.00	0.00	0.00	0.00	0.00
-70E	2.76	2.58	1.91	1.37	1.08	0.91	0.76	0.65	0.60	0.56	0.53	0.45	0.35	0.25	0.00	0.00	0.00	0.00	0.00
-65E	2.65	2.52	1.93	1.40	1.12	0.94	0.80	0.69	0.61	0.57	0.53	0.46	0.36	0.24	0.00	0.00	0.00	0.00	0.00
-60E	2.88	2.50	1.98	1.45	1.18	0.99	0.84	0.72	0.64	0.61	0.54	0.46	0.36	0.24	0.00	0.00	0.00	0.00	0.00
-55E	2.38	2.52	2.04	1.52	1.22	1.03	0.88	0.75	0.66	0.60	0.55	0.46	0.36	0.24	0.00	0.00	0.00	0.00	0.00
-50E	2.38	2.56	2.13	1.58	1.27	1.07	0.92	0.78	0.68	0.61	0.55	0.47	0.36	0.24	0.00	0.00	0.00	0.00	0.00
-45E	2.34	2.62	2.22	1.67	1.37	1.15	0.97	0.81	0.70	0.62	0.55	0.47	0.36	0.24	0.00	0.00	0.00	0.00	0.00
-40E	2.44	2.65	2.20	1.64	1.43	1.25	1.04	0.84	0.71	0.62	0.55	0.46	0.36	0.24	0.15	0.00	0.00	0.00	0.00
-35E	2.78	2.73	2.20	1.58	1.38	1.27	1.07	0.86	0.72	0.62	0.								

TABLE 21 SURFACE MIXING RATIO VALUES (GM/KGM)-JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	14.77	13.60	12.43	11.35	10.42	9.50	8.65	7.82	6.24	4.64	3.44	2.55	1.79	1.07	0.38	0.00	0.00	0.00	0.00
5W	14.87	13.68	12.47	11.65	10.49	9.50	8.59	7.77	6.24	4.64	3.44	2.53	1.75	1.02	0.35	0.01	0.01	0.01	0.00
10W	14.96	14.04	13.04	12.03	10.77	9.56	8.65	7.77	6.24	4.64	3.44	2.47	1.71	1.00	0.40	0.02	0.01	0.01	0.00
15W	15.54	14.31	13.51	12.51	11.20	9.89	8.80	7.82	6.28	4.64	3.42	2.45	1.68	0.98	0.46	0.08	0.01	0.01	0.00
20W	16.14	14.96	14.04	13.00	11.72	10.28	9.07	7.87	6.32	4.67	3.44	2.40	1.66	0.98	0.50	0.16	0.02	0.01	0.00
25W	16.65	15.64	14.64	13.51	12.35	10.84	9.25	7.98	6.32	4.70	3.42	2.36	1.61	0.98	0.54	0.26	0.05	0.01	0.00
30W	16.76	15.94	15.34	14.22	12.83	11.50	9.56	8.09	6.32	4.77	3.44	2.34	1.58	0.98	0.57	0.33	0.08	0.01	0.00
35W	16.76	15.34	15.44	15.25	13.60	11.95	9.82	8.20	6.32	4.77	3.47	2.31	1.54	0.97	0.58	0.35	0.00	0.01	0.00
40W	17.18	12.97	10.77	12.92	12.75	12.27	10.28	8.25	6.32	4.81	3.57	2.34	1.54	0.96	0.58	0.35	0.29	0.02	0.00
45W	17.84	14.04	14.96	13.17	7.93	11.57	10.70	8.25	6.32	4.88	3.73	2.51	1.62	0.97	0.58	0.35	0.13	0.02	0.00
50W	17.00	18.06	13.00	9.89	9.50	7.51	8.65	7.87	6.28	4.95	3.93	2.79	1.79	0.98	0.55	0.32	0.12	0.02	0.00
55W	17.08	17.18	12.83	11.05	9.82	8.95	7.66	6.73	5.98	4.95	4.10	3.08	2.02	1.06	0.50	0.22	0.11	0.04	0.00
60W	17.18	17.18	13.51	12.35	10.42	7.98	6.50	6.32	5.20	4.57	4.16	3.37	2.34	1.21	0.43	0.15	0.10	0.04	0.00
65W	17.40	17.40	14.59	10.84	6.78	4.95	4.44	4.84	4.38	3.93	3.98	4.13	2.65	1.46	0.32	0.10	0.08	0.02	0.00
70W	17.42	17.18	13.17	7.01	7.77	5.50	6.55	5.82	3.37	3.08	3.17	3.57	2.85	1.68	0.43	0.11	0.08	0.02	0.00
75W	10.94	15.34	11.50	7.77	9.31	8.59	7.51	6.68	6.11	5.31	4.16	3.98	2.96	1.79	0.61	0.12	0.07	0.02	0.00
80W	15.25	13.42	12.27	10.28	10.09	9.19	7.66	6.78	6.11	2.65	4.70	3.98	3.04	1.88	0.72	0.13	0.07	0.02	0.00
85W	15.54	14.31	12.83	10.49	9.69	9.31	7.87	6.96	6.19	2.65	4.77	4.07	3.17	1.94	0.79	0.15	0.07	0.02	0.00
90W	14.48	13.69	12.43	10.70	9.89	9.63	8.25	7.21	6.32	5.58	4.77	4.10	3.17	1.94	0.83	0.16	0.07	0.02	0.00
95W	14.40	13.51	12.59	11.80	10.15	9.82	8.48	7.41	6.41	5.62	4.77	4.10	3.22	1.94	0.87	0.18	0.07	0.02	0.00
100W	14.77	13.51	12.43	12.11	11.27	10.08	8.77	7.66	6.50	5.66	4.77	4.07	3.22	1.94	0.93	0.20	0.07	0.02	0.00
105W	14.87	14.04	13.60	12.92	11.88	10.42	9.13	7.77	6.59	5.70	4.81	4.10	3.19	1.93	0.93	0.20	0.07	0.02	0.00
110W	15.74	14.40	13.77	13.51	12.35	10.77	9.25	7.93	6.64	5.66	4.77	4.10	3.17	1.93	0.93	0.20	0.07	0.02	0.00
115W	16.04	14.59	14.04	13.51	12.83	11.27	9.50	8.03	6.73	5.66	4.77	4.10	3.17	1.91	0.93	0.22	0.07	0.04	0.00
120W	16.05	14.77	14.40	13.68	13.25	11.50	9.63	8.09	6.78	5.66	4.77	4.04	3.15	1.91	0.93	0.22	0.08	0.04	0.00
125W	16.05	15.34	15.15	14.68	13.42	11.65	9.69	8.03	6.78	5.66	4.77	4.07	3.10	1.88	0.95	0.24	0.08	0.04	0.00
130W	16.55	15.04	15.94	15.25	13.60	11.72	9.63	7.98	6.68	5.62	4.77	4.01	3.08	1.94	0.96	0.26	0.08	0.04	0.00
135W	16.55	16.55	16.76	15.74	13.86	11.57	9.50	7.87	6.59	5.58	4.74	4.01	3.05	1.88	0.93	0.29	0.08	0.04	0.00
140W	16.55	16.76	18.18	16.34	13.68	11.35	9.19	7.71	6.46	5.50	4.70	4.01	2.99	1.82	0.93	0.32	0.08	0.05	0.00
145W	16.65	16.86	18.41	16.65	13.60	10.90	9.07	7.51	6.37	5.50	4.70	4.01	2.99	1.79	0.93	0.32	0.08	0.06	0.00
150W	16.76	16.86	18.52	16.55	13.34	10.77	8.83	7.41	6.32	5.38	4.44	4.01	2.96	1.79	0.93	0.32	0.09	0.06	0.00
155W	16.76	17.29	18.52	16.34	13.34	10.56	8.71	7.36	6.28	5.42	4.70	4.01	2.92	1.79	0.89	0.35	0.09	0.06	0.00
160W	16.76	18.29	18.87	16.34	13.34	10.56	8.65	7.36	6.32	5.46	4.74	4.04	2.88	1.78	0.86	0.35	0.10	0.06	0.00
165W	17.08	19.22	18.75	16.34	13.34	10.56	8.65	7.36	6.32	5.50	4.74	4.01	2.88	1.78	0.86	0.37	0.11	0.06	0.00
170W	17.51	19.34	18.52	16.24	13.42	10.56	8.50	7.36	6.32	5.54	4.77	4.01	2.85	1.67	0.79	0.38	0.13	0.06	0.00
175W	17.84	19.46	18.18	16.34	13.51	10.63	8.50	7.31	6.41	5.54	4.77	4.01	2.85	1.66	0.76	0.41	0.16	0.06	0.00
180W	18.64	19.70	18.06	16.04	13.51	10.77	8.65	7.11	6.15	5.50	4.77	4.04	2.75	1.61	0.72	0.41	0.18	0.05	0.00
175E	18.07	10.58	17.84	15.74	13.51	10.84	8.65	6.78	5.35	5.35	4.81	4.01	2.69	1.54	0.68	0.39	0.20	0.04	0.00
170E	19.70	19.22	17.08	14.68	13.25	10.70	8.65	7.06	5.66	4.44	4.77	4.07	2.65	1.53	0.60	0.34	0.18	0.04	0.00
165E	19.95	18.52	16.04	13.25	11.57	10.28	8.71	7.56	6.11	4.95	4.57	4.01	2.65	1.48	0.50	0.20	0.15	0.02	0.00
160E	20.20	17.84	15.64	13.51	11.80	10.42	9.07	7.93	6.64	5.02	4.32	3.96	2.63	1.39	0.35	0.00	0.11	0.00	0.00
155E	19.83	17.51	16.97	15.25	12.59	10.35	8.20	7.93	6.92	5.02	4.28	3.87	2.55	1.28	0.20	0.00	0.00	0.00	0.00
150E	19.54	18.41	17.51	15.34	10.98	4.77	4.95	4.74	6.50	4.84	4.25	3.70	2.85	1.15	0.00	0.00	0.00	0.00	0.00
145E	19.14	17.51	16.97	12.35	5.50	3.98	5.12	5.02	5.98	4.81	4.19	3.57	2.38	1.01	0.00	0.00	0.00	0.00	0.00
140E	19.46	16.97	15.94	10.15	5.27	3.98	4.60	5.82	6.32	5.02	4.25	3.54	2.27	0.92	0.00	0.00	0.00	0.00	0.00
135E	19.46	17.95	15.54	6.55	4.13	3.73	4.84	6.73	6.64	5.27	4.28	3.44	2.24	0.86	0.00	0.00	0.00	0.00	0.00
130E	19.10	17.40	15.44	7.41	3.65	3.54	4.28	7.26	6.78	5.38	4.32	3.39	2.18	0.86	0.00	0.00	0.00	0.00	0.00
125E	18.86	17.29	16.06	8.89	4.25	3.32	5.31	7.77	6.92	5.46	4.35	3.32	2.13	0.86	0.00	0.00	0.00	0.00	0.00
120E	18.86	16.86	15.94	14.68	6.68	3.47	5.12	6.78	6.92	5.38	4.28	3.32	2.10	0.88	0.00	0.00	0.00	0.00	0.00
115E	18.06	17.84	17.08	15.34	8.31	6.28	7.16	7.93	6.92	5.25	4.22	3.10	2.10	0.91	0.00	0.00	0.00	0.00	0.00
110E	18.41	17.62	17.62	15.34	10.91	9.69	9.44	8.25	6.68	5.20	4.01	3.03	2.07	0.93	0.00	0.00	0.00	0.00	0.00
105E	17.40	16.97	18.87	15.44	12.59	10.70	9.25	7.93	6.50	4.98	3.96	2.96	2.04	0.93	0.00	0.00	0.00	0.00	0.00
100E	16.86	17.40	18.29	15.34	12.51	10.49	9.01	7.61	6.19	4.84	3.70	2.92	2.02	0.93	0.00	0.00	0.00	0.00	0.00
95E	17.40	17.51	17.40	15.15	12.27	10.22	8.71	7.51	6.06	4.70	3.68	2.85	1.99	0.93	0.00	0.00	0.00	0.00	0.00
90E	18.06	17.84	17.18	14.96	11.95	10.02	8.59	7.66	6.02	4.64	3.62	2.83	1.94	0.97	0.00	0.00	0.00	0.00	0.00
85E	18.29	17.73	17.08	14.59	11.80	9.95	8.54	7.36	6.02	4.60	3.57	2.79	1.94	1.07	0.00	0.00	0.00	0.00	0.00
80E	18.29	17.62	16.97	14.40	11.80	9.95	8.54	7.36	6.02	4.47	3.47	2.73	1.91	1.10	0.00	0.00	0.00	0.00	0.00
75E	18.29	17.51	16.76	14.40	11.72	9.89	8.54	7.41	6.02	4.44	3.44	2.69	1.84	1.15	0.00	0.00	0.00	0.00	0.00
70E	18.06	17.51	16.86	14.49	11.57	9.95	8.59	7.46	6.06	4.44	3.42	2.65	1.85	1.14	0.00	0.00	0.00	0.00	0.00
65E	17.95	17.51	17.08	15.06	11.57	10.02	8.71	7.86	6.11	4.84	3.39	2.61	1.82	1.10	0.00	0.00	0.00	0.00	0.00
60E	17.84	17.40	17.18	15.34	11.50	10.15	8.89	7.61	6.15	4.44	3.39	2.59	1.79	1.02	0.00	0.00	0.00	0.00	0.00
55E	17.73	16.76	16.55	15.54	12.03	10.49	9.07	7.71	6.24	4.44	3.39	2.57	1.79	1.01	0.00	0.00	0.00	0.00	0.00
50E	17.62	16.24	14.68	12.51	13.34	11.20	9.25	7.77	6.28	4.44	3.39	2.57	1.79	1.01	0.00	0.00	0.00	0.00	0.00
45E	17.29	16.34	14.49	14.04	10.15	10.98	9.56	7.93	6.32	4.51	3.42	2.55	1.79	1.10					

TABLE 2J H50-MR MIXING RATIO VALUES (GM/KGM)-JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	9.44	8.55	7.45	6.43	5.46	5.08	4.56	4.02	3.44	2.80	2.21	1.76	1.31	0.85	0.50	0.00	0.00	0.00	0.10
5W	9.71	8.40	7.45	6.57	5.86	5.31	4.69	4.08	3.44	2.80	2.21	1.76	1.31	0.87	0.53	0.34	0.24	0.15	0.10
10W	9.86	8.55	7.55	6.66	5.99	5.42	4.79	4.11	3.44	2.78	2.21	1.74	1.31	0.89	0.56	0.37	0.26	0.15	0.10
15W	9.86	8.67	7.61	6.76	6.03	5.46	4.86	4.14	3.44	2.78	2.21	1.74	1.32	0.93	0.60	0.41	0.28	0.16	0.10
20W	10.00	8.73	7.66	6.76	6.08	5.54	4.94	4.17	3.41	2.78	2.20	1.73	1.32	0.96	0.65	0.44	0.29	0.16	0.10
25W	10.06	8.79	7.71	6.85	6.16	5.62	5.01	4.20	3.41	2.75	2.20	1.71	1.33	0.99	0.69	0.47	0.31	0.17	0.10
30W	10.27	9.16	7.93	6.95	6.30	5.78	5.08	4.20	3.41	2.75	2.18	1.71	1.33	1.01	0.72	0.49	0.32	0.17	0.10
35W	10.91	10.06	8.61	7.29	6.57	5.99	5.19	4.20	3.38	2.73	2.18	1.71	1.34	1.03	0.74	0.50	0.00	0.17	0.10
40W	11.66	11.35	9.66	7.98	7.04	6.25	5.27	4.20	3.36	2.69	2.16	1.71	1.36	1.04	0.78	0.50	0.32	0.17	0.10
45W	11.43	11.81	10.55	8.67	7.45	6.48	5.27	4.17	3.33	2.69	2.18	1.76	1.40	1.06	0.73	0.49	0.32	0.17	0.10
50W	10.20	11.13	10.48	8.91	7.66	6.48	5.23	4.14	3.31	2.69	2.20	1.81	1.47	1.08	0.70	0.46	0.31	0.17	0.10
55W	9.15	10.00	9.80	8.79	7.50	6.21	5.04	4.05	3.28	2.67	2.21	1.89	1.54	1.10	0.68	0.44	0.29	0.17	0.10
60W	8.45	7.28	9.80	8.43	7.19	5.95	4.86	3.96	3.16	2.59	2.25	2.01	1.66	1.12	0.66	0.41	0.28	0.17	0.10
65W	8.79	8.55	7.66	6.43	5.34	4.52	4.05	3.59	3.00	2.53	2.34	2.18	1.79	1.14	0.64	0.39	0.27	0.17	0.10
70W	9.09	7.76	5.70	4.11	3.41	3.11	3.19	3.23	3.04	2.71	2.57	2.36	1.87	1.16	0.63	0.38	0.26	0.17	0.10
75W	9.93	7.50	4.86	3.30	2.93	2.84	3.07	3.31	3.26	3.00	2.78	2.43	1.87	1.16	0.63	0.37	0.25	0.17	0.10
80W	10.34	7.55	4.12	3.90	3.62	3.51	3.54	3.54	3.38	3.09	2.75	2.34	1.81	1.16	0.64	0.37	0.25	0.16	0.10
85W	9.41	7.29	5.50	4.56	4.26	4.05	3.87	3.68	3.36	3.02	2.67	2.27	1.77	1.16	0.65	0.37	0.24	0.16	0.10
90W	8.49	7.00	5.74	5.04	4.39	4.14	3.82	3.41	3.04	2.65	2.23	1.73	1.16	0.66	0.38	0.24	0.16	0.10	0.10
95W	8.76	6.85	5.86	5.27	4.14	4.62	4.33	3.90	3.44	3.04	2.65	2.20	1.70	1.15	0.67	0.39	0.24	0.16	0.10
100W	8.21	6.80	5.71	5.42	4.02	4.79	4.46	3.96	3.46	3.04	2.65	2.10	1.67	1.13	0.68	0.39	0.25	0.16	0.10
105W	7.98	6.76	5.95	5.54	3.87	4.94	4.52	3.99	3.46	3.04	2.65	2.18	1.65	1.12	0.69	0.40	0.25	0.16	0.10
110W	7.82	6.71	6.03	5.70	3.76	5.15	4.69	4.05	3.49	3.07	2.65	2.15	1.62	1.11	0.69	0.41	0.26	0.16	0.10
115W	7.71	6.76	6.16	5.86	3.62	5.34	4.83	4.17	3.51	3.07	2.65	2.15	1.59	1.10	0.69	0.42	0.26	0.16	0.10
120W	7.66	6.90	6.43	6.16	3.46	5.50	4.94	4.20	3.54	3.07	2.65	2.13	1.59	1.10	0.70	0.43	0.27	0.17	0.10
125W	7.76	7.14	6.80	6.57	3.28	5.66	4.97	4.20	3.54	3.07	2.63	2.13	1.59	1.10	0.70	0.44	0.28	0.17	0.10
130W	7.98	7.45	7.19	7.00	3.09	5.86	5.08	4.26	3.57	3.07	2.63	2.13	1.59	1.10	0.70	0.45	0.29	0.17	0.10
135W	8.21	7.76	7.61	7.45	2.93	5.99	5.15	4.30	3.57	3.07	2.65	2.13	1.59	1.10	0.71	0.46	0.30	0.17	0.10
140W	8.38	8.04	7.98	7.82	2.82	6.08	5.15	4.30	3.57	3.07	2.63	2.13	1.59	1.10	0.71	0.47	0.31	0.17	0.10
145W	8.49	8.32	8.32	8.09	2.75	6.16	5.15	4.30	3.57	3.07	2.63	2.13	1.58	1.10	0.71	0.48	0.32	0.17	0.10
150W	8.65	8.61	8.73	8.49	2.67	6.21	5.15	4.26	3.57	3.04	2.63	2.13	1.58	1.10	0.71	0.48	0.32	0.18	0.10
155W	8.67	8.91	9.15	8.85	2.59	6.21	5.12	4.23	3.54	3.02	2.61	2.13	1.58	1.09	0.71	0.48	0.32	0.17	0.10
160W	8.73	9.15	9.47	9.03	2.57	6.21	5.12	4.23	3.51	3.02	2.61	2.13	1.58	1.09	0.71	0.48	0.32	0.17	0.10
165W	8.85	9.47	9.73	9.09	2.57	6.25	5.12	4.20	3.49	3.00	2.61	2.15	1.59	1.09	0.70	0.47	0.32	0.17	0.10
170W	9.34	10.00	10.13	9.28	2.55	6.21	5.08	4.14	3.44	2.95	2.63	2.16	1.61	1.08	0.67	0.45	0.31	0.17	0.10
175W	10.20	10.69	10.55	9.87	2.55	6.16	4.97	4.05	3.36	2.91	2.61	2.18	1.62	1.06	0.64	0.43	0.29	0.16	0.10
180W	10.91	11.28	10.98	9.66	2.57	6.03	4.86	3.96	3.23	2.84	2.59	2.20	1.63	1.03	0.60	0.40	0.28	0.16	0.10
175E	11.43	11.64	11.20	9.66	2.65	5.82	4.74	3.87	3.16	2.80	2.59	2.21	1.63	1.00	0.55	0.36	0.26	0.15	0.10
170E	11.81	11.97	11.35	9.41	2.78	5.62	4.66	3.84	3.16	2.80	2.59	2.21	1.61	0.95	0.50	0.32	0.24	0.15	0.10
165E	12.21	12.21	11.20	8.97	2.97	5.38	4.52	3.82	3.19	2.82	2.59	2.20	1.58	0.88	0.45	0.29	0.22	0.14	0.10
160E	12.29	12.21	10.76	8.38	3.21	5.12	4.36	3.76	3.21	2.84	2.57	2.16	1.52	0.82	0.40	0.00	0.00	0.00	0.00
155E	12.37	11.89	10.06	7.71	3.46	4.69	3.99	3.57	3.19	2.84	2.55	2.11	1.43	0.75	0.35	0.00	0.00	0.00	0.00
150E	12.29	11.43	9.28	6.95	3.90	4.05	3.44	3.26	3.11	2.84	2.53	2.05	1.35	0.68	0.00	0.00	0.00	0.00	0.00
145E	11.97	10.83	8.49	6.16	4.52	3.04	2.95	3.00	3.02	2.82	2.49	1.98	1.27	0.63	0.00	0.00	0.00	0.00	0.00
140E	11.50	10.27	7.87	5.50	3.93	3.04	2.78	2.93	3.00	2.78	2.43	1.92	1.21	0.59	0.00	0.00	0.00	0.00	0.00
135E	11.13	10.06	7.61	5.15	3.65	2.95	2.86	3.04	3.07	2.78	2.40	1.87	1.18	0.57	0.00	0.00	0.00	0.00	0.00
130E	11.05	10.13	7.76	5.19	3.62	3.04	3.07	3.23	3.14	2.75	2.36	1.86	1.17	0.58	0.00	0.00	0.00	0.00	0.00
125E	11.05	10.27	8.15	5.42	3.76	3.21	3.31	3.41	3.16	2.73	2.32	1.84	1.17	0.60	0.00	0.00	0.00	0.00	0.00
120E	10.98	10.34	8.55	5.91	4.08	3.49	3.54	3.51	3.16	2.69	2.30	1.84	1.21	0.62	0.00	0.00	0.00	0.00	0.00
115E	10.91	10.41	9.03	6.71	4.83	4.05	3.87	3.59	3.14	2.67	2.29	1.84	1.23	0.65	0.00	0.00	0.00	0.00	0.00
110E	10.83	10.48	9.47	7.61	5.82	4.76	4.20	3.65	3.07	2.61	2.27	1.84	1.25	0.67	0.00	0.00	0.00	0.00	0.00
105E	10.83	10.48	9.73	8.21	6.52	5.23	4.33	3.59	3.02	2.59	2.25	1.83	1.26	0.69	0.00	0.00	0.00	0.00	0.00
100E	10.83	10.55	9.93	8.49	6.80	5.34	4.30	3.54	2.97	2.57	2.25	1.83	1.27	0.72	0.00	0.00	0.00	0.00	0.00
95E	10.83	10.62	10.00	8.67	6.90	5.34	4.24	3.49	2.93	2.61	2.23	1.83	1.30	0.75	0.00	0.00	0.00	0.00	0.00
90E	10.83	10.69	10.06	8.67	6.90	5.34	4.23	3.44	2.91	2.53	2.21	1.81	1.31	0.78	0.00	0.00	0.00	0.00	0.00
85E	10.83	10.69	10.06	8.67	6.90	5.34	4.23	3.44	2.88	2.51	2.20	1.79	1.31	0.78	0.00	0.00	0.00	0.00	0.00
80E	10.83	10.69	10.13	8.67	6.90	5.38	4.23	3.44	2.88	2.53	2.18	1.76	1.29	0.77	0.00	0.00	0.00	0.00	0.00
75E	10.83	10.76	10.13	8.67	6.90	5.42	4.23	3.44	2.88	2.53	2.16	1.73	1.22	0.72	0.00	0.00	0.00	0.00	0.00
70E	10.91	10.76	10.13	8.67	6.95	5.46	4.30	3.46	2.91	2.53	2.16	1.69	1.16	0.67	0.00	0.00	0.00	0.00	0.00
65E	10.98	10.83	10.13	8.67	6.95	5.50	4.36	3.51	2.95	2.55	2.16	1.66	1.10	0.62	0.00	0.00	0.00	0.00	0.00
60E	11.05	10.91	10.20	8.73	7.08	5.62	4.42	3.59	3.00	2.57	2.16	1.63	1.07	0.59	0.00	0.00	0.00	0.00	0.00
55E	11.13	11.13	10.27	8.79	7.19	5.74	4.54	3.65	3.04	2.59	2.16	1.63	1.08	0.60	0.00	0.00	0.00	0.00	0.00
50E	11.81	11.28	10.20	8.73	7.24	5.86	4.64	3.73	3.11	2.63	2.18	1.66	1.10	0.63	0.00	0.00	0.00	0.00	0.00
45E	12.13	11.05	9.46	8.49	7.09	5.78	4.73	3.82	3.19	2.65	2.18	1.67	1.15	0.68	0.00	0.00	0.00	0.00	0.00
40E	12.13	10.06	8.79	7.82	6.76	5.66	4.66	3.84	3.23	2.67	2.18	1.69	1.19	0.74	0.38	0.00	0.00	0.00	0.00
35E																			

TABLE 2K 700-MR MIXING RATIO VALUES (GM/KGM)-JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	4.40	3.42	2.50	1.95	1.72	1.67	1.65	1.56	1.39	1.19	1.03	0.85	0.66	0.47	0.31	0.00	0.00	0.00	0.11
5W	3.90	2.93	2.26	1.90	1.77	1.72	1.69	1.55	1.36	1.18	1.02	0.85	0.66	0.47	0.32	0.23	0.17	0.12	0.11
10W	3.50	2.60	2.17	1.90	1.91	1.78	1.71	1.55	1.35	1.17	1.01	0.84	0.65	0.48	0.37	0.24	0.18	0.13	0.11
15W	3.32	2.65	2.17	1.97	1.89	1.84	1.74	1.55	1.34	1.16	1.00	0.82	0.65	0.49	0.35	0.26	0.20	0.14	0.11
20W	3.53	2.78	2.33	2.15	2.07	1.97	1.80	1.57	1.34	1.16	0.99	0.82	0.65	0.49	0.37	0.29	0.21	0.15	0.11
25W	3.78	3.10	2.69	2.52	2.39	2.19	1.92	1.61	1.35	1.16	0.99	0.82	0.65	0.50	0.39	0.31	0.23	0.15	0.11
30W	4.14	3.61	3.27	3.07	2.84	2.50	2.12	1.70	1.38	1.16	1.00	0.83	0.66	0.52	0.41	0.33	0.25	0.16	0.11
35W	4.85	4.43	4.11	3.81	3.48	2.98	2.37	1.80	1.40	1.17	1.01	0.85	0.69	0.54	0.43	0.35	0.26	0.17	0.11
40W	5.26	5.58	5.26	4.78	4.21	3.50	2.65	1.90	1.44	1.18	1.03	0.89	0.72	0.57	0.46	0.37	0.29	0.18	0.11
45W	4.71	6.40	4.85	5.70	4.92	3.93	2.84	1.98	1.47	1.19	1.05	0.93	0.76	0.60	0.48	0.39	0.30	0.19	0.11
50W	4.53	6.63	4.53	6.22	5.26	4.05	2.86	2.02	1.51	1.21	1.06	0.96	0.80	0.64	0.51	0.41	0.32	0.20	0.11
55W	4.50	6.64	4.53	6.22	5.11	3.81	2.73	2.02	1.54	1.23	1.08	0.99	0.85	0.67	0.53	0.43	0.33	0.20	0.11
60W	6.69	6.64	4.57	5.87	4.60	3.45	2.61	2.00	1.56	1.24	1.11	1.05	0.82	0.70	0.55	0.44	0.34	0.21	0.11
65W	6.50	6.64	4.89	4.78	3.40	2.67	2.29	1.93	1.59	1.30	1.20	1.15	0.97	0.73	0.56	0.45	0.35	0.21	0.11
70W	6.64	6.64	5.00	3.12	2.00	2.28	1.63	1.65	1.57	1.41	1.33	1.23	1.00	0.74	0.57	0.46	0.36	0.22	0.11
75W	7.13	5.70	3.73	2.08	1.32	1.14	1.21	1.38	1.48	1.45	1.36	1.22	0.97	0.74	0.58	0.47	0.37	0.22	0.11
80W	7.18	4.96	3.00	1.80	1.30	1.16	1.17	1.29	1.40	1.36	1.25	1.10	0.92	0.73	0.58	0.48	0.38	0.23	0.11
85W	6.50	4.37	2.75	1.88	1.47	1.34	1.30	1.34	1.36	1.29	1.16	1.03	0.89	0.73	0.58	0.48	0.38	0.23	0.11
90W	5.79	4.05	2.75	1.96	1.64	1.47	1.41	1.39	1.35	1.25	1.13	1.01	0.88	0.73	0.58	0.48	0.39	0.23	0.11
95W	5.50	3.93	2.84	2.15	1.78	1.60	1.48	1.42	1.35	1.24	1.12	1.00	0.87	0.72	0.58	0.48	0.39	0.23	0.11
100W	5.38	3.93	2.91	2.28	1.90	1.70	1.56	1.45	1.35	1.23	1.11	0.99	0.86	0.71	0.58	0.48	0.39	0.23	0.11
105W	5.22	3.87	2.96	2.37	2.02	1.78	1.63	1.48	1.36	1.23	1.11	0.99	0.85	0.71	0.57	0.48	0.39	0.23	0.11
110W	5.03	3.80	3.00	2.45	2.10	1.84	1.67	1.51	1.36	1.23	1.11	0.98	0.84	0.70	0.56	0.47	0.39	0.23	0.11
115W	4.91	3.78	3.03	2.50	2.15	1.90	1.70	1.52	1.36	1.22	1.10	0.98	0.83	0.69	0.56	0.47	0.38	0.23	0.11
120W	4.91	3.78	3.07	2.56	2.20	1.95	1.72	1.54	1.36	1.23	1.10	0.98	0.82	0.68	0.55	0.46	0.38	0.23	0.11
125W	4.71	3.78	3.10	2.61	2.26	1.98	1.75	1.54	1.36	1.23	1.10	0.98	0.82	0.67	0.54	0.45	0.37	0.23	0.11
130W	4.71	3.81	3.15	2.65	2.29	2.03	1.77	1.55	1.38	1.23	1.10	0.97	0.82	0.66	0.53	0.45	0.37	0.22	0.11
135W	4.71	3.87	3.22	2.73	2.37	2.07	1.80	1.55	1.36	1.23	1.10	0.97	0.82	0.66	0.52	0.44	0.36	0.22	0.11
140W	4.71	3.93	3.35	2.84	2.45	2.12	1.83	1.56	1.36	1.23	1.10	0.97	0.81	0.65	0.52	0.43	0.35	0.22	0.11
145W	4.71	3.96	3.45	2.93	2.56	2.19	1.86	1.57	1.38	1.23	1.11	0.97	0.81	0.64	0.51	0.42	0.34	0.21	0.11
150W	4.67	3.99	3.56	3.17	2.71	2.28	1.90	1.59	1.38	1.24	1.11	0.98	0.80	0.63	0.49	0.41	0.32	0.21	0.11
155W	4.60	4.02	3.67	3.25	2.91	2.39	1.93	1.60	1.38	1.24	1.12	0.98	0.80	0.62	0.49	0.39	0.31	0.20	0.11
160W	4.64	4.11	3.81	3.56	3.10	2.52	2.00	1.61	1.39	1.24	1.13	0.98	0.80	0.62	0.47	0.38	0.30	0.19	0.11
165W	4.64	4.24	4.05	3.84	3.32	2.63	2.03	1.63	1.38	1.24	1.13	0.99	0.80	0.61	0.46	0.36	0.24	0.18	0.11
170W	4.74	4.47	4.37	4.14	3.50	2.69	2.05	1.64	1.39	1.25	1.14	0.99	0.80	0.60	0.45	0.35	0.27	0.18	0.11
175W	5.15	4.80	4.74	4.37	3.50	2.69	2.05	1.65	1.41	1.26	1.15	1.00	0.79	0.59	0.43	0.33	0.25	0.17	0.11
180W	6.00	5.50	5.15	4.53	3.53	2.61	2.00	1.65	1.45	1.29	1.16	1.00	0.79	0.58	0.42	0.31	0.24	0.16	0.11
175E	6.83	6.18	5.18	4.53	3.37	2.45	1.92	1.64	1.46	1.31	1.17	1.01	0.79	0.57	0.40	0.29	0.22	0.15	0.11
170E	7.33	6.64	5.70	4.43	3.17	2.28	1.83	1.61	1.46	1.32	1.18	1.00	0.78	0.56	0.38	0.27	0.21	0.14	0.11
165E	7.44	6.88	5.74	4.24	2.96	2.15	1.75	1.57	1.45	1.31	1.17	0.99	0.77	0.55	0.37	0.25	0.19	0.14	0.11
160E	7.50	7.03	5.74	4.05	2.75	2.03	1.70	1.55	1.41	1.30	1.16	0.98	0.76	0.54	0.35	0.20	0.18	0.00	0.00
155E	7.55	7.08	5.58	3.75	2.50	1.89	1.61	1.50	1.39	1.27	1.16	0.97	0.75	0.52	0.33	0.00	0.00	0.00	0.00
150E	7.55	6.93	5.26	3.37	2.22	1.67	1.45	1.39	1.34	1.26	1.14	0.95	0.73	0.50	0.00	0.00	0.00	0.00	0.00
145E	7.51	6.50	4.74	3.00	2.00	1.50	1.30	1.26	1.27	1.23	1.12	0.93	0.70	0.49	0.00	0.00	0.00	0.00	0.00
140E	7.29	6.04	4.18	2.67	1.92	1.50	1.25	1.20	1.21	1.20	1.11	0.92	0.68	0.47	0.00	0.00	0.00	0.00	0.00
135E	6.93	5.46	3.67	2.46	1.92	1.57	1.30	1.19	1.19	1.19	1.09	0.90	0.67	0.46	0.00	0.00	0.00	0.00	0.00
130E	6.74	4.94	3.30	2.35	1.95	1.61	1.32	1.19	1.20	1.19	1.08	0.89	0.66	0.46	0.00	0.00	0.00	0.00	0.00
125E	6.74	4.67	3.10	2.28	1.93	1.60	1.31	1.20	1.22	1.21	1.07	0.88	0.66	0.46	0.00	0.00	0.00	0.00	0.00
120E	6.74	4.47	3.07	2.20	1.90	1.60	1.35	1.24	1.25	1.21	1.06	0.87	0.67	0.47	0.00	0.00	0.00	0.00	0.00
115E	5.79	4.43	3.19	2.35	1.92	1.64	1.44	1.32	1.27	1.21	1.06	0.87	0.68	0.48	0.00	0.00	0.00	0.00	0.00
110E	5.66	4.67	3.53	2.56	2.00	1.71	1.51	1.38	1.30	1.21	1.05	0.87	0.68	0.49	0.00	0.00	0.00	0.00	0.00
105E	6.09	5.22	4.08	2.89	2.13	1.77	1.55	1.39	1.30	1.20	1.05	0.87	0.69	0.50	0.00	0.00	0.00	0.00	0.00
100E	6.54	5.83	4.67	3.27	2.29	1.81	1.54	1.39	1.29	1.19	1.05	0.88	0.70	0.51	0.00	0.00	0.00	0.00	0.00
95E	6.69	6.18	5.07	3.56	2.43	1.86	1.56	1.38	1.27	1.19	1.05	0.88	0.70	0.52	0.00	0.00	0.00	0.00	0.00
90E	6.69	6.27	5.18	3.67	2.50	1.87	1.56	1.38	1.27	1.19	1.06	0.89	0.70	0.52	0.00	0.00	0.00	0.00	0.00
85E	6.74	6.22	5.15	3.67	2.52	1.89	1.56	1.38	1.27	1.19	1.06	0.89	0.70	0.51	0.00	0.00	0.00	0.00	0.00
80E	6.74	6.13	5.03	3.61	2.52	1.90	1.57	1.38	1.27	1.19	1.07	0.89	0.70	0.50	0.00	0.00	0.00	0.00	0.00
75E	6.69	6.09	4.96	3.56	2.50	1.93	1.60	1.40	1.27	1.19	1.07	0.89	0.68	0.49	0.00	0.00	0.00	0.00	0.00
70E	6.64	6.04	4.89	3.50	2.50	1.95	1.64	1.42	1.29	1.19	1.07	0.89	0.68	0.47	0.00	0.00	0.00	0.00	0.00
65E	6.54	5.96	4.81	3.45	2.50	1.98	1.67	1.45	1.30	1.20	1.08	0.89	0.67	0.46	0.00	0.00	0.00	0.00	0.00
60E	6.54	5.87	4.74	3.45	2.52	2.02	1.71	1.47	1.32	1.20	1.08	0.89	0.66	0.46	0.00	0.00	0.00	0.00	0.00
55E	6.50	5.74	4.67	3.45	2.56	2.05	1.74	1.51	1.34	1.21	1.09	0.89	0.66	0.46	0.00	0.00	0.00	0.00	0.00
50E	6.13	5.58	4.60	3.53	2.69	2.12	1.75	1.52	1.35	1.22	1.09	0.89	0.66	0.46	0.00	0.00	0.00	0.00	0.00
45E	6.13	5.46	4.53	3.61	2.84	2.20	1.80	1.55	1.36	1.22	1.09	0.89	0.66	0.46	0.00	0.00	0.00	0.00	0.00
40E	6.69	5.38	4.14	3.40	2.84	2.26	1.83	1.56	1.38	1.23	1.09	0.89	0.66	0.46	0.32	0.00	0.00	0.00	0.00
35E	7.03	5.11	3.73	3.03	2.69	2.28	1.87	1.59	1.39	1.23	1.								

TABLE 2L 500-44 MIXING RATIO VALUES (GM/KGM)-JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	1.38	1.00	0.75	0.58	0.49	0.45	0.45	0.44	0.43	0.41	0.35	0.28	0.21	0.15	0.11	0.00	0.00	0.00	0.10
5W	1.21	0.94	0.73	0.59	0.53	0.50	0.49	0.49	0.46	0.42	0.34	0.27	0.21	0.15	0.12	0.10	0.10	0.10	0.10
10W	1.10	0.90	0.73	0.63	0.58	0.56	0.56	0.56	0.50	0.42	0.33	0.26	0.21	0.16	0.12	0.10	0.10	0.10	0.10
15W	1.07	0.89	0.77	0.69	0.65	0.63	0.62	0.59	0.52	0.42	0.33	0.26	0.21	0.16	0.13	0.11	0.10	0.10	0.10
20W	1.10	0.93	0.82	0.76	0.73	0.70	0.67	0.62	0.53	0.42	0.32	0.26	0.21	0.17	0.14	0.12	0.11	0.10	0.10
25W	1.28	1.02	0.90	0.84	0.80	0.77	0.72	0.64	0.53	0.42	0.32	0.26	0.22	0.14	0.15	0.13	0.12	0.11	0.10
30W	1.50	1.10	1.02	0.94	0.88	0.83	0.76	0.65	0.54	0.41	0.32	0.26	0.22	0.19	0.16	0.14	0.12	0.11	0.10
35W	1.90	1.41	1.21	1.08	0.98	0.90	0.80	0.67	0.54	0.41	0.32	0.27	0.23	0.20	0.17	0.14	0.00	0.11	0.10
40W	2.01	1.68	1.41	1.26	1.11	0.98	0.84	0.70	0.55	0.42	0.33	0.28	0.24	0.21	0.18	0.15	0.13	0.11	0.10
45W	2.19	1.85	1.58	1.39	1.21	1.03	0.86	0.72	0.57	0.43	0.33	0.29	0.25	0.22	0.19	0.16	0.14	0.12	0.10
50W	2.44	2.08	1.68	1.41	1.20	0.99	0.84	0.73	0.59	0.44	0.34	0.30	0.27	0.23	0.20	0.17	0.14	0.12	0.10
55W	2.67	2.17	1.70	1.37	1.09	0.86	0.75	0.71	0.61	0.45	0.35	0.31	0.28	0.24	0.20	0.17	0.15	0.12	0.10
60W	2.67	2.19	1.70	1.32	0.97	0.73	0.66	0.69	0.61	0.46	0.36	0.33	0.30	0.25	0.21	0.18	0.15	0.12	0.10
65W	2.50	2.13	1.73	1.31	0.89	0.64	0.61	0.67	0.60	0.46	0.38	0.36	0.32	0.26	0.22	0.19	0.16	0.13	0.10
70W	2.40	2.17	1.85	1.34	0.86	0.60	0.57	0.62	0.57	0.47	0.42	0.40	0.34	0.28	0.22	0.19	0.16	0.13	0.10
75W	2.38	2.26	1.91	1.34	0.83	0.57	0.53	0.54	0.52	0.46	0.43	0.41	0.34	0.28	0.23	0.19	0.16	0.13	0.10
80W	2.38	2.22	1.83	1.26	0.80	0.58	0.51	0.49	0.46	0.42	0.40	0.37	0.32	0.28	0.23	0.19	0.16	0.13	0.10
85W	2.30	2.04	1.64	1.15	0.78	0.59	0.51	0.46	0.43	0.39	0.36	0.34	0.31	0.27	0.23	0.20	0.17	0.13	0.10
90W	2.19	1.86	1.48	1.07	0.77	0.60	0.51	0.46	0.42	0.37	0.34	0.32	0.31	0.27	0.23	0.20	0.17	0.13	0.10
95W	2.10	1.73	1.38	1.03	0.77	0.61	0.52	0.46	0.41	0.37	0.34	0.32	0.30	0.27	0.23	0.20	0.17	0.13	0.10
100W	1.99	1.62	1.31	0.99	0.76	0.61	0.52	0.46	0.41	0.37	0.34	0.32	0.30	0.26	0.23	0.20	0.17	0.13	0.10
105W	1.93	1.56	1.24	0.96	0.75	0.61	0.52	0.46	0.41	0.37	0.33	0.31	0.29	0.26	0.22	0.20	0.17	0.13	0.10
110W	1.89	1.52	1.31	0.94	0.74	0.61	0.53	0.46	0.41	0.37	0.33	0.31	0.29	0.26	0.22	0.20	0.17	0.13	0.10
115W	1.88	1.49	1.27	0.91	0.74	0.61	0.53	0.46	0.41	0.37	0.33	0.31	0.29	0.26	0.22	0.20	0.17	0.13	0.10
120W	1.88	1.46	1.13	0.90	0.73	0.61	0.53	0.46	0.41	0.37	0.33	0.31	0.29	0.26	0.22	0.20	0.17	0.13	0.10
125W	1.86	1.44	1.11	0.89	0.73	0.61	0.53	0.46	0.41	0.37	0.34	0.31	0.29	0.25	0.22	0.19	0.17	0.13	0.10
130W	1.83	1.43	1.10	0.88	0.73	0.61	0.53	0.46	0.41	0.37	0.34	0.31	0.29	0.25	0.22	0.19	0.17	0.13	0.10
135W	1.77	1.40	1.10	0.85	0.73	0.62	0.53	0.46	0.41	0.37	0.34	0.31	0.29	0.25	0.22	0.19	0.17	0.13	0.10
140W	1.68	1.39	1.10	0.88	0.73	0.62	0.54	0.46	0.41	0.37	0.34	0.31	0.29	0.25	0.21	0.19	0.17	0.13	0.10
145W	1.62	1.39	1.11	0.89	0.73	0.62	0.54	0.47	0.41	0.37	0.34	0.31	0.29	0.25	0.21	0.19	0.16	0.13	0.10
150W	1.61	1.40	1.13	0.91	0.74	0.63	0.55	0.48	0.41	0.37	0.34	0.31	0.29	0.25	0.21	0.18	0.16	0.13	0.10
155W	1.61	1.41	1.18	0.95	0.77	0.65	0.57	0.49	0.42	0.37	0.34	0.31	0.29	0.25	0.21	0.18	0.16	0.13	0.10
160W	1.65	1.44	1.22	1.02	0.84	0.69	0.59	0.50	0.42	0.37	0.34	0.31	0.28	0.24	0.20	0.18	0.15	0.12	0.10
165W	1.71	1.49	1.33	1.15	0.95	0.76	0.62	0.51	0.43	0.38	0.34	0.31	0.28	0.24	0.20	0.19	0.15	0.12	0.10
170W	1.85	1.70	1.57	1.38	1.10	0.85	0.67	0.54	0.44	0.38	0.34	0.31	0.28	0.23	0.19	0.17	0.14	0.12	0.10
175W	2.13	2.04	1.93	1.64	1.26	0.95	0.72	0.56	0.46	0.40	0.35	0.31	0.28	0.23	0.19	0.16	0.14	0.12	0.10
180W	2.08	2.46	2.28	1.83	1.34	0.98	0.74	0.58	0.48	0.40	0.36	0.30	0.26	0.22	0.18	0.16	0.14	0.12	0.10
175E	2.00	2.78	2.52	1.91	1.32	0.94	0.71	0.57	0.48	0.41	0.36	0.29	0.26	0.21	0.18	0.15	0.13	0.11	0.10
170E	2.09	2.94	2.60	1.86	1.21	0.84	0.65	0.54	0.47	0.41	0.36	0.28	0.25	0.20	0.17	0.14	0.12	0.11	0.10
165E	3.09	3.06	2.58	1.71	1.06	0.73	0.58	0.51	0.45	0.40	0.35	0.27	0.24	0.19	0.16	0.14	0.12	0.11	0.10
160E	3.16	3.06	2.42	1.52	0.92	0.66	0.54	0.47	0.43	0.38	0.34	0.26	0.23	0.18	0.15	0.00	0.00	0.00	0.00
155E	3.19	2.94	2.15	1.30	0.83	0.62	0.51	0.45	0.40	0.37	0.32	0.25	0.22	0.17	0.15	0.00	0.00	0.00	0.00
150E	3.21	2.78	1.86	1.14	0.79	0.60	0.48	0.42	0.38	0.35	0.31	0.24	0.21	0.17	0.00	0.00	0.00	0.00	0.00
145E	3.19	2.58	1.67	1.06	0.79	0.60	0.45	0.39	0.36	0.33	0.30	0.24	0.20	0.16	0.00	0.00	0.00	0.00	0.00
140E	3.16	2.40	1.52	1.04	0.82	0.60	0.43	0.36	0.34	0.32	0.29	0.24	0.19	0.16	0.00	0.00	0.00	0.00	0.00
135E	3.16	2.26	1.44	1.05	0.85	0.61	0.42	0.35	0.33	0.31	0.29	0.24	0.19	0.15	0.00	0.00	0.00	0.00	0.00
130E	3.16	2.19	1.41	1.04	0.85	0.60	0.41	0.34	0.32	0.31	0.29	0.24	0.19	0.15	0.00	0.00	0.00	0.00	0.00
125E	3.16	2.17	1.40	1.03	0.82	0.58	0.41	0.34	0.32	0.31	0.29	0.24	0.19	0.15	0.00	0.00	0.00	0.00	0.00
120E	3.14	2.15	1.40	1.02	0.79	0.57	0.41	0.34	0.32	0.31	0.29	0.24	0.19	0.15	0.00	0.00	0.00	0.00	0.00
115E	3.04	2.13	1.43	1.03	0.79	0.58	0.42	0.35	0.32	0.31	0.29	0.25	0.19	0.15	0.00	0.00	0.00	0.00	0.00
110E	2.87	2.17	1.49	1.07	0.83	0.61	0.45	0.38	0.33	0.32	0.29	0.25	0.19	0.15	0.00	0.00	0.00	0.00	0.00
105E	2.76	2.26	1.60	1.13	0.88	0.65	0.47	0.37	0.33	0.32	0.30	0.25	0.19	0.15	0.00	0.00	0.00	0.00	0.00
100E	2.76	2.40	1.68	1.19	0.91	0.69	0.50	0.38	0.33	0.32	0.30	0.25	0.19	0.15	0.00	0.00	0.00	0.00	0.00
95E	2.82	2.44	1.73	1.21	0.93	0.69	0.51	0.39	0.34	0.31	0.30	0.25	0.19	0.15	0.00	0.00	0.00	0.00	0.00
90E	2.82	2.38	1.68	1.19	0.91	0.68	0.50	0.40	0.34	0.32	0.30	0.25	0.20	0.15	0.00	0.00	0.00	0.00	0.00
85E	2.80	2.28	1.62	1.16	0.88	0.65	0.49	0.40	0.34	0.32	0.30	0.25	0.20	0.15	0.00	0.00	0.00	0.00	0.00
80E	2.71	2.19	1.57	1.12	0.83	0.61	0.47	0.39	0.35	0.32	0.30	0.25	0.20	0.15	0.00	0.00	0.00	0.00	0.00
75E	2.56	2.10	1.52	1.06	0.76	0.57	0.45	0.39	0.35	0.32	0.30	0.26	0.20	0.15	0.00	0.00	0.00	0.00	0.00
70E	2.36	1.96	1.41	0.96	0.69	0.53	0.45	0.40	0.35	0.32	0.30	0.26	0.20	0.15	0.00	0.00	0.00	0.00	0.00
65E	2.15	1.76	1.27	0.87	0.63	0.51	0.45	0.40	0.36	0.33	0.31	0.26	0.20	0.15	0.00	0.00	0.00	0.00	0.00
60E	1.91	1.56	1.14	0.80	0.60	0.50	0.46	0.42	0.37	0.34	0.31	0.26	0.21	0.15	0.00	0.00	0.00	0.00	0.00
55E	1.73	1.40	1.06	0.77	0.60	0.51	0.47	0.44	0.40	0.35	0.31	0.27	0.21	0.15	0.00	0.00	0.00	0.00	0.00
50E	1.58	1.28	1.00	0.77	0.62	0.53	0.49	0.45	0.42	0.38	0.33	0.27	0.21	0.15	0.00	0.00	0.00	0.00	0.00
45E	1.53	1.08	0.84	0.72	0.63	0.56	0.51	0.48	0.45	0.40	0.36	0.28	0.21	0.15	0.00	0.00	0.00	0.00	0.00
40E	1.65	0.89	0.62	0.58	0.58	0.57	0.53	0.49	0.47	0.43	0.36	0.29	0.22	0.15	0.11	0.00	0.00	0.00	0.00
35E	1.94	0.85	0.52	0.45	0.48	0.54	0.55	0.51	0.48	0.44	0								

TABLE 24 SURFACE MIXING RATIO VALUES (GM/KGM)-OCTOBER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	16.45	14.77	12.59	11.27	10.43	10.15	9.31	8.42	6.96	4.95	3.79	2.99	2.14	1.46	0.55	0.00	0.00	0.00	0.01
5W	16.24	14.47	12.51	11.42	10.84	10.28	9.37	8.37	6.87	4.95	3.81	3.01	2.20	1.47	0.55	0.04	0.01	0.02	0.01
10W	15.74	13.51	12.59	11.65	11.05	10.42	9.50	8.31	6.78	5.05	3.73	3.03	2.24	1.49	0.79	0.06	0.02	0.02	0.01
15W	16.24	14.47	12.83	12.03	11.27	10.56	9.50	8.31	6.73	4.88	3.84	3.05	2.29	1.53	0.91	0.12	0.00	0.04	0.01
20W	16.65	15.15	13.51	12.51	11.65	10.84	9.69	8.31	6.68	5.09	3.84	3.08	2.34	1.58	0.99	0.32	0.06	0.04	0.01
25W	16.86	15.54	14.96	13.42	12.35	11.05	9.76	8.31	6.68	5.12	3.87	3.08	2.41	1.61	1.02	0.42	0.11	0.04	0.01
30W	16.86	16.56	15.94	14.96	13.17	11.57	9.95	8.37	6.73	5.16	3.93	3.10	2.45	1.62	1.10	0.46	0.12	0.05	0.01
35W	16.76	16.45	17.18	16.94	14.40	12.11	10.28	8.48	6.73	5.23	3.98	3.12	2.42	1.66	1.10	0.50	0.18	0.06	0.01
40W	16.76	13.17	11.27	13.17	14.96	12.75	10.56	8.59	6.78	5.31	4.01	3.22	2.55	1.67	1.10	0.55	0.20	0.06	0.01
45W	17.18	15.74	15.54	15.25	10.77	12.51	10.91	8.65	6.78	5.38	4.13	3.37	2.69	1.68	1.07	0.55	0.22	0.06	0.01
50W	18.29	19.58	16.45	13.51	13.25	9.89	10.56	8.59	6.87	5.46	4.24	3.57	2.85	1.71	1.01	0.50	0.20	0.06	0.01
55W	18.52	19.70	16.74	15.44	13.51	11.88	12.75	8.31	6.87	5.62	4.47	3.84	3.03	1.82	0.93	0.42	0.20	0.06	0.01
60W	18.29	18.99	16.55	15.84	13.42	11.13	9.50	8.42	6.92	5.82	4.95	4.07	3.34	2.10	0.79	0.32	0.16	0.06	0.01
65W	18.75	18.52	17.98	10.28	7.77	6.92	7.56	6.78	5.54	4.84	4.81	4.25	3.54	2.45	0.79	0.24	0.13	0.06	0.01
70W	17.51	18.29	16.45	7.01	8.89	6.78	6.78	6.24	4.13	3.87	3.57	4.47	3.64	2.57	1.10	0.24	0.12	0.06	0.01
75W	10.84	15.34	11.27	7.77	9.50	8.83	7.77	7.16	6.73	5.50	4.47	4.60	3.70	2.63	1.30	0.29	0.11	0.06	0.01
80W	14.77	12.19	12.03	10.98	10.02	8.89	7.93	6.87	6.15	5.70	5.09	4.57	3.68	2.61	1.38	0.35	0.11	0.06	0.01
85W	15.15	13.77	11.95	10.98	12.43	9.07	8.25	7.36	6.06	5.66	5.12	4.54	3.62	2.55	1.39	0.42	0.11	0.06	0.01
90W	13.00	12.35	11.35	10.84	10.35	9.25	8.44	7.82	6.15	5.74	5.16	4.51	3.64	2.45	1.34	0.42	0.11	0.06	0.01
95W	13.00	11.88	11.35	10.98	10.42	9.63	8.65	7.98	6.24	5.78	5.16	4.44	3.47	2.29	1.26	0.42	0.11	0.05	0.01
100W	13.00	12.35	11.88	11.50	10.84	9.95	8.89	8.03	6.32	5.86	5.20	4.41	3.39	2.24	1.20	0.42	0.11	0.06	0.01
105W	13.42	12.92	12.51	12.03	11.50	10.28	9.07	8.09	6.46	5.94	5.23	4.38	3.34	2.13	1.18	0.38	0.12	0.07	0.01
110W	14.94	13.51	13.34	13.25	12.27	10.91	9.37	8.14	6.50	6.02	5.27	4.35	3.32	2.10	1.15	0.35	0.13	0.08	0.01
115W	14.64	14.04	13.77	13.60	13.25	11.57	9.56	8.31	6.41	2.36	5.31	4.35	3.22	2.02	1.11	0.35	0.16	0.09	0.01
120W	15.74	14.50	14.40	14.22	13.51	12.03	9.69	8.37	7.36	6.19	5.31	4.41	3.19	1.97	1.10	0.32	0.18	0.11	0.01
125W	15.04	15.25	15.06	14.68	13.77	12.35	9.82	8.37	7.41	6.24	5.35	4.41	3.19	1.94	1.10	0.32	0.20	0.12	0.01
130W	16.74	15.84	15.84	15.34	14.22	12.35	9.82	8.37	7.46	6.28	5.38	4.41	3.17	1.91	1.10	0.35	0.20	0.13	0.01
135W	16.74	16.55	16.46	16.24	14.40	12.11	9.76	8.37	7.46	6.32	5.42	4.41	3.12	1.90	1.10	0.35	0.22	0.15	0.01
140W	16.74	16.76	17.29	17.08	14.40	11.95	9.56	8.37	7.51	6.37	5.42	4.41	3.12	1.90	1.10	0.38	0.24	0.16	0.01
145W	16.55	16.86	17.40	17.08	14.31	11.72	9.37	8.89	7.51	6.41	5.42	4.41	3.08	1.91	1.10	0.42	0.26	0.18	0.01
150W	16.55	16.86	17.95	17.08	14.13	11.57	9.25	8.89	7.51	6.46	5.46	4.41	3.08	1.94	1.10	0.46	0.29	0.18	0.01
155W	16.55	16.76	18.87	16.97	14.94	11.57	9.25	8.89	7.46	6.46	5.46	4.41	3.08	1.94	1.10	0.46	0.32	0.18	0.01
160W	16.55	17.08	19.46	16.86	14.94	11.50	9.25	8.89	7.46	6.46	5.50	4.41	3.08	1.94	1.10	0.50	0.35	0.18	0.01
165W	16.76	18.06	19.34	16.65	14.94	11.57	9.37	8.89	7.46	6.55	5.54	4.38	3.10	1.97	1.11	0.55	0.38	0.18	0.01
170W	17.18	18.87	18.99	16.55	14.94	11.57	9.44	8.83	7.46	6.59	5.58	4.38	3.15	1.97	1.10	0.55	0.42	0.16	0.01
175W	17.84	10.22	18.75	16.55	14.94	11.50	9.19	8.83	7.46	6.59	5.62	4.77	3.12	1.97	1.07	0.55	0.42	0.16	0.01
180W	18.29	19.70	18.52	16.24	13.77	11.20	8.89	8.65	7.26	6.59	5.66	4.44	3.15	1.97	1.03	0.60	0.42	0.13	0.01
-175E	18.87	19.70	18.06	15.84	13.60	10.98	8.89	7.56	6.11	6.28	5.74	4.44	3.10	1.96	1.00	0.55	0.42	0.12	0.01
-170E	19.46	19.46	17.40	15.25	13.34	11.13	9.19	7.82	6.06	5.82	5.54	4.44	3.08	1.94	0.89	0.46	0.38	0.11	0.01
-165E	19.70	19.22	16.86	14.96	13.25	11.35	9.89	8.54	6.68	5.50	5.23	4.35	2.99	1.94	0.79	0.42	0.35	0.10	0.01
-160E	20.20	18.75	16.65	15.34	13.77	12.03	10.56	9.13	7.16	5.50	4.06	4.13	2.94	1.88	0.50	0.00	0.32	0.00	0.00
-155E	19.83	18.99	17.73	17.08	14.87	12.35	10.22	9.07	7.46	5.46	4.74	4.01	2.85	1.81	0.38	0.00	0.00	0.00	0.00
-150E	18.99	19.44	18.87	16.45	13.68	7.46	5.98	4.78	7.41	5.42	4.57	3.93	2.79	1.77	0.00	0.00	0.00	0.00	0.00
-145E	18.99	16.97	17.29	14.87	9.25	5.23	5.58	5.78	6.82	5.42	4.57	3.79	2.71	1.58	0.00	0.00	0.00	0.00	0.00
-140E	19.10	16.45	17.29	14.96	7.24	4.35	4.95	7.06	6.82	5.35	4.44	3.60	2.61	1.41	0.00	0.00	0.00	0.00	0.00
-135E	19.58	18.06	17.40	10.77	5.50	4.35	5.12	7.71	6.87	5.27	4.25	3.44	2.51	1.29	0.00	0.00	0.00	0.00	0.00
-130E	19.10	18.06	18.29	13.17	4.98	4.19	4.47	7.93	6.82	5.27	4.25	3.32	2.63	1.24	0.00	0.00	0.00	0.00	0.00
-125E	17.84	16.97	15.34	16.97	5.82	3.60	4.77	7.98	6.78	5.16	4.10	3.32	2.36	1.23	0.00	0.00	0.00	0.00	0.00
-120E	17.42	16.86	16.86	16.86	6.89	3.22	5.90	7.77	6.64	5.02	3.93	3.03	2.31	1.27	0.00	0.00	0.00	0.00	0.00
-115E	18.44	16.86	17.18	16.24	11.50	6.45	7.71	8.03	6.50	4.91	3.73	2.92	2.27	1.30	0.00	0.00	0.00	0.00	0.00
-110E	18.87	17.18	17.40	15.54	12.03	9.82	9.19	8.14	6.41	4.77	3.62	2.88	2.27	1.32	0.00	0.00	0.00	0.00	0.00
-105E	18.52	16.65	17.42	15.25	12.19	10.56	9.37	8.03	6.28	4.67	3.54	2.85	2.25	1.34	0.00	0.00	0.00	0.00	0.00
-100E	17.51	17.40	17.18	14.96	12.51	10.70	9.37	7.87	6.15	4.60	3.49	2.85	2.20	1.34	0.00	0.00	0.00	0.00	0.00
-95E	17.40	17.51	17.18	14.77	12.59	10.84	9.37	7.82	6.11	4.57	3.47	2.83	2.24	1.30	0.00	0.00	0.00	0.00	0.00
-90E	17.84	17.62	17.18	14.77	12.59	10.84	9.25	7.77	6.11	4.57	3.42	2.81	2.20	1.30	0.00	0.00	0.00	0.00	0.00
-85E	17.84	17.95	17.08	14.77	12.47	10.84	9.25	7.77	6.11	4.60	3.39	2.81	2.22	1.37	0.00	0.00	0.00	0.00	0.00
-80E	18.06	18.29	17.18	14.77	12.67	10.84	9.25	7.77	6.24	4.54	3.37	2.79	2.25	1.53	0.00	0.00	0.00	0.00	0.00
-75E	18.18	18.29	17.18	14.77	12.59	10.84	9.37	7.93	6.32	4.54	3.37	2.79	2.22	1.45	0.00	0.00	0.00	0.00	0.00
-70E	18.29	18.20	17.29	16.96	12.67	11.13	9.50	7.98	6.41	4.54	3.37	2.77	2.24	1.43	0.00	0.00	0.00	0.00	0.00
-65E	18.29	18.20	17.29	15.25	12.67	11.13	9.69	8.03	6.50	4.60	3.37	2.77	2.24	1.30	0.00	0.00	0.00	0.00	0.00
-60E	18.06	17.95	17.29	15.34	12.75	11.50	9.74	8.03	6.55	4.67	3.39	2.75	2.20	1.21	0.00	0.00	0.00	0.00	0.00
-55E	17.73	17.84	16.76	15.54	13.60	11.88	10.28	8.59	6.55	4.74	3.42	2.75	2.18	1.17	0.00	0.00	0.00	0.00	0.00
-50E	17.84	16.86	15.44	13.17	15.06	13.08	10.91	8.65	6.59	4.77	3.47	2.75	2.20	1.24	0.00	0.00	0.00	0.00	0.00
-45E	17.42	16.97	16.34	17.18	13.86	11.17	11.72	9.13	6.73	4.81	3.52								

TABLE 24 850-MR MIXING RATIO VALUES (GM/KGM)-OCTOBER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	11.97	10.34	8.61	7.04	5.78	4.79	4.17	3.76	3.31	2.80	2.36	1.97	1.53	1.04	0.64	0.00	0.00	0.00	0.00
5W	11.35	9.22	7.61	6.48	5.66	4.94	4.36	3.84	3.31	2.80	2.36	1.98	1.55	1.09	0.69	0.44	0.26	0.12	0.09
10W	10.55	8.38	7.00	6.21	5.62	5.04	4.49	3.93	3.33	2.80	2.38	2.00	1.59	1.14	0.74	0.49	0.29	0.13	0.09
15W	9.89	7.87	6.71	6.08	5.66	5.15	4.62	3.99	3.36	2.80	2.38	2.01	1.63	1.21	0.84	0.54	0.30	0.14	0.09
20W	9.34	7.66	6.66	6.16	5.74	5.27	4.69	4.05	3.38	2.82	2.38	2.03	1.67	1.29	0.92	0.63	0.36	0.15	0.09
25W	9.03	7.61	6.76	6.30	5.95	5.46	4.83	4.11	3.41	2.18	2.38	2.05	1.73	1.36	1.01	0.70	0.40	0.16	0.09
30W	8.91	7.66	6.95	6.61	6.39	5.86	5.08	4.20	3.44	2.82	2.38	2.06	1.79	1.43	1.09	0.78	0.43	0.17	0.09
35W	8.73	7.71	7.29	7.29	7.14	6.48	5.35	4.26	3.46	2.82	2.38	2.09	1.83	1.50	1.15	0.84	0.47	0.18	0.09
40W	8.73	7.93	7.93	8.32	8.26	7.24	5.66	4.36	3.49	2.84	2.41	2.13	1.49	1.55	1.21	0.88	0.50	0.19	0.09
45W	8.79	8.38	8.79	9.47	9.41	7.87	5.86	4.39	3.49	2.86	2.43	2.18	1.93	1.61	1.25	0.92	0.52	0.20	0.09
50W	8.85	8.91	9.66	10.46	10.00	8.04	5.82	4.33	3.46	2.86	2.45	2.21	1.98	1.66	1.30	0.95	0.54	0.20	0.09
55W	8.91	9.41	10.41	11.05	10.13	7.87	5.66	4.30	3.46	2.88	2.47	2.25	2.05	1.70	1.32	0.96	0.54	0.21	0.09
60W	8.97	10.00	11.13	11.50	10.66	7.82	5.70	4.36	3.49	2.91	2.53	2.32	2.11	1.74	1.33	0.95	0.54	0.21	0.09
65W	8.91	10.48	11.50	10.55	8.26	6.34	5.15	4.20	3.41	2.88	2.43	2.16	1.76	1.33	0.93	0.53	0.22	0.09	
70W	9.09	10.62	10.48	8.04	5.54	4.23	3.90	3.68	3.28	2.95	2.75	2.55	2.20	1.76	1.32	0.90	0.51	0.22	0.09
75W	9.93	10.34	8.79	6.16	4.14	3.33	3.28	3.38	3.28	3.11	2.93	2.63	2.20	1.76	1.31	0.87	0.50	0.22	0.09
80W	11.28	9.80	7.55	5.46	4.17	3.59	3.41	3.46	3.41	3.23	3.00	2.63	2.18	1.76	1.29	0.83	0.48	0.22	0.09
85W	11.97	9.15	6.90	5.23	4.39	3.93	0.49	3.65	3.49	3.26	2.95	2.59	2.16	1.74	1.26	0.80	0.46	0.22	0.09
90W	11.43	8.49	6.39	5.19	4.49	4.14	3.90	3.76	3.54	3.26	2.93	2.57	2.16	1.74	1.24	0.78	0.45	0.22	0.09
95W	10.48	7.93	6.16	5.19	4.36	4.33	1.53	3.84	3.59	3.26	2.93	2.57	2.16	1.73	1.22	0.75	0.43	0.22	0.09
100W	9.86	7.76	6.16	5.27	4.23	4.52	4.23	3.96	3.65	3.28	2.93	2.55	2.15	1.71	1.21	0.73	0.43	0.22	0.09
105W	9.66	7.71	6.25	5.38	4.11	4.66	4.36	4.05	3.70	3.31	2.93	2.55	2.13	1.70	1.19	0.72	0.43	0.22	0.09
110W	9.53	7.71	6.34	5.54	3.96	4.83	4.52	4.14	3.73	3.31	2.93	2.53	2.11	1.69	1.18	0.72	0.43	0.22	0.09
115W	9.41	7.66	6.43	5.78	3.76	5.04	4.66	4.20	3.76	3.33	2.93	2.53	2.09	1.67	1.17	0.72	0.44	0.22	0.09
120W	9.28	7.66	6.57	6.08	3.54	5.27	4.83	4.33	3.79	3.33	2.93	2.53	2.09	1.66	1.17	0.72	0.45	0.23	0.09
125W	9.09	7.71	6.95	6.57	3.28	5.58	4.97	4.39	3.84	3.36	2.95	2.53	2.08	1.66	1.17	0.74	0.47	0.23	0.09
130W	8.91	7.93	7.45	7.19	3.02	5.91	5.15	4.46	3.87	3.36	2.95	2.53	2.08	1.65	1.17	0.76	0.49	0.24	0.09
135W	8.85	8.15	7.98	7.87	2.75	6.30	5.31	4.52	3.87	3.38	2.95	2.53	2.08	1.63	1.17	0.78	0.51	0.24	0.09
140W	8.79	8.38	8.49	8.55	2.53	6.61	5.42	4.56	3.90	3.99	2.95	2.53	2.08	1.62	1.17	0.81	0.53	0.25	0.09
145W	8.67	8.40	8.91	9.09	2.36	6.85	5.46	4.52	3.90	3.41	2.97	2.53	2.08	1.62	1.17	0.83	0.55	0.25	0.09
150W	8.67	8.55	9.09	9.41	2.30	6.90	5.46	4.52	3.93	3.41	2.97	2.53	2.08	1.61	1.17	0.84	0.57	0.25	0.09
155W	8.73	8.67	9.15	9.47	2.29	6.90	5.42	4.56	3.93	3.44	2.97	2.53	2.06	1.59	1.15	0.84	0.57	0.25	0.09
160W	8.79	8.85	9.28	9.47	2.27	6.90	5.42	4.56	3.96	3.46	3.00	2.55	2.08	1.57	1.12	0.82	0.57	0.25	0.09
165W	8.91	8.97	9.41	9.66	2.23	6.90	5.38	4.56	3.99	3.46	3.00	2.57	2.08	1.54	1.06	0.78	0.56	0.25	0.09
170W	8.91	9.15	9.73	9.93	2.20	6.85	5.31	4.52	3.99	3.49	3.02	2.59	2.08	1.49	0.98	0.72	0.53	0.24	0.09
175W	8.85	9.41	10.20	10.34	2.18	6.76	5.23	4.49	3.96	3.46	3.04	2.61	2.08	1.42	0.88	0.65	0.50	0.24	0.09
180W	9.09	9.80	10.62	10.55	2.21	6.57	5.15	4.42	3.90	3.41	3.02	2.61	2.05	1.33	0.77	0.57	0.47	0.23	0.09
175E	9.73	10.48	11.05	10.48	2.32	6.30	5.08	4.39	3.87	3.38	3.00	2.59	2.00	1.22	0.67	0.49	0.43	0.22	0.09
170E	10.43	11.20	11.20	10.06	2.49	6.95	5.04	4.46	3.93	3.44	3.02	2.55	1.93	1.12	0.58	0.43	0.39	0.20	0.09
165E	11.73	11.73	11.13	9.47	2.69	5.91	5.12	4.56	4.05	3.54	3.04	2.53	1.87	1.05	0.51	0.37	0.35	0.18	0.09
160E	12.13	11.80	10.76	8.85	2.84	5.91	5.23	4.66	4.08	3.57	3.02	2.47	1.80	0.98	0.46	0.00	0.00	0.00	0.00
155E	12.13	11.54	10.13	8.26	3.00	5.78	5.15	4.62	4.05	3.51	2.95	2.38	1.73	0.93	0.42	0.00	0.00	0.00	0.00
150E	12.05	11.14	9.53	7.66	3.23	5.34	4.76	4.33	3.67	3.41	2.86	2.27	1.66	0.89	0.00	0.00	0.00	0.00	0.00
145E	11.97	10.76	9.09	7.24	5.78	4.79	4.23	3.90	3.57	3.21	2.71	2.18	1.61	0.87	0.00	0.00	0.00	0.00	0.00
140E	11.73	10.76	9.09	7.04	5.34	4.33	3.90	3.57	3.33	3.02	2.57	2.08	1.55	0.85	0.00	0.00	0.00	0.00	0.00
135E	11.43	10.91	9.41	7.00	4.97	3.99	3.62	3.44	3.21	2.88	2.36	1.98	1.50	0.82	0.00	0.00	0.00	0.00	0.00
130E	11.20	11.05	9.73	6.95	4.69	3.79	3.59	3.46	3.19	2.82	2.36	1.90	1.44	0.81	0.00	0.00	0.00	0.00	0.00
125E	10.98	11.05	9.93	6.85	4.46	3.70	3.63	3.51	3.17	2.75	2.27	1.83	1.41	0.80	0.00	0.00	0.00	0.00	0.00
120E	10.83	11.05	9.43	6.71	4.36	3.62	3.73	3.59	3.19	2.69	2.20	1.79	1.32	0.80	0.00	0.00	0.00	0.00	0.00
115E	10.83	10.98	9.86	6.85	4.49	3.79	3.84	3.65	3.19	2.63	2.13	1.76	1.37	0.79	0.00	0.00	0.00	0.00	0.00
110E	10.91	10.83	9.80	7.29	5.12	4.23	4.05	3.70	3.16	2.57	2.09	1.74	1.36	0.79	0.00	0.00	0.00	0.00	0.00
105E	10.91	10.83	9.40	7.71	5.78	4.76	4.23	3.73	3.11	2.53	2.08	1.74	1.35	0.78	0.00	0.00	0.00	0.00	0.00
100E	10.98	10.60	9.66	7.76	6.08	5.01	4.36	3.73	3.11	2.53	2.08	1.74	1.35	0.78	0.00	0.00	0.00	0.00	0.00
95E	10.83	10.62	9.53	7.76	6.16	5.12	4.39	3.76	3.11	2.51	2.08	1.74	1.35	0.80	0.00	0.00	0.00	0.00	0.00
90E	10.76	10.48	9.41	7.76	6.25	5.19	4.42	3.76	3.11	2.51	2.08	1.76	1.36	0.82	0.00	0.00	0.00	0.00	0.00
85E	10.76	10.34	9.28	7.71	6.30	5.27	4.49	3.76	3.11	2.51	2.09	1.77	1.39	0.84	0.00	0.00	0.00	0.00	0.00
80E	10.83	10.20	9.15	7.71	6.39	5.34	4.52	3.79	3.11	2.53	2.11	1.79	1.39	0.85	0.00	0.00	0.00	0.00	0.00
75E	10.83	10.06	9.33	7.71	6.52	5.50	4.62	3.82	3.11	2.61	2.15	1.80	1.36	0.82	0.00	0.00	0.00	0.00	0.00
70E	10.76	9.93	8.97	7.82	6.71	5.70	4.76	3.87	3.16	2.55	2.15	1.80	1.32	0.78	0.00	0.00	0.00	0.00	0.00
65E	10.69	9.93	9.09	8.04	6.95	5.95	4.94	3.99	3.21	2.59	2.16	1.80	1.27	0.73	0.00	0.00	0.00	0.00	0.00
60E	10.62	10.06	9.34	8.38	7.29	6.25	5.15	4.11	3.23	2.61	2.20	1.81	1.26	0.70	0.00	0.00	0.00	0.00	0.00
55E	10.69	10.41	9.86	8.97	7.87	6.66	5.38	4.20	3.28	2.63	2.21	1.83	1.27	0.71	0.00	0.00	0.00	0.00	0.00
50E	10.55	10.62	10.41	9.60	8.32	7.00	5.62	4.33	3.33	2.65	2.23	1.84	1.31	0.75	0.00	0.00	0.00	0.00	0.00
45E	10.20	10.55	10.69	10.06	8.79	7.29	5.86	4.42	3.36	2.67	2.25	1.84	1.34	0.80	0.00	0.00	0.00	0.00	0.00
40E	10.20	10.27	10.34	10.00	9.15	7.82	6.16	4.49	3.38	2.69	2.25	1.86	1.39	0.86	0.46	0.00	0.00	0.00	0.00
35E	10.43	10.13																	

TABLE 20 700-34 MIXING RATIO VALUES (G/M/34G)-OCTOBER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	6.00	5.30	4.14	3.12	2.45	2.10	1.90	1.77	1.57	1.35	1.16	1.02	0.86	0.66	0.45	0.00	0.00	0.00	0.21
5W	6.04	4.71	3.61	2.84	2.39	2.10	1.93	1.78	1.59	1.35	1.17	1.03	0.88	0.68	0.48	0.33	0.25	0.21	0.21
10W	6.06	4.34	3.24	2.67	2.33	2.12	1.95	1.80	1.60	1.36	1.18	1.04	0.90	0.71	0.51	0.36	0.28	0.22	0.21
15W	5.87	3.99	3.00	2.56	2.33	2.17	2.00	1.83	1.60	1.36	1.18	1.05	0.92	0.74	0.55	0.40	0.00	0.23	0.21
20W	5.16	3.67	2.86	2.54	2.30	2.26	2.08	1.87	1.61	1.38	1.19	1.06	0.93	0.77	0.59	0.45	0.33	0.24	0.21
25W	5.03	3.42	2.80	2.63	2.54	2.43	2.22	1.95	1.65	1.39	1.21	1.08	0.95	0.79	0.63	0.49	0.35	0.25	0.21
30W	4.81	3.32	2.78	2.78	2.84	2.73	2.45	2.08	1.71	1.41	1.22	1.10	0.97	0.81	0.66	0.52	0.38	0.26	0.21
35W	4.74	3.37	3.00	3.19	3.42	3.27	2.82	2.26	1.78	1.44	1.14	1.12	0.98	0.86	0.68	0.55	0.40	0.27	0.21
40W	4.64	3.73	3.67	4.14	4.47	4.11	3.27	2.46	1.86	1.47	1.25	1.14	1.00	0.85	0.70	0.57	0.42	0.28	0.21
45W	4.71	4.47	4.78	5.42	5.58	4.81	3.64	2.63	1.93	1.50	1.27	1.15	1.02	0.86	0.72	0.58	0.43	0.29	0.21
50W	5.22	5.50	6.00	6.40	6.09	5.00	3.70	2.69	1.97	1.51	1.29	1.17	1.05	0.88	0.73	0.60	0.44	0.29	0.21
55W	6.04	6.54	6.93	6.83	6.09	4.85	3.64	2.69	2.00	1.54	1.30	1.20	1.06	0.89	0.73	0.60	0.44	0.30	0.21
60W	6.59	7.23	7.55	7.13	6.09	4.81	3.64	2.73	2.03	1.56	1.35	1.25	1.10	0.91	0.73	0.60	0.45	0.30	0.21
65W	6.78	7.60	7.82	6.69	5.03	3.67	2.80	2.39	1.98	1.61	1.36	1.13	0.92	0.74	0.59	0.44	0.30	0.21	
70W	6.98	7.60	7.08	5.15	3.37	2.28	1.80	1.71	1.75	1.67	1.59	1.46	1.21	0.93	0.74	0.58	0.44	0.30	0.21
75W	7.23	6.93	5.58	3.78	2.45	1.68	1.34	1.38	1.59	1.68	1.63	1.47	1.21	0.94	0.75	0.58	0.44	0.31	0.21
80W	7.39	5.96	4.37	3.07	2.31	1.80	1.45	1.41	1.57	1.65	1.59	1.42	1.19	0.95	0.75	0.58	0.44	0.31	0.21
85W	7.34	5.22	3.70	2.80	2.31	1.90	1.61	1.54	1.60	1.61	1.54	1.38	1.18	0.96	0.75	0.58	0.44	0.31	0.21
90W	6.88	4.74	3.40	2.69	2.28	1.93	1.71	1.63	1.63	1.60	1.51	1.36	1.18	0.97	0.75	0.58	0.44	0.31	0.21
95W	6.22	4.34	3.22	2.63	2.26	1.97	1.78	1.70	1.65	1.60	1.50	1.35	1.18	0.97	0.75	0.58	0.44	0.31	0.21
100W	5.58	4.02	3.10	2.59	2.26	2.00	1.84	1.75	1.70	1.60	1.48	1.35	1.19	0.97	0.75	0.58	0.44	0.31	0.21
105W	4.96	3.78	3.03	2.56	2.26	2.03	1.89	1.80	1.72	1.68	1.58	1.35	1.17	0.96	0.75	0.58	0.44	0.31	0.21
110W	4.47	3.61	2.98	2.94	2.28	2.08	1.93	1.83	1.74	1.63	1.48	1.34	1.17	0.96	0.75	0.58	0.44	0.31	0.21
115W	4.21	3.48	2.93	2.56	2.31	2.13	1.97	1.86	1.77	1.63	1.48	1.34	1.17	0.96	0.75	0.58	0.45	0.31	0.21
120W	4.11	3.45	2.93	2.61	2.37	2.19	2.02	1.89	1.74	1.64	1.48	1.34	1.17	0.95	0.75	0.58	0.45	0.31	0.21
125W	4.08	3.45	2.98	2.67	2.45	2.26	2.08	1.92	1.74	1.64	1.48	1.34	1.17	0.95	0.75	0.58	0.45	0.31	0.21
130W	4.11	3.50	3.07	2.80	2.59	2.37	2.15	1.95	1.80	1.64	1.48	1.34	1.17	0.94	0.74	0.58	0.45	0.31	0.21
135W	4.24	3.61	3.19	2.76	2.75	2.50	2.20	1.98	1.80	1.64	1.48	1.34	1.16	0.94	0.73	0.58	0.45	0.31	0.21
140W	4.30	3.70	3.35	3.19	2.98	2.65	2.28	2.00	1.80	1.63	1.48	1.34	1.16	0.93	0.73	0.58	0.45	0.31	0.21
145W	4.30	3.73	3.50	3.45	3.24	2.78	2.33	2.00	1.80	1.63	1.48	1.34	1.15	0.92	0.71	0.57	0.44	0.30	0.21
150W	4.14	3.78	3.67	3.67	3.42	2.91	2.45	2.00	1.78	1.63	1.48	1.33	1.14	0.91	0.64	0.56	0.43	0.30	0.21
155W	4.02	3.81	3.84	3.97	3.59	2.96	2.35	1.98	1.78	1.63	1.48	1.33	1.13	0.89	0.69	0.55	0.42	0.29	0.21
160W	3.99	3.90	4.02	4.08	3.70	2.96	2.31	1.93	1.75	1.61	1.47	1.32	1.12	0.89	0.68	0.53	0.41	0.29	0.21
165W	4.08	4.05	4.30	4.34	3.78	2.91	2.24	1.89	1.74	1.60	1.46	1.31	1.11	0.87	0.66	0.51	0.39	0.28	0.21
170W	4.30	4.27	4.64	4.64	3.84	2.84	2.17	1.86	1.71	1.59	1.45	1.30	1.09	0.85	0.63	0.48	0.37	0.27	0.21
175W	4.40	4.53	4.96	4.85	3.84	2.73	2.08	1.81	1.70	1.57	1.45	1.29	1.08	0.84	0.61	0.45	0.34	0.26	0.21
180W	4.43	4.85	5.30	4.96	3.75	2.63	2.02	1.80	1.71	1.59	1.45	1.27	1.07	0.82	0.57	0.41	0.35	0.25	0.21
175E	4.45	5.38	5.66	4.96	3.61	2.52	2.00	1.84	1.77	1.64	1.47	1.27	1.05	0.80	0.54	0.38	0.29	0.24	0.21
170E	5.06	6.13	5.91	4.81	3.42	2.46	2.03	1.90	1.84	1.70	1.48	1.27	1.05	0.77	0.50	0.34	0.27	0.23	0.21
165E	7.08	6.83	6.04	4.57	3.24	2.45	2.10	2.00	1.93	0.02	1.50	1.27	1.03	0.74	0.47	0.31	0.25	0.22	0.21
160E	7.55	7.13	5.87	4.27	3.07	2.46	2.33	2.12	1.98	1.75	1.48	1.26	1.01	0.71	0.44	0.00	0.00	0.00	0.00
155E	7.44	6.93	5.50	3.93	2.98	2.52	2.31	2.19	2.00	1.71	1.46	1.23	0.98	0.70	0.42	0.00	0.00	0.00	0.00
150E	7.44	6.64	5.11	3.75	3.03	2.61	2.33	2.13	1.90	1.63	1.41	1.20	0.96	0.67	0.00	0.00	0.00	0.00	0.00
145E	7.44	6.45	5.00	3.84	3.19	2.67	2.22	1.95	1.72	1.54	1.36	1.16	0.93	0.65	0.00	0.00	0.00	0.00	0.00
140E	7.39	6.31	5.07	4.08	3.45	2.71	2.10	1.75	1.57	1.45	1.31	1.11	0.89	0.63	0.00	0.00	0.00	0.00	0.00
135E	7.18	6.22	5.07	4.24	3.59	2.73	2.02	1.64	1.48	1.39	1.20	1.05	0.85	0.62	0.00	0.00	0.00	0.00	0.00
130E	6.98	6.13	5.07	4.24	3.53	2.69	1.98	1.60	1.44	1.34	1.20	1.01	0.82	0.60	0.00	0.00	0.00	0.00	0.00
125E	6.83	6.00	4.76	4.05	3.30	2.50	1.90	1.56	1.41	1.31	1.17	0.98	0.80	0.59	0.00	0.00	0.00	0.00	0.00
120E	6.74	5.74	4.44	3.67	2.86	2.15	1.70	1.47	1.39	1.29	1.14	0.96	0.78	0.58	0.00	0.00	0.00	0.00	0.00
115E	6.74	5.42	4.18	3.22	2.41	1.80	1.48	1.40	1.36	1.27	1.13	0.94	0.77	0.57	0.00	0.00	0.00	0.00	0.00
110E	6.83	5.15	3.84	2.89	2.13	1.60	1.39	1.38	1.36	1.27	1.11	0.93	0.75	0.56	0.00	0.00	0.00	0.00	0.00
105E	7.08	5.07	3.47	2.73	2.05	1.59	1.40	1.39	1.36	1.30	1.11	0.93	0.75	0.55	0.00	0.00	0.00	0.00	0.00
100E	7.18	5.11	3.64	2.71	2.07	1.65	1.46	1.40	1.36	1.26	1.10	0.92	0.74	0.54	0.00	0.00	0.00	0.00	0.00
95E	7.18	5.11	3.64	2.71	2.13	1.75	1.54	1.44	1.38	1.26	1.10	0.92	0.74	0.54	0.00	0.00	0.00	0.00	0.00
90E	7.13	5.15	3.73	2.80	2.22	1.84	1.60	1.47	1.39	1.27	1.10	0.93	0.74	0.54	0.00	0.00	0.00	0.00	0.00
85E	7.23	5.38	3.93	2.93	2.31	1.92	1.67	1.51	1.40	1.27	1.11	0.93	0.75	0.54	0.00	0.00	0.00	0.00	0.00
80E	7.29	5.78	4.30	3.12	2.41	2.00	1.74	1.55	1.41	1.27	1.11	0.94	0.75	0.53	0.00	0.00	0.00	0.00	0.00
75E	7.33	6.00	4.60	3.30	2.50	2.07	1.80	1.59	1.42	1.26	1.11	0.95	0.75	0.52	0.00	0.00	0.00	0.00	0.00
70E	6.59	5.91	4.40	3.35	2.56	2.15	1.86	1.63	1.44	1.26	1.11	0.95	0.75	0.51	0.00	0.00	0.00	0.00	0.00
65E	6.13	5.54	4.40	3.32	2.65	2.24	1.93	1.67	1.46	1.26	1.11	0.96	0.75	0.50	0.00	0.00	0.00	0.00	0.00
60E	5.96	5.26	4.34	3.45	2.82	2.39	2.03	1.74	1.48	1.26	1.10	0.96	0.75	0.50	0.00	0.00	0.00	0.00	0.00
55E	5.83	5.11	4.37	3.70	3.15	2.63	2.19	1.81	1.51	1.26	1.10	0.96	0.75	0.51	0.00	0.00	0.00	0.00	0.00
50E	5.74	4.92	4.43	4.05	3.59	2.96	2.37	1.89	1.52	1.26	1.10	0.96	0.76	0.52	0.00	0.00	0.00	0.00	0.00
45E	5.91	4.89	4.47	4.40	4.11	3.42	2.65	2.00	1.55	1.26	1.10	0.96	0.77	0.55	0.00	0.00	0.00	0.00	0.00
40E	6.59	5.24	4.71	4.78	4.71	3.99	3.00	2.13	1.57	1.26	1.10	0.96	0.78	0.57	0.37	0.00	0.00	0.00	0.00
35E	7.29	6.00	5.22																

TABLE 2P 500-MR MIXING RATIO VALUES (GM/KGM)-OCTOBER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.45	1.99	1.49	1.10	0.79	0.58	0.49	0.49	0.52	0.51	0.44	0.35	0.27	0.20	0.15	0.00	0.00	0.00	0.12
5W	1.98	1.56	1.15	0.86	0.64	0.51	0.44	0.49	0.52	0.51	0.44	0.36	0.28	0.20	0.15	0.13	0.12	0.12	0.12
10W	1.47	1.22	0.96	0.64	0.52	0.46	0.44	0.50	0.52	0.51	0.45	0.36	0.28	0.21	0.16	0.14	0.13	0.13	0.12
15W	1.57	1.01	0.68	0.52	0.47	0.45	0.48	0.54	0.52	0.51	0.45	0.36	0.28	0.22	0.17	0.14	0.00	0.13	0.12
20W	1.50	0.93	0.62	0.50	0.47	0.48	0.51	0.52	0.53	0.51	0.45	0.36	0.28	0.22	0.17	0.15	0.14	0.13	0.12
25W	1.44	0.93	0.64	0.53	0.51	0.53	0.56	0.57	0.56	0.53	0.45	0.37	0.29	0.22	0.18	0.16	0.14	0.13	0.12
30W	1.40	0.98	0.72	0.60	0.58	0.61	0.62	0.63	0.60	0.54	0.45	0.37	0.29	0.23	0.19	0.16	0.15	0.14	0.12
35W	1.32	1.06	0.82	0.71	0.69	0.69	0.71	0.69	0.64	0.55	0.45	0.36	0.29	0.23	0.19	0.17	0.15	0.14	0.12
40W	1.41	1.14	0.94	0.83	0.81	0.81	0.80	0.76	0.67	0.56	0.45	0.36	0.29	0.23	0.20	0.17	0.16	0.14	0.12
45W	1.57	1.30	1.10	1.01	0.97	0.95	0.90	0.82	0.71	0.56	0.44	0.35	0.29	0.24	0.20	0.18	0.16	0.14	0.12
50W	1.85	1.50	1.30	1.19	1.13	1.07	0.97	0.86	0.71	0.55	0.43	0.35	0.29	0.24	0.21	0.19	0.17	0.15	0.12
55W	2.13	1.73	1.48	1.33	1.22	1.09	0.97	0.86	0.71	0.54	0.42	0.34	0.29	0.25	0.21	0.19	0.17	0.15	0.12
60W	2.24	1.85	1.61	1.45	1.24	1.04	0.91	0.82	0.69	0.53	0.42	0.36	0.31	0.25	0.22	0.20	0.18	0.15	0.12
65W	2.22	1.88	1.73	1.57	1.23	0.91	0.76	0.71	0.62	0.51	0.43	0.38	0.32	0.26	0.23	0.20	0.18	0.15	0.12
70W	2.22	1.96	1.89	1.7	1.16	0.73	0.56	0.55	0.55	0.50	0.44	0.41	0.34	0.28	0.24	0.22	0.19	0.15	0.12
75W	2.38	2.19	2.10	1.76	1.06	0.58	0.43	0.45	0.50	0.51	0.47	0.42	0.35	0.28	0.24	0.22	0.19	0.15	0.12
80W	2.47	2.44	2.19	1.64	0.94	0.53	0.39	0.42	0.48	0.50	0.46	0.41	0.34	0.29	0.25	0.22	0.19	0.15	0.12
85W	2.92	2.52	2.06	1.46	0.87	0.52	0.40	0.42	0.48	0.49	0.45	0.40	0.34	0.30	0.26	0.22	0.19	0.15	0.12
90W	2.92	2.38	1.85	1.31	0.82	0.52	0.41	0.42	0.47	0.49	0.45	0.40	0.35	0.30	0.26	0.22	0.19	0.15	0.12
95W	2.73	2.17	1.65	1.19	0.77	0.52	0.42	0.43	0.47	0.49	0.46	0.40	0.35	0.30	0.26	0.23	0.19	0.15	0.12
100W	2.54	1.99	1.50	1.08	0.74	0.52	0.43	0.44	0.48	0.49	0.46	0.41	0.36	0.31	0.26	0.23	0.19	0.15	0.12
105W	2.44	1.86	1.39	1.02	0.71	0.52	0.45	0.45	0.48	0.49	0.46	0.41	0.36	0.31	0.26	0.23	0.19	0.15	0.12
110W	2.32	1.78	1.28	0.96	0.69	0.52	0.46	0.47	0.49	0.49	0.46	0.41	0.36	0.31	0.26	0.22	0.19	0.15	0.12
115W	2.13	1.60	1.20	0.91	0.69	0.53	0.47	0.48	0.50	0.50	0.46	0.41	0.36	0.31	0.26	0.22	0.19	0.15	0.12
120W	1.91	1.48	1.12	0.88	0.69	0.56	0.50	0.49	0.50	0.50	0.46	0.41	0.36	0.31	0.26	0.22	0.19	0.15	0.12
125W	1.82	1.40	1.08	0.86	0.71	0.59	0.53	0.52	0.52	0.50	0.46	0.41	0.36	0.31	0.26	0.22	0.18	0.15	0.12
130W	1.86	1.37	1.05	0.86	0.73	0.64	0.58	0.56	0.54	0.51	0.47	0.41	0.36	0.31	0.26	0.22	0.18	0.15	0.12
135W	1.86	1.39	1.08	0.87	0.77	0.70	0.64	0.60	0.56	0.52	0.47	0.41	0.36	0.31	0.26	0.22	0.18	0.15	0.12
140W	1.73	1.30	1.05	0.92	0.84	0.77	0.71	0.64	0.58	0.54	0.48	0.41	0.36	0.30	0.25	0.21	0.17	0.14	0.12
145W	1.58	1.28	1.09	0.99	0.92	0.85	0.77	0.68	0.61	0.55	0.48	0.41	0.35	0.30	0.25	0.21	0.17	0.14	0.12
150W	1.54	1.28	1.14	1.08	1.03	0.92	0.81	0.71	0.62	0.55	0.48	0.42	0.35	0.30	0.25	0.20	0.17	0.14	0.12
155W	1.56	1.31	1.22	1.20	1.12	0.98	0.85	0.73	0.63	0.55	0.48	0.42	0.35	0.30	0.24	0.20	0.16	0.14	0.12
160W	1.57	1.34	1.30	1.31	1.22	1.04	0.87	0.73	0.63	0.55	0.48	0.42	0.36	0.30	0.24	0.19	0.16	0.13	0.12
165W	1.67	1.40	1.39	1.43	1.31	1.07	0.88	0.73	0.62	0.55	0.49	0.42	0.36	0.30	0.24	0.19	0.15	0.13	0.12
170W	1.86	1.57	1.56	1.58	1.40	1.10	0.87	0.72	0.62	0.55	0.49	0.42	0.36	0.29	0.23	0.18	0.14	0.13	0.12
175W	2.10	1.86	1.85	1.80	1.49	1.11	0.86	0.71	0.62	0.56	0.49	0.42	0.35	0.29	0.22	0.17	0.14	0.13	0.12
180W	2.36	2.22	2.15	1.94	1.49	1.07	0.82	0.69	0.61	0.57	0.50	0.42	0.35	0.28	0.21	0.16	0.13	0.12	0.12
-175E	2.69	2.60	2.38	1.94	1.40	0.99	0.77	0.65	0.61	0.57	0.50	0.42	0.35	0.28	0.21	0.15	0.12	0.12	0.12
-170E	3.01	2.80	2.48	1.85	1.27	0.91	0.72	0.62	0.58	0.57	0.50	0.42	0.35	0.28	0.21	0.14	0.12	0.12	0.12
-165E	3.19	3.04	2.44	1.68	1.15	0.85	0.68	0.59	0.57	0.55	0.50	0.42	0.34	0.27	0.20	0.14	0.12	0.12	0.12
-160E	3.19	3.04	2.30	1.50	1.05	0.80	0.65	0.57	0.56	0.55	0.49	0.41	0.34	0.27	0.19	0.00	0.00	0.00	0.00
-155E	3.16	2.92	2.10	1.33	0.94	0.77	0.65	0.59	0.57	0.55	0.47	0.40	0.33	0.26	0.19	0.00	0.00	0.00	0.00
-150E	3.16	2.73	1.86	1.19	0.91	0.77	0.68	0.62	0.59	0.53	0.45	0.38	0.32	0.25	0.00	0.00	0.00	0.00	0.00
-145E	3.11	2.46	1.62	1.08	0.89	0.79	0.71	0.64	0.58	0.50	0.42	0.36	0.31	0.25	0.00	0.00	0.00	0.00	0.00
-140E	2.94	2.17	1.44	1.04	0.89	0.80	0.69	0.60	0.53	0.46	0.40	0.34	0.30	0.24	0.00	0.00	0.00	0.00	0.00
-135E	2.67	1.89	1.30	1.01	0.89	0.77	0.64	0.54	0.47	0.42	0.35	0.33	0.29	0.23	0.00	0.00	0.00	0.00	0.00
-130E	2.40	1.71	1.22	0.98	0.87	0.73	0.58	0.48	0.42	0.39	0.35	0.32	0.28	0.23	0.00	0.00	0.00	0.00	0.00
-125E	2.26	1.62	1.19	0.96	0.83	0.66	0.53	0.44	0.39	0.37	0.34	0.31	0.27	0.22	0.00	0.00	0.00	0.00	0.00
-120E	2.20	1.58	1.18	0.95	0.79	0.62	0.48	0.41	0.38	0.36	0.33	0.30	0.27	0.22	0.00	0.00	0.00	0.00	0.00
-115E	2.19	1.56	1.16	0.91	0.73	0.56	0.45	0.40	0.37	0.35	0.32	0.29	0.29	0.25	0.21	0.00	0.00	0.00	0.00
-110E	2.10	1.57	1.14	0.88	0.69	0.53	0.44	0.40	0.38	0.35	0.32	0.29	0.29	0.25	0.20	0.00	0.00	0.00	0.00
-105E	2.52	1.60	1.13	0.86	0.67	0.54	0.45	0.41	0.38	0.35	0.32	0.29	0.25	0.20	0.00	0.00	0.00	0.00	0.00
-100E	2.71	1.65	1.13	0.86	0.67	0.55	0.48	0.43	0.39	0.36	0.32	0.28	0.24	0.20	0.00	0.00	0.00	0.00	0.00
-95E	2.85	1.71	1.15	0.86	0.67	0.57	0.51	0.45	0.41	0.37	0.32	0.28	0.24	0.19	0.00	0.00	0.00	0.00	0.00
-90E	2.92	1.77	1.18	0.86	0.68	0.58	0.54	0.49	0.43	0.38	0.32	0.28	0.24	0.19	0.00	0.00	0.00	0.00	0.00
-85E	2.92	1.83	1.21	0.86	0.69	0.60	0.56	0.52	0.45	0.39	0.33	0.28	0.23	0.19	0.00	0.00	0.00	0.00	0.00
-80E	2.85	1.86	1.24	0.88	0.69	0.61	0.57	0.53	0.48	0.40	0.34	0.28	0.23	0.18	0.00	0.00	0.00	0.00	0.00
-75E	2.69	1.86	1.26	0.90	0.70	0.61	0.56	0.55	0.50	0.42	0.36	0.28	0.23	0.18	0.00	0.00	0.00	0.00	0.00
-70E	2.44	1.80	1.27	0.91	0.71	0.62	0.58	0.56	0.51	0.43	0.35	0.28	0.23	0.18	0.00	0.00	0.00	0.00	0.00
-65E	2.17	1.78	1.26	0.91	0.71	0.62	0.59	0.57	0.53	0.45	0.36	0.29	0.23	0.18	0.00	0.00	0.00	0.00	0.00
-60E	2.01	1.67	1.24	0.91	0.73	0.64	0.60	0.57	0.54	0.46	0.37	0.29	0.23	0.18	0.00	0.00	0.00	0.00	0.00
-55E	1.96	1.60	1.20	0.91	0.75	0.65	0.61	0.58	0.54	0.48	0.38	0.30	0.23	0.18	0.00	0.00	0.00	0.00	0.00
-50E	1.98	1.49	1.12	0.93	0.80	0.69	0.62	0.58	0.55	0.49	0.40	0.30	0.23	0.18	0.00	0.00	0.00	0.00	0.00
-45E	1.93	1.35	1.08	1.03	0.94	0.77	0.67	0.61	0.56	0.50	0.40	0.31	0.24	0.18	0.00	0.00	0.00	0.00	0.00
-40E	1.80	1.25	1.08	1.15	1.19	0.98	0.77	0.65	0.58	0.51	0.41	0.32	0.24	0.18	0.13	0.00	0.00	0.00	0.00
-35E	1.94	1.40	1.16	1.20	1.28	1.16	0.91	0.71	0.60	0.51	0.42	0.32							

TABLE 1A TOTAL PRECIPITABLE WATER VALUES (CM) - JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	4.33	3.77	3.21	2.73	2.45	2.26	2.11	2.00	1.79	1.50	1.24	1.04	0.84	0.73	0.58	0.00	0.00	0.00	0.24
5W	4.05	3.47	3.00	2.66	2.46	2.31	2.19	2.04	1.81	1.51	1.25	1.05	0.90	0.74	0.59	0.00	0.31	0.29	0.24
10W	3.91	3.34	2.93	2.65	2.50	2.36	2.24	2.07	1.84	1.53	1.26	1.06	0.91	0.76	0.61	0.39	0.32	0.29	0.24
15W	3.94	3.33	2.94	2.71	2.59	2.48	2.32	2.14	1.86	1.54	1.27	1.08	0.92	0.77	0.62	0.41	0.00	0.30	0.24
20W	4.10	3.46	3.35	2.84	2.73	2.59	2.41	2.19	1.89	1.56	1.28	1.09	0.94	0.78	0.63	0.47	0.34	0.30	0.24
25W	4.23	3.64	3.22	3.01	2.90	2.74	2.52	2.27	1.93	1.58	1.29	1.11	0.95	0.80	0.64	0.51	0.35	0.30	0.24
30W	4.24	3.73	3.38	3.22	3.12	2.93	2.64	2.32	1.96	1.60	1.32	1.12	0.97	0.81	0.65	0.52	0.37	0.31	0.24
35W	4.24	3.78	3.50	3.48	3.43	3.20	2.79	2.40	2.00	1.62	1.34	1.14	0.98	0.82	0.66	0.53	0.38	0.31	0.24
40W	4.44	3.83	3.43	3.77	3.76	3.44	2.96	2.49	2.04	1.64	1.35	1.15	1.00	0.83	0.67	0.54	0.39	0.31	0.24
45W	4.55	4.40	4.42	4.32	3.90	3.81	3.14	2.58	2.08	1.66	1.37	1.17	1.01	0.84	0.67	0.54	0.39	0.31	0.24
50W	4.56	4.90	4.82	4.69	4.44	3.72	3.28	2.66	2.14	1.69	1.39	1.19	1.03	0.86	0.68	0.54	0.39	0.32	0.24
55W	4.58	5.04	5.04	4.45	4.55	4.11	3.36	2.69	2.17	1.75	1.42	1.23	1.05	0.89	0.68	0.54	0.39	0.32	0.24
60W	4.57	4.90	5.09	5.06	5.04	4.32	3.37	2.70	2.15	1.76	1.46	1.27	1.09	0.90	0.68	0.54	0.39	0.31	0.24
65W	4.59	4.96	5.09	4.74	3.65	3.04	3.00	2.43	1.99	1.60	1.45	1.31	1.13	0.92	0.70	0.45	0.39	0.32	0.24
70W	4.52	4.94	4.78	3.62	2.83	2.22	2.09	1.90	1.61	1.46	1.41	1.32	1.14	0.93	0.71	0.46	0.39	0.32	0.24
75W	4.01	4.70	4.06	3.22	2.44	1.92	1.93	1.86	1.80	1.66	1.50	1.33	1.14	0.94	0.72	0.48	0.38	0.32	0.24
80W	4.20	4.10	3.69	3.03	2.50	2.19	2.06	1.99	1.88	1.75	1.57	1.35	1.13	0.93	0.73	0.48	0.38	0.32	0.24
85W	4.23	3.86	3.37	2.88	2.53	2.32	2.04	2.15	1.94	1.76	1.56	1.34	1.13	0.93	0.74	0.48	0.38	0.32	0.24
90W	4.03	3.56	3.15	2.80	1.98	2.41	2.29	2.13	1.97	1.76	1.55	1.33	1.18	0.94	0.75	0.49	0.39	0.32	0.24
95W	3.92	3.41	3.04	2.80	2.00	2.51	2.35	2.18	1.97	1.76	1.54	1.33	1.12	0.94	0.75	0.49	0.39	0.32	0.24
100W	3.94	3.34	3.04	2.85	2.05	2.61	2.43	2.21	1.98	1.75	1.53	1.32	1.12	0.94	0.76	0.50	0.39	0.32	0.24
105W	3.82	3.30	3.04	2.91	2.10	2.72	2.50	2.26	2.00	1.74	1.53	1.32	1.12	0.93	0.75	0.50	0.40	0.32	0.24
110W	3.71	3.28	3.05	2.99	2.15	2.80	2.58	2.29	2.01	1.75	1.53	1.32	1.12	0.93	0.76	0.51	0.40	0.33	0.24
115W	3.59	3.26	3.16	3.13	2.21	2.87	2.64	2.33	2.02	1.75	1.52	1.31	1.11	0.93	0.75	0.52	0.42	0.33	0.24
120W	3.53	3.30	3.29	3.24	2.26	2.96	2.68	2.36	2.04	1.75	1.52	1.31	1.11	0.93	0.75	0.52	0.42	0.33	0.24
125W	3.55	3.43	3.41	3.38	2.30	3.04	2.72	2.37	2.05	1.76	1.52	1.30	1.11	0.93	0.75	0.53	0.42	0.33	0.24
130W	3.56	3.54	3.58	3.52	2.37	3.08	2.74	2.37	2.05	1.76	1.52	1.30	1.10	0.92	0.76	0.56	0.43	0.33	0.24
135W	3.55	3.62	3.76	3.73	2.43	3.13	2.75	2.37	2.05	1.76	1.52	1.30	1.10	0.92	0.76	0.56	0.43	0.33	0.24
140W	3.55	3.66	3.91	3.90	2.50	3.20	2.74	2.37	2.05	1.76	1.52	1.30	1.10	0.92	0.75	0.58	0.43	0.33	0.24
145W	3.56	3.72	4.00	4.06	2.57	3.27	2.77	2.36	2.04	1.76	1.52	1.30	1.09	0.91	0.75	0.58	0.43	0.33	0.24
150W	3.60	3.78	4.07	4.11	2.88	3.35	2.78	2.35	2.04	1.76	1.53	1.30	1.10	0.91	0.75	0.58	0.44	0.33	0.24
155W	3.66	3.84	4.21	4.32	2.67	3.39	2.78	2.34	2.04	1.76	1.52	1.30	1.10	0.91	0.75	0.59	0.43	0.33	0.24
160W	3.84	4.00	4.30	4.40	2.70	3.38	2.74	2.34	2.04	1.77	1.53	1.31	1.09	0.91	0.74	0.58	0.43	0.33	0.24
165W	3.92	4.10	4.39	4.50	2.74	3.37	2.73	2.33	2.03	1.77	1.54	1.32	1.10	0.91	0.74	0.58	0.44	0.33	0.24
170W	3.97	4.17	4.51	4.62	2.75	3.34	2.69	2.31	2.03	1.77	1.54	1.32	1.10	0.90	0.74	0.57	0.44	0.32	0.24
175W	3.95	4.33	4.68	4.78	2.74	3.29	2.65	2.28	2.03	1.77	1.55	1.33	1.10	0.89	0.72	0.56	0.57	0.32	0.24
180W	4.15	4.40	4.84	4.82	2.67	3.23	2.60	2.32	2.05	1.79	1.56	1.33	1.09	0.88	0.70	0.55	0.44	0.32	0.24
-175E	4.38	4.68	4.90	4.70	2.59	3.16	2.59	2.24	1.95	1.79	1.57	1.33	1.08	0.86	0.68	0.53	0.43	0.31	0.24
-170E	4.57	4.82	4.93	4.59	2.54	3.11	2.67	2.26	1.95	1.68	1.58	1.32	1.06	0.84	0.66	0.51	0.42	0.30	0.24
-165E	4.67	4.88	4.84	4.44	2.58	3.13	2.68	2.32	1.97	1.70	1.55	1.31	1.04	0.81	0.60	0.47	0.41	0.31	0.24
-160E	4.72	4.86	4.67	4.39	2.64	3.20	2.74	2.38	1.97	1.64	1.46	1.27	1.01	0.78	0.54	0.00	0.39	0.00	0.00
-155E	4.72	4.75	4.71	4.42	2.71	3.28	2.77	2.38	1.94	1.58	1.40	1.20	0.98	0.75	0.48	0.00	0.00	0.00	0.00
-150E	4.47	4.64	4.57	4.45	2.75	2.89	2.40	2.13	1.88	1.53	1.44	1.14	0.93	0.71	0.00	0.00	0.00	0.00	0.00
-145E	4.48	4.24	4.56	4.38	2.51	2.75	2.19	1.84	1.73	1.50	1.30	1.10	0.89	0.67	0.00	0.00	0.00	0.00	0.00
-140E	4.70	4.27	4.59	4.36	3.51	2.39	1.93	1.74	1.66	1.46	1.26	1.06	0.86	0.65	0.00	0.00	0.00	0.00	0.00
-135E	4.72	4.54	4.62	4.19	3.04	2.21	1.84	1.82	1.61	1.42	1.23	1.03	0.83	0.64	0.00	0.00	0.00	0.00	0.00
-130E	4.48	4.63	4.61	4.14	2.94	2.18	1.84	1.83	1.62	1.41	1.21	1.01	0.82	0.63	0.00	0.00	0.00	0.00	0.00
-125E	4.60	4.60	4.54	4.26	3.04	2.23	1.96	1.86	1.65	1.42	1.20	1.00	0.81	0.63	0.00	0.00	0.00	0.00	0.00
-120E	4.50	4.50	4.52	4.22	3.49	2.26	2.01	1.88	1.67	1.43	1.19	0.99	0.81	0.63	0.00	0.00	0.00	0.00	0.00
-115E	4.46	4.63	4.56	3.88	3.33	2.66	2.21	1.95	1.48	1.43	1.19	0.98	0.81	0.64	0.00	0.00	0.00	0.00	0.00
-110E	4.51	4.63	4.50	3.85	3.20	2.70	2.22	1.95	1.49	1.44	1.18	0.98	0.80	0.64	0.00	0.00	0.00	0.00	0.00
-105E	4.53	4.51	4.39	3.64	3.11	2.66	3.07	1.96	1.69	1.43	1.18	0.97	0.81	0.65	0.00	0.00	0.00	0.00	0.00
-100E	4.46	4.47	4.22	3.62	3.10	2.66	2.30	1.98	1.70	1.43	1.17	0.97	0.81	0.65	0.00	0.00	0.00	0.00	0.00
-95E	4.51	4.46	4.13	3.60	3.12	2.70	2.34	2.02	1.71	1.43	1.16	0.96	0.80	0.65	0.00	0.00	0.00	0.00	0.00
-90E	4.53	4.47	4.15	3.63	3.18	2.75	2.39	2.05	1.74	1.43	1.15	0.95	0.80	0.64	0.00	0.00	0.00	0.00	0.00
-85E	4.54	4.53	4.21	3.70	3.22	2.82	2.44	2.10	1.77	1.43	1.15	0.95	0.80	0.64	0.00	0.00	0.00	0.00	0.00
-80E	4.49	4.55	4.27	3.77	3.27	2.87	2.49	2.14	1.78	1.43	1.14	0.94	0.79	0.64	0.00	0.00	0.00	0.00	0.00
-75E	4.49	4.55	4.30	3.86	3.36	2.93	2.53	2.17	1.81	1.43	1.12	0.94	0.79	0.64	0.00	0.00	0.00	0.00	0.00
-70E	4.49	4.68	4.48	4.00	3.48	3.02	2.60	2.21	1.83	1.43	1.12	0.93	0.78	0.63	0.00	0.00	0.00	0.00	0.00
-65E	4.49	4.66	4.62	4.20	3.59	3.13	2.68	1.96	1.84	1.44	1.11	0.93	0.77	0.62	0.00	0.00	0.00	0.00	0.00
-60E	4.44	4.69	4.73	4.41	3.77	3.26	2.77	2.30	1.86	1.46	1.12	0.93	0.77	0.61	0.00	0.00	0.00	0.00	0.00
-55E	4.31	4.62	4.77	4.59	4.01	3.51	2.90	2.36	1.88	1.46	1.13	0.93	0.77	0.61	0.00	0.00	0.00	0.00	0.00
-50E	4.11	4.44	4.72	4.54	4.30	3.65	3.07	2.45	1.92	1.39	1.13	0.94	0.77	0.61	0.00	0.00	0.00	0.00	0.00
-45E	3.95	4.27	4.66	4.85	4.16	3.84	3.21	2.54	1.94	1.47	1.14	0.94	0.78	0.62	0.00	0.00	0.00	0.00	0.00
-40E	3.96	4.34	4.65	4.66	4.41	4.00	3.53	2.62	1.98	1.48	1.15	0.95	0.79	0.63	0.49	0.00	0.00	0.00	0.00
-35E	3.45	4.06	4.31	4.56	4.42														

TABLE 39 TOTAL PRECIPITABLE WATER VALUES (CM) - APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	4.40	4.43	3.91	3.26	2.48	2.28	2.00	1.77	1.53	1.28	1.06	0.88	0.70	0.50	0.24	0.00	0.00	0.00	0.07
5N	4.50	4.12	3.61	3.06	2.42	2.32	2.04	1.80	1.54	1.28	1.06	0.87	0.70	0.50	0.25	0.14	0.10	0.07	0.07
10N	4.34	3.88	3.41	2.95	2.60	2.33	2.08	1.82	1.14	1.28	1.05	0.87	0.70	0.51	0.28	0.16	0.10	0.07	0.07
15N	4.27	3.81	3.36	2.95	2.44	2.39	2.14	1.82	1.57	1.29	1.06	0.88	0.71	0.52	0.31	0.18	0.00	0.08	0.07
20N	4.28	3.87	3.43	3.04	2.75	2.49	2.20	1.92	1.59	1.29	1.06	0.87	0.71	0.53	0.34	0.21	0.13	0.08	0.07
25N	4.45	4.09	3.54	3.17	2.87	2.60	2.31	1.97	0.00	1.30	1.06	0.88	0.72	0.54	0.36	0.23	0.14	0.09	0.07
30N	4.63	4.29	3.79	3.31	3.00	2.75	2.39	2.03	1.64	1.32	1.07	0.89	0.72	0.55	0.38	0.26	0.15	0.09	0.07
35N	4.70	4.44	3.97	3.53	3.25	2.93	2.53	2.00	1.66	1.33	1.08	0.89	0.73	0.56	0.39	0.27	0.16	0.09	0.07
40N	4.80	4.61	3.83	3.69	3.47	3.14	2.64	2.12	1.69	1.35	1.08	0.90	0.75	0.56	0.40	0.27	0.17	0.10	0.07
45N	4.87	4.80	4.44	4.01	3.35	3.17	2.69	2.14	1.70	1.35	1.10	0.92	0.76	0.56	0.40	0.28	0.17	0.10	0.07
50N	4.84	5.14	4.73	4.09	3.68	3.11	2.60	2.13	1.72	1.37	1.11	0.93	0.78	0.57	0.41	0.28	0.18	0.10	0.07
55N	4.79	5.11	4.94	4.37	3.81	3.25	2.53	2.08	1.71	1.38	1.13	0.97	0.81	0.58	0.40	0.27	0.18	0.11	0.07
60N	4.76	5.20	5.02	4.66	4.10	3.30	2.60	2.08	1.70	1.36	1.14	1.00	0.84	0.61	0.39	0.27	0.18	0.11	0.07
65N	4.73	5.00	4.99	4.06	2.97	2.33	2.16	1.85	1.56	1.28	1.15	1.03	0.89	0.64	0.38	0.26	0.18	0.11	0.07
70N	4.65	4.93	4.62	3.07	2.26	1.69	1.67	1.59	1.30	1.20	1.15	1.06	0.91	0.70	0.41	0.26	0.18	0.11	0.07
75N	4.31	4.69	3.98	2.79	2.11	1.80	1.63	1.61	1.60	1.48	1.27	1.10	0.93	0.70	0.45	0.27	0.18	0.11	0.07
80N	4.57	4.40	3.77	2.95	2.29	2.01	1.84	1.75	1.68	1.54	1.36	1.14	0.93	0.71	0.48	0.28	0.18	0.11	0.07
85N	4.43	4.36	3.59	2.86	2.36	2.12	1.95	1.82	1.71	1.54	1.34	1.19	0.93	0.72	0.49	0.28	0.19	0.12	0.07
90N	4.45	4.11	3.33	2.80	2.10	2.21	1.98	1.88	1.73	1.53	1.33	1.12	0.93	0.72	0.50	0.29	0.19	0.12	0.07
95N	4.43	3.99	3.25	2.78	2.10	2.27	2.04	1.93	1.74	1.54	1.33	1.13	0.94	0.72	0.51	0.29	0.19	0.12	0.07
100N	4.28	3.78	3.19	2.79	2.09	2.32	2.14	1.97	1.76	1.53	1.32	1.12	0.94	0.72	0.50	0.29	0.19	0.12	0.07
105N	4.18	3.63	3.13	2.79	2.07	2.39	2.20	2.00	1.77	1.55	1.32	1.12	0.94	0.74	0.48	0.29	0.20	0.12	0.07
110N	4.13	3.59	3.12	2.82	2.04	2.46	2.26	2.03	1.78	1.54	1.31	1.12	0.94	0.72	0.48	0.29	0.20	0.12	0.07
115N	4.14	3.50	3.14	2.84	2.09	2.52	2.31	2.06	1.79	1.53	1.31	1.12	0.94	0.72	0.50	0.29	0.20	0.12	0.07
120N	4.13	3.59	3.16	2.91	2.10	2.58	2.38	2.07	1.79	1.53	1.31	1.12	0.94	0.71	0.48	0.30	0.21	0.12	0.07
125N	4.13	3.59	3.21	2.99	2.15	2.67	2.42	2.09	1.79	1.53	1.30	1.13	0.94	0.71	0.48	0.30	0.22	0.13	0.07
130N	4.10	3.61	3.36	3.20	2.23	2.76	2.64	2.10	1.79	1.53	1.30	1.13	0.94	0.71	0.48	0.30	0.23	0.13	0.07
135N	4.05	3.69	3.53	3.38	2.27	2.82	2.68	2.11	1.79	1.53	1.30	1.12	0.94	0.71	0.48	0.30	0.23	0.13	0.07
140N	3.98	3.75	3.69	3.56	2.30	2.90	2.50	2.10	1.79	1.52	1.30	1.12	0.94	0.71	0.47	0.30	0.23	0.13	0.07
145N	3.93	3.83	3.85	3.72	2.32	2.98	2.51	2.12	1.79	1.53	1.30	1.12	0.94	0.71	0.47	0.31	0.23	0.13	0.07
150N	3.92	3.94	4.01	3.87	2.38	3.00	2.52	2.15	1.79	1.52	1.30	1.12	0.95	0.71	0.47	0.31	0.23	0.13	0.07
155N	3.95	4.02	4.14	4.00	2.42	3.02	2.51	2.11	1.78	1.52	1.30	1.12	0.95	0.70	0.47	0.30	0.23	0.13	0.07
160N	3.97	4.07	4.17	4.06	2.47	3.02	2.50	2.10	1.79	1.53	1.30	1.13	0.94	0.70	0.46	0.30	0.22	0.12	0.07
165N	4.04	4.12	4.19	4.12	2.51	3.03	2.50	2.10	1.79	1.53	1.30	1.13	0.94	0.70	0.45	0.29	0.22	0.12	0.07
170N	4.15	4.25	4.30	4.21	2.57	3.06	2.46	2.08	1.80	1.54	1.31	1.13	0.94	0.69	0.44	0.28	0.21	0.12	0.07
175N	4.26	4.40	4.46	4.35	2.57	3.01	2.42	2.04	1.79	1.55	1.32	1.14	0.94	0.68	0.43	0.27	0.20	0.11	0.07
180N	4.36	4.51	4.56	4.40	2.57	2.97	2.37	2.01	1.77	1.55	1.32	1.15	0.94	0.67	0.41	0.26	0.19	0.11	0.07
175E	4.51	4.61	4.63	4.39	2.56	2.91	2.33	1.94	1.68	1.55	1.32	1.14	0.92	0.64	0.38	0.24	0.18	0.10	0.07
170E	4.72	4.76	4.69	4.32	2.50	2.82	2.29	1.93	1.69	1.44	1.32	1.13	0.90	0.61	0.35	0.21	0.16	0.10	0.07
165E	4.94	4.88	4.67	4.19	2.82	2.72	2.28	2.00	1.74	1.49	1.30	1.11	0.88	0.58	0.29	0.18	0.15	0.09	0.07
160E	5.08	4.91	4.65	4.11	2.38	2.69	2.31	2.05	1.77	1.49	1.26	1.08	0.86	0.55	0.25	0.00	0.13	0.00	0.00
155E	5.09	4.88	4.60	4.05	2.34	2.69	2.26	2.04	1.76	1.44	1.23	1.05	0.82	0.51	0.22	0.00	0.00	0.00	0.00
150E	5.06	4.87	4.42	3.89	2.33	2.17	1.86	1.71	1.68	1.37	1.18	1.02	0.79	0.48	0.00	0.00	0.00	0.00	0.00
145E	5.03	4.40	4.26	3.50	1.87	1.78	1.70	1.52	1.54	1.32	1.16	1.00	0.76	0.46	0.00	0.00	0.00	0.00	0.00
140E	4.99	4.27	4.05	3.18	2.34	1.78	1.55	1.49	1.49	1.29	1.14	0.98	0.74	0.43	0.00	0.00	0.00	0.00	0.00
135E	4.95	4.23	3.93	2.85	2.08	1.71	1.53	1.44	1.49	1.29	1.14	0.97	0.71	0.42	0.00	0.00	0.00	0.00	0.00
130E	4.91	4.57	4.00	2.85	2.04	1.72	1.63	1.68	1.51	1.30	1.14	0.96	0.69	0.40	0.00	0.00	0.00	0.00	0.00
125E	4.85	4.65	4.11	3.23	2.19	1.75	1.70	1.71	1.56	1.33	1.13	0.95	0.69	0.39	0.00	0.00	0.00	0.00	0.00
120E	4.83	4.71	4.20	3.50	2.53	1.82	1.74	1.71	1.59	1.34	1.13	0.94	0.69	0.39	0.00	0.00	0.00	0.00	0.00
115E	4.81	4.81	4.39	3.63	2.75	2.15	1.92	1.85	1.59	1.34	1.12	0.93	0.63	0.40	0.00	0.00	0.00	0.00	0.00
110E	4.80	4.79	4.44	3.77	3.04	2.50	2.14	1.84	1.54	1.31	1.11	0.93	0.69	0.40	0.00	0.00	0.00	0.00	0.00
105E	4.70	4.54	4.39	3.79	3.08	2.55	2.11	1.80	1.52	1.27	1.09	0.92	0.68	0.41	0.00	0.00	0.00	0.00	0.00
100E	4.40	4.54	4.27	3.63	3.02	2.51	2.10	1.75	1.49	1.26	1.08	0.92	0.69	0.42	0.00	0.00	0.00	0.00	0.00
95E	4.58	4.44	4.12	3.50	2.93	2.45	2.07	1.74	1.48	1.25	1.07	0.92	0.68	0.42	0.00	0.00	0.00	0.00	0.00
90E	4.64	4.35	3.96	3.40	2.87	2.42	2.04	1.74	1.48	1.24	1.07	0.92	0.68	0.44	0.00	0.00	0.00	0.00	0.00
85E	4.67	4.33	3.90	3.34	2.85	2.41	2.06	1.74	1.47	1.24	1.07	0.91	0.68	0.44	0.00	0.00	0.00	0.00	0.00
80E	4.67	4.30	3.98	3.44	2.87	2.43	2.07	1.75	1.49	1.23	1.08	0.91	0.68	0.44	0.00	0.00	0.00	0.00	0.00
75E	4.70	4.28	4.18	3.55	2.93	2.46	2.08	1.78	1.51	1.24	1.07	0.91	0.67	0.44	0.00	0.00	0.00	0.00	0.00
70E	4.86	4.84	4.41	3.74	3.05	2.52	2.12	1.80	1.52	1.25	1.08	0.91	0.67	0.43	0.00	0.00	0.00	0.00	0.00
65E	5.06	5.01	4.61	3.92	3.24	2.63	2.18	1.83	1.53	1.26	1.07	0.90	0.66	0.42	0.00	0.00	0.00	0.00	0.00
60E	5.16	5.04	4.72	4.17	3.45	2.77	2.24	1.87	1.54	1.20	1.08	0.90	0.66	0.42	0.00	0.00	0.00	0.00	0.00
55E	5.02	4.93	4.69	4.32	3.61	2.96	2.37	1.91	1.56	1.26	1.08	0.90	0.67	0.44	0.00	0.00	0.00	0.00	0.00
50E	4.88	4.85	4.63	4.25	3.70	3.18	2.56	1.99	1.59	1.27	1.07	0.90	0.68	0.46	0.00	0.00	0.00	0.00	0.00
45E	4.84	4.86	4.68	4.49	3.89	3.25	2.69	2.08	1.63	1.29	1.07	0.90	0.69	0.49	0.00	0.00	0.00	0.00	0.00
40E	4.77	4.86	4.76	4.28	3.95	3.39	2.83	2.18	1.69	1.31	1.07	0.90	0.71	0.51	0.25	0.00	0.00	0.00	0.00
35E	4.70	4.37	4.10	3.83	3.74	3.34	2.86	2.23	1.72	1.32	1.07								

TABLE 30 TOTAL PRECIPITATION WATER VALUES (CM) - JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	3.50	3.00	2.56	2.21	1.98	1.81	1.67	1.51	1.27	1.02	0.81	0.63	0.47	0.30	0.17	0.00	0.00	0.00	0.05
5W	3.18	2.91	2.53	2.25	2.03	1.86	1.69	1.51	1.27	1.02	0.80	0.63	0.46	0.30	0.17	0.10	0.08	0.05	0.05
10W	3.12	2.90	2.57	2.30	2.04	1.90	1.72	1.52	1.27	1.01	0.80	0.62	0.46	0.31	0.19	0.11	0.08	0.06	0.05
15W	3.15	2.91	2.61	2.36	2.14	1.95	1.76	1.54	1.27	1.01	0.80	0.62	0.46	0.31	0.20	0.12	0.09	0.06	0.05
20W	3.04	3.01	2.69	2.44	2.22	2.02	1.80	1.55	1.27	1.01	0.79	0.61	0.46	0.32	0.21	0.14	0.09	0.06	0.05
25W	3.50	3.13	2.82	2.57	2.35	2.11	1.85	1.57	1.28	1.01	0.79	0.60	0.44	0.33	0.23	0.16	0.10	0.06	0.05
30W	3.67	3.32	3.01	2.74	2.49	2.25	1.93	1.60	1.28	1.02	0.79	0.60	0.46	0.34	0.24	0.17	0.11	0.07	0.05
35W	3.92	3.58	3.29	3.01	2.71	2.41	2.01	1.63	1.28	1.01	0.80	0.61	0.46	0.34	0.25	0.18	0.10	0.07	0.05
40W	4.16	3.81	3.32	3.13	2.86	2.57	2.11	1.65	1.28	1.01	0.80	0.62	0.47	0.35	0.25	0.18	0.13	0.07	0.05
45W	4.09	4.11	3.71	3.42	2.69	2.63	2.18	1.66	1.29	1.02	0.82	0.64	0.49	0.36	0.26	0.18	0.12	0.07	0.05
50W	3.87	4.39	3.51	3.31	2.90	2.34	2.02	1.64	1.29	1.03	0.84	0.68	0.52	0.37	0.26	0.18	0.12	0.07	0.05
55W	3.71	4.17	3.40	3.37	2.86	2.36	1.88	1.54	1.27	1.03	0.86	0.72	0.56	0.39	0.25	0.17	0.12	0.08	0.05
60W	4.05	4.06	3.45	3.35	2.76	2.17	1.74	1.49	1.20	0.99	0.88	0.77	0.60	0.41	0.25	0.17	0.13	0.08	0.05
65W	4.01	3.96	3.27	2.74	1.99	1.58	1.42	1.31	1.12	0.95	0.90	0.87	0.67	0.43	0.24	0.16	0.12	0.08	0.05
70W	4.09	3.78	2.90	1.92	1.53	1.34	1.31	1.27	1.04	0.93	0.90	0.88	0.70	0.46	0.25	0.16	0.12	0.08	0.05
75W	3.80	3.50	2.44	1.5	1.45	1.33	1.29	1.29	1.26	1.15	1.01	0.92	0.71	0.47	0.26	0.17	0.12	0.08	0.05
80W	4.19	3.23	2.40	1.80	1.61	1.48	1.36	1.31	1.26	0.94	1.02	0.88	0.70	0.47	0.27	0.17	0.13	0.08	0.05
85W	3.94	3.14	2.40	1.91	1.70	1.60	1.45	1.35	1.25	0.92	1.00	0.86	0.69	0.47	0.28	0.17	0.13	0.08	0.05
90W	3.61	2.97	2.42	2.01	1.76	1.70	1.54	1.40	1.26	1.13	0.99	0.85	0.68	0.47	0.29	0.17	0.13	0.08	0.05
95W	3.49	2.90	2.46	2.15	1.77	1.77	1.60	1.44	1.27	1.13	0.99	0.84	0.68	0.47	0.29	0.17	0.13	0.08	0.05
100W	3.48	2.88	2.49	2.22	1.86	1.83	1.65	1.47	1.28	1.13	0.98	0.84	0.67	0.47	0.30	0.18	0.13	0.08	0.05
105W	3.42	2.90	2.55	2.31	1.90	1.90	1.70	1.49	1.29	1.14	0.99	0.84	0.67	0.46	0.30	0.18	0.13	0.08	0.05
110W	3.42	2.91	2.59	2.39	1.93	1.96	1.74	1.51	1.30	1.14	0.98	0.83	0.66	0.46	0.29	0.18	0.13	0.08	0.05
115W	3.39	2.92	2.63	2.42	1.96	2.04	1.79	1.54	1.31	1.13	0.98	0.83	0.65	0.46	0.29	0.18	0.13	0.08	0.05
120W	3.39	2.95	2.70	2.49	1.97	2.09	1.82	1.55	1.32	1.14	0.98	0.82	0.65	0.45	0.29	0.18	0.13	0.08	0.05
125W	3.41	3.03	2.91	2.63	1.97	2.13	1.83	1.55	1.32	1.14	0.98	0.83	0.64	0.45	0.29	0.18	0.13	0.08	0.05
130W	3.45	3.12	2.94	2.74	1.96	2.18	1.85	1.56	1.32	1.13	0.98	0.82	0.64	0.45	0.29	0.18	0.13	0.08	0.05
135W	3.67	3.22	3.07	2.86	1.97	2.19	1.85	1.55	1.31	1.13	0.98	0.82	0.64	0.45	0.29	0.19	0.13	0.08	0.05
140W	3.69	3.29	3.26	2.98	1.95	2.19	1.84	1.54	1.30	1.12	0.97	0.82	0.63	0.44	0.29	0.19	0.13	0.08	0.05
145W	3.51	3.34	3.34	3.07	1.96	2.19	1.83	1.53	1.29	1.13	0.98	0.82	0.63	0.44	0.29	0.19	0.13	0.08	0.05
150W	3.52	3.39	3.43	3.16	1.95	2.20	1.82	1.52	1.29	1.11	0.97	0.82	0.63	0.43	0.28	0.19	0.13	0.08	0.05
155W	3.52	3.48	3.52	3.23	1.98	2.21	1.82	1.52	1.28	1.11	0.97	0.82	0.63	0.43	0.28	0.19	0.12	0.08	0.05
160W	3.54	3.61	3.62	3.30	2.01	2.23	1.83	1.52	1.28	1.12	0.98	0.83	0.62	0.43	0.27	0.18	0.12	0.08	0.05
165W	3.59	3.75	3.71	3.38	2.06	2.27	1.83	1.52	1.28	1.12	0.98	0.83	0.62	0.42	0.27	0.18	0.12	0.07	0.05
170W	3.73	3.90	3.83	3.47	2.11	2.28	1.83	1.51	1.28	1.12	0.99	0.83	0.62	0.41	0.26	0.17	0.12	0.07	0.05
175W	3.98	4.12	3.97	3.57	2.15	2.29	1.82	1.50	1.28	1.11	0.99	0.83	0.62	0.41	0.25	0.17	0.11	0.07	0.05
180W	4.13	4.38	4.13	3.63	2.15	2.27	1.80	1.47	1.25	1.10	0.98	0.84	0.62	0.40	0.24	0.16	0.11	0.07	0.05
-175E	4.60	4.58	4.18	3.61	2.13	2.21	1.77	1.43	1.18	1.09	0.99	0.84	0.61	0.39	0.22	0.15	0.10	0.06	0.05
-170E	4.83	4.70	4.24	3.47	2.09	2.13	1.73	1.44	1.20	1.02	0.99	0.84	0.60	0.38	0.20	0.14	0.10	0.06	0.05
-165E	4.94	4.73	4.15	3.25	1.94	2.03	1.70	1.47	1.23	1.06	0.97	0.83	0.59	0.36	0.18	0.12	0.09	0.06	0.05
-160E	4.99	4.71	4.03	3.13	1.94	1.97	1.68	1.48	1.27	1.07	0.95	0.82	0.58	0.34	0.16	0.00	0.00	0.00	0.00
-155E	4.08	4.63	3.97	3.09	1.98	1.87	1.55	1.44	1.28	1.06	0.94	0.80	0.56	0.32	0.14	0.00	0.00	0.00	0.00
-150E	4.05	4.59	3.81	2.90	1.88	1.37	1.19	1.13	1.23	1.05	0.93	0.78	0.53	0.29	0.00	0.00	0.00	0.00	0.00
-145E	4.08	4.35	3.54	2.48	1.52	1.08	1.10	1.09	1.16	1.03	0.91	0.75	0.51	0.27	0.00	0.00	0.00	0.00	0.00
-140E	4.78	4.11	3.26	2.16	1.40	1.08	1.02	1.12	1.17	1.03	0.91	0.74	0.49	0.26	0.00	0.00	0.00	0.00	0.00
-135E	4.66	4.04	3.09	1.80	1.28	1.06	1.03	1.20	1.20	1.05	0.90	0.72	0.48	0.25	0.00	0.00	0.00	0.00	0.00
-130E	4.59	3.91	3.04	1.85	1.24	1.06	1.05	1.27	1.22	1.06	0.90	0.71	0.47	0.25	0.00	0.00	0.00	0.00	0.00
-125E	4.42	3.87	3.03	1.98	1.30	1.07	1.16	1.34	1.24	1.06	0.89	0.70	0.47	0.26	0.00	0.00	0.00	0.00	0.00
-120E	4.74	3.81	3.16	2.49	1.53	1.12	1.19	1.29	1.24	1.05	0.88	0.70	0.48	0.24	0.00	0.00	0.00	0.00	0.00
-115E	4.31	3.89	3.34	2.67	1.76	1.42	1.41	1.40	1.28	1.05	0.88	0.69	0.46	0.26	0.00	0.00	0.00	0.00	0.00
-110E	4.28	3.93	3.51	2.85	2.12	1.80	1.45	1.47	1.22	1.02	0.86	0.68	0.48	0.27	0.00	0.00	0.00	0.00	0.00
-105E	4.27	3.98	3.75	3.01	2.38	1.96	1.66	1.41	1.20	1.00	0.85	0.67	0.48	0.28	0.00	0.00	0.00	0.00	0.00
-100E	4.31	4.15	3.85	3.12	2.45	1.97	1.64	1.38	1.17	0.99	0.83	0.67	0.48	0.28	0.00	0.00	0.00	0.00	0.00
-95E	4.38	4.23	3.86	3.18	2.87	1.96	1.62	1.37	1.15	0.95	0.82	0.67	0.49	0.29	0.00	0.00	0.00	0.00	0.00
-90E	4.43	4.28	3.87	3.18	2.86	1.95	1.60	1.36	1.14	0.97	0.82	0.66	0.48	0.30	0.00	0.00	0.00	0.00	0.00
-85E	4.46	4.25	3.85	3.15	2.85	1.94	1.60	1.35	1.14	0.96	0.81	0.66	0.48	0.30	0.00	0.00	0.00	0.00	0.00
-80E	4.45	4.22	3.83	3.13	2.84	1.95	1.60	1.35	1.14	0.96	0.80	0.65	0.48	0.30	0.00	0.00	0.00	0.00	0.00
-75E	4.42	4.20	3.80	3.11	2.83	1.95	1.60	1.36	1.14	0.95	0.80	0.64	0.46	0.29	0.00	0.00	0.00	0.00	0.00
-70E	4.39	4.18	3.78	3.10	2.82	1.96	1.62	1.37	1.15	0.95	0.80	0.63	0.45	0.28	0.00	0.00	0.00	0.00	0.00
-65E	4.35	4.16	3.77	3.12	2.81	1.97	1.64	1.38	1.16	0.96	0.80	0.63	0.44	0.27	0.00	0.00	0.00	0.00	0.00
-60E	4.33	4.12	3.76	3.14	2.82	2.01	1.68	1.41	1.18	0.96	0.80	0.62	0.43	0.26	0.00	0.00	0.00	0.00	0.00
-55E	4.34	4.07	3.70	3.16	2.89	2.06	1.71	1.43	1.20	0.97	0.80	0.62	0.43	0.26	0.00	0.00	0.00	0.00	0.00
-50E	4.33	4.01	3.54	2.94	2.62	2.14	1.75	1.45	1.22	0.98	0.81	0.63	0.44	0.27	0.00	0.00	0.00	0.00	0.00
-45E	4.34	3.95	3.44	3.03	2.34	2.13	1.79	1.49	1.24	0.99	0.81	0.63	0.44	0.28	0.00	0.00	0.00	0.00	0.00
-40E	4.18	3.68	3.13	2.67	2.54	2.16	1.81	1.50	1.25	1.00	0.81	0.63	0.45	0.29	0.14	0.00	0.00	0.00	0.00
-35E	3.87	3.08	2.50	2.18	2.34	2.09	1.82	1.53	1.27	1.01	0.82								

TABLE 30 TOTAL PRECIPITABLE WATER VALUES (CM)-UCTO-ER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	4.41	3.79	3.11	2.56	2.17	1.91	1.71	1.55	1.35	1.08	0.88	0.73	0.57	0.40	0.23	0.00	0.00	0.00	0.06
5N	4.18	3.44	2.83	2.41	2.14	1.93	1.74	1.56	1.34	1.08	0.89	0.74	0.58	0.41	0.24	0.14	0.10	0.07	0.06
10N	4.00	3.15	2.65	2.34	2.13	1.95	1.77	1.58	1.34	1.09	0.89	0.74	0.59	0.43	0.28	0.16	0.11	0.07	0.06
15N	3.87	3.07	2.56	2.31	2.15	1.99	1.80	1.59	1.34	1.07	0.90	0.75	0.61	0.45	0.31	0.18	0.00	0.08	0.06
20N	3.74	3.02	2.58	2.36	2.20	2.05	1.85	1.61	1.34	1.10	0.90	0.76	0.62	0.47	0.33	0.21	0.13	0.08	0.06
25N	3.64	3.00	2.69	2.46	2.31	2.13	1.90	1.64	1.36	1.01	0.90	0.76	0.64	0.49	0.36	0.24	0.14	0.09	0.06
30N	3.58	3.07	2.79	2.66	2.50	2.29	2.00	1.69	1.38	1.11	0.91	0.77	0.65	0.50	0.38	0.26	0.16	0.09	0.06
35N	3.53	3.00	2.90	2.93	2.82	2.52	2.44	1.74	1.40	1.12	0.90	0.78	0.66	0.52	0.39	0.28	0.17	0.09	0.06
40N	3.52	2.98	2.77	3.04	3.22	2.84	2.29	1.81	1.42	1.14	0.93	0.80	0.68	0.53	0.41	0.29	0.18	0.10	0.06
45N	3.59	3.35	3.43	3.61	3.29	3.06	2.42	1.85	1.44	1.15	0.94	0.82	0.70	0.54	0.42	0.30	0.19	0.10	0.06
50N	3.80	3.92	3.86	3.82	3.67	2.93	2.41	1.85	1.45	1.16	0.96	0.84	0.72	0.56	0.42	0.30	0.19	0.10	0.06
55N	4.00	4.21	4.12	4.14	3.72	3.03	2.54	1.82	1.45	1.18	0.97	0.87	0.75	0.57	0.42	0.30	0.19	0.10	0.06
60N	4.00	4.37	4.39	4.31	3.71	2.95	2.30	1.85	1.47	1.20	1.03	0.91	0.79	0.60	0.41	0.29	0.19	0.10	0.06
65N	4.15	4.48	4.55	3.68	2.83	2.20	1.92	1.63	1.34	1.13	1.05	0.96	0.82	0.63	0.41	0.28	0.18	0.11	0.06
70N	4.12	4.49	4.25	3.87	2.20	1.61	1.44	1.37	1.16	1.08	1.00	1.01	0.85	0.65	0.43	0.28	0.18	0.11	0.06
75N	3.81	4.13	3.35	2.34	1.87	1.52	1.35	1.33	1.32	1.22	1.11	1.04	0.85	0.65	0.45	0.28	0.18	0.11	0.06
80N	4.36	3.67	3.02	2.34	1.88	1.57	1.40	1.32	1.30	1.25	1.16	1.03	0.85	0.65	0.45	0.27	0.18	0.11	0.06
85N	4.51	3.57	2.77	2.24	2.08	1.65	1.02	1.41	1.31	1.24	1.14	1.01	0.84	0.65	0.45	0.28	0.17	0.11	0.06
90N	4.19	3.27	2.59	2.19	1.93	1.71	1.56	1.48	1.32	1.25	1.14	1.00	0.84	0.64	0.45	0.27	0.17	0.11	0.06
95N	3.91	3.06	2.50	2.18	1.91	1.77	1.23	1.51	1.34	1.25	1.13	1.00	0.83	0.63	0.44	0.27	0.17	0.11	0.06
100N	3.68	2.49	2.51	2.21	1.92	1.83	1.67	1.55	1.37	1.26	1.13	0.99	0.82	0.62	0.43	0.26	0.17	0.11	0.06
105N	3.57	2.97	2.54	2.26	1.94	1.88	1.71	1.57	1.39	1.11	1.14	0.99	0.81	0.61	0.43	0.26	0.17	0.11	0.06
110N	3.50	2.98	2.60	2.37	1.98	1.96	1.77	1.60	1.40	1.28	1.14	0.98	0.81	0.61	0.42	0.26	0.17	0.11	0.06
115N	3.45	2.97	2.63	2.43	2.03	2.05	1.81	1.63	1.40	1.01	1.14	0.98	0.79	0.60	0.42	0.26	0.17	0.11	0.06
120N	3.45	2.99	2.69	2.52	2.03	2.13	1.85	1.66	1.48	1.30	1.14	0.99	0.79	0.59	0.42	0.26	0.18	0.11	0.06
125N	3.45	3.04	2.80	2.64	2.02	2.22	1.90	1.67	1.50	1.31	1.15	0.99	0.79	0.59	0.42	0.26	0.18	0.11	0.06
130N	3.47	3.13	2.95	2.81	2.05	2.29	1.94	1.69	1.51	1.31	1.15	0.99	0.79	0.59	0.41	0.26	0.18	0.11	0.06
135N	3.48	3.23	3.12	3.00	2.05	2.36	1.98	1.71	1.51	1.32	1.16	0.99	0.78	0.58	0.41	0.27	0.19	0.12	0.06
140N	3.47	3.29	3.26	3.21	2.06	2.43	2.00	1.72	1.52	1.31	1.16	0.99	0.78	0.58	0.41	0.28	0.20	0.12	0.06
145N	3.45	3.32	3.36	3.35	2.09	2.48	2.01	1.76	1.52	1.33	1.16	0.99	0.78	0.58	0.40	0.28	0.20	0.12	0.06
150N	3.42	3.34	3.47	3.44	2.11	2.50	2.01	1.77	1.53	1.34	1.16	0.98	0.78	0.58	0.40	0.28	0.20	0.12	0.06
155N	3.41	3.35	3.58	3.49	2.14	2.52	2.00	1.77	1.52	1.34	1.16	0.99	0.77	0.57	0.40	0.28	0.20	0.12	0.06
160N	3.41	3.42	3.68	3.53	2.16	2.52	2.00	1.76	1.52	1.34	1.17	0.99	0.77	0.57	0.39	0.27	0.20	0.11	0.06
165N	3.47	3.55	3.75	3.60	2.18	2.52	1.99	1.75	1.52	1.35	1.17	0.98	0.77	0.56	0.38	0.27	0.20	0.11	0.06
170N	3.56	3.69	3.85	3.70	2.19	2.50	1.97	1.74	1.52	1.35	1.17	0.99	0.77	0.55	0.36	0.25	0.19	0.11	0.06
175N	3.65	3.83	3.99	3.82	2.20	2.47	1.92	1.72	1.51	1.34	1.18	1.02	0.77	0.54	0.34	0.23	0.18	0.11	0.06
180N	3.75	4.02	4.12	3.86	2.17	2.39	1.87	1.70	1.49	1.34	1.18	0.99	0.77	0.52	0.31	0.22	0.18	0.10	0.06
-175E	3.99	4.25	4.24	3.82	2.14	2.31	1.86	1.61	1.41	1.32	1.19	0.99	0.75	0.50	0.29	0.20	0.16	0.09	0.06
-170E	4.43	4.50	4.27	3.68	2.10	2.40	1.87	1.65	1.43	1.31	1.18	0.98	0.74	0.48	0.28	0.17	0.15	0.09	0.06
-165E	4.80	4.70	4.24	3.51	2.08	2.25	1.94	1.73	1.50	1.00	1.16	0.97	0.72	0.46	0.24	0.16	0.13	0.08	0.06
-160E	4.97	4.74	4.12	3.38	2.10	2.30	2.05	1.81	1.55	1.31	1.14	0.94	0.70	0.44	0.20	0.00	0.12	0.00	0.00
-155E	4.93	4.67	4.02	3.34	2.18	2.31	2.01	1.81	1.57	1.29	1.10	0.91	0.68	0.42	0.18	0.00	0.00	0.00	0.00
-150E	4.85	4.50	3.93	3.16	2.13	1.89	1.64	1.59	1.53	1.26	1.06	0.88	0.64	0.41	0.00	0.00	0.00	0.00	0.00
-145E	4.83	4.26	3.70	2.98	2.21	1.66	1.51	1.42	1.41	1.21	1.03	0.85	0.64	0.39	0.00	0.00	0.00	0.00	0.00
-140E	4.78	4.17	3.68	3.00	2.04	1.53	1.30	1.43	1.34	1.15	0.99	0.81	0.61	0.37	0.00	0.00	0.00	0.00	0.00
-135E	4.71	4.27	3.73	2.70	1.87	1.48	1.34	1.43	1.30	1.11	0.92	0.77	0.59	0.35	0.00	0.00	0.00	0.00	0.00
-130E	4.57	4.26	3.84	2.87	1.78	1.43	1.30	1.44	1.28	1.09	0.92	0.74	0.57	0.34	0.00	0.00	0.00	0.00	0.00
-125E	4.41	4.14	3.63	3.11	1.76	1.32	1.30	1.44	1.27	1.07	0.92	0.73	0.55	0.30	0.00	0.00	0.00	0.00	0.00
-120E	4.35	4.09	3.66	3.01	1.90	1.22	1.35	1.42	1.26	1.04	0.86	0.69	0.54	0.34	0.00	0.00	0.00	0.00	0.00
-115E	4.42	4.02	3.62	2.90	2.03	1.42	1.46	1.43	1.24	1.02	0.83	0.68	0.54	0.34	0.00	0.00	0.00	0.00	0.00
-110E	4.48	3.97	3.56	2.85	2.11	1.70	1.58	1.45	1.23	1.00	0.81	0.67	0.53	0.34	0.00	0.00	0.00	0.00	0.00
-105E	4.52	3.92	3.55	2.86	2.21	1.84	1.63	1.45	1.21	0.99	0.80	0.67	0.53	0.34	0.00	0.00	0.00	0.00	0.00
-100E	4.49	3.97	3.49	2.85	2.28	1.90	1.66	1.44	1.21	0.98	0.80	0.66	0.52	0.33	0.00	0.00	0.00	0.00	0.00
-95E	4.47	3.97	3.47	2.83	2.31	1.94	1.68	1.45	1.21	0.98	0.80	0.66	0.52	0.33	0.00	0.00	0.00	0.00	0.00
-90E	4.49	3.97	3.47	2.85	2.34	1.97	1.69	1.45	1.21	0.98	0.80	0.66	0.52	0.33	0.00	0.00	0.00	0.00	0.00
-85E	4.51	4.02	3.48	2.86	2.37	2.00	1.71	1.46	1.22	0.98	0.80	0.67	0.53	0.34	0.00	0.00	0.00	0.00	0.00
-80E	4.54	4.09	3.54	2.90	2.40	2.03	1.73	1.47	1.23	0.98	0.80	0.67	0.53	0.34	0.00	0.00	0.00	0.00	0.00
-75E	4.49	4.12	3.58	2.93	2.43	2.07	1.77	1.50	1.24	1.00	0.80	0.67	0.53	0.34	0.00	0.00	0.00	0.00	0.00
-70E	4.38	4.08	3.58	2.97	2.48	2.13	1.81	1.52	1.26	0.99	0.80	0.67	0.52	0.33	0.00	0.00	0.00	0.00	0.00
-65E	4.27	4.00	3.56	3.02	2.53	2.18	1.86	1.55	1.28	1.00	0.81	0.67	0.51	0.31	0.00	0.00	0.00	0.00	0.00
-60E	4.19	3.94	3.58	3.10	2.62	2.28	1.92	1.58	1.29	1.01	0.81	0.67	0.51	0.30	0.00	0.00	0.00	0.00	0.00
-55E	4.15	3.95	3.62	3.25	2.43	2.41	2.02	1.65	1.30	1.02	0.82	0.68	0.51	0.30	0.00	0.00	0.00	0.00	0.00
-50E	4.12	3.87	3.61	3.23	3.08	2.62	2.14	1.69	1.32	1.03	0.83	0.68	0.52	0.31	0.00	0.00	0.00	0.00	0.00
-45E	4.08	3.85	3.72	3.67	3.17	2.76	2.29	1.76	1.34	1.03	0.83	0.68	0.53	0.34	0.00	0.00	0.00	0.00	0.00
-40E	3.99	3.84	3.62	3.38	3.51	3.02	2.43	1.82	1.36	1.04	0.84	0.69	0.53	0.36	0.18	0.00	0.00	0.00	0.00
-35E	3.69	3.41	3.10	3.12	3.51	3.17	2.58	1.90	1.40	1.05	0.84	0.69	0						

TABLE 4A VALUES OF Δ - JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	4.04	3.95	4.01	4.16	4.19	4.52	4.49	4.46	4.08	3.50	3.03	2.78	2.69	2.70	2.84	0.00	0.00	0.00	0.44
5W	4.23	4.19	4.25	4.25	4.34	4.45	4.46	4.35	4.02	3.44	2.98	2.74	2.65	2.66	2.78	0.00	0.31	0.63	0.44
10W	4.43	4.31	4.30	4.27	4.40	4.40	4.49	4.27	4.00	3.38	2.94	2.71	2.62	2.62	2.75	0.62	0.48	0.61	0.44
15W	4.43	4.31	4.29	4.35	4.55	4.60	4.45	4.31	3.94	3.38	2.91	2.71	2.65	2.60	2.70	1.16	0.00	0.71	0.44
20W	4.21	4.34	4.40	4.55	4.73	4.67	4.44	4.19	3.86	3.36	2.88	2.69	2.62	2.57	2.70	2.15	0.96	0.80	0.44
25W	3.91	4.43	4.60	4.71	4.80	4.68	4.35	4.09	3.76	3.36	2.87	2.73	2.62	2.55	2.68	2.83	1.19	0.80	0.44
30W	3.75	4.38	4.69	4.80	4.82	4.60	4.22	3.97	3.69	3.34	2.94	2.74	2.61	2.53	2.65	2.85	1.44	0.50	0.44
35W	3.64	4.01	4.41	4.75	4.76	4.55	4.11	3.88	3.65	3.37	3.03	2.74	2.64	2.51	2.60	2.85	1.55	0.89	0.44
40W	3.47	3.09	2.67	3.95	4.15	4.25	3.96	3.84	3.68	3.43	3.10	2.80	2.67	2.51	2.57	2.81	1.83	0.88	0.44
45W	3.50	3.39	3.54	3.32	2.61	3.90	3.81	3.84	3.74	3.51	3.19	2.89	2.69	2.54	2.54	2.75	1.81	0.99	0.44
50W	3.52	3.74	2.96	2.61	2.88	2.48	3.77	3.92	3.89	3.62	3.31	2.99	2.77	2.71	2.52	2.69	1.79	0.99	0.44
55W	3.44	3.52	2.44	2.46	2.54	3.23	3.56	3.80	3.95	3.89	3.44	3.11	2.90	2.91	2.53	2.59	1.42	0.98	0.44
60W	3.45	3.78	2.78	2.69	3.55	3.30	3.11	3.56	3.82	3.96	3.55	3.18	3.03	3.04	2.54	1.44	1.45	0.86	0.44
65W	3.69	3.18	2.88	2.97	1.90	1.84	3.73	3.62	3.68	3.18	3.30	3.11	3.08	3.13	2.70	0.70	1.30	0.85	0.44
70W	3.43	3.17	3.02	2.38	3.11	3.32	3.55	3.61	2.80	2.58	2.72	2.92	3.08	3.24	2.89	0.80	1.15	0.56	0.44
75W	1.82	3.09	2.47	3.22	4.40	5.24	4.60	4.43	4.26	3.68	3.16	2.92	3.14	3.29	2.89	1.01	1.01	0.84	0.44
80W	2.57	2.89	3.09	3.77	4.16	4.58	4.51	4.40	4.10	3.77	3.47	3.23	3.23	3.34	3.08	1.00	0.89	0.83	0.44
85W	3.36	3.38	3.62	3.96	4.26	4.35	4.67	4.01	3.99	3.74	3.54	3.33	3.10	3.34	3.16	0.98	0.87	0.83	0.44
90W	3.47	3.65	3.87	4.03	5.72	4.17	4.12	4.04	3.95	3.77	3.54	3.36	3.12	3.32	3.15	1.09	0.86	0.82	0.44
95W	3.70	3.79	3.96	4.09	5.73	4.08	4.05	3.98	3.90	3.74	3.53	3.39	3.30	3.32	3.11	1.00	0.85	0.82	0.44
100W	3.71	3.82	4.04	4.12	5.83	4.10	4.06	3.97	3.86	3.74	3.53	3.36	3.27	3.32	3.10	1.06	0.84	0.83	0.44
105W	3.79	3.84	4.03	4.08	5.95	4.21	4.09	4.04	3.91	3.71	3.54	3.37	3.27	3.31	3.08	0.93	0.94	0.93	0.44
110W	3.94	3.91	3.99	4.08	6.08	4.25	4.26	4.10	3.91	3.74	3.54	3.38	3.30	3.27	3.04	1.03	1.06	1.05	0.44
115W	4.13	3.93	4.02	4.15	6.25	4.29	4.33	4.18	3.95	3.76	3.55	3.39	3.26	3.23	2.99	1.16	1.19	1.05	0.44
120W	4.22	3.94	4.07	4.19	6.37	4.39	4.33	4.21	4.01	3.73	3.56	3.40	3.26	3.23	2.97	1.29	1.45	1.18	0.44
125W	4.23	4.07	4.10	4.19	6.40	4.45	4.37	4.23	4.02	3.74	3.55	3.34	3.25	3.19	2.99	1.41	1.40	1.19	0.44
130W	4.20	4.09	4.11	4.19	6.50	4.41	4.36	4.22	4.05	3.77	3.56	3.35	3.22	3.18	2.98	1.56	1.61	1.19	0.44
135W	4.22	4.02	4.18	4.27	6.51	4.36	4.31	4.23	4.07	3.78	3.56	3.35	3.23	3.18	3.01	2.03	1.77	1.34	0.44
140W	4.23	3.92	4.16	4.22	6.57	4.28	4.31	4.19	4.07	3.81	3.57	3.36	3.26	3.15	3.02	2.49	1.95	1.48	0.44
145W	4.20	3.84	3.05	4.08	6.48	4.21	4.22	4.17	4.06	3.85	3.59	3.36	3.21	3.14	3.06	2.64	2.14	1.50	0.44
150W	4.12	3.77	3.79	3.71	5.67	4.16	4.21	4.19	4.06	3.87	3.61	3.36	3.25	3.15	3.10	2.80	2.35	1.51	0.44
155W	4.00	3.69	3.83	3.87	6.29	4.10	4.18	4.18	4.09	3.86	3.62	3.42	3.25	3.18	3.15	2.99	2.19	1.68	0.44
160W	4.22	3.93	3.83	3.72	6.20	4.04	4.14	4.13	3.91	3.68	3.45	3.10	3.22	3.28	3.17	2.63	1.71	1.44	0.44
165W	4.26	4.03	3.77	3.59	6.11	3.91	4.09	4.21	4.11	3.92	3.73	3.51	3.35	3.29	3.42	3.36	2.87	1.73	0.44
170W	4.07	3.98	3.70	3.50	6.03	3.82	4.05	4.20	4.12	3.97	3.72	3.56	3.43	3.37	3.58	3.59	3.14	1.75	0.44
175W	4.11	3.97	3.69	3.54	5.91	3.69	3.95	4.12	4.17	3.94	3.76	3.61	3.50	3.50	3.74	3.74	5.45	1.77	0.44
180W	3.96	3.85	3.64	3.50	5.81	3.67	3.83	4.22	4.14	3.94	3.78	3.64	3.53	3.63	3.84	3.92	3.40	1.80	0.44
175E	3.84	3.72	3.51	3.27	5.77	3.78	3.88	3.73	3.53	3.82	3.77	3.64	3.59	3.70	4.02	4.04	3.74	1.66	0.44
170E	3.78	3.62	3.40	3.28	5.44	3.92	4.24	3.79	3.40	3.12	3.72	3.65	3.60	3.82	4.13	4.08	3.88	1.54	0.44
165E	3.80	3.53	3.29	3.36	6.04	4.18	4.28	4.01	3.49	3.22	3.58	3.66	3.43	3.88	3.83	3.82	3.88	1.71	0.44
160E	3.76	3.46	3.11	3.67	6.17	4.29	4.35	4.27	3.63	3.05	3.24	3.56	3.68	3.98	3.34	0.00	0.00	0.00	0.44
155E	3.72	3.47	3.66	3.93	6.08	4.13	4.26	4.31	3.74	3.05	3.07	3.41	3.72	4.00	2.76	0.00	0.00	0.00	0.44
150E	3.67	3.74	3.74	3.94	5.84	4.07	4.09	3.64	3.88	3.11	3.08	3.28	3.59	3.92	0.00	0.00	0.00	0.00	0.44
145E	3.53	3.09	3.46	3.54	4.85	2.49	2.86	3.04	3.62	3.28	3.12	3.24	3.55	3.73	0.00	0.00	0.00	0.00	0.44
140E	3.51	2.96	3.45	3.60	3.12	2.09	2.80	3.29	3.69	3.31	3.14	3.17	3.45	3.62	0.00	0.00	0.00	0.00	0.44
135E	3.62	3.56	3.75	3.46	2.19	2.09	2.66	4.10	3.66	3.30	3.13	3.18	3.34	3.53	0.00	0.00	0.00	0.00	0.44
130E	3.66	3.48	3.70	3.58	2.13	1.96	2.72	4.16	3.79	3.39	3.17	3.20	3.32	3.42	0.00	0.00	0.00	0.00	0.44
125E	3.61	3.34	3.51	4.08	2.49	1.70	2.86	4.09	4.02	3.50	3.21	3.12	3.23	3.38	0.00	0.00	0.00	0.00	0.44
120E	3.45	3.27	3.53	4.18	4.05	1.61	2.81	4.10	4.14	3.69	3.29	3.17	3.23	3.34	0.00	0.00	0.00	0.00	0.44
115E	3.40	3.36	3.75	3.58	3.87	1.60	3.88	4.41	4.22	3.81	3.39	3.17	3.21	3.33	0.00	0.00	0.00	0.00	0.44
110E	3.51	3.39	3.88	3.99	4.07	4.29	4.23	4.48	4.27	3.90	3.42	3.24	3.22	3.29	0.00	0.00	0.00	0.00	0.44
105E	3.52	3.23	4.01	3.88	4.28	4.48	4.15	4.48	4.26	3.94	3.46	3.27	3.23	3.28	0.00	0.00	0.00	0.00	0.44
100E	3.28	3.45	3.89	4.09	4.35	4.52	4.53	4.46	4.27	3.95	3.48	3.31	3.24	3.28	0.00	0.00	0.00	0.00	0.44
95E	3.29	3.55	3.86	4.08	4.30	4.44	4.45	4.41	4.26	3.93	3.50	3.30	3.25	3.28	0.00	0.00	0.00	0.00	0.44
90E	3.36	3.54	3.83	4.07	4.31	4.37	4.42	4.36	4.29	3.98	3.53	3.31	3.27	3.33	0.00	0.00	0.00	0.00	0.44
85E	3.54	3.61	3.40	4.02	4.22	4.36	4.41	4.38	4.32	3.98	3.53	3.32	3.28	3.45	0.00	0.00	0.00	0.00	0.44
80E	3.47	3.54	3.73	4.02	4.20	4.37	4.43	4.46	4.34	3.95	3.52	3.29	3.10	3.51	0.00	0.00	0.00	0.00	0.44
75E	3.50	3.51	3.71	3.94	4.18	4.38	4.44	4.46	4.32	3.95	3.43	3.27	3.12	3.58	0.00	0.00	0.00	0.00	0.44
70E	3.53	3.50	3.67	3.90	4.15	4.37	4.45	4.48	4.34	3.91	3.40	3.24	3.12	3.55	0.00	0.00	0.00	0.00	0.44
65E	3.53	3.48	3.69	3.98	4.02	4.30	4.41	4.39	4.24	3.88	3.31	3.22	3.26	3.48	0.00	0.00	0.00	0.00	0.44
60E	3.51	3.49	3.68	3.99	3.89	4.16	4.30	4.35	4.20	3.80	3.26	3.18	3.19	3.35	0.00	0.00	0.00	0.00	0.44
55E	3.55	3.49	3.67	3.82	3.82	4.21	4.20	4.24	4.11	3.76	3.20	3.13	3.13	3.22	0.00	0.00	0.00	0.00	0.44
50E	3.81	3.58	3.53	3.11	3.83	3.90	4.14	4.14	4.08	3.95	3.15	3.07	3.02	3.10	0.00	0.00	0.00	0.00	0.44
45E	3.90	3.63	3.43	3.57	3.41	3.86	4.06	4.06	4.02	3.64	3.09	2.98	2.96	3.08	0.00	0.00	0.00	0.00	0.44
40E	3.19	3.71	3.37	2.84	3.60	3.80	3.94	3.97	4.00	3.63	3.08	2.96	2.93	3.08	0.00	0.00	0.00	0.00	0.44
35E	0.74	2.14	2.02	2.29	3.16	3.40	3.76	3.89	3.98	3.68	3.08								

TABLE 4B VALUES OF λ -APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	3.05	3.59	3.77	3.81	4.07	4.55	4.69	4.58	4.22	3.71	3.29	3.03	3.04	3.49	1.79	0.00	0.00	0.00	-0.26
5N	3.75	3.87	4.04	4.11	4.18	4.47	4.57	4.50	4.19	3.71	3.29	3.05	3.13	3.41	1.66	-0.12	-0.36	-0.20	-0.26
10N	4.05	4.02	4.12	4.22	4.26	4.43	4.55	4.43	4.04	3.72	3.33	3.05	3.04	3.31	1.79	0.35	-0.23	-0.18	-0.26
15N	4.19	4.08	4.18	4.31	4.41	4.48	4.51	4.20	4.16	3.74	3.36	3.04	3.04	3.14	2.09	0.48	0.00	-0.16	-0.26
20N	4.17	4.03	4.26	4.49	4.58	4.54	4.43	4.41	4.11	3.73	3.39	3.05	2.99	2.93	2.24	1.10	-0.03	-0.20	-0.26
25N	4.00	4.01	4.33	4.68	4.74	4.58	4.43	4.30	4.00	3.79	3.46	3.09	2.96	2.74	2.07	1.34	0.43	-0.18	-0.26
30N	3.71	3.84	4.36	4.75	4.79	4.69	4.33	4.26	4.07	3.84	3.40	3.14	2.93	2.56	2.11	1.63	0.53	-0.16	-0.26
35N	3.26	3.53	4.12	4.68	4.83	4.60	4.36	4.19	4.01	3.86	3.53	3.11	2.78	2.46	2.02	1.52	0.55	-0.14	-0.26
40N	3.17	3.05	2.63	4.07	4.38	4.35	4.26	4.14	4.01	3.87	3.58	3.16	2.81	2.24	1.95	1.45	0.50	-0.04	-0.26
45N	3.24	3.13	3.31	3.66	2.70	3.54	4.02	4.06	3.94	3.87	3.66	3.24	2.85	2.02	1.74	1.40	0.45	-0.00	-0.26
50N	3.29	3.34	3.04	2.60	2.40	2.79	3.53	4.04	3.98	3.88	3.69	3.31	2.86	1.96	1.70	1.23	0.42	-0.03	-0.26
55N	3.30	3.04	2.94	2.71	2.64	3.03	3.18	3.75	3.94	3.86	3.78	3.59	3.09	1.92	1.38	0.84	0.40	-0.06	-0.26
60N	3.21	3.19	2.72	2.84	2.95	2.76	2.99	3.69	3.78	3.74	3.77	3.62	3.22	2.40	0.86	0.52	0.29	-0.07	-0.26
65N	3.24	3.08	2.94	2.51	2.10	2.09	3.03	3.25	3.38	3.29	3.59	3.52	3.41	2.90	0.26	-0.17	0.19	-0.09	-0.26
70N	3.25	3.16	3.19	2.11	3.73	4.07	3.73	3.67	3.24	2.39	2.88	3.20	3.17	3.21	1.05	-0.17	0.11	-0.10	-0.26
75N	2.22	3.04	2.54	2.80	4.84	5.23	4.99	4.32	4.06	1.70	3.12	3.11	3.33	3.22	2.03	0.07	0.02	-0.12	-0.26
80N	2.52	2.68	3.01	3.84	4.73	5.05	4.90	4.46	4.08	1.73	3.54	3.35	3.35	3.23	2.53	0.38	-0.11	-0.13	-0.26
85N	3.03	3.37	3.63	4.21	4.68	4.87	4.77	4.45	4.13	1.83	3.60	3.23	3.40	3.23	2.68	0.56	-0.12	-0.14	-0.26
90N	3.02	3.64	4.00	4.39	5.50	4.81	4.37	4.41	4.14	1.79	3.69	3.49	3.40	3.18	2.85	0.65	-0.13	-0.15	-0.26
95N	3.16	4.13	4.20	4.47	5.71	4.70	4.54	4.37	4.10	3.83	3.69	3.51	3.41	3.17	2.84	0.64	-0.13	-0.16	-0.26
100N	3.30	4.00	4.26	4.53	5.87	4.64	4.50	4.35	4.09	3.85	3.68	3.52	3.39	3.19	2.83	0.64	-0.08	-0.16	-0.26
105N	3.41	3.79	4.14	4.49	5.93	4.64	4.47	4.30	4.08	3.95	3.71	3.51	3.43	3.29	2.48	0.63	0.03	-0.11	-0.26
110N	3.46	3.77	4.12	4.47	6.01	4.68	4.52	4.29	4.07	3.96	3.73	3.53	3.42	3.15	2.48	0.61	0.09	-0.12	-0.26
115N	3.55	3.78	4.19	4.40	6.12	4.67	4.53	4.33	4.15	3.96	3.74	3.51	3.39	3.15	2.82	0.50	0.23	-0.07	-0.26
120N	3.58	3.78	4.06	4.38	6.20	4.66	4.63	4.34	4.15	4.00	3.77	3.53	3.40	3.16	2.50	0.59	0.67	0.18	-0.26
125N	3.64	3.85	4.05	4.35	6.42	4.66	4.58	4.31	4.21	4.02	3.75	3.58	3.43	3.18	2.51	0.58	1.12	0.29	-0.26
130N	3.75	3.99	4.37	4.63	6.64	4.60	4.51	4.26	4.20	4.02	3.75	3.58	3.42	3.17	2.53	0.79	1.23	0.38	-0.26
135N	3.88	4.35	4.60	4.76	6.67	4.47	4.40	4.21	4.17	4.02	3.77	3.56	3.40	3.19	2.54	0.68	1.35	0.47	-0.26
140N	4.03	4.58	4.91	4.78	6.72	4.32	4.28	4.06	4.17	4.00	3.78	3.58	3.39	3.19	2.56	0.79	1.20	0.69	-0.26
145N	4.09	4.53	4.78	4.58	6.45	4.21	4.08	4.13	4.14	4.05	3.78	3.58	3.42	3.20	2.57	0.91	1.34	0.69	-0.26
150N	4.12	4.39	4.56	4.40	6.58	4.03	3.96	4.00	4.15	4.06	3.80	3.58	3.47	3.21	2.60	1.16	1.35	0.82	-0.26
155N	4.22	4.28	4.39	4.23	6.46	3.90	3.90	4.02	4.12	4.06	3.80	3.59	3.47	3.23	2.62	1.07	1.38	0.85	-0.26
160N	4.20	4.21	4.27	4.15	6.45	3.83	3.82	3.97	4.13	4.05	3.81	3.64	3.44	3.24	2.66	1.24	1.43	0.88	-0.26
165N	4.15	4.08	4.03	4.01	6.33	3.77	3.83	3.95	4.13	4.07	3.81	3.64	3.44	3.27	2.73	1.30	1.50	0.93	-0.26
170N	4.04	3.99	3.93	3.93	6.26	3.80	3.82	3.99	4.13	4.02	3.83	3.61	3.43	3.29	2.81	1.39	1.60	0.98	-0.26
175N	3.91	3.96	3.89	3.98	6.17	3.77	3.87	4.01	4.14	4.02	3.76	3.57	3.37	3.35	2.94	1.68	1.71	0.92	-0.26
180N	3.86	3.87	3.82	3.89	6.13	3.81	3.93	4.06	4.12	4.04	3.72	3.56	3.35	3.42	3.12	2.01	1.86	0.87	-0.26
175E	3.84	3.80	3.78	3.83	6.13	3.94	4.06	3.92	3.66	3.97	3.74	3.59	3.43	3.51	3.16	2.06	2.04	0.50	-0.26
170E	3.82	3.68	3.65	3.78	6.21	4.17	4.27	3.97	3.62	3.18	3.72	3.62	3.48	3.53	3.22	2.14	1.91	0.20	-0.26
165E	3.61	3.50	3.45	3.69	6.20	4.36	4.48	4.18	3.66	3.35	3.56	3.59	3.53	3.61	2.52	1.59	1.81	0.26	-0.26
160E	3.88	3.29	3.50	3.88	6.11	4.42	4.52	4.26	3.72	3.46	3.38	3.44	3.54	3.69	1.89	0.00	0.99	0.00	0.00
155E	3.35	3.25	3.74	4.35	6.43	4.45	4.32	4.35	4.01	4.47	3.33	3.36	3.54	3.62	1.45	0.00	0.00	0.00	0.00
150E	3.31	3.48	3.90	4.57	5.95	2.55	2.87	3.36	4.28	3.52	3.42	3.33	3.46	3.63	0.00	0.00	0.00	0.00	0.00
145E	3.31	2.68	4.12	3.98	4.66	2.27	3.07	3.39	4.30	3.61	3.40	3.39	3.49	3.69	0.00	0.00	0.00	0.00	0.00
140E	3.37	2.66	4.06	3.58	2.57	2.27	3.00	3.82	4.43	3.67	3.44	3.43	3.52	3.55	0.00	0.00	0.00	0.00	0.00
135E	3.41	3.64	3.99	2.78	1.89	2.21	2.93	4.73	4.44	1.73	3.50	3.37	3.41	3.58	0.00	0.00	0.00	0.00	0.00
130E	3.44	3.61	4.01	2.80	1.69	2.00	3.11	4.63	4.47	3.77	3.51	3.41	3.35	3.60	0.00	0.00	0.00	0.00	0.00
125E	3.31	3.47	3.58	3.54	2.19	1.81	3.09	4.46	4.60	4.00	3.55	3.36	3.37	3.22	3.00	0.00	0.00	0.00	0.00
120E	3.27	3.20	3.94	4.15	3.19	3.73	3.08	4.27	4.66	4.04	3.61	3.36	3.32	3.00	0.00	0.00	0.00	0.00	0.00
115E	3.31	3.26	3.67	4.04	3.60	1.87	3.87	4.89	4.60	4.08	3.53	3.36	3.28	2.95	0.00	0.00	0.00	0.00	0.00
110E	3.51	3.40	3.85	4.31	4.34	4.62	4.83	4.78	4.40	1.99	3.54	3.37	3.27	2.90	0.00	0.00	0.00	0.00	0.00
105E	3.55	3.18	4.07	4.44	4.53	4.76	4.87	4.69	4.27	3.80	3.45	3.32	3.15	2.85	0.00	0.00	0.00	0.00	0.00
100E	3.55	3.64	4.22	4.33	4.52	4.73	4.74	4.52	4.24	3.72	3.12	3.29	3.22	3.00	0.00	0.00	0.00	0.00	0.00
95E	3.50	3.74	4.23	4.22	4.53	4.62	4.69	4.49	4.18	1.65	3.26	3.27	3.19	2.97	0.00	0.00	0.00	0.00	0.00
90E	3.48	3.61	4.06	4.30	4.48	4.57	4.66	4.49	4.15	1.61	3.19	3.24	3.19	3.37	0.00	0.00	0.00	0.00	0.00
85E	3.45	3.63	3.96	4.33	4.50	4.59	4.65	4.50	4.16	3.53	3.14	3.22	3.21	1.43	0.00	0.00	0.00	0.00	0.00
80E	3.45	3.57	3.83	4.25	4.50	4.64	4.65	4.50	4.19	3.48	3.15	3.20	3.25	3.55	0.00	0.00	0.00	0.00	0.00
75E	3.53	3.52	3.69	4.14	4.41	4.57	4.62	4.56	4.22	3.45	3.09	3.18	3.29	1.68	0.00	0.00	0.00	0.00	0.00
70E	3.49	3.48	3.61	4.00	4.31	4.50	4.56	4.55	4.20	1.43	3.10	3.16	3.33	3.70	0.00	0.00	0.00	0.00	0.00
65E	3.37	3.39	3.47	3.93	4.19	4.35	4.49	4.54	4.21	1.47	3.07	3.16	3.32	3.61	0.00	0.00	0.00	0.00	0.00
60E	3.35	3.36	3.68	3.98	3.97	4.07	4.33	4.48	4.18	1.67	3.06	3.08	3.31	3.60	0.00	0.00	0.00	0.00	0.00
55E	3.44	3.21	3.46	3.88	3.45	1.92	4.29	4.43	4.17	1.45	3.07	3.08	3.25	3.58	0.00	0.00	0.00	0.00	0.00
50E	3.53	3.25	3.33	3.40	3.75	4.10	4.19	4.40	4.14	1.50	3.05	3.03	3.21	3.55	0.00	0.00	0.00	0.00	0.00
45E	3.54	3.37	3.28	3.79	3.80	4.00	4.42	4.39	4.12	1.50	3.05	3.01	3.16	3.58	0.00	0.00	0.00	0.00	0.00
40E	3.14	3.02	3.52	3.18	3.86	4.14	4.44	4.34	4.22	1.54	3.06	3.04	3.12	3.51	2.34	0.00	0.00	0.00	0.00
35E	1.19	2.00	1.98	2.37	3.40	3.86	4.29	4.29	4.16	1.56	3.10	3							

TABLE 4C VALUES OF Δ -JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	3.57	3.84	4.15	4.40	4.51	4.45	4.37	4.34	4.03	3.66	3.40	3.23	3.16	3.05	2.22	0.00	0.00	0.00	0.04
5W	3.77	4.05	4.32	4.47	4.41	4.31	4.25	4.28	4.02	3.66	3.41	3.22	3.10	2.91	1.92	-0.41	-0.35	-0.03	0.04
10W	3.89	4.22	4.44	4.55	4.43	4.24	4.19	4.24	4.02	3.68	3.43	3.19	3.05	2.79	1.95	-0.10	-0.35	0.00	0.04
15W	4.05	4.27	4.55	4.62	4.51	4.30	4.22	4.23	4.04	3.69	3.42	3.18	2.99	2.66	2.13	0.41	-0.14	0.11	0.04
20W	4.13	4.39	4.61	4.68	4.57	4.33	4.22	4.22	4.07	3.71	3.46	3.14	2.96	2.57	2.14	1.05	0.06	0.14	0.04
25W	4.16	4.43	4.63	4.64	4.54	4.38	4.18	4.22	4.07	3.75	3.44	3.11	2.84	2.51	2.13	1.61	0.30	0.18	0.04
30W	4.01	4.24	4.53	4.59	4.49	4.39	4.17	4.21	4.05	3.80	3.47	3.08	2.80	2.43	2.10	1.85	0.61	0.22	0.04
35W	3.70	3.64	4.10	4.49	4.38	4.26	4.09	4.20	4.05	3.80	3.48	3.01	2.68	2.33	2.04	1.85	0.00	0.27	0.04
40W	3.55	2.61	2.40	3.40	3.75	4.07	4.10	4.15	4.03	3.84	3.56	3.01	2.61	2.25	1.97	1.81	2.31	0.33	0.04
45W	3.83	2.64	3.37	3.11	2.03	3.65	4.16	4.12	4.01	3.87	3.65	3.10	2.62	2.10	1.94	1.73	1.02	0.38	0.04
50W	3.96	3.57	2.95	2.12	2.41	2.29	3.43	3.95	3.97	3.89	3.76	3.28	2.72	2.11	1.82	1.59	0.86	0.45	0.04
55W	4.07	3.55	3.03	2.45	2.57	2.94	3.18	3.48	3.81	3.89	3.86	3.43	2.86	2.16	1.66	1.04	0.73	0.50	0.04
60W	3.67	3.64	3.19	2.91	2.95	2.79	2.82	3.35	3.42	3.69	3.84	3.49	3.13	2.37	1.39	0.60	0.61	0.48	0.04
65W	3.79	3.85	3.42	3.15	2.48	2.19	2.34	2.78	3.01	3.25	3.54	3.83	3.14	2.72	0.96	0.23	0.41	0.39	0.04
70W	3.77	4.01	3.85	2.94	4.22	3.20	4.11	3.66	2.33	2.42	2.65	3.18	3.21	3.01	1.39	0.32	0.40	0.39	0.04
75W	2.04	3.74	3.98	4.03	5.66	5.49	4.99	4.29	3.96	3.72	3.21	3.44	3.15	3.16	1.97	0.40	0.31	0.36	0.04
80W	2.95	3.05	4.43	4.98	5.55	5.46	4.79	4.28	3.96	3.93	3.68	3.64	3.58	3.30	2.24	0.48	0.30	0.35	0.04
85W	3.29	3.92	4.50	4.75	4.93	5.05	4.59	4.27	4.06	4.02	3.88	3.85	3.75	3.39	2.40	0.57	0.30	0.26	0.04
90W	3.40	3.94	4.45	4.57	4.94	4.90	4.54	4.27	4.11	4.03	3.93	3.93	3.83	3.39	2.50	0.67	0.29	0.25	0.04
95W	3.45	3.99	4.45	4.79	4.99	4.78	4.49	4.30	4.14	4.06	3.94	3.97	3.90	3.42	2.59	0.77	0.29	0.25	0.04
100W	3.59	4.02	4.50	4.79	5.39	4.74	4.50	4.37	4.17	4.09	3.95	3.97	3.94	3.46	2.73	0.87	0.28	0.34	0.04
105W	3.71	4.21	4.71	4.96	5.62	4.76	4.52	4.37	4.21	4.12	3.97	4.00	3.96	3.47	2.73	0.86	0.28	0.33	0.04
110W	4.01	4.34	4.73	5.06	5.79	4.75	4.51	4.40	4.22	4.08	3.95	4.04	3.99	3.51	2.75	0.86	0.27	0.33	0.04
115W	4.17	4.40	4.73	4.98	5.99	4.82	4.53	4.37	4.25	4.09	3.96	4.05	4.03	3.51	2.76	0.96	0.27	0.41	0.04
120W	4.31	4.42	4.76	4.90	6.19	4.80	4.52	4.37	4.26	4.08	3.96	4.02	4.02	3.55	2.77	0.96	0.35	0.40	0.04
125W	4.29	4.51	4.45	5.03	6.31	4.77	4.51	4.35	4.26	4.08	3.97	4.04	3.98	3.52	2.82	1.08	0.35	0.50	0.04
130W	4.27	4.57	4.93	5.03	6.45	4.69	4.43	4.29	4.19	4.05	3.97	4.01	3.97	3.62	2.85	1.22	0.34	0.51	0.04
135W	4.23	4.63	4.99	4.99	6.57	4.58	4.33	4.22	4.15	4.03	3.94	4.01	3.94	3.54	2.81	1.34	0.35	0.52	0.04
140W	4.27	4.60	5.20	5.00	6.53	4.45	4.20	4.14	4.08	3.99	3.93	4.01	3.89	3.47	2.82	1.51	0.35	0.63	0.04
145W	4.21	4.54	5.12	4.96	6.46	4.26	4.13	4.04	4.03	3.92	3.92	4.01	3.90	3.45	2.85	1.51	0.37	0.76	0.04
150W	4.23	4.44	5.00	4.74	6.32	4.14	4.01	4.00	4.00	3.93	3.88	4.00	3.89	3.46	2.89	1.57	0.48	0.79	0.04
155W	4.23	4.48	4.85	4.54	6.23	4.01	3.84	3.98	4.00	3.96	3.93	4.00	3.85	3.50	2.79	1.72	0.50	0.95	0.04
160W	4.20	4.63	4.81	4.42	6.09	3.95	3.93	3.97	4.03	3.99	3.94	4.01	3.81	3.50	2.76	1.78	0.65	0.98	0.04
165W	4.24	4.73	4.64	4.30	5.92	3.88	3.88	3.97	4.04	4.02	3.94	3.97	3.80	3.46	2.78	1.94	0.81	1.04	0.04
170W	4.19	4.55	4.58	4.12	5.80	3.86	3.85	3.99	4.06	4.06	3.94	3.95	3.77	3.40	2.72	2.12	1.13	1.09	0.04
175W	3.96	4.29	4.09	4.01	5.73	3.87	3.88	3.99	4.13	4.08	3.94	3.93	3.77	3.42	2.76	2.37	1.53	1.03	0.04
180W	3.79	4.06	3.95	3.83	5.73	3.99	3.94	3.94	4.04	4.06	3.94	3.94	3.65	3.41	2.79	2.55	1.82	0.97	0.04
185E	3.57	3.80	3.73	3.75	5.79	4.15	4.06	3.84	3.63	4.00	3.96	3.90	3.60	3.39	2.85	2.71	2.16	0.91	0.04
190E	3.58	3.58	3.43	3.57	5.79	4.27	4.17	4.02	3.81	3.43	3.93	3.95	3.69	3.49	2.79	2.65	2.17	0.87	0.04
195E	3.54	3.34	3.23	3.36	5.31	4.30	4.31	4.30	4.05	3.75	3.81	3.94	3.65	3.55	2.58	1.86	2.01	0.85	0.04
200E	3.57	3.20	3.22	3.62	5.43	4.53	4.58	4.53	4.35	3.79	3.66	3.95	3.73	3.56	2.11	0.00	1.69	0.00	0.00
205E	3.47	3.14	3.70	4.36	5.75	4.78	4.47	4.68	4.54	3.82	3.66	3.95	3.78	3.55	1.35	0.00	0.00	0.00	0.00
210E	3.43	3.47	4.08	4.76	5.15	2.70	3.25	3.28	4.42	3.72	3.68	3.90	3.82	3.49	0.00	0.00	0.00	0.00	0.00
215E	3.44	3.45	4.27	4.28	2.49	2.79	3.75	3.71	4.26	3.75	3.69	3.88	3.89	3.37	0.00	0.00	0.00	0.00	0.00
220E	3.57	3.54	4.34	3.92	2.83	2.79	3.59	4.29	4.53	3.94	3.79	3.94	3.89	3.26	0.00	0.00	0.00	0.00	0.00
225E	3.68	3.93	4.47	2.72	2.31	2.62	3.49	4.72	4.66	4.11	3.86	3.91	3.92	3.19	0.00	0.00	0.00	0.00	0.00
230E	3.66	3.91	4.52	3.11	2.02	2.42	3.14	4.85	4.64	4.20	3.92	3.90	3.88	3.17	0.00	0.00	0.00	0.00	0.00
235E	3.20	3.93	4.36	3.45	2.34	2.20	3.65	4.97	4.72	4.24	3.49	3.86	3.79	2.91	0.00	0.00	0.00	0.00	0.00
240E	3.27	3.86	4.51	5.36	3.48	2.18	3.38	4.39	4.69	4.23	3.97	3.87	3.70	3.10	0.00	0.00	0.00	0.00	0.00
245E	3.45	4.08	4.64	5.24	3.87	3.51	4.20	4.83	4.69	4.22	3.93	3.68	3.66	3.08	0.00	0.00	0.00	0.00	0.00
250E	3.78	3.96	4.55	4.86	4.00	4.60	4.96	4.81	4.60	4.17	3.81	3.61	3.58	3.06	0.00	0.00	0.00	0.00	0.00
255E	3.60	3.69	4.42	4.58	4.42	4.72	4.78	4.77	4.54	4.07	3.78	3.57	3.51	2.98	0.00	0.00	0.00	0.00	0.00
260E	3.10	3.63	4.28	4.35	4.43	4.57	4.68	4.66	4.41	4.00	3.58	3.51	3.46	2.90	0.00	0.00	0.00	0.00	0.00
265E	3.18	3.57	3.97	4.17	4.27	4.44	4.57	4.64	4.38	4.04	3.58	3.45	3.38	2.83	0.00	0.00	0.00	0.00	0.00
270E	3.52	3.62	3.89	4.09	4.44	4.37	4.54	4.65	4.37	3.89	3.54	3.44	3.30	2.87	0.00	0.00	0.00	0.00	0.00
275E	3.56	3.62	3.88	4.00	4.40	4.34	4.52	4.60	4.39	3.88	3.51	3.41	3.30	3.09	0.00	0.00	0.00	0.00	0.00
280E	3.57	3.62	3.88	3.97	4.10	4.33	4.52	4.61	4.38	3.78	3.43	3.38	3.30	3.22	0.00	0.00	0.00	0.00	0.00
285E	3.40	3.50	3.95	4.00	4.10	4.29	4.51	4.61	4.38	3.76	3.43	3.36	3.36	3.47	0.00	0.00	0.00	0.00	0.00
290E	3.57	3.63	3.90	4.05	4.05	4.30	4.48	4.60	4.38	3.76	3.40	3.36	3.42	3.61	0.00	0.00	0.00	0.00	0.00
295E	3.57	3.65	3.99	4.23	4.07	4.30	4.48	4.55	4.36	3.73	3.37	3.35	3.47	3.67	0.00	0.00	0.00	0.00	0.00
300E	3.56	3.66	4.03	4.30	4.01	4.29	4.49	4.55	4.33	3.71	3.37	3.35	3.50	3.57	0.00	0.00	0.00	0.00	0.00
305E	3.52	3.59	3.90	4.35	4.12	4.34	4.48	4.53	4.32	3.68	3.34	3.33	3.48	3.53	0.00	0.00	0.00	0.00	0.00
310E	3.50	3.43	3.49	3.52	4.45	4.50	4.50	4.50	4.27	3.63	3.34	3.30	3.45	3.44	0.00	0.00	0.00	0.00	0.00
315E	3.19	3.53	3.54	3.98	3.84	4.41	4.55	4.49	4.23	3.65	3.35	3.26	3.37	3.52	0.00	0.00	0.00	0.00	0.00
320E	2.51	3.53	3.69	3.42	4.45	4.58	4.66	4.51	4.23	3.68	3.36	3.24	3.31	3.50	1.39	0.00	0.00	0.00	0.00
325E	1.33	2.25	2.48	2.57	4.33	4.59	4.71	4.57	4.27	3.67									

TABLE 40 VALUES OF δ -OCTOHEM

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	3.08	3.22	3.31	3.64	4.13	4.56	4.67	4.60	4.30	3.68	3.19	3.23	3.06	3.03	2.14	0.00	0.00	0.00	0.30
5W	3.26	3.51	3.70	4.00	4.31	4.57	4.59	4.52	4.25	3.68	3.40	3.22	3.03	2.94	1.94	-0.18	-0.11	0.34	0.30
10W	3.35	3.60	4.06	4.27	4.45	4.58	4.57	4.44	4.17	3.74	3.31	3.22	3.00	2.84	2.45	-0.09	-0.05	0.36	0.30
15W	3.59	4.10	4.34	4.51	4.51	4.56	4.48	4.39	4.14	3.63	3.40	3.22	3.00	2.76	2.52	0.31	0.00	0.47	0.30
20W	3.87	4.44	4.62	4.64	4.59	4.56	4.47	4.33	4.09	3.73	3.39	3.20	2.99	2.71	2.48	1.23	0.17	0.41	0.30
25W	4.09	4.68	5.03	4.84	4.67	4.47	4.35	4.24	4.03	4.19	3.39	3.17	3.00	2.62	2.35	1.45	0.50	0.44	0.30
30W	4.17	4.91	5.23	5.09	4.63	4.34	4.19	4.13	3.99	3.74	3.42	3.16	2.97	2.54	2.35	1.43	0.50	0.48	0.30
35W	4.21	4.84	5.33	4.99	4.51	4.09	1.37	4.04	3.92	3.76	3.53	3.14	2.95	2.45	2.22	1.43	0.62	0.53	0.30
40W	4.23	3.78	3.29	3.62	4.03	3.78	3.43	3.92	3.87	3.76	3.43	3.18	2.93	2.44	2.12	1.47	0.86	0.58	0.30
45W	4.28	4.12	3.93	3.58	2.43	3.35	3.73	3.84	3.82	3.77	3.49	3.25	3.01	2.38	2.00	1.40	0.91	0.45	0.30
50W	4.35	4.61	3.67	2.79	2.86	2.52	3.59	3.80	3.85	3.81	3.58	3.37	3.10	2.35	1.83	1.22	0.75	0.50	0.30
55W	4.16	4.26	3.25	3.05	2.49	3.15	4.15	3.70	3.84	3.87	3.69	3.53	3.19	2.44	1.44	0.96	0.74	0.48	0.30
60W	3.96	3.85	3.13	3.01	2.88	2.96	3.30	3.71	3.83	3.96	3.90	3.59	3.36	2.71	1.34	0.63	0.53	0.46	0.30
65W	4.04	3.60	3.14	1.92	1.83	2.22	3.04	3.26	3.23	3.37	3.65	3.52	3.44	3.06	1.33	0.36	0.35	0.45	0.30
70W	3.69	3.53	3.30	1.57	3.18	3.30	3.74	3.64	2.63	2.69	2.45	3.50	3.43	3.16	1.93	0.38	0.28	0.35	0.30
75W	1.99	3.03	2.55	2.41	4.29	5.03	4.91	4.52	4.20	3.59	3.13	3.52	3.45	3.20	2.76	0.59	0.21	0.34	0.30
80W	2.67	2.52	3.22	3.92	4.57	4.85	4.84	4.32	3.85	3.64	3.49	3.54	3.47	3.17	2.39	0.85	0.23	0.34	0.30
85W	2.65	3.14	3.57	4.14	5.34	4.68	7.38	4.36	3.74	3.64	3.58	3.59	3.45	3.11	2.43	1.12	0.25	0.34	0.30
90W	2.32	3.01	3.62	4.19	4.61	4.63	4.61	4.45	3.75	3.69	3.63	3.59	3.42	3.00	2.38	1.15	0.27	0.34	0.30
95W	2.55	3.11	3.78	4.29	4.72	4.67	6.26	4.43	3.74	3.71	3.64	3.56	3.32	2.84	2.76	1.18	0.28	0.26	0.30
100W	2.77	3.34	4.01	4.48	4.94	4.69	4.52	4.35	3.73	3.74	3.67	3.55	3.27	2.79	2.17	1.70	0.27	0.43	0.30
105W	3.03	3.63	4.23	4.64	5.24	4.73	4.50	4.30	3.75	4.47	3.69	3.53	3.25	2.70	2.16	1.09	0.38	0.52	0.30
110W	3.32	3.86	4.49	4.99	5.57	4.85	4.52	4.25	3.75	3.80	3.71	3.53	3.24	2.67	2.12	0.97	0.46	0.62	0.30
115W	3.56	4.00	4.62	5.01	5.98	4.96	4.51	4.27	3.67	1.46	3.73	3.53	3.18	2.59	2.07	0.97	0.65	0.71	0.30
120W	3.83	4.26	4.77	5.07	6.14	4.98	4.44	4.22	4.10	3.86	3.73	3.57	3.16	2.56	2.06	0.84	0.74	0.93	0.30
125W	4.04	4.44	4.83	5.01	6.31	4.91	4.39	4.16	4.08	3.87	3.74	3.57	3.17	2.52	2.06	0.82	0.82	1.05	0.30
130W	4.16	4.53	4.86	4.94	6.49	4.73	4.26	4.10	4.08	3.89	3.76	3.57	3.15	2.51	2.07	0.91	0.79	1.17	0.30
135W	4.14	4.62	4.93	4.92	6.57	4.44	4.14	4.04	4.07	3.89	3.78	3.57	3.12	2.50	2.08	0.90	0.88	1.31	0.30
140W	4.16	4.60	4.85	4.85	6.52	4.21	3.98	4.01	4.07	3.80	3.78	3.57	3.12	2.52	2.09	0.99	0.97	1.45	0.30
145W	4.26	4.59	4.71	4.62	6.39	4.00	3.85	4.22	4.06	3.92	3.77	3.57	3.09	2.56	2.11	1.10	1.08	1.61	0.30
150W	4.31	4.56	4.74	4.46	6.22	3.88	3.79	4.21	4.05	3.94	3.81	3.58	3.10	2.62	2.21	1.24	1.20	1.62	0.30
155W	4.32	4.49	4.48	4.35	6.07	3.85	3.79	4.20	4.03	3.93	3.79	3.57	3.12	2.65	2.17	1.27	1.36	1.65	0.30
160W	4.32	4.49	4.47	4.25	5.99	3.82	3.80	4.22	4.03	3.92	3.80	3.57	3.11	2.69	2.23	1.46	1.55	1.69	0.30
165W	4.30	4.65	4.72	4.06	5.93	3.85	3.89	4.25	4.02	3.98	3.83	3.54	3.14	2.77	2.36	1.72	1.78	1.75	0.30
170W	4.31	4.70	4.51	3.91	5.88	3.88	3.98	4.26	4.04	4.09	3.85	3.54	3.20	2.84	2.49	1.88	2.06	1.65	0.30
175W	4.42	4.61	4.24	3.75	5.86	3.92	3.96	4.30	4.07	4.01	3.86	3.79	3.19	2.94	2.45	2.07	2.21	1.73	0.30
180W	4.43	4.51	4.00	3.60	5.81	3.93	3.91	4.28	4.00	4.03	3.89	3.58	3.25	3.07	2.81	2.50	2.30	1.51	0.30
-175E	4.28	4.21	3.73	3.52	5.81	4.00	3.96	3.41	3.43	3.85	3.93	3.60	3.27	3.22	3.02	2.66	2.64	1.46	0.30
-170E	3.93	3.85	3.50	3.50	5.79	3.88	4.00	3.88	3.35	3.55	3.80	3.63	3.31	3.30	3.04	2.61	2.71	1.41	0.30
-165E	3.61	3.58	3.38	3.62	5.81	4.32	4.09	3.55	4.60	3.60	3.58	3.31	3.53	3.33	3.03	2.75	2.80	1.41	0.30
-160E	3.58	3.41	3.44	3.94	6.04	4.54	4.40	4.23	3.73	3.29	3.88	3.48	3.35	3.60	2.32	0.00	0.00	0.00	0.00
-155E	3.53	3.55	3.88	4.63	6.38	4.67	4.32	4.18	3.87	3.32	3.39	3.50	3.37	3.62	1.96	0.00	0.00	0.00	0.00
-150E	3.37	3.61	4.37	4.71	5.89	3.04	2.73	3.35	3.98	3.41	3.39	3.56	3.42	3.68	0.00	0.00	0.00	0.00	0.00
-145E	3.39	3.38	4.16	4.40	3.35	2.22	2.76	3.14	3.97	3.58	3.53	3.57	3.44	3.47	0.00	0.00	0.00	0.00	0.00
-140E	3.47	3.32	4.19	4.41	2.65	1.91	2.42	4.06	4.21	3.73	3.40	3.56	3.44	3.27	0.00	0.00	0.00	0.00	0.00
-135E	3.47	3.69	4.15	3.19	1.99	2.00	2.89	4.53	4.40	3.83	3.74	3.58	3.45	3.13	0.00	0.00	0.00	0.00	0.00
-130E	3.67	3.71	4.29	3.90	1.85	2.01	2.74	4.66	4.44	3.92	3.74	3.60	3.49	3.09	0.00	0.00	0.00	0.00	0.00
-125E	3.44	3.51	3.60	5.01	2.36	1.78	2.76	4.70	4.45	3.94	3.74	3.71	3.48	3.13	0.00	0.00	0.00	0.00	0.00
-120E	3.48	3.54	4.03	5.16	3.84	1.72	3.47	4.62	4.44	3.92	3.70	3.53	3.47	3.24	0.00	0.00	0.00	0.00	0.00
-115E	3.70	3.62	4.24	5.13	4.98	3.64	4.43	4.77	4.35	3.91	3.62	3.48	3.47	3.35	0.00	0.00	0.00	0.00	0.00
-110E	3.70	3.77	4.39	4.93	5.04	5.00	5.02	4.80	4.32	3.86	3.58	3.47	3.51	3.42	0.00	0.00	0.00	0.00	0.00
-105E	3.57	3.66	4.49	4.78	4.86	5.02	4.98	4.72	4.28	3.81	3.53	3.46	3.52	3.49	0.00	0.00	0.00	0.00	0.00
-100E	3.31	3.84	4.83	4.69	4.84	4.91	4.87	4.64	4.21	3.79	3.50	3.47	3.51	3.52	0.00	0.00	0.00	0.00	0.00
-95E	3.30	3.87	4.46	4.64	4.80	4.85	4.79	4.56	4.17	3.78	3.48	3.45	3.52	3.42	0.00	0.00	0.00	0.00	0.00
-90E	3.40	3.91	4.46	4.61	4.73	4.77	4.68	4.50	4.15	3.76	3.43	3.41	3.46	3.39	0.00	0.00	0.00	0.00	0.00
-85E	3.38	3.95	4.40	4.58	4.70	4.70	4.60	4.46	4.13	3.78	3.39	3.38	3.45	3.48	0.00	0.00	0.00	0.00	0.00
-80E	3.42	3.97	4.35	4.51	4.62	4.62	4.54	4.42	4.18	3.71	3.35	3.34	3.48	3.48	0.00	0.00	0.00	0.00	0.00
-75E	3.50	3.94	4.30	4.45	4.51	4.57	4.51	4.44	4.21	3.66	3.32	3.32	3.47	3.70	0.00	0.00	0.00	0.00	0.00
-70E	3.64	3.99	4.34	4.46	4.45	4.50	4.46	4.41	4.21	3.69	3.31	3.29	3.55	3.81	0.00	0.00	0.00	0.00	0.00
-65E	3.77	4.08	4.36	4.48	4.34	4.37	4.41	4.34	4.21	3.70	3.29	3.28	3.61	3.69	0.00	0.00	0.00	0.00	0.00
-60E	3.78	4.05	4.33	4.38	4.19	4.32	4.29	4.24	4.19	3.72	3.29	3.24	3.58	3.56	0.00	0.00	0.00	0.00	0.00
-55E	3.73	4.00	4.09	4.21	4.16	4.20	4.32	4.39	4.14	3.75	3.29	3.23	3.54	3.43	0.00	0.00	0.00	0.00	0.00
-50E	3.79	3.79	3.66	3.36	4.29	4.34	4.36	4.30	4.12	3.75	3.31	3.21	3.51	3.46	0.00	0.00	0.00	0.00	0.00
-45E	3.78	3.86	3.81	4.16	3.70	4.10	4.41	4.38	4.16	3.75	3.34	3.21	3.44	3.62	0.00	0.00	0.00	0.00	0.00
-40E	3.09	3.79	3.54	2.88	3.96	4.00	4.25	4.42	4.23	3.76	3.37	3.23	3.39	3.66	2.27	0.00	0.00	0.00	0.00
-35E	1.21	1.85	1.76	2.16	3.49	3.69	4.08	4.38	4.32	3.78	3.36	3.23	3.3						

TABLE 5A RADIATIVE COOLING VALUES (C/DAY) AT SURFACE-JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.26	2.24	2.22	2.19	2.18	2.17	2.15	2.10	2.04	1.96	1.87	1.83	1.81	1.80	1.70	0.00	0.00	0.00	1.32
5W	2.25	2.24	2.22	2.19	2.19	2.19	2.16	2.11	2.04	1.96	1.88	1.83	1.81	1.79	1.73	0.00	1.27	1.31	1.32
10W	2.25	2.24	2.22	2.20	2.20	2.20	2.17	2.12	2.05	1.97	1.88	1.83	1.81	1.79	1.56	1.43	1.32	1.32	1.32
15W	2.25	2.24	2.22	2.21	2.21	2.21	2.18	2.13	2.06	1.96	1.89	1.83	1.81	1.78	1.74	1.58	0.00	1.36	1.32
20W	2.25	2.25	2.23	2.23	2.23	2.22	2.18	2.13	2.06	1.98	1.90	1.84	1.81	1.78	1.74	1.66	1.44	1.38	1.32
25W	2.25	2.25	2.24	2.24	2.23	2.23	2.19	2.14	2.07	1.99	1.90	1.84	1.80	1.78	1.70	1.71	1.51	1.38	1.32
30W	2.25	2.24	2.25	2.25	2.24	2.23	2.20	2.14	2.07	2.00	1.92	1.85	1.80	1.78	1.75	1.71	1.58	1.39	1.32
35W	2.25	2.25	2.26	2.25	2.25	2.25	2.23	2.20	2.14	2.07	2.00	1.93	1.86	1.80	1.70	1.74	1.71	1.58	1.39
40W	2.25	2.24	2.25	2.22	2.24	2.23	2.20	2.15	2.08	2.01	1.93	1.86	1.81	1.78	1.75	1.71	1.58	1.39	1.32
45W	2.25	2.25	2.24	2.21	2.16	2.23	2.20	2.15	2.08	2.01	1.94	1.88	1.82	1.78	1.74	1.71	1.58	1.39	1.32
50W	2.25	2.27	2.23	2.19	2.22	2.17	2.21	2.15	2.08	2.01	1.94	1.89	1.83	1.78	1.74	1.71	1.58	1.39	1.32
55W	2.25	2.25	2.22	2.21	2.21	2.23	2.21	2.17	2.09	2.01	1.95	1.91	1.84	1.79	1.74	1.70	1.56	1.39	1.32
60W	2.26	2.24	2.22	2.22	2.28	2.27	2.24	2.20	2.11	2.03	1.97	1.93	1.87	1.80	1.73	1.63	1.55	1.39	1.32
65W	2.25	2.23	2.24	2.25	2.14	2.21	2.25	2.21	2.19	2.09	2.00	1.94	1.88	1.81	1.75	1.66	1.55	1.39	1.32
70W	2.23	2.23	2.23	2.16	2.15	2.14	2.11	2.07	2.11	2.07	2.04	1.95	1.89	1.82	1.77	1.69	1.53	1.39	1.32
75W	2.11	2.23	2.18	2.18	2.18	2.15	2.13	2.10	2.05	2.00	1.97	1.94	1.89	1.82	1.77	1.60	1.49	1.39	1.32
80W	2.16	2.21	2.19	2.18	2.17	2.15	2.14	2.11	2.07	2.01	1.97	1.94	1.89	1.82	1.77	1.60	1.49	1.39	1.32
85W	2.24	2.22	2.20	2.16	2.17	2.15	2.15	2.11	2.08	2.02	1.97	1.94	1.88	1.82	1.77	1.60	1.49	1.39	1.32
90W	2.25	2.21	2.20	2.18	2.17	2.17	2.15	2.12	2.08	2.02	1.97	1.93	1.88	1.83	1.77	1.60	1.44	1.39	1.32
95W	2.22	2.20	2.19	2.18	2.18	2.18	2.16	2.12	2.08	2.01	1.97	1.93	1.89	1.82	1.77	1.60	1.44	1.39	1.32
100W	2.21	2.19	2.19	2.19	2.19	2.19	2.17	2.13	2.08	2.01	1.97	1.93	1.87	1.82	1.77	1.60	1.43	1.39	1.32
105W	2.20	2.19	2.20	2.20	2.20	2.20	2.18	2.13	2.08	2.01	1.97	1.93	1.87	1.82	1.77	1.61	1.43	1.41	1.32
110W	2.20	2.21	2.21	2.22	2.21	2.20	2.18	2.14	2.08	2.02	1.97	1.93	1.87	1.82	1.77	1.61	1.46	1.41	1.32
115W	2.21	2.22	2.23	2.23	2.23	2.21	2.19	2.14	2.08	2.02	1.97	1.93	1.87	1.82	1.77	1.61	1.48	1.43	1.32
120W	2.22	2.23	2.24	2.25	2.24	2.22	2.19	2.14	2.08	2.02	1.97	1.92	1.87	1.81	1.77	1.63	1.49	1.43	1.32
125W	2.23	2.24	2.25	2.25	2.24	2.22	2.19	2.14	2.08	2.02	1.97	1.92	1.86	1.81	1.77	1.65	1.51	1.44	1.32
130W	2.23	2.24	2.25	2.26	2.25	2.22	2.18	2.14	2.08	2.03	1.97	1.92	1.86	1.81	1.77	1.66	1.51	1.44	1.32
135W	2.23	2.24	2.26	2.26	2.25	2.22	2.18	2.14	2.08	2.03	1.97	1.92	1.86	1.81	1.77	1.67	1.53	1.44	1.32
140W	2.23	2.24	2.27	2.27	2.25	2.22	2.18	2.13	2.08	2.03	1.97	1.92	1.86	1.81	1.77	1.68	1.55	1.46	1.32
145W	2.24	2.26	2.28	2.27	2.25	2.22	2.17	2.13	2.08	2.02	1.97	1.92	1.86	1.81	1.77	1.70	1.58	1.48	1.32
150W	2.24	2.27	2.28	2.27	2.25	2.21	2.17	2.12	2.06	2.03	1.97	1.92	1.86	1.81	1.77	1.72	1.60	1.48	1.32
155W	2.25	2.27	2.28	2.27	2.25	2.21	2.17	2.12	2.06	2.03	1.97	1.92	1.86	1.81	1.77	1.72	1.60	1.48	1.32
160W	2.27	2.28	2.28	2.27	2.25	2.21	2.17	2.12	2.06	2.03	1.98	1.92	1.86	1.81	1.77	1.72	1.63	1.48	1.32
165W	2.28	2.28	2.28	2.27	2.25	2.21	2.17	2.13	2.06	2.03	1.98	1.93	1.86	1.81	1.77	1.73	1.67	1.48	1.32
170W	2.28	2.28	2.28	2.27	2.25	2.21	2.18	2.13	2.06	2.03	1.98	1.93	1.87	1.82	1.78	1.74	1.66	1.48	1.32
175W	2.28	2.28	2.28	2.27	2.25	2.22	2.18	2.14	2.06	2.03	1.98	1.93	1.87	1.82	1.78	1.74	1.67	1.48	1.32
180W	2.28	2.28	2.28	2.27	2.25	2.22	2.18	2.14	2.09	2.03	1.99	1.93	1.87	1.83	1.78	1.75	1.67	1.48	1.32
-175E	2.28	2.28	2.28	2.27	2.25	2.22	2.18	2.14	2.09	2.04	1.99	1.93	1.87	1.82	1.78	1.75	1.68	1.46	1.32
-170E	2.27	2.28	2.28	2.27	2.26	2.22	2.18	2.13	2.09	2.04	1.99	1.93	1.87	1.82	1.78	1.75	1.68	1.46	1.32
-165E	2.27	2.28	2.28	2.27	2.25	2.23	2.19	2.14	2.09	2.04	1.99	1.93	1.86	1.82	1.77	1.74	1.68	1.44	1.32
-160E	2.27	2.28	2.28	2.26	2.26	2.23	2.20	2.15	2.10	2.04	1.98	1.92	1.86	1.81	1.73	0.00	1.66	0.00	0.00
-155E	2.27	2.28	2.28	2.28	2.26	2.24	2.20	2.15	2.10	2.04	1.98	1.91	1.86	1.81	1.66	0.00	0.00	0.00	0.00
-150E	2.26	2.27	2.27	2.28	2.26	2.24	2.21	2.13	2.10	2.03	1.96	1.90	1.85	1.81	0.00	0.00	0.00	0.00	0.00
-145E	2.26	2.21	2.28	2.27	2.28	2.31	2.28	2.21	2.08	2.02	1.94	1.90	1.84	1.80	0.00	0.00	0.00	0.00	0.00
-140E	2.26	2.21	2.27	2.28	2.32	2.33	2.27	2.17	2.07	2.01	1.95	1.89	1.84	1.80	0.00	0.00	0.00	0.00	0.00
-135E	2.26	2.26	2.28	2.30	2.32	2.30	2.25	2.12	2.06	2.00	1.94	1.88	1.84	1.79	0.00	0.00	0.00	0.00	0.00
-130E	2.26	2.27	2.29	2.32	2.32	2.29	2.21	2.11	2.06	2.00	1.93	1.88	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-125E	2.26	2.27	2.28	2.30	2.33	2.31	2.24	2.11	2.05	1.99	1.93	1.87	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-120E	2.25	2.27	2.28	2.30	2.31	2.32	2.26	2.12	2.05	1.98	1.93	1.87	1.84	1.79	0.00	0.00	0.00	0.00	0.00
-115E	2.24	2.27	2.28	2.29	2.31	2.31	2.21	2.12	2.05	1.98	1.92	1.87	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-110E	2.24	2.26	2.28	2.27	2.24	2.19	2.15	2.10	2.04	1.98	1.92	1.87	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-105E	2.25	2.24	2.27	2.25	2.22	2.18	2.14	2.10	2.04	1.98	1.91	1.87	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-100E	2.25	2.27	2.27	2.25	2.22	2.18	2.14	2.10	2.04	1.97	1.91	1.86	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-95E	2.25	2.27	2.26	2.25	2.22	2.19	2.15	2.10	2.05	1.97	1.91	1.86	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-90E	2.26	2.24	2.27	2.25	2.23	2.20	2.15	2.11	2.05	1.97	1.91	1.86	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-85E	2.27	2.27	2.27	2.25	2.24	2.20	2.17	2.12	2.06	1.97	1.90	1.86	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-80E	2.27	2.27	2.27	2.26	2.24	2.21	2.18	2.12	2.06	1.97	1.90	1.86	1.83	1.79	0.00	0.00	0.00	0.00	0.00
-75E	2.27	2.27	2.27	2.25	2.25	2.22	2.18	2.13	2.07	1.97	1.90	1.86	1.83	1.80	0.00	0.00	0.00	0.00	0.00
-70E	2.27	2.27	2.27	2.26	2.25	2.23	2.19	2.14	2.07	1.98	1.90	1.85	1.83	1.80	0.00	0.00	0.00	0.00	0.00
-65E	2.26	2.27	2.27	2.27	2.25	2.23	2.20	2.07	2.00	1.97	1.90	1.85	1.82	1.80	0.00	0.00	0.00	0.00	0.00
-60E	2.26	2.26	2.27	2.27	2.26	2.24	2.20	2.14	2.07	1.97	1.89	1.85	1.82	1.80	0.00	0.00	0.00	0.00	0.00
-55E	2.25	2.26	2.27	2.27	2.26	2.25	2.20	2.15	2.07	1.96	1.88	1.85	1.82	1.80	0.00	0.00	0.00	0.00	0.00
-50E	2.24	2.26	2.27	2.24	2.26	2.25	2.20	2.15	2.07	1.97	1.88	1.85	1.82	1.80	0.00	0.00	0.00	0.00	0.00
-45E	2.26	2.26	2.27	2.27	2.24	2.24	2.21	2.15	2.07	1.97	1.88	1.84	1.82	1.80	0.00	0.00	0.00	0.00	0.00
-40E	2.28	2.26	2.27	2.27	2.28	2.25	2.21	2.15	2.07	1.97	1.88	1.84	1.82	1.80	0.00	0.00	0.00	0.00	0.00
-35E	2.10	2.17	2.16	2.17	2.26	2.24	2.21	2.16	2.08	1.97	1.88	1.84							

TABLE OF FANTASIE COOLING VALUES (C/DAY) AT 450-MM - JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.10	2.09	2.09	2.08	2.06	2.03	2.00	1.97	1.93	1.85	1.78	1.74	1.71	1.68	1.65	0.00	0.00	0.00	1.54
5W	2.10	2.09	2.08	2.07	2.05	2.03	1.99	1.97	1.93	1.86	1.78	1.74	1.71	1.69	1.66	0.00	2.02	1.55	1.54
10W	2.10	2.09	2.07	2.06	2.05	2.03	2.00	1.97	1.93	1.86	1.79	1.74	1.71	1.69	1.66	1.62	2.02	1.55	1.54
15W	2.10	2.08	2.07	2.06	2.05	2.03	2.01	1.98	1.93	1.87	1.79	1.74	1.72	1.69	1.66	1.62	0.00	1.55	1.54
20W	2.10	2.08	2.07	2.06	2.05	2.04	2.01	1.98	1.94	1.87	1.80	1.75	1.72	1.69	1.65	1.63	2.01	1.55	1.54
25W	2.10	2.08	2.07	2.06	2.05	2.04	2.02	1.99	1.94	1.87	1.80	1.75	1.72	1.69	1.67	1.63	2.01	1.55	1.54
30W	2.10	2.08	2.07	2.06	2.05	2.05	2.03	2.00	1.94	1.87	1.80	1.75	1.72	1.69	1.67	1.63	2.01	1.55	1.54
35W	2.10	2.08	2.07	2.07	2.07	2.07	2.04	2.00	1.95	1.88	1.81	1.76	1.72	1.69	1.67	1.64	2.01	1.55	1.54
40W	2.10	2.09	2.09	2.09	2.09	2.09	2.08	2.06	2.01	1.95	1.88	1.82	1.76	1.73	1.69	1.67	2.01	1.55	1.54
45W	2.09	2.10	2.11	2.11	2.11	2.10	2.07	2.02	1.96	1.89	1.82	1.77	1.73	1.69	1.66	1.63	2.01	1.55	1.54
50W	2.09	2.10	2.12	2.13	2.13	2.12	2.09	2.03	1.97	1.90	1.83	1.78	1.74	1.69	1.66	1.62	2.02	1.55	1.54
55W	2.08	2.11	2.13	2.15	2.15	2.13	2.09	2.04	1.98	1.92	1.85	1.79	1.74	1.70	1.65	1.61	2.02	1.55	1.54
60W	2.08	2.11	2.14	2.16	2.16	2.13	2.10	2.05	2.00	1.93	1.87	1.81	1.75	1.70	1.65	1.61	2.03	1.55	1.54
65W	2.08	2.11	2.14	2.15	2.15	2.12	2.10	2.07	2.01	1.95	1.89	1.82	1.76	1.71	1.65	1.60	2.04	1.55	1.54
70W	2.08	2.11	2.12	2.11	2.09	2.08	2.07	2.04	2.00	1.95	1.90	1.84	1.77	1.71	1.65	1.59	2.04	1.55	1.54
75W	2.08	2.09	2.10	2.08	2.06	2.04	2.03	2.00	1.95	1.92	1.88	1.84	1.78	1.72	1.65	1.58	2.05	1.54	1.54
80W	2.08	2.09	2.08	2.07	2.05	2.03	2.00	1.97	1.93	1.90	1.87	1.83	1.78	1.72	1.65	1.58	2.05	1.54	1.54
85W	2.08	2.09	2.08	2.07	2.06	2.03	2.00	1.97	1.94	1.90	1.87	1.83	1.78	1.72	1.65	1.58	2.05	1.54	1.54
90W	2.10	2.09	2.09	2.08	2.06	2.04	2.01	1.98	1.94	1.91	1.87	1.83	1.78	1.72	1.65	1.58	2.05	1.54	1.54
95W	2.11	2.10	2.09	2.08	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.83	1.78	1.73	1.66	1.59	2.05	1.55	1.54
100W	2.11	2.11	2.10	2.09	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.82	1.77	1.73	1.66	1.59	2.04	1.55	1.54
105W	2.11	2.11	2.10	2.09	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.82	1.77	1.73	1.67	1.60	2.04	1.55	1.54
110W	2.12	2.11	2.11	2.09	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.82	1.77	1.73	1.67	1.61	2.03	1.55	1.54
115W	2.12	2.11	2.11	2.09	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.82	1.77	1.73	1.67	1.62	2.02	1.56	1.54
120W	2.11	2.11	2.11	2.09	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.82	1.77	1.73	1.67	1.62	2.01	1.56	1.54
125W	2.11	2.11	2.11	2.09	2.07	2.04	2.01	1.98	1.95	1.92	1.87	1.82	1.77	1.72	1.68	1.63	2.01	1.56	1.54
130W	2.11	2.11	2.11	2.09	2.07	2.04	2.01	1.98	1.95	1.92	1.87	1.82	1.77	1.72	1.68	1.64	2.00	1.57	1.54
135W	2.10	2.11	2.11	2.09	2.07	2.04	2.01	1.98	1.95	1.92	1.87	1.82	1.77	1.72	1.68	1.64	2.00	1.57	1.54
140W	2.10	2.11	2.11	2.09	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.82	1.77	1.72	1.68	1.64	2.00	1.57	1.54
145W	2.10	2.11	2.11	2.10	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.82	1.77	1.72	1.68	1.64	1.99	1.57	1.54
150W	2.10	2.11	2.11	2.10	2.07	2.04	2.01	1.98	1.95	1.91	1.87	1.81	1.76	1.72	1.68	1.65	1.99	1.57	1.54
155W	2.09	2.11	2.11	2.10	2.08	2.04	2.01	1.98	1.95	1.91	1.87	1.81	1.76	1.72	1.68	1.65	1.99	1.57	1.54
160W	2.09	2.11	2.11	2.11	2.08	2.04	2.01	1.98	1.95	1.91	1.86	1.81	1.76	1.72	1.68	1.65	1.98	1.57	1.54
165W	2.09	2.11	2.11	2.11	2.08	2.04	2.01	1.98	1.95	1.92	1.86	1.81	1.76	1.71	1.68	1.65	1.98	1.57	1.54
170W	2.09	2.11	2.11	2.11	2.08	2.04	2.01	1.98	1.95	1.92	1.87	1.81	1.76	1.71	1.68	1.65	1.98	1.57	1.54
175W	2.10	2.11	2.11	2.11	2.09	2.04	2.01	1.98	1.95	1.92	1.87	1.81	1.75	1.71	1.67	1.64	1.99	1.57	1.54
180W	2.11	2.11	2.11	2.11	2.08	2.04	2.01	1.98	1.96	1.92	1.87	1.81	1.75	1.70	1.67	1.64	1.99	1.57	1.54
-175F	2.11	2.11	2.11	2.11	2.08	2.04	2.01	1.98	1.96	1.92	1.87	1.81	1.75	1.70	1.66	1.63	2.00	1.57	1.54
-165E	2.12	2.11	2.11	2.10	2.08	2.04	2.01	1.98	1.95	1.91	1.86	1.80	1.74	1.69	1.64	1.62	2.00	1.57	1.54
-160E	2.12	2.11	2.11	2.10	2.07	2.04	2.01	1.98	1.95	1.91	1.85	1.79	1.74	1.68	1.64	0.00	2.01	0.00	0.00
-155E	2.12	2.11	2.11	2.10	2.08	2.06	2.03	1.99	1.95	1.90	1.85	1.79	1.73	1.68	1.63	0.00	0.00	0.00	0.00
-150E	2.12	2.11	2.11	2.10	2.10	2.09	2.06	2.01	1.96	1.90	1.84	1.78	1.73	1.67	0.00	0.00	0.00	0.00	0.00
-145E	2.11	2.11	2.11	2.11	2.12	2.12	2.09	2.03	1.96	1.90	1.84	1.78	1.73	1.67	0.00	0.00	0.00	0.00	0.00
-140E	2.11	2.11	2.11	2.13	2.15	2.15	2.11	2.04	1.96	1.90	1.84	1.78	1.72	1.67	0.00	0.00	0.00	0.00	0.00
-135E	2.11	2.11	2.12	2.15	2.17	2.17	2.11	2.04	1.96	1.90	1.83	1.77	1.72	1.67	0.00	0.00	0.00	0.00	0.00
-130E	2.11	2.11	2.12	2.16	2.19	2.17	2.11	2.04	1.96	1.89	1.83	1.77	1.72	1.67	0.00	0.00	0.00	0.00	0.00
-125E	2.11	2.11	2.12	2.16	2.20	2.17	2.12	2.04	1.96	1.89	1.83	1.77	1.72	1.67	0.00	0.00	0.00	0.00	0.00
-120E	2.10	2.11	2.12	2.15	2.19	2.19	2.13	2.04	1.96	1.89	1.82	1.76	1.72	1.67	0.00	0.00	0.00	0.00	0.00
-115E	2.09	2.10	2.11	2.13	2.17	2.17	2.12	2.04	1.96	1.89	1.82	1.76	1.71	1.67	0.00	0.00	0.00	0.00	0.00
-110E	2.09	2.10	2.10	2.11	2.12	2.12	2.09	2.02	1.95	1.89	1.82	1.75	1.71	1.67	0.00	0.00	0.00	0.00	0.00
-105E	2.09	2.09	2.09	2.09	2.09	2.08	2.06	2.01	1.95	1.88	1.81	1.75	1.71	1.67	0.00	0.00	0.00	0.00	0.00
-100E	2.09	2.09	2.09	2.08	2.07	2.06	2.07	2.00	1.94	1.88	1.81	1.75	1.71	1.67	0.00	0.00	0.00	0.00	0.00
-95E	2.08	2.09	2.08	2.07	2.06	2.05	2.03	1.99	1.94	1.87	1.80	1.75	1.71	1.67	0.00	0.00	0.00	0.00	0.00
-90E	2.08	2.08	2.08	2.07	2.06	2.05	2.02	1.99	1.94	1.87	1.79	1.74	1.70	1.67	0.00	0.00	0.00	0.00	0.00
-85E	2.08	2.09	2.08	2.07	2.06	2.04	2.02	1.98	1.93	1.86	1.79	1.74	1.70	1.67	0.00	0.00	0.00	0.00	0.00
-80E	2.09	2.09	2.08	2.07	2.06	2.04	2.02	1.98	1.93	1.86	1.78	1.73	1.70	1.67	0.00	0.00	0.00	0.00	0.00
-75E	2.09	2.10	2.09	2.08	2.06	2.04	2.02	1.98	1.93	1.86	1.78	1.73	1.70	1.66	0.00	0.00	0.00	0.00	0.00
-70E	2.09	2.10	2.10	2.08	2.07	2.05	2.02	1.98	1.93	1.85	1.77	1.72	1.70	1.66	0.00	0.00	0.00	0.00	0.00
-65E	2.09	2.11	2.10	2.09	2.07	2.05	2.02	1.94	1.93	1.85	1.77	1.72	1.70	1.66	0.00	0.00	0.00	0.00	0.00
-60E	2.10	2.11	2.11	2.09	2.07	2.06	2.03	1.99	1.93	1.85	1.77	1.72	1.70	1.66	0.00	0.00	0.00	0.00	0.00
-55E	2.10	2.11	2.10	2.09	2.07	2.06	2.04	2.00	1.94	1.85	1.77	1.72	1.70	1.66	0.00	0.00	0.00	0.00	0.00
-50E	2.10	2.11	2.10	2.09	2.08	2.06	2.04	2.00	1.94	1.85	1.76	1.72	1.70	1.66	0.00	0.00	0.00	0.00	0.00
-45E	2.10	2.10	2.11	2.10	2.08	2.07	2.05	2.01	1.94	1.85	1.76	1.72	1.70	1.67	0.00	0.00	0.00	0.00	0.00
-40E	2.10	2.11	2.11	2.11	2.09	2.07	2.06	2.02	1.95	1.85	1.76	1.72	1.70	1.67	1.64	0.00	0.00	0.00	0.00
-35E	2.11	2.12	2.12	2.11	2.09	2.08	2.06	2.03	1.95	1.85	1.76	1.72	1.70	1.67	1.64	0.00	0.00	0.00	0.00
-30E	2.14	2.13	2.12	2.11	2.11	2.11	2.09	2.04	1.96	1.85	1.77	1.73							

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	1.04	1.96	1.96	1.96	1.96	1.94	1.91	1.87	1.82	1.75	1.67	1.61	1.58	1.55	1.51	0.00	0.00	0.00	1.41
5W	1.04	1.96	1.96	1.96	1.95	1.93	1.91	1.87	1.82	1.75	1.67	1.61	1.58	1.55	1.52	0.00	1.44	1.42	1.41
10W	1.05	1.96	1.96	1.96	1.95	1.93	1.91	1.87	1.82	1.75	1.67	1.61	1.58	1.55	1.52	1.49	1.45	1.42	1.41
15W	1.05	1.96	1.96	1.95	1.94	1.93	1.90	1.87	1.82	1.75	1.67	1.62	1.58	1.56	1.53	1.49	0.00	1.42	1.41
20W	1.05	1.96	1.96	1.95	1.94	1.93	1.90	1.87	1.82	1.75	1.67	1.62	1.59	1.56	1.53	1.50	1.46	1.43	1.41
25W	1.05	1.95	1.95	1.95	1.94	1.93	1.91	1.87	1.82	1.75	1.67	1.62	1.59	1.56	1.54	1.51	1.46	1.43	1.41
30W	1.05	1.95	1.95	1.95	1.94	1.93	1.91	1.87	1.82	1.75	1.68	1.62	1.59	1.57	1.54	1.51	1.47	1.43	1.41
35W	1.05	1.95	1.95	1.95	1.94	1.93	1.91	1.87	1.82	1.75	1.68	1.63	1.60	1.57	1.54	1.51	1.47	1.43	1.41
40W	1.05	1.96	1.96	1.97	1.97	1.95	1.94	1.91	1.87	1.82	1.75	1.68	1.63	1.60	1.57	1.54	1.51	1.47	1.43
45W	1.05	1.96	1.97	1.97	1.96	1.94	1.91	1.87	1.82	1.75	1.69	1.64	1.60	1.57	1.54	1.50	1.46	1.43	1.41
50W	1.04	1.96	1.98	1.98	1.97	1.95	1.92	1.87	1.82	1.75	1.69	1.64	1.61	1.57	1.53	1.50	1.46	1.43	1.41
55W	1.03	1.96	1.98	1.99	1.98	1.96	1.92	1.87	1.82	1.76	1.69	1.65	1.61	1.57	1.53	1.49	1.46	1.43	1.41
60W	1.03	1.96	1.99	2.00	1.99	1.97	1.94	1.89	1.83	1.76	1.71	1.65	1.61	1.57	1.52	1.48	1.45	1.43	1.41
65W	1.04	1.96	1.99	2.00	1.99	1.98	1.95	1.90	1.84	1.77	1.71	1.66	1.62	1.57	1.52	1.48	1.45	1.43	1.41
70W	1.04	1.96	1.98	1.99	1.98	1.97	1.95	1.90	1.83	1.77	1.71	1.66	1.62	1.57	1.52	1.47	1.45	1.43	1.41
75W	1.05	1.96	1.97	1.97	1.96	1.95	1.92	1.87	1.82	1.76	1.71	1.67	1.62	1.58	1.52	1.47	1.44	1.43	1.41
80W	1.06	1.96	1.96	1.96	1.95	1.93	1.89	1.85	1.80	1.76	1.71	1.67	1.62	1.58	1.52	1.48	1.45	1.43	1.41
85W	1.08	1.97	1.96	1.96	1.94	1.92	1.88	1.84	1.80	1.76	1.72	1.67	1.63	1.58	1.53	1.48	1.45	1.43	1.41
90W	1.08	1.97	1.97	1.96	1.94	1.92	1.89	1.85	1.80	1.76	1.72	1.67	1.63	1.58	1.53	1.49	1.45	1.43	1.41
95W	1.08	1.98	1.97	1.96	1.95	1.92	1.89	1.85	1.81	1.77	1.72	1.67	1.63	1.59	1.54	1.49	1.45	1.43	1.41
100W	1.08	1.98	1.98	1.97	1.95	1.93	1.90	1.85	1.81	1.77	1.72	1.67	1.63	1.59	1.54	1.49	1.46	1.43	1.41
105W	1.08	1.98	1.98	1.97	1.96														

TABLE 50 RADIATIVE COOLING VALUES(C/DAY) AT 500-MH - JANUARY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	1.70	1.70	1.70	1.70	1.69	1.68	1.67	1.63	1.57	1.50	1.44	1.38	1.33	1.31	1.29	0.00	0.00	0.00	1.19
5W	1.70	1.70	1.70	1.70	1.69	1.68	1.66	1.63	1.57	1.50	1.43	1.38	1.33	1.31	1.29	0.00	1.23	1.20	1.19
10W	1.70	1.70	1.70	1.69	1.68	1.67	1.66	1.62	1.57	1.50	1.43	1.38	1.33	1.31	1.29	1.26	1.23	1.20	1.19
15W	1.71	1.70	1.69	1.68	1.68	1.67	1.66	1.62	1.57	1.50	1.43	1.38	1.34	1.31	1.29	1.26	0.00	1.20	1.19
20W	1.71	1.70	1.69	1.68	1.67	1.67	1.65	1.62	1.56	1.50	1.43	1.38	1.34	1.31	1.29	1.27	1.23	1.21	1.19
25W	1.70	1.70	1.69	1.68	1.67	1.67	1.65	1.61	1.54	1.50	1.43	1.38	1.34	1.31	1.29	1.27	1.23	1.21	1.19
30W	1.70	1.70	1.68	1.68	1.67	1.67	1.65	1.61	1.56	1.50	1.43	1.38	1.34	1.31	1.30	1.27	1.24	1.21	1.19
35W	1.70	1.69	1.68	1.68	1.68	1.67	1.65	1.60	1.56	1.50	1.43	1.38	1.34	1.32	1.30	1.27	1.24	1.21	1.19
40W	1.70	1.69	1.69	1.69	1.69	1.68	1.65	1.60	1.56	1.50	1.43	1.38	1.34	1.32	1.30	1.27	1.24	1.21	1.19
45W	1.70	1.69	1.69	1.69	1.70	1.68	1.65	1.60	1.55	1.50	1.44	1.38	1.34	1.32	1.30	1.27	1.24	1.21	1.19
50W	1.69	1.69	1.70	1.70	1.70	1.69	1.65	1.60	1.55	1.50	1.44	1.38	1.34	1.32	1.30	1.28	1.25	1.21	1.19
55W	1.69	1.70	1.70	1.70	1.70	1.69	1.66	1.60	1.55	1.50	1.44	1.38	1.35	1.32	1.30	1.28	1.25	1.21	1.19
60W	1.69	1.70	1.70	1.70	1.71	1.70	1.66	1.60	1.55	1.50	1.44	1.39	1.35	1.32	1.30	1.28	1.25	1.22	1.19
65W	1.70	1.70	1.70	1.70	1.71	1.70	1.66	1.60	1.55	1.50	1.44	1.39	1.35	1.33	1.30	1.28	1.25	1.22	1.19
70W	1.70	1.70	1.70	1.70	1.70	1.70	1.66	1.61	1.55	1.50	1.44	1.39	1.35	1.33	1.30	1.28	1.25	1.22	1.19
75W	1.71	1.71	1.71	1.70	1.70	1.69	1.66	1.61	1.55	1.50	1.44	1.39	1.36	1.33	1.31	1.28	1.25	1.22	1.19
80W	1.71	1.71	1.71	1.70	1.70	1.69	1.66	1.61	1.56	1.50	1.44	1.40	1.36	1.33	1.31	1.28	1.25	1.22	1.19
85W	1.72	1.71	1.71	1.70	1.70	1.68	1.65	1.61	1.56	1.50	1.45	1.40	1.36	1.33	1.31	1.28	1.25	1.22	1.19
90W	1.72	1.72	1.71	1.70	1.70	1.68	1.65	1.61	1.56	1.50	1.45	1.40	1.36	1.33	1.31	1.28	1.25	1.22	1.19
95W	1.72	1.72	1.71	1.71	1.70	1.68	1.65	1.61	1.56	1.51	1.45	1.41	1.37	1.34	1.31	1.28	1.25	1.22	1.19
100W	1.72	1.72	1.72	1.71	1.70	1.68	1.65	1.60	1.56	1.51	1.46	1.41	1.37	1.34	1.31	1.28	1.25	1.22	1.19
105W	1.72	1.72	1.72	1.71	1.70														

TABLE 5E RADIATIVE COOLING VALUES(C/DAY) AT SURFACE-APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.76	2.76	2.74	2.20	2.18	2.16	2.14	2.09	2.03	1.95	1.87	1.81	1.76	1.70	1.47	0.00	0.00	0.00	0.81
5W	2.76	2.76	2.74	2.21	2.19	2.17	2.15	2.09	2.03	1.95	1.87	1.81	1.76	1.69	1.64	1.07	0.88	0.87	0.81
10W	2.76	2.76	2.74	2.21	2.20	2.18	2.15	2.10	2.03	1.96	1.88	1.81	1.76	1.69	1.51	1.15	0.93	0.88	0.81
15W	2.76	2.76	2.75	2.23	2.21	2.19	2.16	2.11	2.04	1.96	1.88	1.81	1.76	1.68	1.53	1.27	0.90	0.90	0.81
20W	2.75	2.76	2.75	2.23	2.22	2.20	2.16	2.11	2.04	1.97	1.88	1.81	1.75	1.67	1.55	1.38	1.09	0.92	0.81
25W	2.75	2.75	2.75	2.24	2.23	2.21	2.17	2.11	2.00	1.98	1.89	1.82	1.75	1.66	1.56	1.44	1.15	0.93	0.81
30W	2.75	2.76	2.76	2.25	2.24	2.22	2.18	2.12	2.05	1.98	1.89	1.82	1.75	1.65	1.57	1.47	1.21	0.95	0.81
35W	2.74	2.76	2.75	2.25	2.25	2.22	2.18	2.12	2.05	1.99	1.90	1.82	1.75	1.65	1.57	1.48	1.21	0.98	0.81
40W	2.75	2.76	2.74	2.20	2.22	2.22	2.19	2.12	2.05	1.99	1.91	1.83	1.75	1.64	1.57	1.48	1.22	0.98	0.81
45W	2.75	2.74	2.75	2.21	2.14	2.21	2.19	2.12	2.05	1.99	1.91	1.84	1.76	1.64	1.56	1.48	1.22	1.00	0.81
50W	2.74	2.75	2.74	2.20	2.19	2.10	2.14	2.12	2.05	1.99	1.91	1.85	1.78	1.63	1.55	1.47	1.22	1.00	0.81
55W	2.74	2.75	2.23	2.21	2.20	2.17	2.10	2.09	2.04	1.98	1.92	1.87	1.80	1.63	1.53	1.43	1.22	1.00	0.81
60W	2.76	2.24	2.22	2.20	2.22	2.16	2.12	2.06	2.04	1.99	1.94	1.90	1.82	1.66	1.48	1.36	1.22	1.02	0.81
65W	2.76	2.23	2.24	2.23	2.07	2.07	2.11	2.03	2.04	2.01	1.95	1.90	1.84	1.73	1.44	1.12	1.19	1.02	0.81
70W	2.73	2.23	2.21	2.10	2.10	2.04	2.04	2.02	1.98	1.96	1.93	1.91	1.85	1.76	1.61	1.21	1.17	1.00	0.81
75W	2.14	2.23	2.18	2.11	2.14	2.12	2.09	2.08	2.02	1.98	1.94	1.92	1.86	1.78	1.65	1.31	1.19	1.00	0.81
80W	2.18	2.19	2.18	2.18	2.16	2.14	2.12	2.09	2.05	2.00	1.95	1.91	1.86	1.78	1.66	1.34	1.17	0.98	0.81
85W	2.76	2.25	2.21	2.19	2.16	2.15	2.13	2.09	2.05	2.00	1.95	1.91	1.86	1.79	1.67	1.34	1.14	0.97	0.81
90W	2.77	2.25	2.23	2.19	2.17	2.15	2.14	2.10	2.05	2.00	1.95	1.91	1.85	1.79	1.67	1.36	1.09	0.97	0.81
95W	2.76	2.25	2.23	2.20	2.18	2.16	2.15	2.10	2.05	1.99	1.94	1.90	1.85	1.78	1.67	1.36	1.07	0.97	0.81
100W	2.76	2.25	2.23	2.20	2.19	2.18	2.16	2.11	2.05	1.99	1.94	1.90	1.85	1.78	1.68	1.38	1.07	0.98	0.81
105W	2.76	2.25	2.23	2.21	2.21	2.21	2.16	2.12	2.05	1.99	1.94	1.90	1.85	1.78	1.68	1.39	1.10	1.00	0.81
110W	2.75	2.25	2.23	2.23	2.22	2.20	2.17	2.12	2.05	1.99	1.94	1.90	1.85	1.78	1.68	1.39	1.17	1.02	0.81
115W	2.75	2.25	2.24	2.24	2.23	2.21	2.17	2.12	2.05	1.99	1.94	1.90	1.85	1.78	1.67	1.39	1.22	1.04	0.81
120W	2.76	2.25	2.25	2.25	2.24	2.21	2.17	2.12	2.05	1.99	1.94	1.90	1.85	1.78	1.67	1.39	1.27	1.05	0.81
125W	2.75	2.25	2.26	2.25	2.24	2.21	2.17	2.12	2.05	1.99	1.94	1.90	1.85	1.78	1.67	1.41	1.32	1.14	0.81
130W	2.75	2.26	2.26	2.26	2.25	2.21	2.17	2.12	2.05	1.99	1.95	1.90	1.85	1.78	1.68	1.43	1.34	1.17	0.81
135W	2.75	2.26	2.27	2.27	2.25	2.21	2.16	2.11	2.05	1.99	1.95	1.90	1.85	1.78	1.68	1.43	1.34	1.17	0.81
140W	2.76	2.27	2.28	2.27	2.25	2.21	2.16	2.11	2.05	2.00	1.95	1.90	1.85	1.78	1.68	1.44	1.34	1.21	0.81
145W	2.76	2.27	2.28	2.27	2.25	2.21	2.16	2.11	2.05	2.00	1.95	1.90	1.85	1.78	1.68	1.46	1.34	1.22	0.81
150W	2.76	2.28	2.28	2.27	2.25	2.21	2.16	2.10	2.05	2.00	1.95	1.90	1.84	1.78	1.67	1.46	1.36	1.22	0.81
155W	2.77	2.28	2.28	2.27	2.25	2.21	2.16	2.10	2.06	2.00	1.96	1.90	1.84	1.77	1.67	1.46	1.36	1.24	0.81
160W	2.78	2.28	2.28	2.27	2.25	2.21	2.16	2.10	2.06	2.00	1.96	1.90	1.84	1.77	1.67	1.48	1.38	1.26	0.81
165W	2.78	2.28	2.28	2.27	2.25	2.21	2.16	2.11	2.06	2.00	1.96	1.90	1.84	1.77	1.66	1.49	1.38	1.26	0.81
170W	2.78	2.28	2.28	2.27	2.25	2.21	2.16	2.11	2.06	2.00	1.96	1.90	1.83	1.77	1.66	1.49	1.39	1.26	0.81
175W	2.78	2.28	2.28	2.27	2.25	2.21	2.16	2.11	2.06	2.00	1.96	1.90	1.83	1.76	1.65	1.49	1.39	1.24	0.81
180W	2.76	2.28	2.28	2.27	2.25	2.21	2.16	2.11	2.06	2.00	1.95	1.90	1.83	1.76	1.64	1.51	1.38	1.24	0.81
185W	2.76	2.28	2.28	2.27	2.25	2.21	2.16	2.11	2.06	2.00	1.95	1.89	1.83	1.75	1.61	1.51	1.38	1.21	0.81
175E	2.74	2.28	2.24	2.27	2.25	2.21	2.16	2.12	2.07	1.97	1.95	1.89	1.83	1.75	1.58	1.49	1.36	1.19	0.81
170E	2.74	2.28	2.24	2.27	2.25	2.21	2.16	2.12	2.07	1.97	1.95	1.89	1.83	1.75	1.56	1.46	1.31	1.15	0.81
165E	2.77	2.28	2.26	2.27	2.25	2.21	2.17	2.12	2.07	2.02	1.95	1.89	1.82	1.73	1.51	0.00	0.00	0.00	0.00
160E	2.77	2.28	2.28	2.27	2.25	2.21	2.17	2.12	2.07	2.02	1.95	1.89	1.82	1.73	1.51	0.00	0.00	0.00	0.00
155E	2.76	2.28	2.28	2.27	2.24	2.20	2.16	2.12	2.07	2.01	1.95	1.88	1.82	1.72	1.44	0.00	0.00	0.00	0.00
150E	2.76	2.28	2.27	2.26	2.23	2.14	2.11	2.06	2.06	2.01	1.95	1.88	1.81	1.70	0.00	0.00	0.00	0.00	0.00
145E	2.76	2.20	2.27	2.25	2.21	2.18	2.13	2.08	2.05	2.00	1.94	1.88	1.81	1.69	0.00	0.00	0.00	0.00	0.00
140E	2.76	2.21	2.27	2.26	2.24	2.18	2.12	2.07	2.05	2.00	1.94	1.87	1.80	1.68	0.00	0.00	0.00	0.00	0.00
135E	2.77	2.26	2.26	2.26	2.21	2.16	2.12	2.08	2.05	1.99	1.93	1.86	1.79	1.66	0.00	0.00	0.00	0.00	0.00
130E	2.78	2.27	2.28	2.28	2.21	2.16	2.11	2.09	2.05	1.99	1.92	1.86	1.78	1.65	0.00	0.00	0.00	0.00	0.00
125E	2.76	2.28	2.28	2.28	2.23	2.16	2.12	2.09	2.04	1.98	1.92	1.85	1.75	1.65	0.00	0.00	0.00	0.00	0.00
120E	2.76	2.28	2.28	2.28	2.26	2.19	2.13	2.09	2.04	1.97	1.91	1.85	1.77	1.64	0.00	0.00	0.00	0.00	0.00
115E	2.77	2.28	2.23	2.26	2.27	2.20	2.14	2.10	2.03	1.96	1.90	1.84	1.77	1.64	0.00	0.00	0.00	0.00	0.00
110E	2.77	2.28	2.28	2.27	2.25	2.20	2.15	2.09	2.03	1.96	1.90	1.84	1.76	1.64	0.00	0.00	0.00	0.00	0.00
105E	2.77	2.28	2.28	2.26	2.23	2.19	2.13	2.08	2.02	1.96	1.89	1.83	1.76	1.64	0.00	0.00	0.00	0.00	0.00
100E	2.76	2.28	2.28	2.25	2.22	2.18	2.13	2.09	2.03	1.91	1.89	1.83	1.76	1.64	0.00	0.00	0.00	0.00	0.00
95E	2.77	2.28	2.27	2.25	2.22	2.18	2.13	2.09	2.03	1.91	1.89	1.83	1.75	1.65	0.00	0.00	0.00	0.00	0.00
90E	2.78	2.28	2.27	2.25	2.22	2.19	2.15	2.09	2.04	1.96	1.89	1.83	1.75	1.65	0.00	0.00	0.00	0.00	0.00
85E	2.78	2.28	2.27	2.25	2.23	2.19	2.15	2.10	2.04	1.95	1.89	1.82	1.75	1.70	0.00	0.00	0.00	0.00	0.00
80E	2.78	2.28	2.28	2.26	2.23	2.20	2.16	2.10	2.04	1.96	1.89	1.82	1.76	1.67	0.00	0.00	0.00	0.00	0.00
75E	2.78	2.28	2.25	2.26	2.24	2.21	2.16	2.11	2.04	1.96	1.88	1.82	1.76	1.67	0.00	0.00	0.00	0.00	0.00
70E	2.78	2.28	2.28	2.26	2.24	2.21	2.17	2.11	2.04	1.96	1.88	1.82	1.76	1.67	0.00	0.00	0.00	0.00	0.00
65E	2.78	2.29	2.27	2.26	2.24	2.21	2.17	2.12	2.04	1.95	1.88	1.82	1.76	1.66	0.00	0.00	0.00	0.00	0.00
60E	2.79	2.29	2.27	2.26	2.25	2.22	2.17	2.12	2.04	1.95	1.87	1.82	1.76	1.65	0.00	0.00	0.00	0.00	0.00
55E	2.79	2.29	2.27	2.26	2.25	2.22	2.18	2.12	2.04	1.94	1.87	1.82	1.77	1.66	0.00	0.00	0.00	0.00	0.00
50E	2.79	2.29	2.27	2.26	2.24	2.22	2.18	2.12	2.04	1.94	1.87	1.82	1.77	1.67	0.00	0.00	0.00	0.00	0.00
45E	2.79	2.29	2.28	2.26	2.21	2.20	2.19	2.13	2.04	1.93	1.87	1.82	1.77	1.69	0.00	0.00	0.00	0.00	0.00
40E	2.31	2.28	2.27	2.25	2.26	2.23	2.20	2.14	2.05	1.94	1.8								

TABLE 5F RADIATIVE COOLING VALUES(C/DAY) AT 850-MB -APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.11	2.11	2.11	2.10	2.08	2.05	2.00	1.95	1.89	1.83	1.77	1.71	1.65	1.59	1.53	0.00	0.00	0.00	1.15
5N	2.11	2.11	2.10	2.09	2.07	2.04	2.00	1.95	1.89	1.84	1.78	1.71	1.65	1.60	1.54	1.46	2.25	1.20	1.15
10N	2.11	2.10	2.09	2.07	2.05	2.03	1.99	1.94	1.89	1.84	1.78	1.72	1.66	1.60	1.54	1.48	2.24	1.21	1.15
15N	2.10	2.09	2.08	2.06	2.05	2.03	1.99	1.95	1.89	1.84	1.78	1.72	1.66	1.60	1.55	1.49	0.00	1.21	1.15
20N	2.10	2.09	2.07	2.06	2.05	2.03	1.99	1.95	1.89	1.84	1.79	1.72	1.66	1.61	1.56	1.50	2.22	1.22	1.15
25N	2.10	2.09	2.07	2.06	2.04	2.03	1.99	1.95	0.00	1.84	1.81	1.73	1.66	1.61	1.57	1.51	2.21	1.22	1.15
30N	2.10	2.09	2.08	2.06	2.05	2.03	2.00	1.95	1.90	1.85	1.79	1.73	1.66	1.61	1.58	1.52	2.20	1.23	1.15
35N	2.10	2.09	2.08	2.07	2.05	2.03	2.00	1.95	1.90	1.85	1.79	1.73	1.66	1.61	1.58	1.53	2.19	1.23	1.15
40N	2.09	2.09	2.09	2.08	2.06	2.03	2.00	1.96	1.91	1.85	1.80	1.73	1.67	1.62	1.58	1.53	2.19	1.23	1.15
45N	2.09	2.10	2.10	2.09	2.07	2.04	2.00	1.96	1.91	1.86	1.80	1.74	1.67	1.62	1.59	1.53	2.19	1.23	1.15
50N	2.09	2.10	2.11	2.10	2.08	2.05	2.01	1.96	1.92	1.87	1.81	1.74	1.68	1.63	1.59	1.53	2.19	1.23	1.15
55N	2.09	2.10	2.11	2.11	2.09	2.06	2.02	1.96	1.92	1.87	1.81	1.74	1.69	1.64	1.59	1.53	2.20	1.23	1.15
60N	2.09	2.10	2.11	2.11	2.10	2.07	2.03	1.97	1.92	1.87	1.81	1.75	1.69	1.65	1.59	1.52	2.21	1.22	1.15
65N	2.09	2.10	2.11	2.11	2.10	2.08	2.04	1.98	1.92	1.87	1.81	1.76	1.71	1.66	1.60	1.51	2.23	1.21	1.15
70N	2.09	2.10	2.11	2.11	2.10	2.09	2.05	1.99	1.92	1.86	1.81	1.76	1.71	1.66	1.60	1.51	2.23	1.21	1.15
75N	2.09	2.10	2.10	2.10	2.09	2.08	2.05	1.99	1.91	1.85	1.81	1.76	1.71	1.66	1.60	1.50	2.25	1.21	1.15
80N	2.09	2.10	2.09	2.09	2.08	2.06	2.03	1.99	1.91	1.84	1.80	1.76	1.71	1.66	1.59	1.49	2.26	1.21	1.15
85N	2.10	2.10	2.09	2.07	2.06	2.04	2.02	1.97	1.90	1.84	1.80	1.76	1.71	1.66	1.59	1.48	2.26	1.20	1.15
90N	2.11	2.10	2.09	2.07	2.05	2.03	2.00	1.96	1.90	1.84	1.80	1.75	1.71	1.66	1.59	1.57	2.27	1.20	1.15
95N	2.11	2.10	2.09	2.07	2.05	2.03	2.00	1.95	1.90	1.85	1.80	1.75	1.71	1.66	1.59	1.48	2.27	1.20	1.15
100N	2.12	2.11	2.09	2.07	2.05	2.03	2.00	1.95	1.90	1.85	1.80	1.75	1.70	1.66	1.59	1.48	2.26	1.21	1.15
105N	2.12	2.11	2.10	2.08	2.05	2.03	1.99	1.95	1.90	1.85	1.80	1.75	1.70	1.66	1.59	1.48	2.25	1.22	1.15
110N	2.13	2.11	2.10	2.08	2.06	2.03	1.99	1.95	1.90	1.85	1.80	1.75	1.70	1.65	1.59	1.49	2.24	1.22	1.15
115N	2.13	2.12	2.10	2.08	2.06	2.03	1.99	1.95	1.90	1.85	1.80	1.75	1.70	1.65	1.59	1.49	2.24	1.22	1.15
120N	2.13	2.12	2.10	2.08	2.06	2.03	1.99	1.95	1.90	1.84	1.79	1.75	1.70	1.65	1.59	1.50	2.23	1.23	1.15
125N	2.13	2.12	2.11	2.09	2.06	2.03	1.99	1.95	1.90	1.85	1.79	1.75	1.69	1.65	1.59	1.51	2.21	1.24	1.15
130N	2.13	2.12	2.11	2.09	2.06	2.03	2.00	1.95	1.90	1.85	1.79	1.74	1.69	1.65	1.59	1.52	2.20	1.25	1.15
135N	2.13	2.12	2.11	2.09	2.07	2.03	2.00	1.95	1.90	1.85	1.79	1.74	1.69	1.64	1.59	1.52	2.19	1.26	1.15
140N	2.13	2.12	2.12	2.10	2.07	2.03	2.00	1.95	1.90	1.85	1.80	1.75	1.69	1.64	1.59	1.53	2.17	1.27	1.15
145N	2.12	2.12	2.12	2.10	2.07	2.03	2.00	1.95	1.91	1.86	1.80	1.75	1.69	1.64	1.59	1.53	2.16	1.28	1.15
150N	2.12	2.12	2.12	2.10	2.07	2.03	1.99	1.95	1.91	1.86	1.81	1.75	1.69	1.64	1.59	1.54	2.15	1.29	1.15
155N	2.11	2.12	2.12	2.10	2.08	2.03	1.99	1.95	1.91	1.86	1.81	1.75	1.69	1.64	1.58	1.54	2.14	1.30	1.15
160N	2.11	2.11	2.07	2.11	2.08	2.03	1.99	1.95	1.91	1.86	1.81	1.76	1.70	1.64	1.58	1.53	2.14	1.31	1.15
165N	2.11	2.11	2.12	2.11	2.08	2.03	1.99	1.95	1.91	1.87	1.82	1.76	1.70	1.63	1.57	1.53	2.14	1.31	1.15
170N	2.10	2.11	2.12	2.11	2.08	2.03	1.98	1.95	1.91	1.87	1.82	1.76	1.70	1.63	1.56	1.52	2.14	1.31	1.15
175N	2.10	2.11	2.12	2.11	2.08	2.03	1.98	1.94	1.91	1.87	1.83	1.77	1.70	1.63	1.55	1.50	2.15	1.31	1.15
180N	2.11	2.11	2.12	2.11	2.08	2.03	1.98	1.94	1.91	1.88	1.83	1.77	1.70	1.62	1.53	1.48	2.16	1.31	1.15
175E	2.11	2.11	2.12	2.11	2.07	2.02	1.97	1.94	1.91	1.88	1.83	1.77	1.70	1.61	1.51	1.46	2.17	1.31	1.15
170E	2.11	2.11	2.11	2.10	2.06	2.01	1.97	1.93	1.91	1.88	1.83	1.77	1.70	1.60	1.49	1.44	2.18	1.30	1.15
165E	2.11	2.11	2.10	2.09	2.05	2.01	1.97	1.93	1.90	1.87	1.83	1.77	1.70	1.59	1.48	1.42	2.20	1.30	1.15
160E	2.11	2.10	2.09	2.08	2.04	2.00	1.97	1.93	1.90	1.87	1.82	1.76	1.69	1.59	1.46	0.00	0.00	0.00	0.00
155E	2.11	2.10	2.09	2.07	2.04	2.00	1.97	1.93	1.90	1.86	1.82	1.76	1.69	1.58	1.45	0.00	0.00	0.00	0.00
150E	2.11	2.10	2.09	2.07	2.05	2.02	1.98	1.93	1.89	1.86	1.81	1.76	1.69	1.58	0.00	0.00	0.00	0.00	0.00
145E	2.10	2.09	2.09	2.08	2.07	2.06	1.99	1.94	1.89	1.85	1.81	1.75	1.68	1.58	0.00	0.00	0.00	0.00	0.00
140E	2.10	2.10	2.10	2.10	2.09	2.09	2.06	2.00	1.94	1.89	1.85	1.80	1.74	1.68	1.58	0.00	0.00	0.00	0.00
135E	2.11	2.10	2.10	2.11	2.11	2.07	2.00	1.94	1.89	1.85	1.79	1.74	1.67	1.58	0.00	0.00	0.00	0.00	0.00
130E	2.11	2.10	2.10	2.12	2.12	2.08	2.00	1.94	1.89	1.84	1.79	1.74	1.67	1.57	0.00	0.00	0.00	0.00	0.00
125E	2.11	2.10	2.10	2.12	2.12	2.08	2.01	1.94	1.89	1.84	1.79	1.73	1.67	1.57	0.00	0.00	0.00	0.00	0.00
120E	2.11	2.10	2.10	2.12	2.12	2.08	2.01	1.94	1.89	1.84	1.79	1.73	1.66	1.57	0.00	0.00	0.00	0.00	0.00
115E	2.10	2.09	2.09	2.11	2.12	2.08	2.00	1.94	1.89	1.84	1.78	1.72	1.66	1.57	0.00	0.00	0.00	0.00	0.00
110E	2.10	2.09	2.09	2.11	2.10	2.06	2.00	1.94	1.89	1.84	1.77	1.71	1.65	1.58	0.00	0.00	0.00	0.00	0.00
105E	2.10	2.09	2.09	2.10	2.08	2.05	2.00	1.94	1.89	1.83	1.77	1.71	1.64	1.56	0.00	0.00	0.00	0.00	0.00
100E	2.10	2.10	2.09	2.09	2.07	2.04	1.99	1.94	1.89	1.83	1.77	1.70	1.64	1.56	0.00	0.00	0.00	0.00	0.00
95E	2.10	2.10	2.09	2.08	2.06	2.03	1.99	1.94	1.89	1.83	1.77	1.70	1.64	1.56	0.00	0.00	0.00	0.00	0.00
90E	2.10	2.10	2.09	2.07	2.04	2.03	1.99	1.95	1.89	1.83	1.77	1.70	1.63	1.55	0.00	0.00	0.00	0.00	0.00
85E	2.10	2.10	2.09	2.07	2.04	2.03	1.99	1.95	1.89	1.83	1.76	1.70	1.63	1.55	0.00	0.00	0.00	0.00	0.00
80E	2.10	2.10	2.09	2.08	2.06	2.03	1.99	1.95	1.89	1.83	1.76	1.70	1.63	1.55	0.00	0.00	0.00	0.00	0.00
75E	2.11	2.10	2.10	2.08	2.06	2.03	1.99	1.95	1.89	1.83	1.76	1.70	1.63	1.55	0.00	0.00	0.00	0.00	0.00
70E	2.12	2.12	2.11	2.09	2.06	2.03	1.99	1.95	1.89	1.83	1.76	1.70	1.63	1.55	0.00	0.00	0.00	0.00	0.00
65E	2.14	2.13	2.11	2.09	2.07	2.03	2.00	1.95	1.89	1.83	1.76	1.70	1.63	1.55	0.00	0.00	0.00	0.00	0.00
60E	2.15	2.13	2.11	2.09	2.06	2.04	2.00	1.95	1.90	1.83	1.76	1.70	1.63	1.55	0.00	0.00	0.00	0.00	0.00
55E	2.14	2.12	2.10	2.08	2.06	2.04	2.01	1.96	1.90	1.83	1.76	1.70	1.63	1.55	0.00	0.00	0.00	0.00	0.00
50E	2.14	2.11	2.09	2.08	2.06	2.04	2.01	1.96	1.90	1.83	1.76	1.70	1.63	1.54	0.00	0.00	0.00	0.00	0.00
45E	2.13	2.11	2.09	2.08	2.07	2.05	2.02	1.97	1.91	1.83	1.76	1.70	1.64	1.57	0.00	0.00	0.00	0.00	0.00
40E	2.13	2.10	2.09	2.08	2.07	2.05	2.03	1.99	1.92	1.83	1.76	1.70	1.64	1.58	1.50	0.00	0.00	0.00	0.00
35E	2.13	2.11	2.09	2.08	2.06	2.05	2.03	1.99	1.92	1.83	1.76	1.70							

TABLE 56 RADIATIVE COOLING VALUES(C/DAY) AT 700-MH -APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905	
0	1.97	1.98	1.98	1.98	1.96	1.93	1.89	1.84	1.78	1.72	1.65	1.57	1.51	1.47	1.42	0.00	0.00	0.00	1.31	
5N	1.97	1.97	1.98	1.97	1.95	1.92	1.88	1.83	1.78	1.72	1.65	1.57	1.51	1.47	1.43	1.38	1.34	1.32	1.31	
10N	1.96	1.97	1.97	1.97	1.95	1.91	1.87	1.83	1.78	1.72	1.65	1.58	1.52	1.47	1.43	1.39	1.35	1.32	1.31	
15N	1.96	1.97	1.97	1.96	1.94	1.91	1.87	1.83	1.78	1.72	1.65	1.58	1.52	1.48	1.44	1.40	0.00	1.33	1.31	
20N	1.96	1.96	1.96	1.96	1.94	1.91	1.87	1.83	1.78	1.72	1.65	1.58	1.53	1.48	1.44	1.40	1.36	1.33	1.31	
25N	1.96	1.96	1.96	1.96	1.94	1.91	1.87	1.83	0.00	1.72	1.66	1.59	1.53	1.49	1.45	1.41	1.37	1.33	1.31	
30N	1.95	1.96	1.96	1.96	1.94	1.90	1.87	1.83	1.78	1.72	1.66	1.59	1.54	1.50	1.46	1.42	1.38	1.34	1.31	
35N	1.95	1.95	1.95	1.96	1.94	1.90	1.87	1.83	1.78	1.72	1.66	1.60	1.55	1.51	1.47	1.43	1.39	1.34	1.31	
40N	1.95	1.95	1.96	1.96	1.94	1.90	1.86	1.83	1.78	1.72	1.67	1.60	1.55	1.51	1.47	1.43	1.39	1.34	1.31	
45N	1.95	1.96	1.96	1.97	1.95	1.91	1.86	1.82	1.78	1.72	1.67	1.61	1.56	1.52	1.48	1.44	1.39	1.35	1.31	
50N	1.95	1.96	1.97	1.97	1.96	1.92	1.87	1.82	1.78	1.73	1.67	1.61	1.56	1.52	1.49	1.44	1.40	1.35	1.31	
55N	1.95	1.96	1.94	1.98	1.97	1.93	1.89	1.83	1.78	1.73	1.67	1.61	1.57	1.53	1.49	1.45	1.40	1.35	1.31	
60N	1.95	1.97	1.98	1.98	1.98	1.95	1.90	1.84	1.78	1.73	1.67	1.62	1.58	1.54	1.50	1.45	1.40	1.35	1.31	
65N	1.95	1.96	1.98	1.98	1.98	1.97	1.92	1.85	1.78	1.72	1.67	1.62	1.58	1.54	1.50	1.46	1.41	1.36	1.31	
70N	1.95	1.96	1.97	1.98	1.98	1.97	1.93	1.85	1.78	1.72	1.67	1.63	1.59	1.55	1.50	1.46	1.41	1.36	1.31	
75N	1.95	1.96	1.97	1.98	1.97	1.95	1.90	1.84	1.77	1.72	1.67	1.63	1.59	1.55	1.51	1.46	1.41	1.36	1.31	
80N	1.97	1.97	1.97	1.97	1.97	1.95	1.92	1.88	1.82	1.77	1.72	1.68	1.64	1.60	1.56	1.51	1.46	1.41	1.36	1.31
85N	1.97	1.98	1.98	1.97	1.94	1.90	1.86	1.82	1.78	1.73	1.69	1.65	1.60	1.56	1.51	1.46	1.41	1.36	1.31	
90N	1.99	1.98	1.98	1.97	1.93	1.89	1.84	1.81	1.78	1.74	1.70	1.65	1.60	1.56	1.51	1.46	1.41	1.36	1.31	
95N	1.99	1.99	1.98	1.96	1.93	1.88	1.84	1.82	1.79	1.75	1.71	1.66	1.61	1.56	1.51	1.46	1.41	1.36	1.31	
100N	2.00	1.99	1.98	1.97	1.93	1.88	1.84	1.82	1.80	1.76	1.71	1.66	1.61	1.56	1.51	1.46	1.41	1.36	1.31	
105N	2.00	1.99	1.98	1.97	1.93	1.88	1.85	1.83	1.80	1.76	1.71	1.66	1.61	1.56	1.51	1.46	1.41	1.36	1.31	
110N	2.00	1.99	1.99	1.97	1.93	1.89	1.86	1.83	1.81	1.77	1.72	1.66	1.61	1.56	1.51	1.46	1.41	1.36	1.31	
115N	2.00	1.99	1.99	1.97	1.93	1.89	1.86	1.84	1.81	1.77	1.72	1.66	1.61	1.56	1.51	1.46	1.41	1.36	1.31	
120N	2.00	1.99	1.99	1.97	1.93	1.90	1.87	1.84	1.81	1.77	1.72	1.66	1.61	1.56	1.51	1.46	1.41	1.36	1.31	
125N	2.00	2.00	1.99	1.97	1.93	1.90	1.87	1.84	1.81	1.77	1.71	1.66	1.61	1.56	1.51	1.46	1.40	1.35	1.31	
130N	2.00	1.99	1.99	1.97	1.94	1.90	1.87	1.84	1.81	1.76	1.71	1.66	1.61	1.56	1.51	1.45	1.40	1.35	1.31	
135N	2.00	1.99	1.98	1.97	1.94	1.91	1.88	1.85	1.81	1.77	1.71	1.66	1.61	1.56	1.51	1.45	1.40	1.35	1.31	
140N	1.99	1.99	1.98	1.97	1.94	1.91	1.88	1.85	1.81	1.76	1.71	1.66	1.61	1.56	1.51	1.45	1.40	1.35	1.31	
145N	1.99	1.98	1.98	1.97	1.94	1.91	1.88	1.85	1.81	1.76	1.71	1.66	1.61	1.56	1.51	1.45	1.39	1.35	1.31	
150N	1.98	1.98	1.98	1.97	1.95	1.92	1.88	1.85	1.81	1.76	1.71	1.66	1.61	1.56	1.51	1.44	1.39	1.34	1.31	
155N	1.98	1.98	1.98	1.97	1.95	1.92	1.89	1.85	1.81	1.76	1.70	1.66	1.61	1.56	1.50	1.44	1.38	1.34	1.31	
160N	1.97	1.98	1.98	1.97	1.95	1.92	1.89	1.84	1.81	1.76	1.70	1.65	1.61	1.56	1.50	1.43	1.38	1.34	1.31	
165N	1.97	1.98	1.98	1.97	1.95	1.93	1.89	1.84	1.80	1.75	1.70	1.65	1.61	1.56	1.49	1.43	1.37	1.33	1.31	
170N	1.97	1.98	1.98	1.97	1.96	1.93	1.89	1.84	1.80	1.75	1.70	1.65	1.60	1.55	1.48	1.42	1.36	1.33	1.31	
175N	1.97	1.98	1.98	1.97	1.96	1.93	1.88	1.84	1.79	1.75	1.70	1.65	1.60	1.54	1.47	1.41	1.36	1.33	1.31	
180N	1.96	1.97	1.98	1.97	1.95	1.92	1.87	1.83	1.79	1.75	1.70	1.65	1.60	1.54	1.46	1.40	1.35	1.32	1.31	
-175E	1.96	1.97	1.98	1.97	1.95	1.91	1.87	1.82	1.79	1.75	1.70	1.65	1.59	1.53	1.45	1.38	1.34	1.32	1.31	
-170E	1.96	1.97	1.98	1.97	1.95	1.91	1.86	1.82	1.78	1.75	1.70	1.65	1.59	1.52	1.44	1.37	1.33	1.31	1.31	
-165E	1.96	1.97	1.97	1.96	1.94	1.90	1.85	1.82	1.78	1.74	1.70	1.65	1.58	1.51	1.42	1.36	1.32	1.31	1.31	
-160E	1.95	1.96	1.97	1.96	1.94	1.89	1.85	1.81	1.78	1.74	1.70	1.64	1.57	1.50	1.41	0.00	1.31	0.00	0.00	
-155E	1.95	1.96	1.96	1.96	1.93	1.89	1.84	1.81	1.78	1.74	1.69	1.64	1.57	1.49	1.40	0.00	0.00	0.00	0.00	
-150E	1.95	1.95	1.96	1.96	1.93	1.88	1.84	1.81	1.77	1.73	1.69	1.63	1.56	1.48	0.00	0.00	0.00	0.00	0.00	
-145E	1.95	1.95	1.96	1.96	1.93	1.88	1.84	1.81	1.77	1.73	1.69	1.63	1.56	1.48	0.00	0.00	0.00	0.00	0.00	
-140E	1.95	1.95	1.96	1.95	1.93	1.88	1.84	1.81	1.77	1.73	1.68	1.62	1.55	1.47	0.00	0.00	0.00	0.00	0.00	
-135E	1.95	1.95	1.96	1.95	1.93	1.89	1.85	1.81	1.78	1.73	1.68	1.62	1.55	1.47	0.00	0.00	0.00	0.00	0.00	
-130E	1.95	1.95	1.96	1.95	1.93	1.89	1.86	1.82	1.78	1.73	1.67	1.61	1.55	1.47	0.00	0.00	0.00	0.00	0.00	
-125E	1.95	1.96	1.97	1.96	1.93	1.90	1.86	1.83	1.78	1.73	1.67	1.60	1.54	1.47	0.00	0.00	0.00	0.00	0.00	
-120E	1.95	1.96	1.97	1.96	1.93	1.90	1.87	1.83	1.78	1.73	1.67	1.60	1.53	1.47	0.00	0.00	0.00	0.00	0.00	
-115E	1.95	1.97	1.98	1.96	1.93	1.90	1.87	1.83	1.79	1.73	1.66	1.60	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-110E	1.95	1.97	1.98	1.96	1.93	1.90	1.86	1.83	1.79	1.73	1.66	1.59	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-105E	1.95	1.97	1.97	1.96	1.93	1.89	1.86	1.84	1.79	1.73	1.66	1.59	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-100E	1.95	1.96	1.97	1.95	1.92	1.89	1.86	1.84	1.79	1.73	1.66	1.59	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-95E	1.95	1.96	1.96	1.95	1.92	1.89	1.86	1.84	1.79	1.73	1.66	1.59	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-90E	1.95	1.96	1.96	1.95	1.92	1.89	1.86	1.84	1.79	1.73	1.66	1.59	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-85E	1.95	1.96	1.96	1.95	1.92	1.89	1.87	1.84	1.79	1.73	1.66	1.59	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-80E	1.96	1.96	1.96	1.95	1.93	1.90	1.87	1.84	1.79	1.73	1.65	1.59	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-75E	1.96	1.97	1.96	1.95	1.93	1.90	1.87	1.84	1.79	1.73	1.65	1.59	1.53	1.46	0.00	0.00	0.00	0.00	0.00	
-70E	1.97	1.97	1.97	1.96	1.93	1.90	1.87	1.84	1.79	1.73	1.65	1.59	1.52	1.46	0.00	0.00	0.00	0.00	0.00	
-65E	1.97	1.98	1.98	1.96	1.94	1.91	1.88	1.84	1.80	1.73	1.65	1.58	1.52	1.46	0.00	0.00	0.00	0.00	0.00	
-60E	1.97	1.98	1.98	1.96	1.94	1.91	1.88	1.84	1.80	1.73	1.65	1.58	1.52	1.46	0.00	0.00	0.00	0.00	0.00	
-55E	1.96	1.97	1.97	1.96	1.94	1.91	1.88	1.85	1.80	1.73	1.65	1.58	1.52	1.46	0.00	0.00	0.00	0.00	0.00	
-50E	1.97	1.97	1.97	1.95	1.94	1.91	1.89	1.85	1.80	1.73	1.65	1.58	1.52	1.46	0.00	0.00	0.00	0.00	0.00	
-45E	1.97	1.96	1.96	1.95	1.93	1.91	1.89	1.85	1.80	1.73	1.65	1.58	1.52	1.46	0.00	0.00	0.00	0.00	0.00	
-40E	1.97	1.95	1.95	1.94	1.93	1.91	1.89	1.85	1.80	1.73	1.65	1.58	1.52	1.46	0.00	0.00	0.00	0.00	0.00	
-35E	1.96	1.95	1.95	1.94	1.93	1.91	1.89	1.85	1.80											

TABLE 5H RADIATIVE COOLING VALUES(C/DAY) AT 500-MH -APRIL

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	1.70	1.70	1.70	1.70	1.68	1.66	1.62	1.57	1.51	1.45	1.39	1.34	1.29	1.24	1.19	0.00	0.00	0.00	1.09
5W	1.71	1.71	1.70	1.70	1.68	1.65	1.61	1.57	1.51	1.45	1.39	1.34	1.29	1.24	1.19	1.18	1.11	1.09	1.09
10W	1.71	1.71	1.70	1.69	1.67	1.65	1.61	1.57	1.51	1.45	1.39	1.34	1.29	1.25	1.19	1.15	1.12	1.10	1.09
15W	1.71	1.71	1.70	1.69	1.67	1.64	1.61	1.56	1.51	1.45	1.39	1.33	1.29	1.25	1.20	1.16	0.00	1.10	1.09
20W	1.72	1.71	1.70	1.68	1.66	1.64	1.61	1.56	1.51	1.45	1.39	1.34	1.29	1.25	1.21	1.16	1.13	1.10	1.09
25W	1.72	1.71	1.70	1.68	1.66	1.64	1.60	1.56	0.00	1.45	1.39	1.34	1.30	1.26	1.21	1.17	1.13	1.10	1.09
30W	1.72	1.71	1.70	1.68	1.66	1.63	1.60	1.56	1.51	1.45	1.39	1.34	1.30	1.26	1.22	1.18	1.14	1.11	1.09
35W	1.71	1.71	1.70	1.68	1.66	1.63	1.60	1.56	1.51	1.45	1.44	1.34	1.30	1.26	1.22	1.18	1.14	1.11	1.09
40W	1.71	1.70	1.70	1.68	1.66	1.64	1.60	1.56	1.51	1.45	1.39	1.34	1.30	1.26	1.23	1.19	1.15	1.11	1.09
45W	1.71	1.70	1.70	1.69	1.67	1.64	1.61	1.56	1.51	1.45	1.39	1.34	1.30	1.26	1.23	1.19	1.15	1.12	1.09
50W	1.70	1.70	1.71	1.70	1.69	1.66	1.61	1.56	1.50	1.45	1.39	1.34	1.30	1.27	1.23	1.19	1.15	1.12	1.09
55W	1.70	1.71	1.72	1.71	1.70	1.66	1.62	1.56	1.50	1.45	1.39	1.34	1.30	1.27	1.23	1.20	1.16	1.12	1.09
60W	1.69	1.71	1.72	1.72	1.70	1.67	1.62	1.56	1.50	1.45	1.39	1.35	1.31	1.27	1.24	1.20	1.16	1.12	1.09
65W	1.69	1.71	1.72	1.72	1.70	1.67	1.62	1.56	1.50	1.44	1.39	1.35	1.31	1.27	1.24	1.20	1.16	1.12	1.09
70W	1.69	1.70	1.71	1.71	1.69	1.66	1.61	1.56	1.50	1.44	1.39	1.35	1.31	1.28	1.24	1.20	1.16	1.13	1.09
75W	1.70	1.70	1.70	1.70	1.68	1.65	1.61	1.55	1.50	1.45	1.40	1.35	1.31	1.28	1.24	1.21	1.17	1.13	1.09
80W	1.71	1.70	1.70	1.69	1.67	1.65	1.60	1.55	1.50	1.45	1.40	1.36	1.32	1.28	1.24	1.21	1.17	1.13	1.09
85W	1.71	1.70	1.70	1.68	1.67	1.65	1.60	1.55	1.50	1.45	1.40	1.36	1.32	1.28	1.25	1.21	1.17	1.13	1.09
90W	1.71	1.70	1.69	1.68	1.67	1.65	1.60	1.55	1.50	1.45	1.41	1.36	1.32	1.29	1.25	1.21	1.17	1.13	1.09
95W	1.71	1.70	1.69	1.68	1.67	1.65	1.60	1.55	1.50	1.46	1.41	1.37	1.33	1.29	1.25	1.21	1.17	1.13	1.09
100W	1.71	1.70	1.70	1.69	1.67	1.65	1.61	1.56	1.51	1.46	1.41	1.37	1.33	1.29	1.25	1.21	1.17	1.13	1.09
105W	1.71	1.70	1.70	1.69	1.67	1.65	1.61	1.56	1.51	1.46	1.42	1.37	1.33	1.29	1.25	1.21	1.17	1.13	1.09
110W	1.71	1.70	1.70	1.69	1.68	1.65	1.61	1.56	1.51	1.47	1.42	1.38	1.33	1.29	1.25	1.21	1.17	1.13	1.09
115W	1.71	1.70	1.70	1.69	1.68	1.65	1.61	1.57	1.52	1.47	1.42	1.38	1.33	1.29	1.25	1.21	1.17	1.13	1.09
120W	1.71	1.70	1.70	1.69	1.68	1.65	1.61	1.57	1.52	1.47	1.42	1.38	1.33	1.29	1.25	1.21	1.17	1.13	1.09
125W	1.71	1.70	1.70	1.70	1.68	1.65	1.61	1.57	1.52	1.47	1.43	1.38	1.34	1.29	1.25	1.21	1.17	1.13	1.09
130W	1.71	1.70	1.70	1.70	1.68	1.65	1.61	1.57	1.52	1.47	1.43	1.38	1.34	1.29	1.25	1.21	1.16	1.12	1.09
135W	1.71	1.70	1.70	1.70	1.68	1.65	1.61	1.57	1.52	1.48	1.43	1.38	1.34	1.29	1.25	1.21	1.16	1.12	1.09
140W	1.71	1.70	1.70	1.70	1.68	1.65	1.61	1.57	1.52	1.48	1.43	1.38	1.34	1.29	1.25	1.20	1.16	1.12	1.09
145W	1.71	1.70	1.70	1.70	1.68	1.65	1.61	1.57	1.52	1.48	1.43	1.38	1.34	1.29	1.25	1.20	1.16	1.12	1.09
150W	1.71	1.70	1.70	1.70	1.68	1.65	1.61	1.57	1.52	1.48	1.43	1.38	1.34	1.31	1.24	1.20	1.15	1.12	1.09
155W	1.71	1.71	1.71	1.70	1.68	1.65	1.61	1.57	1.52	1.48	1.43	1.38	1.34	1.29	1.24	1.19	1.15	1.11	1.09
160W	1.71	1.72	1.72	1.70	1.68	1.65	1.61	1.56	1.52	1.47	1.43	1.38	1.34	1.29	1.24	1.19	1.15	1.11	1.09
165W	1.71	1.72	1.72	1.71	1.69	1.65	1.61	1.56	1.52	1.47	1.43	1.38	1.34	1.29	1.24	1.18	1.14	1.11	1.09
170W	1.71	1.72	1.72	1.71	1.69	1.65	1.60	1.56	1.51	1.47	1.43	1.38	1.34	1.29	1.23	1.18	1.14	1.10	1.09
175W	1.71	1.72	1.72	1.71	1.69	1.65	1.60	1.55	1.51	1.47	1.43	1.38	1.34	1.28	1.23	1.17	1.13	1.10	1.09
180W	1.71	1.72	1.72	1.72	1.69	1.65	1.60	1.55	1.51	1.47	1.43	1.38	1.33	1.28	1.22	1.17	1.13	1.10	1.09
-175E	1.72	1.72	1.72	1.71	1.69	1.65	1.59	1.55	1.51	1.47	1.43	1.38	1.33	1.28	1.22	1.16	1.12	1.10	1.09
-170E	1.72	1.72	1.72	1.71	1.69	1.65	1.59	1.54	1.50	1.47	1.43	1.38	1.33	1.28	1.21	1.15	1.11	1.09	1.09
-165E	1.72	1.72	1.72	1.71	1.69	1.64	1.59	1.54	1.50	1.47	1.42	1.38	1.33	1.27	1.21	1.15	1.11	1.09	1.09
-160E	1.72	1.72	1.71	1.71	1.69	1.64	1.58	1.54	1.50	1.47	1.42	1.38	1.33	1.27	1.20	0.00	1.10	0.00	0.00
-155E	1.71	1.71	1.71	1.70	1.68	1.64	1.58	1.53	1.50	1.46	1.42	1.38	1.33	1.27	1.20	0.00	0.00	0.00	0.00
-150E	1.70	1.71	1.71	1.71	1.68	1.63	1.58	1.53	1.50	1.46	1.42	1.38	1.33	1.26	0.00	0.00	0.00	0.00	0.00
-145E	1.70	1.71	1.71	1.71	1.68	1.63	1.57	1.53	1.49	1.46	1.42	1.37	1.32	1.26	0.00	0.00	0.00	0.00	0.00
-140E	1.71	1.71	1.72	1.71	1.68	1.63	1.57	1.53	1.49	1.45	1.41	1.37	1.32	1.25	0.00	0.00	0.00	0.00	0.00
-135E	1.71	1.72	1.72	1.71	1.68	1.63	1.57	1.53	1.49	1.45	1.41	1.37	1.32	1.25	0.00	0.00	0.00	0.00	0.00
-130E	1.71	1.72	1.72	1.71	1.68	1.63	1.58	1.53	1.49	1.45	1.41	1.36	1.31	1.25	0.00	0.00	0.00	0.00	0.00
-125E	1.71	1.72	1.72	1.71	1.68	1.63	1.58	1.53	1.49	1.44	1.40	1.36	1.31	1.24	0.00	0.00	0.00	0.00	0.00
-120E	1.70	1.72	1.72	1.71	1.68	1.63	1.58	1.53	1.49	1.44	1.40	1.36	1.31	1.24	0.00	0.00	0.00	0.00	0.00
-115E	1.70	1.71	1.72	1.70	1.67	1.63	1.58	1.54	1.49	1.44	1.40	1.35	1.30	1.24	0.00	0.00	0.00	0.00	0.00
-110E	1.70	1.71	1.71	1.70	1.67	1.62	1.58	1.53	1.49	1.44	1.40	1.35	1.30	1.23	0.00	0.00	0.00	0.00	0.00
-105E	1.69	1.70	1.71	1.69	1.66	1.62	1.58	1.53	1.49	1.44	1.40	1.35	1.30	1.23	0.00	0.00	0.00	0.00	0.00
-100E	1.69	1.70	1.71	1.69	1.66	1.62	1.58	1.54	1.49	1.45	1.40	1.35	1.30	1.23	0.00	0.00	0.00	0.00	0.00
-95E	1.69	1.71	1.71	1.69	1.66	1.62	1.58	1.55	1.50	1.45	1.40	1.35	1.30	1.23	0.00	0.00	0.00	0.00	0.00
-90E	1.69	1.71	1.71	1.69	1.66	1.62	1.59	1.55	1.51	1.46	1.40	1.35	1.29	1.23	0.00	0.00	0.00	0.00	0.00
-85E	1.69	1.72	1.72	1.69	1.66	1.63	1.60	1.56	1.52	1.46	1.40	1.35	1.29	1.23	0.00	0.00	0.00	0.00	0.00
-80E	1.69	1.72	1.72	1.70	1.67	1.64	1.60	1.57	1.52	1.47	1.40	1.35	1.29	1.22	0.00	0.00	0.00	0.00	0.00
-75E	1.70	1.72	1.72	1.70	1.67	1.64	1.60	1.57	1.53	1.47	1.40	1.35	1.29	1.22	0.00	0.00	0.00	0.00	0.00
-70E	1.71	1.72	1.72	1.70	1.67	1.64	1.60	1.57	1.53	1.47	1.40	1.34	1.28	1.22	0.00	0.00	0.00	0.00	0.00
-65E	1.72	1.72	1.72	1.70	1.68	1.64	1.61	1.57	1.53	1.47	1.40	1.34	1.28	1.22	0.00	0.00	0.00	0.00	0.00
-60E	1.72	1.72	1.72	1.70	1.68	1.64	1.61	1.57	1.53	1.47	1.40	1.34	1.28	1.22	0.00	0.00	0.00	0.00	0.00
-55E	1.72	1.72	1.72	1.70	1.67	1.64	1.60	1.57	1.53	1.47	1.40	1.34	1.28	1.22	0.00	0.00	0.00	0.00	0.00
-50E	1.72	1.72	1.71	1.70	1.67	1.64	1.60	1.57	1.53	1.47	1.40	1.34	1.28	1.22	0.00	0.00	0.00	0.00	0.00
-45E	1.71	1.71	1.70	1.69	1.67	1.64	1.60	1.57	1.53	1.47	1.40	1.34	1.28	1.23	0.00	0.00	0.00	0.00	0.00
-40E	1.70	1.71	1.70	1.69	1.67	1.64	1.61	1.57	1.53	1.47	1.40	1.33	1.28	1.23	1.16	0.00	0.00	0.00	0.00
-35E	1.70	1.70	1.71	1.69	1.67	1.64	1.61	1.57	1.53	1.47									

TABLE 51 EMPIRICAL COOLING VALUES (C/DAY) AT SURFACE-JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.20	2.19	2.17	2.14	2.12	2.10	2.07	2.03	1.97	1.91	1.84	1.77	1.67	1.54	1.36	0.00	0.00	0.00	0.81
5W	2.21	2.21	2.19	2.16	2.13	2.11	2.08	2.03	1.97	1.91	1.84	1.77	1.67	1.57	1.42	0.88	0.76	0.85	0.81
10W	2.21	2.21	2.20	2.17	2.14	2.12	2.08	2.03	1.98	1.91	1.84	1.77	1.66	1.57	1.49	0.95	0.81	0.87	0.81
15W	2.22	2.21	2.21	2.18	2.15	2.13	2.09	2.04	1.98	1.92	1.84	1.77	1.66	1.56	1.43	1.12	0.93	0.90	0.81
20W	2.23	2.21	2.21	2.19	2.17	2.14	2.10	2.04	1.98	1.92	1.85	1.77	1.66	1.56	1.43	1.29	0.95	0.92	0.81
25W	2.23	2.21	2.22	2.20	2.18	2.15	2.11	2.04	1.98	1.93	1.85	1.77	1.65	1.55	1.46	1.32	1.07	0.93	0.81
30W	2.24	2.23	2.23	2.21	2.18	2.15	2.11	2.04	1.99	1.93	1.85	1.77	1.64	1.55	1.46	1.36	1.12	0.95	0.81
35W	2.24	2.23	2.21	2.21	2.19	2.16	2.11	2.05	1.99	1.93	1.86	1.77	1.63	1.55	1.46	1.38	0.00	0.97	0.81
40W	2.25	2.24	2.19	2.15	2.16	2.16	2.11	2.05	1.99	1.93	1.86	1.77	1.63	1.54	1.46	1.38	1.19	0.98	0.81
45W	2.25	2.22	2.22	2.16	2.00	2.12	2.11	2.06	1.99	1.93	1.86	1.78	1.64	1.55	1.47	1.38	1.21	1.00	0.81
50W	2.24	2.23	2.21	2.18	2.14	2.05	2.05	2.04	1.98	1.93	1.86	1.80	1.66	1.55	1.46	1.36	1.22	1.00	0.81
55W	2.22	2.23	2.20	2.17	2.13	2.06	2.00	1.97	1.94	1.91	1.86	1.82	1.67	1.56	1.45	1.33	1.26	1.02	0.81
60W	2.25	2.23	2.20	2.17	2.15	2.07	2.03	1.96	1.93	1.89	1.87	1.84	1.76	1.58	1.43	1.32	1.19	1.02	0.81
65W	2.22	2.22	2.22	2.17	1.97	2.00	2.00	1.93	1.91	1.91	1.87	1.83	1.79	1.63	1.32	1.10	1.17	1.02	0.81
70W	2.22	2.21	2.17	2.00	2.04	2.00	2.00	1.93	1.87	1.85	1.86	1.84	1.81	1.66	1.41	1.17	1.17	1.04	0.81
75W	2.12	2.21	2.14	2.00	2.04	2.07	2.04	2.01	1.97	1.93	1.89	1.86	1.83	1.66	1.47	1.21	1.17	1.04	0.81
80W	2.17	2.13	2.11	2.10	2.04	2.08	2.06	2.03	1.98	1.94	1.91	1.87	1.83	1.67	1.49	1.24	1.15	1.02	0.81
85W	2.22	2.16	2.14	2.13	2.12	2.10	2.07	2.03	1.98	1.94	1.91	1.87	1.83	1.67	1.49	1.26	1.12	1.00	0.81
90W	2.21	2.17	2.16	2.15	2.13	2.11	2.08	2.03	1.99	1.94	1.91	1.87	1.82	1.67	1.51	1.27	1.09	1.02	0.81
95W	2.20	2.17	2.18	2.17	2.14	2.12	2.08	2.04	1.99	1.94	1.91	1.87	1.81	1.68	1.52	1.29	1.09	1.04	0.81
100W	2.20	2.19	2.19	2.18	2.15	2.12	2.08	2.04	1.99	1.94	1.91	1.87	1.81	1.68	1.53	1.29	1.10	1.05	0.81
105W	2.20	2.20	2.20	2.19	2.16	2.13	2.09	2.04	1.99	1.94	1.91	1.87	1.81	1.69	1.53	1.29	1.12	1.10	0.81
110W	2.20	2.21	2.21	2.20	2.00	2.13	2.10	2.04	1.99	1.94	1.91	1.87	1.81	1.69	1.54	1.32	1.15	1.12	0.81
115W	2.20	2.22	2.22	2.20	2.18	2.14	2.10	2.04	1.99	1.94	1.91	1.87	1.80	1.69	1.54	1.32	1.15	1.12	0.81
120W	2.21	2.23	2.23	2.21	2.18	2.14	2.10	2.04	1.99	1.94	1.91	1.86	1.80	1.69	1.54	1.32	1.17	1.14	0.81
125W	2.22	2.24	2.24	2.23	2.20	2.15	2.10	2.04	1.99	1.94	1.91	1.86	1.80	1.69	1.54	1.33	1.17	1.15	0.81
130W	2.23	2.24	2.25	2.24	2.20	2.15	2.10	2.04	1.99	1.94	1.91	1.86	1.80	1.69	1.54	1.33	1.17	1.15	0.81
135W	2.24	2.25	2.25	2.24	2.21	2.15	2.10	2.04	1.99	1.94	1.91	1.86	1.80	1.69	1.54	1.34	1.17	1.15	0.81
140W	2.24	2.25	2.26	2.25	2.21	2.15	2.10	2.04	1.99	1.94	1.91	1.86	1.79	1.68	1.53	1.34	1.19	1.15	0.81
145W	2.24	2.26	2.26	2.25	2.21	2.15	2.10	2.04	1.99	1.95	1.91	1.86	1.79	1.68	1.53	1.35	1.19	1.15	0.81
150W	2.25	2.26	2.26	2.25	2.21	2.15	2.10	2.04	1.99	1.95	1.91	1.86	1.79	1.67	1.53	1.36	1.21	1.15	0.81
155W	2.26	2.27	2.27	2.25	2.21	2.14	2.10	2.04	1.99	1.95	1.91	1.86	1.78	1.67	1.53	1.36	1.22	1.15	0.81
160W	2.27	2.28	2.27	2.25	2.21	2.14	2.09	2.04	1.99	1.95	1.91	1.86	1.78	1.66	1.53	1.38	1.24	1.15	0.81
165W	2.28	2.28	2.28	2.25	2.21	2.14	2.09	2.04	1.99	1.95	1.91	1.86	1.78	1.66	1.52	1.40	1.26	1.15	0.81
170W	2.29	2.29	2.28	2.25	2.21	2.15	2.10	2.04	1.99	1.94	1.91	1.86	1.78	1.66	1.52	1.40	1.26	1.15	0.81
175W	2.28	2.28	2.28	2.25	2.21	2.15	2.10	2.04	2.00	1.95	1.91	1.86	1.77	1.66	1.51	1.40	1.27	1.14	0.81
180W	2.28	2.28	2.28	2.25	2.21	2.15	2.10	2.05	1.99	1.94	1.91	1.86	1.77	1.65	1.50	1.40	1.27	1.14	0.81
175E	2.28	2.28	2.28	2.24	2.20	2.15	2.11	2.04	1.95	1.93	1.91	1.86	1.77	1.64	1.49	1.40	1.29	1.12	0.81
170E	2.28	2.28	2.28	2.24	2.20	2.15	2.11	2.06	2.01	1.89	1.91	1.86	1.77	1.63	1.47	1.36	1.29	1.10	0.81
165E	2.27	2.28	2.27	2.24	2.20	2.16	2.11	2.07	2.02	1.97	1.91	1.86	1.77	1.63	1.46	1.34	1.27	1.02	0.81
160E	2.26	2.28	2.26	2.24	2.20	2.15	2.11	2.07	2.02	1.97	1.91	1.86	1.77	1.61	1.38	0.00	0.00	0.00	0.81
155E	2.27	2.27	2.25	2.23	2.19	2.14	2.08	2.05	2.01	1.97	1.91	1.84	1.76	1.60	1.29	0.00	0.00	0.00	0.81
150E	2.26	2.26	2.24	2.22	2.17	2.00	1.98	1.94	2.00	1.96	1.91	1.84	1.75	1.59	0.00	0.00	0.00	0.00	0.81
145E	2.25	2.21	2.23	2.18	2.11	2.03	1.99	1.95	1.99	1.96	1.91	1.84	1.78	1.57	0.00	0.00	0.00	0.00	0.81
140E	2.25	2.21	2.23	2.21	2.11	2.03	1.97	1.98	2.00	1.96	1.90	1.83	1.73	1.56	0.00	0.00	0.00	0.00	0.81
135E	2.25	2.25	2.23	2.19	2.08	2.01	1.98	2.01	2.00	1.96	1.90	1.83	1.72	1.54	0.00	0.00	0.00	0.00	0.81
130E	2.25	2.24	2.23	2.20	2.08	2.00	1.98	2.04	2.00	1.95	1.89	1.83	1.72	1.53	0.00	0.00	0.00	0.00	0.81
125E	2.25	2.26	2.24	2.17	2.15	2.01	1.98	2.04	2.00	1.94	1.88	1.81	1.72	1.53	0.00	0.00	0.00	0.00	0.81
120E	2.25	2.26	2.24	2.21	2.15	2.02	1.99	2.04	2.00	1.94	1.87	1.80	1.71	1.53	0.00	0.00	0.00	0.00	0.81
115E	2.25	2.26	2.25	2.22	2.17	2.06	2.04	2.04	2.00	1.93	1.87	1.80	1.71	1.53	0.00	0.00	0.00	0.00	0.81
110E	2.27	2.26	2.25	2.22	2.18	2.13	2.09	2.04	1.99	1.93	1.87	1.80	1.70	1.53	0.00	0.00	0.00	0.00	0.81
105E	2.26	2.23	2.25	2.23	2.18	2.13	2.08	2.03	1.98	1.93	1.86	1.79	1.70	1.54	0.00	0.00	0.00	0.00	0.81
100E	2.26	2.26	2.25	2.22	2.17	2.12	2.07	2.03	1.98	1.92	1.86	1.79	1.70	1.56	0.00	0.00	0.00	0.00	0.81
95E	2.26	2.27	2.25	2.21	2.17	2.12	2.07	2.03	1.98	1.92	1.86	1.79	1.70	1.56	0.00	0.00	0.00	0.00	0.81
90E	2.26	2.26	2.25	2.21	2.17	2.12	2.07	2.03	1.98	1.92	1.86	1.79	1.70	1.56	0.00	0.00	0.00	0.00	0.81
85E	2.27	2.26	2.24	2.21	2.17	2.12	2.07	2.03	1.98	1.92	1.85	1.78	1.70	1.57	0.00	0.00	0.00	0.00	0.81
80E	2.27	2.26	2.24	2.21	2.17	2.13	2.07	2.03	1.98	1.92	1.85	1.78	1.70	1.57	0.00	0.00	0.00	0.00	0.81
75E	2.27	2.26	2.24	2.21	2.17	2.13	2.08	2.03	1.98	1.91	1.84	1.77	1.69	1.57	0.00	0.00	0.00	0.00	0.81
70E	2.27	2.26	2.24	2.21	2.18	2.13	2.08	2.04	1.99	1.92	1.84	1.77	1.69	1.57	0.00	0.00	0.00	0.00	0.81
65E	2.27	2.25	2.24	2.21	2.18	2.14	2.09	2.04	1.99	1.91	1.84	1.77	1.68	1.57	0.00	0.00	0.00	0.00	0.81
60E	2.26	2.25	2.23	2.21	2.18	2.15	2.10	2.05	2.00	1.90	1.83	1.77	1.68	1.57	0.00	0.00	0.00	0.00	0.81
55E	2.24	2.24	2.23	2.21	2.18	2.15	2.11	2.06	2.00	1.90	1.83	1.77	1.67	1.57	0.00	0.00	0.00	0.00	0.81
50E	2.24	2.23	2.22	2.16	2.17	2.16	2.12	2.07	2.00	1.90	1.83	1.77	1.67	1.57	0.00	0.00	0.00	0.00	0.81
45E	2.24	2.23	2.22	2.21	2.14	2.12	2.13	2.07	2.00	1.90	1.83	1.77	1.67	1.58	0.00	0.00	0.00	0.00	0.81
40E	2.25	2.22	2.21	2.18	2.19	2.18	2.14	2.08	2.01	1.91	1.83	1.77	1.67	1.58	1.29	0.00	0.00	0.00	0.81
35E	2.12	2.12	2.07	2.09	2.14	2.15	2.15	2.11	2.01	1.91	1.83	1.77							

TABLE 5J RADIATIVE COOLING VALUES(C/DAY) AT 450-MM -JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.04	2.04	2.05	2.04	2.01	1.97	1.92	1.88	1.83	1.77	1.71	1.66	1.60	1.53	1.44	0.00	0.00	0.00	1.12
5W	2.05	2.05	2.04	2.02	1.99	1.96	1.92	1.88	1.83	1.77	1.72	1.66	1.60	1.53	1.44	0.00	2.29	1.19	1.12
10W	2.05	2.04	2.03	2.00	1.98	1.95	1.92	1.88	1.83	1.77	1.72	1.66	1.60	1.54	1.47	1.41	2.28	1.19	1.12
15W	2.05	2.04	2.02	1.99	1.97	1.95	1.92	1.88	1.83	1.78	1.72	1.66	1.60	1.54	1.48	1.42	2.27	1.20	1.12
20W	2.04	2.04	2.01	1.99	1.97	1.95	1.92	1.88	1.83	1.78	1.72	1.66	1.60	1.54	1.49	1.43	2.26	1.20	1.12
25W	2.04	2.04	2.02	2.00	1.98	1.95	1.92	1.89	1.84	1.78	1.73	1.66	1.60	1.55	1.50	1.44	2.25	1.21	1.12
30W	2.07	2.04	2.02	2.00	1.99	1.96	1.93	1.89	1.84	1.79	1.73	1.67	1.60	1.55	1.50	1.45	2.25	1.21	1.12
35W	2.08	2.04	2.03	2.02	2.00	1.97	1.92	1.90	1.85	1.79	1.74	1.67	1.61	1.55	1.51	1.45	0.00	1.21	1.12
40W	2.09	2.07	2.05	2.03	2.01	1.99	1.95	1.90	1.85	1.80	1.74	1.68	1.61	1.56	1.51	1.45	2.25	1.21	1.12
45W	2.09	2.08	2.07	2.06	2.03	2.00	1.96	1.91	1.86	1.80	1.74	1.68	1.62	1.56	1.51	1.45	2.25	1.21	1.12
50W	2.08	2.09	2.09	2.07	2.04	2.01	1.96	1.91	1.85	1.81	1.75	1.69	1.63	1.57	1.51	1.44	2.26	1.21	1.12
55W	2.08	2.09	2.09	2.08	2.05	2.01	1.96	1.90	1.85	1.81	1.75	1.70	1.64	1.57	1.51	1.43	2.27	1.20	1.12
60W	2.08	2.09	2.10	2.08	2.04	2.00	1.95	1.89	1.85	1.80	1.74	1.71	1.66	1.59	1.51	1.42	2.28	1.20	1.12
65W	2.08	2.09	2.09	2.08	2.05	2.01	1.95	1.89	1.85	1.80	1.76	1.72	1.67	1.60	1.51	1.41	2.30	1.19	1.12
70W	2.08	2.09	2.10	2.09	2.07	2.03	1.97	1.91	1.85	1.80	1.76	1.73	1.68	1.61	1.52	1.41	2.31	1.19	1.12
75W	2.07	2.09	2.10	2.08	2.06	2.02	1.97	1.91	1.85	1.80	1.76	1.73	1.69	1.62	1.52	1.40	2.32	1.18	1.12
80W	2.04	2.09	2.09	2.07	2.03	1.99	1.95	1.90	1.85	1.81	1.77	1.74	1.70	1.63	1.52	1.39	2.33	1.18	1.12
85W	2.09	2.09	2.08	2.06	2.02	1.98	1.94	1.90	1.86	1.82	1.77	1.74	1.70	1.63	1.52	1.38	2.34	1.17	1.12
90W	2.10	2.09	2.08	2.06	2.02	1.98	1.94	1.90	1.86	1.82	1.78	1.74	1.70	1.63	1.52	1.38	2.35	1.17	1.12
95W	2.11	2.10	2.09	2.06	2.03	1.99	1.94	1.90	1.86	1.82	1.78	1.74	1.70	1.63	1.52	1.37	2.35	1.17	1.12
100W	2.11	2.10	2.09	2.07	2.03	1.99	1.94	1.90	1.86	1.82	1.78	1.74	1.69	1.63	1.51	1.37	2.35	1.17	1.12
105W	2.11	2.11	2.10	2.07	2.04	1.99	1.94	1.90	1.86	1.82	1.78	1.74	1.69	1.62	1.51	1.37	2.35	1.17	1.12
110W	2.11	2.11	2.10	2.08	2.04	1.99	1.94	1.90	1.86	1.82	1.78	1.74	1.69	1.62	1.51	1.38	2.34	1.18	1.12
115W	2.12	2.11	2.10	2.08	2.04	2.00	1.94	1.90	1.86	1.82	1.78	1.74	1.69	1.62	1.51	1.38	2.33	1.18	1.12
120W	2.12	2.11	2.10	2.08	2.04	2.00	1.94	1.90	1.86	1.82	1.78	1.74	1.69	1.62	1.51	1.39	2.32	1.19	1.12
125W	2.12	2.11	2.10	2.08	2.04	2.00	1.94	1.90	1.85	1.81	1.77	1.73	1.68	1.61	1.51	1.40	2.30	1.19	1.12
130W	2.11	2.11	2.10	2.08	2.04	2.00	1.94	1.90	1.86	1.81	1.77	1.73	1.68	1.61	1.51	1.40	2.29	1.20	1.12
135W	2.10	2.11	2.10	2.08	2.04	1.99	1.94	1.89	1.85	1.81	1.77	1.73	1.68	1.61	1.51	1.41	2.29	1.20	1.12
140W	2.09	2.11	2.10	2.08	2.04	1.99	1.94	1.89	1.85	1.81	1.77	1.73	1.67	1.60	1.51	1.42	2.28	1.21	1.12
145W	2.08	2.11	2.11	2.08	2.04	1.99	1.94	1.89	1.84	1.81	1.77	1.73	1.67	1.60	1.51	1.42	2.27	1.21	1.12
150W	2.08	2.11	2.11	2.08	2.03	1.99	1.93	1.88	1.84	1.80	1.77	1.73	1.67	1.60	1.51	1.43	2.26	1.22	1.12
155W	2.08	2.11	2.11	2.08	2.03	1.98	1.93	1.88	1.83	1.80	1.77	1.73	1.67	1.59	1.51	1.43	2.25	1.22	1.12
160W	2.08	2.11	2.11	2.08	2.03	1.98	1.92	1.87	1.83	1.80	1.77	1.73	1.67	1.59	1.50	1.43	2.25	1.22	1.12
165W	2.08	2.11	2.11	2.08	2.03	1.97	1.92	1.87	1.83	1.80	1.77	1.73	1.67	1.58	1.49	1.43	2.25	1.22	1.12
170W	2.08	2.11	2.11	2.08	2.03	1.97	1.91	1.86	1.83	1.80	1.77	1.73	1.67	1.58	1.49	1.42	2.25	1.22	1.12
175W	2.09	2.11	2.11	2.08	2.03	1.96	1.90	1.86	1.82	1.80	1.77	1.73	1.66	1.57	1.47	1.41	2.26	1.22	1.12
180W	2.09	2.11	2.11	2.08	2.02	1.95	1.90	1.86	1.82	1.80	1.77	1.73	1.66	1.56	1.46	1.40	2.27	1.22	1.12
-175E	2.10	2.11	2.11	2.08	2.07	1.95	1.89	1.85	1.82	1.80	1.77	1.73	1.66	1.55	1.44	1.38	2.28	1.21	1.12
-170E	2.10	2.11	2.10	2.07	2.01	1.94	1.89	1.85	1.82	1.80	1.77	1.73	1.65	1.54	1.43	1.36	2.29	1.21	1.12
-165E	2.10	2.11	2.10	2.06	2.00	1.94	1.89	1.85	1.82	1.80	1.77	1.73	1.65	1.53	1.41	1.34	2.30	1.20	1.12
-160E	2.10	2.10	2.09	2.04	1.99	1.94	1.89	1.84	1.82	1.80	1.77	1.72	1.64	1.52	1.39	0.00	0.00	0.00	0.00
-155E	2.10	2.09	2.07	2.03	1.99	1.93	1.88	1.84	1.82	1.79	1.77	1.72	1.64	1.51	1.38	0.00	0.00	0.00	0.00
-150E	2.10	2.08	2.06	2.03	1.99	1.93	1.88	1.84	1.82	1.79	1.76	1.72	1.63	1.50	0.00	0.00	0.00	0.00	0.00
-145E	2.10	2.08	2.06	2.03	1.99	1.94	1.88	1.84	1.81	1.79	1.76	1.71	1.63	1.50	0.00	0.00	0.00	0.00	0.00
-140E	2.10	2.08	2.06	2.03	1.99	1.94	1.88	1.84	1.81	1.79	1.75	1.70	1.62	1.50	0.00	0.00	0.00	0.00	0.00
-135E	2.10	2.08	2.06	2.04	2.00	1.94	1.88	1.84	1.81	1.78	1.75	1.69	1.61	1.49	0.00	0.00	0.00	0.00	0.00
-130E	2.09	2.08	2.06	2.04	2.00	1.94	1.88	1.84	1.81	1.78	1.74	1.68	1.61	1.49	0.00	0.00	0.00	0.00	0.00
-125E	2.09	2.08	2.06	2.04	2.00	1.94	1.88	1.84	1.81	1.78	1.73	1.68	1.61	1.50	0.00	0.00	0.00	0.00	0.00
-120E	2.09	2.08	2.06	2.04	2.00	1.94	1.88	1.84	1.81	1.77	1.73	1.67	1.61	1.50	0.00	0.00	0.00	0.00	0.00
-115E	2.09	2.08	2.06	2.04	2.00	1.94	1.89	1.84	1.81	1.77	1.72	1.67	1.60	1.50	0.00	0.00	0.00	0.00	0.00
-110E	2.09	2.07	2.06	2.04	2.00	1.95	1.89	1.85	1.81	1.76	1.71	1.66	1.60	1.51	0.00	0.00	0.00	0.00	0.00
-105E	2.09	2.08	2.07	2.05	2.01	1.95	1.90	1.85	1.81	1.76	1.71	1.66	1.60	1.51	0.00	0.00	0.00	0.00	0.00
-100E	2.09	2.08	2.07	2.05	2.01	1.96	1.90	1.85	1.81	1.76	1.71	1.66	1.60	1.51	0.00	0.00	0.00	0.00	0.00
-95E	2.09	2.08	2.07	2.05	2.01	1.96	1.91	1.85	1.81	1.76	1.70	1.65	1.60	1.51	0.00	0.00	0.00	0.00	0.00
-90E	2.09	2.08	2.07	2.04	2.01	1.96	1.91	1.85	1.81	1.75	1.70	1.65	1.60	1.52	0.00	0.00	0.00	0.00	0.00
-85E	2.09	2.08	2.07	2.04	2.01	1.96	1.91	1.85	1.81	1.75	1.70	1.65	1.60	1.52	0.00	0.00	0.00	0.00	0.00
-80E	2.09	2.08	2.07	2.04	2.01	1.96	1.91	1.86	1.81	1.75	1.70	1.65	1.60	1.52	0.00	0.00	0.00	0.00	0.00
-75E	2.08	2.08	2.07	2.04	2.01	1.96	1.91	1.86	1.81	1.75	1.70	1.65	1.60	1.52	0.00	0.00	0.00	0.00	0.00
-70E	2.08	2.08	2.06	2.04	2.00	1.96	1.92	1.86	1.81	1.76	1.70	1.65	1.60	1.51	0.00	0.00	0.00	0.00	0.00
-65E	2.08	2.07	2.06	2.03	2.00	1.96	1.92	1.87	1.82	1.76	1.70	1.65	1.59	1.51	0.00	0.00	0.00	0.00	0.00
-60E	2.08	2.07	2.05	2.02	2.00	1.97	1.93	1.88	1.82	1.76	1.70	1.65	1.59	1.50	0.00	0.00	0.00	0.00	0.00
-55E	2.09	2.07	2.04	2.01	1.99	1.97	1.94	1.89	1.83	1.77	1.71	1.65	1.59	1.50	0.00	0.00	0.00	0.00	0.00
-50E	2.08	2.04	2.03	2.01	1.99	1.97	1.95	1.90	1.84	1.77	1.71	1.65	1.59	1.51	0.00	0.00	0.00	0.00	0.00
-45E	2.07	2.05	2.03	2.01	2.00	1.98	1.96	1.92	1.85	1.78	1.71	1.65	1.60	1.51	0.00	0.00	0.00	0.00	0.00
-40E	2.08	2.04	2.03	2.02	2.01	2.00	1.98	1.93	1.86	1.78	1.71	1.65	1.60	1.52	1.41	0.00	0.00	0.00	0.00
-35E	2.10	2.05	2.02																

TABLE 5K RADIATIVE COOLING VALUES(C/DAY) AT 700-MB -JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	1.94	1.96	1.95	1.93	1.89	1.85	1.80	1.75	1.69	1.64	1.58	1.52	1.46	1.41	1.35	0.00	0.00	0.00	1.10
5W	1.94	1.94	1.95	1.92	1.88	1.84	1.79	1.74	1.69	1.64	1.58	1.52	1.46	1.41	1.36	1.29	1.21	1.12	1.10
10W	1.94	1.95	1.95	1.92	1.87	1.83	1.79	1.74	1.69	1.64	1.58	1.53	1.47	1.42	1.37	1.31	1.23	1.13	1.10
15W	1.94	1.95	1.94	1.91	1.87	1.83	1.79	1.74	1.69	1.64	1.58	1.53	1.47	1.42	1.38	1.33	1.25	1.18	1.10
20W	1.95	1.95	1.93	1.90	1.86	1.83	1.79	1.74	1.69	1.64	1.59	1.53	1.48	1.43	1.39	1.34	1.26	1.15	1.10
25W	1.96	1.94	1.92	1.90	1.86	1.83	1.79	1.74	1.69	1.64	1.59	1.54	1.48	1.43	1.40	1.36	1.28	1.16	1.10
30W	1.96	1.94	1.92	1.90	1.86	1.83	1.79	1.75	1.69	1.64	1.59	1.54	1.49	1.44	1.40	1.37	1.29	1.17	1.10
35W	1.95	1.94	1.92	1.90	1.87	1.83	1.80	1.75	1.70	1.65	1.59	1.55	1.49	1.44	1.41	1.37	1.31	1.18	1.10
40W	1.94	1.93	1.92	1.90	1.88	1.84	1.80	1.75	1.70	1.65	1.60	1.55	1.50	1.45	1.41	1.38	1.31	1.19	1.10
45W	1.93	1.93	1.93	1.92	1.89	1.85	1.81	1.76	1.70	1.65	1.60	1.55	1.51	1.46	1.41	1.38	1.31	1.19	1.10
50W	1.93	1.94	1.94	1.94	1.91	1.87	1.82	1.76	1.70	1.65	1.60	1.56	1.52	1.47	1.41	1.38	1.31	1.19	1.10
55W	1.94	1.95	1.96	1.95	1.93	1.89	1.83	1.76	1.70	1.65	1.61	1.57	1.53	1.47	1.42	1.37	1.31	1.20	1.10
60W	1.94	1.96	1.97	1.97	1.95	1.91	1.85	1.77	1.70	1.65	1.61	1.58	1.53	1.48	1.42	1.37	1.31	1.20	1.10
65W	1.94	1.97	1.98	1.98	1.96	1.92	1.85	1.78	1.71	1.66	1.62	1.58	1.54	1.48	1.42	1.37	1.31	1.21	1.10
70W	1.94	1.96	1.98	1.98	1.96	1.92	1.85	1.77	1.70	1.66	1.62	1.59	1.55	1.49	1.42	1.36	1.31	1.21	1.10
75W	1.94	1.97	1.98	1.97	1.95	1.90	1.83	1.76	1.70	1.66	1.63	1.60	1.55	1.49	1.42	1.36	1.31	1.21	1.10
80W	1.95	1.97	1.98	1.96	1.93	1.87	1.81	1.75	1.69	1.66	1.63	1.60	1.56	1.49	1.42	1.36	1.31	1.21	1.10
85W	1.94	1.98	1.97	1.94	1.90	1.85	1.79	1.74	1.69	1.66	1.64	1.60	1.56	1.49	1.42	1.36	1.31	1.21	1.10
90W	1.94	1.98	1.96	1.93	1.89	1.84	1.79	1.74	1.69	1.66	1.64	1.61	1.58	1.49	1.42	1.36	1.31	1.21	1.10
95W	1.96	1.97	1.95	1.92	1.88	1.84	1.81	1.74	1.69	1.66	1.64	1.60	1.56	1.49	1.42	1.36	1.31	1.22	1.10
100W	1.94	1.97	1.95	1.92	1.88	1.84	1.79	1.74	1.69	1.66	1.64	1.60	1.56	1.49	1.42	1.36	1.31	1.22	1.10
105W	1.94	1.96	1.95	1.92	1.89	1.84	1.79	1.74	1.69	1.66	1.64	1.60	1.56	1.49	1.42	1.36	1.31	1.22	1.10
110W	1.94	1.97	1.95	1.93	1.89	1.84	1.79	1.74	1.69	1.66	1.63	1.60	1.55	1.49	1.42	1.37	1.32	1.22	1.10
115W	1.94	1.97	1.95	1.93	1.90	1.85	1.79	1.74	1.69	1.66	1.63	1.60	1.55	1.49	1.42	1.37	1.32	1.22	1.10
120W	1.94	1.97	1.96	1.94	1.90	1.85	1.79	1.74	1.69	1.66	1.63	1.60	1.55	1.49	1.42	1.37	1.32	1.23	1.10
125W	1.94	1.97	1.96	1.94	1.91	1.85	1.79	1.74	1.69	1.66	1.63	1.60	1.55	1.48	1.42	1.37	1.33	1.23	1.10
130W	1.94	1.98	1.97	1.94	1.91	1.85	1.79	1.74	1.69	1.66	1.63	1.60	1.55	1.48	1.41	1.37	1.33	1.23	1.10
135W	1.94	1.98	1.97	1.95	1.91	1.85	1.79	1.74	1.69	1.66	1.63	1.59	1.54	1.48	1.41	1.37	1.33	1.23	1.10
140W	1.94	1.96	1.97	1.95	1.91	1.85	1.79	1.74	1.69	1.66	1.63	1.59	1.54	1.48	1.41	1.37	1.33	1.23	1.10
145W	1.94	1.98	1.97	1.95	1.91	1.86	1.79	1.74	1.69	1.66	1.63	1.59	1.54	1.47	1.41	1.36	1.32	1.23	1.10
150W	1.97	1.98	1.97	1.96	1.92	1.86	1.79	1.74	1.69	1.66	1.63	1.59	1.53	1.47	1.40	1.36	1.32	1.23	1.10
155W	1.96	1.97	1.98	1.96	1.92	1.86	1.79	1.74	1.69	1.66	1.63	1.59	1.53	1.46	1.40	1.36	1.32	1.22	1.10
160W	1.96	1.97	1.98	1.96	1.92	1.86	1.79	1.74	1.69	1.66	1.63	1.59	1.53	1.46	1.39	1.35	1.32	1.22	1.10
165W	1.96	1.97	1.98	1.96	1.92	1.85	1.79	1.74	1.69	1.66	1.63	1.59	1.53	1.46	1.39	1.35	1.31	1.21	1.10
170W	1.96	1.97	1.98	1.96	1.92	1.85	1.79	1.73	1.69	1.66	1.64	1.59	1.53	1.45	1.39	1.34	1.30	1.21	1.10
175W	1.96	1.97	1.98	1.96	1.92	1.85	1.78	1.73	1.69	1.66	1.64	1.59	1.53	1.45	1.38	1.34	1.29	1.20	1.10
180W	1.96	1.97	1.98	1.96	1.92	1.85	1.78	1.72	1.69	1.66	1.64	1.60	1.53	1.45	1.38	1.33	1.28	1.19	1.10
185W	1.96	1.97	1.98	1.97	1.92	1.84	1.76	1.72	1.68	1.66	1.64	1.60	1.53	1.45	1.37	1.32	1.27	1.18	1.10
190W	1.96	1.97	1.98	1.96	1.92	1.84	1.76	1.71	1.68	1.66	1.64	1.59	1.53	1.45	1.36	1.31	1.26	1.18	1.10
195W	1.96	1.97	1.98	1.96	1.92	1.84	1.76	1.71	1.68	1.66	1.64	1.59	1.52	1.44	1.36	1.30	1.25	1.17	1.10
-175E	1.95	1.96	1.97	1.96	1.91	1.83	1.76	1.71	1.68	1.66	1.63	1.59	1.52	1.44	1.35	0.00	0.00	0.00	0.00
-170E	1.95	1.95	1.96	1.96	1.91	1.83	1.75	1.71	1.68	1.66	1.63	1.59	1.52	1.44	1.34	0.00	0.00	0.00	0.00
-165E	1.94	1.94	1.96	1.95	1.91	1.83	1.75	1.70	1.68	1.66	1.63	1.59	1.52	1.43	1.34	0.00	0.00	0.00	0.00
-160E	1.94	1.94	1.95	1.95	1.91	1.83	1.75	1.70	1.67	1.65	1.63	1.58	1.51	1.43	0.00	0.00	0.00	0.00	0.00
-155E	1.94	1.94	1.95	1.95	1.91	1.83	1.75	1.70	1.67	1.65	1.62	1.57	1.51	1.43	0.00	0.00	0.00	0.00	0.00
-150E	1.94	1.94	1.95	1.95	1.91	1.83	1.75	1.70	1.67	1.65	1.62	1.57	1.51	1.43	0.00	0.00	0.00	0.00	0.00
-145E	1.94	1.94	1.95	1.95	1.91	1.83	1.75	1.70	1.67	1.65	1.62	1.57	1.51	1.43	0.00	0.00	0.00	0.00	0.00
-140E	1.94	1.94	1.95	1.95	1.90	1.83	1.75	1.70	1.67	1.65	1.62	1.57	1.50	1.42	0.00	0.00	0.00	0.00	0.00
-135E	1.94	1.95	1.96	1.95	1.90	1.83	1.76	1.70	1.67	1.65	1.61	1.56	1.50	1.42	0.00	0.00	0.00	0.00	0.00
-130E	1.95	1.95	1.96	1.95	1.90	1.83	1.76	1.70	1.67	1.65	1.61	1.55	1.49	1.42	0.00	0.00	0.00	0.00	0.00
-125E	1.94	1.95	1.96	1.95	1.90	1.83	1.76	1.70	1.67	1.64	1.60	1.55	1.49	1.42	0.00	0.00	0.00	0.00	0.00
-120E	1.94	1.95	1.95	1.94	1.90	1.83	1.76	1.71	1.67	1.64	1.60	1.54	1.49	1.42	0.00	0.00	0.00	0.00	0.00
-115E	1.94	1.94	1.95	1.94	1.90	1.83	1.76	1.71	1.67	1.63	1.58	1.53	1.48	1.42	0.00	0.00	0.00	0.00	0.00
-110E	1.94	1.94	1.94	1.93	1.89	1.83	1.76	1.71	1.67	1.63	1.58	1.52	1.48	1.42	0.00	0.00	0.00	0.00	0.00
-105E	1.94	1.94	1.94	1.93	1.89	1.83	1.76	1.71	1.67	1.63	1.58	1.52	1.48	1.41	0.00	0.00	0.00	0.00	0.00
-100E	1.94	1.94	1.94	1.93	1.89	1.83	1.76	1.71	1.67	1.63	1.58	1.52	1.47	1.42	0.00	0.00	0.00	0.00	0.00
-95E	1.94	1.94	1.94	1.93	1.89	1.83	1.77	1.72	1.67	1.63	1.58	1.52	1.47	1.42	0.00	0.00	0.00	0.00	0.00
-90E	1.94	1.94	1.94	1.92	1.89	1.83	1.77	1.72	1.68	1.63	1.57	1.52	1.47	1.42	0.00	0.00	0.00	0.00	0.00
-85E	1.95	1.95	1.94	1.92	1.88	1.83	1.77	1.73	1.68	1.63	1.57	1.51	1.47	1.42	0.00	0.00	0.00	0.00	0.00
-80E	1.96	1.95	1.94	1.92	1.88	1.83	1.78	1.73	1.68	1.63	1.57	1.51	1.47	1.42	0.00	0.00	0.00	0.00	0.00
-75E	1.95	1.95	1.94	1.92	1.89	1.84	1.78	1.74	1.69	1.63	1.57	1.51	1.47	1.41	0.00	0.00	0.00	0.00	0.00
-70E	1.95	1.95	1.94	1.92	1.89	1.84	1.79	1.74	1.69	1.63	1.57	1.51	1.47	1.41	0.00	0.00	0.00	0.00	0.00
-65E	1.94	1.95	1.94	1.92	1.89	1.85	1.80	1.75	1.70	1.63	1.57	1.51	1.46	1.40	0.00	0.00	0.00	0.00	0.00
-60E	1.94	1.94	1.93	1.91	1.89	1.85	1.81	1.76	1.70	1.64	1.57	1.51	1.46	1.40	0.00	0.00	0.00	0.00	0.00
-55E	1.94	1.94	1.93	1.91	1.88	1.85	1.82	1.77	1.71	1.64	1.57	1.51	1.46	1.40	0.00	0.00	0.00	0.00	0.00
-50E	1.94	1.93	1.92	1.90	1.87	1.85	1.83	1.78	1.72	1.65									

TABLE 5L RADIATIVE COOLING VALUES(C/DAY) AT 500-MH -JULY

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	1.49	1.49	1.48	1.67	1.44	1.58	1.53	1.47	1.42	1.37	1.31	1.25	1.20	1.16	1.12	0.00	0.00	0.00	1.03
5W	1.49	1.49	1.48	1.67	1.43	1.58	1.52	1.47	1.42	1.37	1.31	1.25	1.20	1.16	1.13	1.09	1.06	1.04	1.03
10W	1.49	1.49	1.48	1.67	1.43	1.58	1.52	1.47	1.42	1.37	1.31	1.25	1.21	1.17	1.13	1.09	1.06	1.04	1.03
15W	1.49	1.49	1.48	1.66	1.63	1.58	1.52	1.47	1.42	1.37	1.31	1.26	1.21	1.17	1.14	1.10	1.07	1.04	1.03
20W	1.49	1.49	1.48	1.66	1.63	1.58	1.52	1.47	1.42	1.37	1.31	1.26	1.22	1.18	1.14	1.10	1.07	1.05	1.03
25W	1.49	1.49	1.48	1.66	1.63	1.58	1.52	1.47	1.42	1.37	1.31	1.26	1.22	1.18	1.15	1.11	1.07	1.05	1.03
30W	1.49	1.49	1.48	1.66	1.63	1.58	1.53	1.47	1.42	1.37	1.31	1.26	1.22	1.19	1.15	1.11	1.08	1.05	1.03
35W	1.49	1.49	1.48	1.66	1.63	1.59	1.53	1.47	1.42	1.37	1.32	1.27	1.23	1.19	1.16	1.12	0.00	1.05	1.03
40W	1.48	1.49	1.48	1.66	1.63	1.59	1.53	1.48	1.42	1.37	1.32	1.27	1.23	1.19	1.16	1.12	1.08	1.05	1.03
45W	1.48	1.49	1.48	1.66	1.63	1.59	1.54	1.48	1.42	1.37	1.32	1.27	1.23	1.20	1.16	1.12	1.09	1.06	1.03
50W	1.48	1.49	1.48	1.67	1.64	1.60	1.55	1.48	1.42	1.37	1.32	1.28	1.24	1.20	1.16	1.13	1.09	1.06	1.03
55W	1.48	1.49	1.49	1.67	1.64	1.60	1.55	1.49	1.42	1.37	1.32	1.28	1.24	1.21	1.17	1.13	1.09	1.06	1.03
60W	1.48	1.70	1.49	1.68	1.65	1.61	1.56	1.49	1.42	1.37	1.33	1.29	1.25	1.21	1.17	1.13	1.09	1.06	1.03
65W	1.48	1.70	1.70	1.68	1.65	1.61	1.55	1.48	1.42	1.37	1.33	1.29	1.25	1.21	1.17	1.13	1.10	1.06	1.03
70W	1.49	1.70	1.70	1.67	1.64	1.60	1.54	1.47	1.41	1.37	1.33	1.30	1.26	1.22	1.17	1.13	1.10	1.06	1.03
75W	1.49	1.70	1.49	1.67	1.63	1.59	1.53	1.47	1.41	1.37	1.33	1.30	1.26	1.22	1.17	1.14	1.10	1.06	1.03
80W	1.70	1.70	1.68	1.66	1.62	1.57	1.52	1.46	1.41	1.37	1.33	1.30	1.26	1.22	1.18	1.14	1.10	1.06	1.03
85W	1.71	1.69	1.68	1.65	1.61	1.56	1.51	1.45	1.40	1.36	1.33	1.29	1.26	1.22	1.18	1.14	1.10	1.06	1.03
90W	1.71	1.69	1.67	1.64	1.60	1.56	1.50	1.45	1.40	1.36	1.33	1.29	1.25	1.22	1.18	1.14	1.10	1.07	1.03
95W	1.70	1.68	1.66	1.63	1.60	1.55	1.50	1.44	1.40	1.36	1.33	1.29	1.25	1.22	1.18	1.14	1.10	1.07	1.03
100W	1.70	1.68	1.66	1.63	1.59	1.55	1.49	1.44	1.39	1.36	1.32	1.29	1.25	1.22	1.18	1.14	1.10	1.07	1.03
105W	1.70	1.69	1.66	1.63	1.59	1.55	1.49	1.43	1.39	1.36	1.32	1.29	1.25	1.22	1.18	1.14	1.10	1.07	1.03
110W	1.70	1.68	1.66	1.63	1.59	1.55	1.49	1.43	1.39	1.35	1.32	1.29	1.25	1.22	1.18	1.14	1.10	1.07	1.03
115W	1.70	1.68	1.66	1.64	1.60	1.55	1.49	1.43	1.39	1.35	1.32	1.29	1.25	1.22	1.18	1.14	1.10	1.06	1.03
120W	1.70	1.69	1.67	1.65	1.61	1.56	1.49	1.43	1.39	1.35	1.32	1.29	1.25	1.22	1.18	1.14	1.10	1.06	1.03
125W	1.70	1.69	1.68	1.65	1.62	1.56	1.50	1.43	1.39	1.35	1.32	1.29	1.25	1.22	1.18	1.14	1.10	1.06	1.03
130W	1.70	1.70	1.68	1.66	1.63	1.57	1.50	1.43	1.39	1.35	1.32	1.29	1.25	1.22	1.18	1.14	1.10	1.06	1.03
135W	1.71	1.70	1.67	1.67	1.64	1.58	1.50	1.43	1.39	1.35	1.32	1.29	1.25	1.22	1.18	1.14	1.10	1.06	1.03
140W	1.71	1.70	1.70	1.68	1.64	1.58	1.51	1.44	1.39	1.36	1.32	1.29	1.26	1.22	1.18	1.14	1.10	1.06	1.03
145W	1.71	1.71	1.70	1.68	1.65	1.59	1.51	1.44	1.39	1.36	1.32	1.29	1.26	1.22	1.18	1.13	1.09	1.06	1.03
150W	1.71	1.71	1.71	1.69	1.66	1.60	1.51	1.44	1.39	1.36	1.34	1.29	1.26	1.22	1.17	1.13	1.09	1.06	1.03
155W	1.71	1.72	1.71	1.70	1.66	1.60	1.51	1.44	1.39	1.36	1.33	1.30	1.26	1.22	1.17	1.13	1.09	1.06	1.03
160W	1.71	1.72	1.72	1.70	1.67	1.60	1.51	1.44	1.39	1.36	1.33	1.30	1.26	1.22	1.17	1.13	1.09	1.05	1.03
165W	1.71	1.72	1.72	1.70	1.67	1.60	1.51	1.44	1.39	1.36	1.33	1.30	1.26	1.21	1.16	1.12	1.08	1.05	1.03
170W	1.71	1.72	1.72	1.71	1.67	1.60	1.51	1.44	1.39	1.36	1.33	1.30	1.26	1.21	1.16	1.12	1.08	1.05	1.03
175W	1.70	1.72	1.72	1.71	1.67	1.60	1.51	1.44	1.39	1.36	1.33	1.30	1.26	1.21	1.16	1.11	1.08	1.05	1.03
180W	1.70	1.72	1.72	1.71	1.67	1.60	1.51	1.43	1.39	1.36	1.34	1.30	1.26	1.20	1.15	1.11	1.07	1.05	1.03
175E	1.70	1.71	1.72	1.71	1.67	1.60	1.51	1.43	1.39	1.36	1.34	1.31	1.26	1.20	1.14	1.10	1.07	1.04	1.03
170E	1.70	1.71	1.72	1.71	1.67	1.59	1.50	1.42	1.39	1.36	1.34	1.30	1.25	1.19	1.14	1.10	1.06	1.04	1.03
165E	1.70	1.70	1.71	1.70	1.67	1.59	1.49	1.42	1.39	1.36	1.34	1.30	1.25	1.19	1.13	1.09	1.06	1.04	1.03
160E	1.70	1.70	1.70	1.70	1.67	1.58	1.48	1.42	1.38	1.36	1.34	1.30	1.25	1.18	1.13	1.09	1.06	0.00	0.00
155E	1.70	1.69	1.70	1.70	1.66	1.58	1.48	1.42	1.38	1.36	1.33	1.30	1.24	1.18	1.12	0.00	0.00	0.00	0.00
150E	1.70	1.69	1.69	1.69	1.66	1.58	1.48	1.42	1.38	1.36	1.33	1.30	1.24	1.18	0.00	0.00	0.00	0.00	0.00
145E	1.69	1.69	1.69	1.69	1.66	1.58	1.48	1.42	1.38	1.36	1.33	1.29	1.23	1.17	0.00	0.00	0.00	0.00	0.00
140E	1.69	1.69	1.69	1.69	1.66	1.58	1.49	1.42	1.38	1.35	1.33	1.28	1.23	1.17	0.00	0.00	0.00	0.00	0.00
135E	1.69	1.69	1.69	1.69	1.66	1.59	1.49	1.42	1.38	1.35	1.32	1.28	1.22	1.16	0.00	0.00	0.00	0.00	0.00
130E	1.69	1.69	1.69	1.69	1.67	1.59	1.50	1.42	1.38	1.35	1.31	1.27	1.22	1.16	0.00	0.00	0.00	0.00	0.00
125E	1.69	1.69	1.70	1.70	1.67	1.59	1.50	1.42	1.38	1.35	1.31	1.26	1.21	1.16	0.00	0.00	0.00	0.00	0.00
120E	1.70	1.69	1.70	1.70	1.67	1.60	1.50	1.43	1.38	1.35	1.30	1.26	1.21	1.16	0.00	0.00	0.00	0.00	0.00
115E	1.69	1.69	1.70	1.70	1.67	1.59	1.50	1.43	1.38	1.34	1.30	1.25	1.20	1.16	0.00	0.00	0.00	0.00	0.00
110E	1.68	1.68	1.69	1.70	1.66	1.59	1.50	1.43	1.38	1.34	1.30	1.25	1.20	1.15	0.00	0.00	0.00	0.00	0.00
105E	1.68	1.68	1.70	1.69	1.66	1.59	1.50	1.43	1.39	1.34	1.30	1.25	1.20	1.15	0.00	0.00	0.00	0.00	0.00
100E	1.68	1.69	1.70	1.69	1.65	1.58	1.50	1.44	1.39	1.34	1.30	1.24	1.20	1.15	0.00	0.00	0.00	0.00	0.00
95E	1.68	1.69	1.70	1.68	1.65	1.58	1.50	1.44	1.39	1.35	1.30	1.24	1.19	1.15	0.00	0.00	0.00	0.00	0.00
90E	1.69	1.70	1.69	1.68	1.64	1.57	1.50	1.45	1.40	1.35	1.30	1.24	1.19	1.15	0.00	0.00	0.00	0.00	0.00
85E	1.69	1.70	1.69	1.68	1.64	1.57	1.51	1.45	1.41	1.36	1.30	1.24	1.19	1.15	0.00	0.00	0.00	0.00	0.00
80E	1.69	1.69	1.69	1.68	1.64	1.58	1.51	1.46	1.41	1.36	1.30	1.24	1.19	1.15	0.00	0.00	0.00	0.00	0.00
75E	1.69	1.69	1.69	1.68	1.65	1.59	1.52	1.47	1.42	1.36	1.30	1.24	1.19	1.15	0.00	0.00	0.00	0.00	0.00
70E	1.69	1.69	1.69	1.68	1.65	1.60	1.53	1.48	1.42	1.37	1.30	1.24	1.19	1.15	0.00	0.00	0.00	0.00	0.00
65E	1.69	1.70	1.70	1.69	1.66	1.61	1.55	1.49	1.43	1.37	1.31	1.24	1.19	1.15	0.00	0.00	0.00	0.00	0.00
60E	1.69	1.70	1.70	1.69	1.66	1.61	1.55	1.49	1.43	1.38	1.31	1.24	1.18	1.14	0.00	0.00	0.00	0.00	0.00
55E	1.69	1.70	1.70	1.69	1.66	1.62	1.56	1.50	1.43	1.38	1.31	1.24	1.18	1.14	0.00	0.00	0.00	0.00	0.00
50E	1.69	1.70	1.70	1.69	1.66	1.62	1.54	1.50	1.44	1.38	1.32	1.24	1.18	1.14	0.00	0.00	0.00	0.00	0.00
45E	1.69	1.70	1.70	1.69	1.66	1.62	1.57	1.50	1.44	1.38	1.32	1.24	1.18	1.14	0.00	0.00	0.00	0.00	0.00
40E	1.69	1.70	1.70	1.69	1.66	1.62	1.57	1.50	1.44	1.38	1.32	1.24	1.18	1.14	1.11	0.00	0.00	0.00	0.00
35E	1.68	1.69	1.70	1.69	1.66	1.62	1.57	1.50	1.44	1.38									

TABLE 5M RADIATIVE COOLING VALUES(CO/DAY) AT SURFACE-OCTOBER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.21	2.20	2.16	2.13	2.11	2.11	2.08	2.03	1.98	1.92	1.85	1.78	1.72	1.64	1.51	0.00	0.00	0.00	0.93
5N	2.22	2.20	2.17	2.14	2.13	2.12	2.07	2.04	1.98	1.92	1.85	1.78	1.72	1.64	1.51	1.02	0.92	0.98	0.93
10N	2.22	2.20	2.18	2.16	2.15	2.13	2.09	2.04	1.98	1.93	1.85	1.78	1.72	1.64	1.52	1.07	0.93	0.98	0.93
15N	2.22	2.20	2.19	2.17	2.16	2.14	2.10	2.04	1.99	1.93	1.86	1.78	1.72	1.64	1.53	1.21	0.00	1.00	0.93
20N	2.23	2.21	2.20	2.19	2.18	2.15	2.10	2.05	1.99	1.94	1.86	1.79	1.73	1.64	1.54	1.36	1.07	1.02	0.93
25N	2.24	2.23	2.22	2.21	2.18	2.15	2.11	2.05	1.99	1.94	1.87	1.79	1.73	1.65	1.55	1.47	1.15	1.04	0.93
30N	2.24	2.24	2.24	2.22	2.19	2.16	2.11	2.05	1.99	1.94	1.89	1.79	1.73	1.65	1.56	1.48	1.22	1.05	0.93
35N	2.24	2.25	2.24	2.23	2.20	2.16	2.12	2.06	2.00	1.94	1.87	1.80	1.74	1.65	1.56	1.49	1.27	1.07	0.93
40N	2.25	2.25	2.25	2.19	2.19	2.17	2.12	2.06	2.00	1.95	1.87	1.80	1.74	1.65	1.56	1.49	1.31	1.09	0.93
45N	2.24	2.24	2.27	2.24	2.16	2.16	2.13	2.07	2.00	1.95	1.88	1.81	1.75	1.65	1.56	1.48	1.32	1.09	0.93
50N	2.25	2.27	2.25	2.21	2.21	2.10	2.12	2.07	2.00	1.94	1.88	1.83	1.76	1.66	1.55	1.48	1.32	1.09	0.93
55N	2.24	2.25	2.23	2.22	2.21	2.16	2.10	2.06	1.99	1.93	1.89	1.85	1.78	1.67	1.54	1.46	1.31	1.09	0.93
60N	2.24	2.26	2.23	2.24	2.27	2.20	2.13	2.06	1.99	1.93	1.89	1.87	1.81	1.70	1.52	1.38	1.27	1.09	0.93
65N	2.25	2.24	2.25	2.26	2.14	2.12	2.14	2.08	2.05	1.99	1.93	1.89	1.82	1.73	1.50	1.27	1.22	1.07	0.93
70N	2.23	2.23	2.21	2.02	2.07	2.01	2.02	1.99	1.99	1.97	1.95	1.90	1.84	1.75	1.54	1.32	1.22	1.07	0.93
75N	2.12	2.23	2.17	2.02	2.11	2.08	2.06	2.03	1.99	1.94	1.91	1.89	1.84	1.75	1.59	1.32	1.19	1.07	0.93
80N	2.16	2.14	2.11	2.12	2.10	2.09	2.07	2.04	2.00	1.95	1.92	1.89	1.84	1.75	1.61	1.38	1.17	1.07	0.93
85N	2.20	2.14	2.13	2.13	2.11	2.10	2.08	2.05	2.00	1.95	1.92	1.89	1.84	1.75	1.61	1.41	1.17	1.05	0.93
90N	2.20	2.15	2.14	2.14	2.13	2.11	2.09	2.05	2.00	1.96	1.92	1.89	1.88	1.74	1.61	1.41	1.17	1.05	0.93
95N	2.20	2.16	2.16	2.15	2.14	2.12	2.09	2.05	2.00	1.96	1.92	1.88	1.83	1.73	1.60	1.41	1.19	1.05	0.93
100N	2.19	2.17	2.17	2.16	2.15	2.13	2.10	2.06	2.00	1.96	1.92	1.88	1.82	1.72	1.60	1.41	1.19	1.07	0.93
105N	2.20	2.18	2.18	2.18	2.16	2.14	2.11	2.06	2.00	1.96	1.92	1.88	1.82	1.72	1.60	1.39	1.19	1.09	0.93
110N	2.20	2.19	2.20	2.19	2.17	2.15	2.11	2.06	2.00	1.96	1.92	1.88	1.82	1.71	1.59	1.39	1.21	1.10	0.93
115N	2.20	2.20	2.21	2.20	2.18	2.15	2.11	2.06	2.00	1.96	1.91	1.87	1.81	1.71	1.58	1.38	1.24	1.12	0.93
120N	2.20	2.21	2.22	2.21	2.19	2.16	2.11	2.06	2.00	1.96	1.91	1.87	1.81	1.70	1.58	1.38	1.27	1.17	0.93
125N	2.20	2.22	2.23	2.23	2.20	2.16	2.11	2.06	2.00	1.96	1.91	1.87	1.81	1.70	1.58	1.38	1.31	1.19	0.93
130N	2.20	2.23	2.24	2.23	2.21	2.16	2.11	2.06	2.00	1.96	1.91	1.87	1.81	1.70	1.58	1.38	1.31	1.24	0.93
135N	2.22	2.24	2.25	2.24	2.21	2.16	2.11	2.05	2.00	1.96	1.92	1.87	1.80	1.70	1.57	1.39	1.31	1.27	0.93
140N	2.23	2.24	2.25	2.24	2.21	2.16	2.11	2.05	2.00	1.96	1.92	1.87	1.80	1.70	1.57	1.39	1.31	1.29	0.93
145N	2.24	2.25	2.30	2.25	2.21	2.16	2.10	2.05	2.00	1.96	1.92	1.88	1.80	1.70	1.57	1.39	1.31	1.31	0.93
150N	2.25	2.26	2.26	2.25	2.21	2.16	2.10	2.05	2.00	1.96	1.93	1.88	1.80	1.70	1.57	1.41	1.32	1.31	0.93
155N	2.24	2.27	2.27	2.25	2.21	2.16	2.10	2.05	2.00	1.97	1.93	1.88	1.80	1.70	1.56	1.43	1.34	1.31	0.93
160N	2.27	2.24	2.27	2.25	2.21	2.15	2.10	2.05	2.01	1.97	1.94	1.88	1.80	1.70	1.57	1.44	1.36	1.31	0.93
165N	2.24	2.24	2.24	2.25	2.21	2.16	2.10	2.05	2.01	1.98	1.94	1.88	1.80	1.70	1.57	1.46	1.38	1.31	0.93
170N	2.24	2.24	2.24	2.25	2.21	2.16	2.10	2.06	2.02	1.98	1.94	1.88	1.80	1.70	1.57	1.47	1.38	1.31	0.93
175N	2.24	2.24	2.24	2.24	2.21	2.16	2.11	2.06	2.02	1.98	1.94	1.88	1.80	1.70	1.57	1.48	1.39	1.31	0.93
180N	2.24	2.24	2.24	2.25	2.21	2.16	2.11	2.06	2.02	1.98	1.94	1.88	1.80	1.70	1.56	1.48	1.39	1.29	0.93
175E	2.24	2.24	2.24	2.26	2.21	2.16	2.11	2.06	2.00	1.98	1.94	1.88	1.80	1.69	1.54	1.48	1.39	1.26	0.93
170E	2.24	2.24	2.24	2.26	2.21	2.16	2.12	2.07	2.02	1.97	1.94	1.87	1.80	1.69	1.55	1.48	1.39	1.21	0.93
165E	2.27	2.24	2.24	2.25	2.21	2.17	2.12	2.08	2.02	1.98	1.94	1.87	1.80	1.69	1.53	1.47	1.38	1.12	0.93
160E	2.27	2.24	2.27	2.25	2.21	2.18	2.13	2.08	2.02	1.97	1.94	1.87	1.80	1.69	1.48	0.00	1.36	0.00	0.00
155E	2.27	2.24	2.27	2.25	2.21	2.18	2.13	2.08	2.02	1.97	1.94	1.87	1.79	1.68	1.43	0.00	0.00	0.00	0.00
150E	2.24	2.24	2.25	2.25	2.21	2.16	2.09	2.06	2.02	1.97	1.93	1.86	1.79	1.68	0.00	0.00	0.00	0.00	0.00
145E	2.24	2.24	2.25	2.24	2.24	2.20	2.16	2.08	2.01	1.97	1.92	1.86	1.74	1.66	0.00	0.00	0.00	0.00	0.00
140E	2.24	2.24	2.25	2.26	2.27	2.21	2.15	2.06	2.01	1.96	1.92	1.85	1.74	1.65	0.00	0.00	0.00	0.00	0.00
135E	2.26	2.24	2.27	2.30	2.24	2.19	2.13	2.05	2.00	1.96	1.90	1.84	1.77	1.63	0.00	0.00	0.00	0.00	0.00
130E	2.27	2.27	2.27	2.32	2.25	2.18	2.11	2.04	2.00	1.96	1.90	1.83	1.76	1.63	0.00	0.00	0.00	0.00	0.00
125E	2.24	2.27	2.27	2.28	2.26	2.18	2.11	2.05	2.00	1.95	1.90	1.82	1.75	1.63	0.00	0.00	0.00	0.00	0.00
120E	2.24	2.27	2.27	2.25	2.25	2.19	2.12	2.05	2.00	1.95	1.88	1.82	1.75	1.64	0.00	0.00	0.00	0.00	0.00
115E	2.24	2.27	2.26	2.23	2.19	2.17	2.10	2.05	1.99	1.94	1.87	1.81	1.74	1.65	0.00	0.00	0.00	0.00	0.00
110E	2.27	2.27	2.26	2.23	2.18	2.14	2.09	2.04	1.99	1.94	1.86	1.81	1.74	1.64	0.00	0.00	0.00	0.00	0.00
105E	2.27	2.24	2.26	2.23	2.18	2.14	2.04	2.03	1.99	1.93	1.86	1.81	1.73	1.64	0.00	0.00	0.00	0.00	0.00
100E	2.25	2.26	2.25	2.23	2.18	2.13	2.04	2.03	1.99	1.93	1.86	1.80	1.73	1.64	0.00	0.00	0.00	0.00	0.00
95E	2.24	2.27	2.25	2.22	2.18	2.13	2.04	2.03	1.99	1.93	1.86	1.80	1.73	1.64	0.00	0.00	0.00	0.00	0.00
90E	2.27	2.27	2.25	2.22	2.18	2.13	2.04	2.03	1.99	1.93	1.86	1.79	1.73	1.64	0.00	0.00	0.00	0.00	0.00
85E	2.27	2.27	2.25	2.22	2.18	2.14	2.04	2.04	1.99	1.93	1.85	1.79	1.73	1.65	0.00	0.00	0.00	0.00	0.00
80E	2.27	2.24	2.25	2.22	2.18	2.14	2.04	2.04	1.99	1.92	1.85	1.79	1.73	1.65	0.00	0.00	0.00	0.00	0.00
75E	2.27	2.24	2.25	2.22	2.18	2.15	2.00	2.04	1.99	1.92	1.85	1.79	1.73	1.65	0.00	0.00	0.00	0.00	0.00
70E	2.26	2.24	2.25	2.22	2.19	2.15	2.00	2.05	2.00	1.92	1.85	1.78	1.73	1.65	0.00	0.00	0.00	0.00	0.00
65E	2.27	2.24	2.24	2.22	2.20	2.16	2.10	2.05	2.00	1.92	1.84	1.78	1.73	1.65	0.00	0.00	0.00	0.00	0.00
60E	2.24	2.26	2.24	2.22	2.20	2.16	2.11	2.06	2.00	1.92	1.84	1.78	1.73	1.64	0.00	0.00	0.00	0.00	0.00
55E	2.26	2.25	2.24	2.22	2.20	2.17	2.12	2.06	2.00	1.91	1.83	1.78	1.72	1.63	0.00	0.00	0.00	0.00	0.00
50E	2.25	2.25	2.23	2.19	2.19	2.18	2.13	2.07	2.00	1.90	1.83	1.78	1.72	1.64	0.00	0.00	0.00	0.00	0.00
45E	2.27	2.24	2.23	2.25	2.20	2.16	2.15	2.09	2.00	1.90	1.83	1.78	1.72	1.65	0.00	0.00	0.00	0.00	0.00
40E	2.28	2.25	2.24	2.24	2.23	2.20	2.15	2.09	2.01	1.92	1.83	1.77	1.72	1.66	1.44	0.00	0.00	0.00	0.00
35E	2.12	2.19	2.17	2.19	2.21	2.20	2.16	2.10	2.02	1.92	1.84	1.77							

TABLE 5N RADIATIVE COOLING VALUES (C/DAY) AT 450-MM OCTOBER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	2.06	2.07	2.08	2.07	2.04	2.01	1.96	1.90	1.83	1.77	1.70	1.65	1.61	1.56	1.50	0.00	0.00	0.00	1.22
5W	2.06	2.07	2.07	2.05	2.03	1.99	1.95	1.89	1.83	1.77	1.71	1.65	1.61	1.57	1.51	1.44	2.23	1.28	1.22
10W	2.07	2.06	2.05	2.04	2.02	1.99	1.95	1.89	1.83	1.77	1.71	1.66	1.61	1.57	1.52	1.45	2.22	1.28	1.22
15W	2.07	2.06	2.05	2.03	2.01	1.99	1.95	1.90	1.83	1.77	1.72	1.66	1.62	1.58	1.53	1.47	0.00	1.29	1.22
20W	2.07	2.06	2.04	2.03	2.01	1.99	1.95	1.90	1.84	1.77	1.72	1.67	1.63	1.59	1.54	1.49	2.19	1.30	1.22
25W	2.07	2.05	2.04	2.02	2.01	1.98	1.95	1.90	1.84	1.77	1.73	1.68	1.64	1.60	1.55	1.50	2.18	1.30	1.22
30W	2.08	2.06	2.03	2.02	2.01	1.98	1.95	1.90	1.84	1.78	1.73	1.69	1.65	1.61	1.56	1.51	2.17	1.31	1.22
35W	2.09	2.06	2.04	2.03	2.01	1.99	1.95	1.90	1.84	1.79	1.74	1.70	1.66	1.61	1.57	1.52	1.44	1.31	1.22
40W	2.09	2.07	2.06	2.05	2.03	2.00	1.96	1.91	1.85	1.79	1.75	1.71	1.66	1.62	1.58	1.53	2.16	1.31	1.22
45W	2.09	2.09	2.09	2.08	2.06	2.02	1.97	1.91	1.86	1.81	1.76	1.72	1.67	1.62	1.58	1.53	2.16	1.31	1.22
50W	2.09	2.10	2.11	2.10	2.08	2.04	1.99	1.93	1.87	1.82	1.77	1.73	1.68	1.63	1.58	1.53	2.16	1.31	1.22
55W	2.09	2.10	2.11	2.11	2.10	2.06	2.01	1.94	1.88	1.83	1.78	1.74	1.69	1.64	1.58	1.52	2.17	1.31	1.22
60W	2.09	2.11	2.11	2.11	2.10	2.07	2.02	1.95	1.89	1.84	1.79	1.74	1.70	1.64	1.57	1.51	2.18	1.30	1.22
65W	2.09	2.11	2.11	2.11	2.10	2.07	2.02	1.95	1.89	1.84	1.80	1.75	1.70	1.64	1.57	1.50	2.19	1.30	1.22
70W	2.08	2.10	2.10	2.10	2.09	2.06	2.02	1.95	1.89	1.84	1.79	1.75	1.70	1.64	1.56	1.48	2.21	1.29	1.22
75W	2.07	2.09	2.09	2.08	2.07	2.04	2.00	1.94	1.87	1.83	1.79	1.75	1.70	1.64	1.56	1.47	2.22	1.28	1.22
80W	2.08	2.08	2.08	2.06	2.04	2.01	1.98	1.93	1.87	1.83	1.79	1.75	1.70	1.64	1.55	1.45	2.24	1.27	1.22
85W	2.09	2.08	2.07	2.05	2.02	1.99	1.96	1.92	1.87	1.84	1.80	1.76	1.70	1.64	1.55	1.44	2.25	1.27	1.22
90W	2.10	2.09	2.07	2.05	2.02	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.64	1.55	1.43	2.26	1.26	1.22
95W	2.10	2.09	2.08	2.05	2.02	1.98	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.64	1.54	1.42	2.27	1.26	1.22
100W	2.10	2.09	2.08	2.05	2.02	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.64	1.54	1.42	2.28	1.26	1.22
105W	2.10	2.09	2.08	2.06	2.03	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.64	1.54	1.42	2.28	1.26	1.22
110W	2.10	2.10	2.09	2.06	2.03	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.64	1.54	1.42	2.28	1.26	1.22
115W	2.10	2.10	2.09	2.07	2.03	2.00	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.63	1.54	1.43	2.27	1.26	1.22
120W	2.10	2.10	2.09	2.07	2.03	2.00	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.63	1.54	1.43	2.26	1.26	1.22
125W	2.10	2.10	2.09	2.07	2.03	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.63	1.54	1.44	2.25	1.27	1.22
130W	2.09	2.10	2.09	2.07	2.03	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.63	1.54	1.45	2.24	1.27	1.22
135W	2.09	2.10	2.09	2.07	2.04	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.70	1.62	1.54	1.46	2.23	1.28	1.22
140W	2.09	2.09	2.09	2.07	2.04	1.99	1.95	1.91	1.87	1.84	1.80	1.76	1.69	1.62	1.54	1.47	2.21	1.28	1.22
145W	2.08	2.09	2.09	2.07	2.04	1.99	1.94	1.91	1.87	1.84	1.80	1.76	1.69	1.61	1.54	1.47	2.20	1.29	1.22
150W	2.08	2.08	2.09	2.07	2.04	1.99	1.94	1.91	1.87	1.84	1.80	1.75	1.69	1.61	1.53	1.48	2.19	1.30	1.22
155W	2.08	2.09	2.09	2.08	2.04	1.99	1.94	1.90	1.87	1.84	1.80	1.75	1.68	1.60	1.53	1.48	2.19	1.30	1.22
160W	2.08	2.09	2.09	2.08	2.04	1.99	1.94	1.90	1.87	1.84	1.80	1.75	1.68	1.60	1.53	1.48	2.19	1.30	1.22
165W	2.08	2.10	2.10	2.08	2.04	1.98	1.94	1.90	1.87	1.84	1.80	1.75	1.68	1.60	1.52	1.47	2.19	1.30	1.22
170W	2.09	2.10	2.10	2.08	2.04	1.98	1.93	1.90	1.87	1.84	1.80	1.75	1.68	1.59	1.52	1.47	2.19	1.30	1.22
175W	2.10	2.11	2.11	2.09	2.04	1.98	1.93	1.90	1.87	1.84	1.81	1.75	1.68	1.59	1.51	1.46	2.19	1.30	1.22
180W	2.11	2.11	2.11	2.09	2.04	1.98	1.93	1.90	1.88	1.85	1.81	1.75	1.68	1.59	1.50	1.45	2.20	1.30	1.22
-175E	2.11	2.11	2.11	2.09	2.03	1.98	1.93	1.91	1.89	1.86	1.81	1.75	1.67	1.58	1.49	1.43	2.21	1.29	1.22
-170E	2.11	2.12	2.11	2.08	2.03	1.97	1.93	1.90	1.88	1.86	1.81	1.74	1.67	1.58	1.47	1.41	2.23	1.29	1.22
-165E	2.12	2.12	2.11	2.07	2.02	1.97	1.93	1.90	1.87	1.85	1.80	1.74	1.67	1.57	1.46	1.40	2.24	1.28	1.22
-160E	2.12	2.11	2.10	2.06	2.01	1.97	1.94	1.90	1.87	1.84	1.80	1.74	1.66	1.56	1.45	0.00	0.00	0.00	0.00
-155E	2.11	2.10	2.08	2.05	2.02	1.99	1.96	1.91	1.87	1.84	1.80	1.74	1.66	1.56	1.44	0.00	0.00	0.00	0.00
-150E	2.11	2.09	2.07	2.05	2.04	2.01	1.94	1.91	1.87	1.83	1.79	1.73	1.66	1.55	0.00	0.00	0.00	0.00	0.00
-145E	2.11	2.10	2.08	2.04	2.07	2.04	1.98	1.91	1.84	1.83	1.79	1.73	1.65	1.55	0.00	0.00	0.00	0.00	0.00
-140E	2.12	2.11	2.10	2.11	2.11	2.06	1.98	1.91	1.86	1.83	1.78	1.72	1.64	1.55	0.00	0.00	0.00	0.00	0.00
-135E	2.11	2.11	2.12	2.13	2.12	2.07	1.99	1.91	1.84	1.82	1.76	1.71	1.64	1.54	0.00	0.00	0.00	0.00	0.00
-130E	2.11	2.11	2.11	2.13	2.13	2.08	1.99	1.91	1.86	1.82	1.76	1.70	1.63	1.54	0.00	0.00	0.00	0.00	0.00
-125E	2.10	2.10	2.11	2.13	2.13	2.07	1.98	1.90	1.85	1.81	1.75	1.69	1.62	1.53	0.00	0.00	0.00	0.00	0.00
-120E	2.10	2.10	2.10	2.12	2.12	2.06	1.97	1.89	1.84	1.80	1.74	1.68	1.61	1.53	0.00	0.00	0.00	0.00	0.00
-115E	2.10	2.09	2.09	2.09	2.08	2.03	1.94	1.88	1.84	1.79	1.73	1.67	1.61	1.53	0.00	0.00	0.00	0.00	0.00
-110E	2.10	2.09	2.08	2.07	2.04	1.99	1.92	1.87	1.83	1.78	1.73	1.66	1.60	1.53	0.00	0.00	0.00	0.00	0.00
-105E	2.10	2.08	2.07	2.05	2.02	1.97	1.91	1.87	1.83	1.78	1.72	1.66	1.60	1.53	0.00	0.00	0.00	0.00	0.00
-100E	2.09	2.08	2.06	2.04	2.01	1.96	1.91	1.87	1.83	1.77	1.71	1.65	1.59	1.53	0.00	0.00	0.00	0.00	0.00
-95E	2.08	2.07	2.05	2.03	2.01	1.96	1.92	1.87	1.82	1.77	1.70	1.65	1.59	1.53	0.00	0.00	0.00	0.00	0.00
-90E	2.07	2.06	2.05	2.03	2.00	1.96	1.92	1.87	1.82	1.76	1.70	1.64	1.59	1.53	0.00	0.00	0.00	0.00	0.00
-85E	2.07	2.06	2.04	2.03	2.00	1.97	1.93	1.87	1.82	1.76	1.69	1.64	1.59	1.53	0.00	0.00	0.00	0.00	0.00
-80E	2.07	2.06	2.04	2.03	2.00	1.97	1.93	1.88	1.82	1.76	1.69	1.64	1.59	1.53	0.00	0.00	0.00	0.00	0.00
-75E	2.06	2.05	2.04	2.02	2.00	1.97	1.93	1.88	1.83	1.76	1.69	1.64	1.59	1.53	0.00	0.00	0.00	0.00	0.00
-70E	2.06	2.05	2.04	2.03	2.00	1.98	1.94	1.89	1.83	1.76	1.69	1.64	1.59	1.52	0.00	0.00	0.00	0.00	0.00
-65E	2.06	2.05	2.04	2.03	2.01	1.98	1.94	1.89	1.83	1.76	1.69	1.64	1.59	1.52	0.00	0.00	0.00	0.00	0.00
-60E	2.06	2.06	2.04	2.03	2.01	1.98	1.94	1.90	1.83	1.76	1.69	1.64	1.59	1.52	0.00	0.00	0.00	0.00	0.00
-55E	2.07	2.06	2.05	2.03	2.01	1.99	1.95	1.90	1.84	1.77	1.70	1.64	1.59	1.52	0.00	0.00	0.00	0.00	0.00
-50E	2.07	2.06	2.06	2.04	2.02	2.00	1.96	1.91	1.84	1.77	1.70	1.64	1.59	1.53	0.00	0.00	0.00	0.00	0.00
-45E	2.08	2.07	2.07	2.07	2.05	2.02	1.98	1.92	1.85	1.77	1.70	1.64	1.59	1.54	0.00	0.00	0.00	0.00	0.00
-40E	2.10	2.08	2.08	2.08	2.06	2.03	2.00	1.94	1.86	1.78	1.70	1.64	1.60	1.54	1.47	0.00	0.00	0.00	0.00
-35E	2.12	2.10	2.10																

TABLE 50 - RADIATIVE COOLING VALUES (C/DAY) AT 700-MH - OCTOBER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905	
0	1.06	1.07	1.08	1.08	1.06	1.02	1.84	1.80	1.73	1.67	1.61	1.56	1.50	1.45	1.41	0.00	0.00	0.00	1.31	
5W	1.06	1.06	1.06	1.06	1.05	1.01	1.85	1.79	1.73	1.67	1.61	1.56	1.51	1.46	1.42	1.39	1.36	1.34	1.31	
10W	1.06	1.06	1.06	1.05	1.03	1.00	1.84	1.78	1.72	1.67	1.62	1.57	1.51	1.47	1.42	1.39	1.37	1.34	1.31	
15W	1.06	1.06	1.05	1.04	1.02	1.89	1.84	1.78	1.73	1.67	1.62	1.57	1.52	1.47	1.43	1.40	0.00	1.34	1.31	
20W	1.06	1.05	1.05	1.04	1.02	1.88	1.83	1.78	1.73	1.68	1.63	1.58	1.53	1.48	1.41	1.41	1.38	1.34	1.31	
25W	1.06	1.05	1.05	1.04	1.01	1.88	1.84	1.79	1.73	1.68	1.63	1.58	1.53	1.49	1.44	1.41	1.38	1.35	1.31	
30W	1.06	1.05	1.05	1.04	1.01	1.88	1.84	1.79	1.74	1.69	1.64	1.59	1.54	1.49	1.45	1.42	1.38	1.35	1.31	
35W	1.06	1.05	1.05	1.04	1.02	1.88	1.84	1.79	1.74	1.69	1.64	1.59	1.54	1.50	1.45	1.42	1.39	1.35	1.31	
40W	1.06	1.06	1.05	1.04	1.02	1.89	1.85	1.80	1.74	1.69	1.64	1.60	1.55	1.50	1.46	1.42	1.39	1.35	1.31	
45W	1.06	1.06	1.06	1.05	1.04	1.90	1.86	1.80	1.75	1.69	1.65	1.60	1.55	1.50	1.46	1.42	1.39	1.35	1.31	
50W	1.05	1.06	1.07	1.06	1.05	1.91	1.86	1.81	1.75	1.69	1.65	1.60	1.55	1.50	1.46	1.43	1.39	1.35	1.31	
55W	1.05	1.06	1.07	1.07	1.06	1.93	1.87	1.81	1.75	1.69	1.65	1.60	1.55	1.50	1.46	1.43	1.39	1.35	1.31	
60W	1.04	1.06	1.07	1.08	1.07	1.94	1.88	1.81	1.74	1.69	1.65	1.60	1.56	1.50	1.46	1.43	1.39	1.35	1.31	
65W	1.04	1.06	1.08	1.08	1.08	1.95	1.89	1.81	1.74	1.69	1.65	1.60	1.54	1.50	1.46	1.42	1.39	1.35	1.31	
70W	1.04	1.06	1.08	1.08	1.07	1.94	1.88	1.81	1.74	1.68	1.64	1.60	1.56	1.50	1.46	1.42	1.39	1.35	1.31	
75W	1.04	1.06	1.08	1.08	1.07	1.95	1.91	1.86	1.79	1.73	1.68	1.64	1.60	1.56	1.50	1.46	1.42	1.39	1.35	1.31
80W	1.05	1.06	1.07	1.05	1.02	1.88	1.83	1.77	1.72	1.68	1.65	1.61	1.56	1.50	1.46	1.42	1.39	1.35	1.31	
85W	1.06	1.06	1.05	1.03	1.89	1.85	1.80	1.76	1.72	1.69	1.66	1.62	1.56	1.51	1.45	1.42	1.39	1.35	1.31	
90W	1.06	1.06	1.04	1.02	1.84	1.83	1.79	1.75	1.72	1.70	1.67	1.62	1.57	1.51	1.45	1.42	1.38	1.35	1.31	
95W	1.06	1.05	1.04	1.01	1.87	1.82	1.79	1.75	1.73	1.70	1.67	1.63	1.57	1.50	1.45	1.41	1.38	1.35	1.31	
100W	1.06	1.05	1.04	1.01	1.87	1.83	1.79	1.75	1.73	1.70	1.67	1.63	1.57	1.50	1.45	1.41	1.38	1.34	1.31	
105W	1.07	1.05	1.04	1.01	1.87	1.83	1.79	1.75	1.73	1.70	1.68	1.63	1.57	1.50	1.45	1.41	1.38	1.34	1.31	
110W	1.07	1.06	1.04	1.02	1.89	1.84	1.79	1.76	1.73	1.70	1.67	1.63	1.57	1.50	1.45	1.40	1.37	1.34	1.31	
115W	1.08	1.06	1.05	1.03	1.89	1.84	1.80	1.76	1.73	1.70	1.67	1.63	1.57	1.50	1.44	1.40	1.37	1.34	1.31	
120W	1.08	1.07	1.06	1.04	1.90	1.85	1.80	1.76	1.73	1.70	1.67	1.63	1.57	1.50	1.44	1.40	1.36	1.34	1.31	
125W	1.08	1.07	1.06	1.04	1.91	1.86	1.81	1.76	1.73	1.70	1.67	1.63	1.57	1.50	1.44	1.39	1.36	1.33	1.31	
130W	1.08	1.08	1.06	1.04	1.91	1.86	1.81	1.77	1.73	1.70	1.67	1.63	1.57	1.50	1.43	1.38	1.35	1.33	1.31	
135W	1.08	1.08	1.07	1.05	1.91	1.86	1.81	1.77	1.74	1.70	1.67	1.63	1.57	1.49	1.43	1.38	1.35	1.33	1.31	
140W	1.07	1.08	1.07	1.05	1.91	1.86	1.81	1.77	1.74	1.71	1.67	1.63	1.56	1.49	1.42	1.37	1.34	1.32	1.31	
145W	1.07	1.07	1.07	1.05	1.91	1.86	1.81	1.77	1.74	1.71	1.67	1.63	1.56	1.49	1.41	1.36	1.34	1.32	1.31	
150W	1.07	1.07	1.06	1.05	1.91	1.86	1.81	1.77	1.74	1.71	1.67	1.63	1.56	1.48	1.41	1.36	1.33	1.32	1.31	
155W	1.06	1.06	1.06	1.05	1.92	1.86	1.81	1.77	1.74	1.71	1.67	1.63	1.56	1.48	1.43	1.35	1.33	1.31	1.31	
160W	1.06	1.07	1.07	1.05	1.92	1.87	1.82	1.77	1.74	1.71	1.67	1.63	1.56	1.47	1.39	1.34	1.32	1.31	1.31	
165W	1.07	1.07	1.07	1.06	1.92	1.87	1.82	1.77	1.74	1.71	1.68	1.63	1.56	1.47	1.39	1.34	1.32	1.31	1.31	
170W	1.07	1.08	1.08	1.06	1.93	1.87	1.82	1.77	1.74	1.72	1.68	1.63	1.56	1.47	1.38	1.33	1.31	1.30	1.31	
175W	1.07	1.08	1.08	1.06	1.93	1.87	1.82	1.78	1.75	1.72	1.68	1.62	1.56	1.46	1.38	1.33	1.31	1.30	1.31	
180W	1.07	1.08	1.08	1.06	1.93	1.87	1.82	1.78	1.75	1.72	1.68	1.62	1.56	1.46	1.38	1.32	1.30	1.30	1.31	
175E	1.07	1.07	1.07	1.06	1.93	1.87	1.82	1.78	1.75	1.72	1.68	1.62	1.56	1.46	1.37	1.32	1.30	1.30	1.31	
170E	1.06	1.07	1.07	1.06	1.92	1.87	1.82	1.77	1.75	1.72	1.67	1.62	1.55	1.46	1.37	1.32	1.29	1.29	1.31	
165E	1.06	1.06	1.06	1.05	1.92	1.87	1.82	1.77	1.74	1.71	1.67	1.62	1.55	1.46	1.37	1.31	1.29	1.29	1.31	
160E	1.06	1.06	1.05	1.04	1.92	1.87	1.82	1.77	1.74	1.70	1.66	1.62	1.55	1.46	1.36	0.00	0.00	0.00	0.00	
155E	1.06	1.05	1.05	1.04	1.92	1.87	1.82	1.77	1.73	1.70	1.66	1.61	1.55	1.46	1.36	0.00	0.00	0.00	0.00	
150E	1.06	1.05	1.05	1.04	1.92	1.87	1.82	1.77	1.73	1.69	1.65	1.61	1.55	1.46	0.00	0.00	0.00	0.00	0.00	
145E	1.06	1.05	1.05	1.04	1.92	1.88	1.82	1.77	1.73	1.68	1.64	1.60	1.55	1.45	0.00	0.00	0.00	0.00	0.00	
140E	1.06	1.05	1.04	1.03	1.92	1.88	1.83	1.77	1.72	1.68	1.64	1.60	1.54	1.45	0.00	0.00	0.00	0.00	0.00	
135E	1.06	1.05	1.05	1.03	1.92	1.89	1.83	1.77	1.72	1.67	1.63	1.59	1.53	1.44	0.00	0.00	0.00	0.00	0.00	
130E	1.06	1.06	1.05	1.03	1.92	1.89	1.83	1.77	1.72	1.67	1.63	1.58	1.52	1.44	0.00	0.00	0.00	0.00	0.00	
125E	1.06	1.06	1.05	1.04	1.92	1.89	1.83	1.77	1.72	1.67	1.62	1.57	1.51	1.43	0.00	0.00	0.00	0.00	0.00	
120E	1.06	1.06	1.06	1.05	1.92	1.88	1.83	1.77	1.72	1.67	1.62	1.57	1.50	1.43	0.00	0.00	0.00	0.00	0.00	
115E	1.05	1.06	1.06	1.05	1.92	1.87	1.82	1.77	1.72	1.67	1.61	1.56	1.50	1.43	0.00	0.00	0.00	0.00	0.00	
110E	1.05	1.05	1.06	1.05	1.92	1.87	1.81	1.77	1.72	1.67	1.61	1.55	1.49	1.43	0.00	0.00	0.00	0.00	0.00	
105E	1.04	1.05	1.06	1.04	1.91	1.86	1.81	1.77	1.72	1.66	1.60	1.55	1.49	1.42	0.00	0.00	0.00	0.00	0.00	
100E	1.04	1.05	1.05	1.04	1.90	1.86	1.82	1.77	1.72	1.66	1.60	1.54	1.48	1.42	0.00	0.00	0.00	0.00	0.00	
95E	1.04	1.05	1.05	1.03	1.90	1.86	1.82	1.77	1.72	1.66	1.59	1.53	1.48	1.42	0.00	0.00	0.00	0.00	0.00	
90E	1.05	1.04	1.04	1.02	1.90	1.87	1.83	1.78	1.73	1.68	1.59	1.53	1.47	1.42	0.00	0.00	0.00	0.00	0.00	
85E	1.04	1.04	1.03	1.01	1.90	1.87	1.84	1.79	1.73	1.66	1.58	1.52	1.47	1.41	0.00	0.00	0.00	0.00	0.00	
80E	1.04	1.03	1.02	1.01	1.90	1.88	1.85	1.80	1.73	1.66	1.58	1.52	1.47	1.41	0.00	0.00	0.00	0.00	0.00	
75E	1.04	1.03	1.02	1.01	1.90	1.88	1.85	1.80	1.73	1.66	1.58	1.52	1.46	1.41	0.00	0.00	0.00	0.00	0.00	
70E	1.04	1.04	1.03	1.02	1.91	1.89	1.84	1.81	1.74	1.66	1.58	1.52	1.46	1.41	0.00	0.00	0.00	0.00	0.00	
65E	1.05	1.05	1.04	1.02	1.91	1.89	1.86	1.81	1.74	1.66	1.58	1.52	1.46	1.41	0.00	0.00	0.00	0.00	0.00	
60E	1.06	1.05	1.04	1.03	1.91	1.90	1.87	1.82	1.75	1.67	1.59	1.52	1.46	1.40	0.00	0.00	0.00	0.00	0.00	
55E	1.06	1.05	1.04	1.02	1.91	1.90	1.87	1.83	1.75	1.67	1.59	1.52	1.46	1.40	0.00	0.00	0.00	0.00	0.00	
50E	1.05	1.04	1.03	1.02	1.91	1.90	1.87	1.83	1.76	1.67	1.59	1.52	1.46	1.40	0.00	0.00	0.00	0.00	0.00	
45E	1.05	1.04	1.03	1.02	1.91	1.90	1.91	1.83	1.76	1.68	1.59	1.52	1.46	1.40	0.00	0.00	0.00	0.00	0.00	
40E	1.05	1.04	1.03	1.03	1.92	1.91	1.89	1.83	1.76	1.67	1.60	1.52	1.46	1.41	1.36	0.00	0.00	0.00	0.00	
35E	1.05	1.04	1.04	1.04	1.94	1.93	1.90	1.84	1.76											

TABLE 5P RADIATIVE COOLING VALUES (C/DAY) AT 500-MIL OCTOBER

	05	55	105	155	205	255	305	355	405	455	505	555	605	655	705	755	805	855	905
0	1.69	1.69	1.68	1.67	1.65	1.61	1.57	1.52	1.46	1.41	1.35	1.29	1.25	1.21	1.17	0.00	0.00	0.00	1.07
5W	1.69	1.69	1.68	1.67	1.64	1.60	1.56	1.51	1.46	1.40	1.35	1.30	1.25	1.22	1.18	1.14	1.11	1.08	1.07
10W	1.70	1.69	1.68	1.66	1.63	1.60	1.56	1.51	1.46	1.40	1.35	1.30	1.24	1.22	1.18	1.15	1.11	1.08	1.07
15W	1.70	1.70	1.68	1.66	1.63	1.60	1.56	1.51	1.46	1.40	1.35	1.31	1.27	1.23	1.19	1.15	0.00	1.09	1.07
20W	1.70	1.70	1.69	1.66	1.63	1.60	1.56	1.51	1.46	1.41	1.35	1.31	1.27	1.23	1.19	1.16	1.12	1.09	1.07
25W	1.70	1.70	1.69	1.66	1.63	1.60	1.56	1.51	1.46	1.41	1.36	1.31	1.27	1.24	1.20	1.16	1.12	1.09	1.07
30W	1.70	1.70	1.68	1.66	1.64	1.60	1.56	1.51	1.46	1.41	1.36	1.32	1.28	1.24	1.20	1.16	1.12	1.09	1.07
35W	1.70	1.70	1.68	1.66	1.64	1.61	1.57	1.52	1.46	1.41	1.36	1.32	1.28	1.24	1.20	1.16	1.13	1.09	1.07
40W	1.70	1.70	1.68	1.67	1.65	1.62	1.58	1.52	1.46	1.41	1.36	1.32	1.28	1.24	1.20	1.16	1.13	1.09	1.07
45W	1.70	1.70	1.69	1.68	1.66	1.63	1.59	1.53	1.47	1.41	1.36	1.32	1.28	1.24	1.20	1.16	1.13	1.10	1.07
50W	1.70	1.70	1.69	1.68	1.67	1.64	1.59	1.53	1.47	1.41	1.36	1.32	1.28	1.24	1.20	1.16	1.13	1.10	1.07
55W	1.69	1.70	1.70	1.69	1.67	1.65	1.60	1.53	1.47	1.41	1.36	1.32	1.28	1.24	1.20	1.16	1.13	1.10	1.07
60W	1.69	1.70	1.70	1.69	1.68	1.65	1.60	1.53	1.46	1.41	1.36	1.33	1.28	1.24	1.20	1.16	1.13	1.10	1.07
65W	1.69	1.70	1.70	1.69	1.67	1.64	1.59	1.52	1.46	1.41	1.36	1.33	1.28	1.24	1.20	1.16	1.13	1.10	1.07
70W	1.69	1.70	1.70	1.69	1.67	1.64	1.58	1.51	1.45	1.41	1.36	1.33	1.28	1.24	1.20	1.16	1.13	1.10	1.07
75W	1.70	1.70	1.70	1.69	1.67	1.63	1.57	1.51	1.45	1.41	1.36	1.33	1.28	1.24	1.19	1.16	1.13	1.10	1.07
80W	1.70	1.70	1.69	1.68	1.66	1.62	1.56	1.50	1.45	1.41	1.36	1.33	1.28	1.23	1.19	1.16	1.13	1.10	1.07
85W	1.70	1.70	1.69	1.68	1.66	1.62	1.56	1.50	1.45	1.41	1.37	1.33	1.28	1.23	1.19	1.16	1.13	1.10	1.07
90W	1.70	1.69	1.68	1.68	1.66	1.61	1.55	1.50	1.45	1.41	1.37	1.33	1.28	1.23	1.19	1.16	1.13	1.10	1.07
95W	1.70	1.69	1.68	1.67	1.65	1.61	1.55	1.50	1.45	1.41	1.37	1.33	1.28	1.23	1.19	1.16	1.13	1.10	1.07
100W	1.70	1.69	1.68	1.67	1.65	1.60	1.55	1.50	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.16	1.13	1.10	1.07
105W	1.70	1.69	1.68	1.67	1.65	1.60	1.55	1.50	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.16	1.13	1.10	1.07
110W	1.70	1.69	1.68	1.67	1.65	1.60	1.55	1.50	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.16	1.13	1.10	1.07
115W	1.70	1.69	1.68	1.67	1.64	1.60	1.55	1.50	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.16	1.14	1.10	1.07
120W	1.70	1.69	1.68	1.67	1.64	1.60	1.55	1.50	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.17	1.14	1.10	1.07
125W	1.70	1.69	1.68	1.67	1.65	1.60	1.55	1.50	1.46	1.42	1.38	1.33	1.28	1.23	1.19	1.17	1.14	1.10	1.07
130W	1.70	1.69	1.68	1.67	1.65	1.60	1.55	1.50	1.46	1.42	1.38	1.34	1.28	1.23	1.20	1.17	1.13	1.10	1.07
135W	1.70	1.69	1.69	1.68	1.65	1.60	1.55	1.50	1.46	1.42	1.38	1.34	1.28	1.24	1.20	1.17	1.13	1.10	1.07
140W	1.71	1.70	1.69	1.68	1.65	1.60	1.55	1.50	1.46	1.42	1.39	1.34	1.28	1.24	1.20	1.17	1.13	1.10	1.07
145W	1.71	1.70	1.69	1.68	1.66	1.61	1.55	1.50	1.46	1.42	1.39	1.34	1.29	1.24	1.20	1.16	1.13	1.10	1.07
150W	1.71	1.70	1.70	1.69	1.66	1.61	1.55	1.50	1.46	1.42	1.39	1.34	1.29	1.24	1.19	1.16	1.13	1.10	1.07
155W	1.70	1.70	1.70	1.69	1.66	1.61	1.55	1.50	1.46	1.43	1.39	1.34	1.29	1.24	1.19	1.16	1.13	1.09	1.07
160W	1.70	1.70	1.70	1.69	1.67	1.61	1.55	1.50	1.46	1.43	1.39	1.34	1.29	1.23	1.19	1.15	1.12	1.09	1.07
165W	1.70	1.70	1.70	1.70	1.67	1.62	1.55	1.50	1.46	1.43	1.39	1.35	1.29	1.23	1.19	1.15	1.12	1.09	1.07
170W	1.70	1.71	1.71	1.70	1.67	1.62	1.55	1.50	1.46	1.43	1.40	1.35	1.29	1.23	1.18	1.14	1.11	1.09	1.07
175W	1.70	1.72	1.71	1.70	1.67	1.62	1.55	1.50	1.47	1.44	1.40	1.35	1.29	1.23	1.17	1.14	1.11	1.08	1.07
180W	1.70	1.72	1.72	1.70	1.67	1.61	1.55	1.50	1.47	1.44	1.40	1.35	1.29	1.22	1.17	1.13	1.10	1.08	1.07
175E	1.70	1.72	1.72	1.70	1.67	1.61	1.55	1.50	1.47	1.44	1.40	1.35	1.29	1.22	1.16	1.12	1.09	1.08	1.07
170E	1.71	1.72	1.71	1.70	1.67	1.61	1.55	1.50	1.47	1.44	1.40	1.35	1.28	1.21	1.15	1.11	1.09	1.08	1.07
165E	1.71	1.71	1.71	1.70	1.67	1.61	1.55	1.50	1.47	1.44	1.40	1.35	1.28	1.20	1.14	1.11	1.08	1.07	1.07
160E	1.71	1.71	1.71	1.70	1.67	1.61	1.55	1.49	1.46	1.43	1.40	1.35	1.27	1.20	1.14	0.00	0.00	0.00	0.00
155E	1.70	1.70	1.71	1.70	1.67	1.61	1.54	1.49	1.46	1.43	1.39	1.34	1.27	1.20	1.14	0.00	0.00	0.00	0.00
150E	1.70	1.70	1.70	1.70	1.67	1.61	1.54	1.49	1.46	1.42	1.38	1.33	1.27	1.19	0.00	0.00	0.00	0.00	0.00
145E	1.69	1.70	1.70	1.70	1.67	1.61	1.54	1.49	1.45	1.42	1.38	1.33	1.26	1.19	0.00	0.00	0.00	0.00	0.00
140E	1.70	1.70	1.70	1.70	1.67	1.61	1.54	1.49	1.45	1.41	1.37	1.32	1.26	1.19	0.00	0.00	0.00	0.00	0.00
135E	1.70	1.70	1.70	1.70	1.67	1.61	1.54	1.49	1.45	1.41	1.36	1.32	1.26	1.19	0.00	0.00	0.00	0.00	0.00
130E	1.71	1.70	1.70	1.70	1.67	1.61	1.55	1.49	1.45	1.41	1.36	1.31	1.25	1.19	0.00	0.00	0.00	0.00	0.00
125E	1.70	1.70	1.70	1.70	1.67	1.61	1.55	1.49	1.45	1.40	1.36	1.31	1.25	1.19	0.00	0.00	0.00	0.00	0.00
120E	1.70	1.70	1.70	1.69	1.66	1.61	1.55	1.50	1.45	1.41	1.36	1.30	1.25	1.19	0.00	0.00	0.00	0.00	0.00
115E	1.70	1.70	1.70	1.69	1.66	1.61	1.55	1.50	1.45	1.41	1.35	1.30	1.24	1.19	0.00	0.00	0.00	0.00	0.00
110E	1.70	1.70	1.70	1.69	1.66	1.61	1.55	1.50	1.46	1.41	1.35	1.30	1.24	1.18	0.00	0.00	0.00	0.00	0.00
105E	1.69	1.70	1.70	1.69	1.66	1.61	1.54	1.51	1.46	1.41	1.35	1.29	1.24	1.18	0.00	0.00	0.00	0.00	0.00
100E	1.69	1.70	1.70	1.69	1.66	1.61	1.54	1.51	1.47	1.42	1.35	1.28	1.23	1.18	0.00	0.00	0.00	0.00	0.00
95E	1.69	1.70	1.70	1.69	1.66	1.61	1.54	1.51	1.53	1.41	1.34	1.28	1.23	1.18	0.00	0.00	0.00	0.00	0.00
90E	1.69	1.70	1.70	1.69	1.65	1.60	1.54	1.51	1.47	1.41	1.34	1.27	1.23	1.18	0.00	0.00	0.00	0.00	0.00
85E	1.69	1.70	1.70	1.68	1.65	1.60	1.54	1.51	1.47	1.41	1.33	1.27	1.22	1.18	0.00	0.00	0.00	0.00	0.00
80E	1.69	1.70	1.70	1.68	1.65	1.61	1.54	1.51	1.47	1.41	1.33	1.27	1.22	1.18	0.00	0.00	0.00	0.00	0.00
75E	1.70	1.70	1.69	1.68	1.65	1.61	1.54	1.51	1.47	1.40	1.33	1.26	1.22	1.18	0.00	0.00	0.00	0.00	0.00
70E	1.70	1.70	1.69	1.68	1.65	1.61	1.57	1.52	1.47	1.40	1.33	1.26	1.22	1.18	0.00	0.00	0.00	0.00	0.00
65E	1.71	1.70	1.69	1.68	1.66	1.62	1.57	1.52	1.47	1.41	1.33	1.26	1.22	1.18	0.00	0.00	0.00	0.00	0.00
60E	1.71	1.70	1.69	1.68	1.66	1.62	1.57	1.52	1.47	1.41	1.33	1.27	1.22	1.18	0.00	0.00	0.00	0.00	0.00
55E	1.71	1.70	1.69	1.68	1.66	1.62	1.58	1.53	1.48	1.42	1.34	1.27	1.22	1.18	0.00	0.00	0.00	0.00	0.00
50E	1.71	1.70	1.69	1.68	1.66	1.63	1.59	1.53	1.48	1.42	1.35	1.27	1.23	1.18	0.00	0.00	0.00	0.00	0.00
45E	1.70	1.70	1.69	1.67	1.66	1.63	1.59	1.54	1.49	1.43	1.35	1.28	1.23	1.18	0.00	0.00	0.00	0.00	0.00
40E	1.70	1.69	1.69	1.67	1.66	1.63	1.59	1.54	1.49	1.43	1.35	1.28	1.23	1.19	1.15	0.00	0.00	0.00	0.00
35E	1.68	1.69	1.68	1.67	1.66	1.64	1.60	1.55	1.49	1.43									

TABLE 6A AMPLITUDE AND PHASE SPECTRUMS OF MEAN PRECIPITABLE WATER-JANUARY

LATITUDE DEGREES SOUTH

N	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
1	286	396	496	439	614	26	101	120	131	163	222	212	187	171	122	37	36	14
2	350	229	128	212	62	266	186	127	73	38	27	19	9	10	45	37	24	7
3	136	409	536	579	440	438	293	151	80	55	33	37	26	20	22	29	23	3
4	53	272	410	497	575	352	234	127	48	34	32	29	24	22	11	18	13	1
5	156	260	219	203	219	307	255	149	59	11	15	11	9	7	15	8	5	1
6	112	133	169	144	72	40	66	33	8	21	12	12	8	5	19	10	2	1
7	111	99	22	58	110	171	149	50	29	25	11	5	3	2	19	11	7	1
8	61	98	86	94	135	135	113	81	29	20	7	4	5	4	12	9	10	1
9	70	74	119	110	95	141	109	58	38	36	3	5	2	1	11	1	11	0
10	56	79	62	68	51	48	22	40	21	10	7	1	2	2	9	5	9	1
1	288	271	247	233	321	24	37	63	97	120	124	121	113	108	160	268	257	220
2	92	96	59	355	149	300	285	299	304	292	348	4	5	295	111	167	212	187
3	225	203	197	191	181	168	164	172	162	160	207	210	187	148	54	176	216	204
4	344	262	236	216	211	187	182	176	149	58	0	356	347	345	209	226	192	204
5	302	289	280	241	218	216	216	216	212	244	217	254	266	242	179	202	154	220
6	287	345	349	319	299	192	113	153	199	286	83	82	81	68	149	165	12	180
7	280	252	246	66	66	26	24	28	0	261	259	223	159	165	107	211	299	209
8	243	182	161	111	96	96	106	96	79	111	43	166	182	148	112	233	251	244
9	233	225	196	163	125	97	89	73	83	93	346	298	305	74	96	230	217	314
10	194	196	215	213	181	219	285	207	207	49	130	177	310	292	128	190	182	270

TABLE 6B AMPLITUDE AND PHASE SPECTRUMS OF MEAN PRECIPITABLE WATER-APRIL

LATITUDE DEGREES SOUTH

N	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
1	311	354	335	239	526	79	110	86	116	146	142	139	149	149	123	44	41	21
2	209	217	198	278	43	285	198	106	70	43	30	29	31	49	25	30	24	9
3	217	369	440	481	366	377	225	62	27	19	29	30	26	20	13	21	8	3
4	55	192	283	206	235	163	142	71	30	17	24	23	21	22	23	10	7	2
5	99	143	182	192	215	261	195	141	63	30	11	2	6	8	17	4	4	1
6	70	126	159	132	78	67	65	11	35	8	8	9	8	10	6	5	4	1
7	143	169	163	217	152	158	102	15	38	21	15	9	5	11	7	3	2	1
8	79	75	90	29	49	86	72	33	6	7	4	2	2	2	5	1	2	1
9	4	24	82	58	64	83	75	65	32	20	6	3	2	4	5	2	2	1
10	54	51	73	109	49	24	26	37	13	8	7	3	2	4	2	2	1	1
1	301	304	281	256	334	71	77	82	127	134	142	142	127	109	160	202	217	216
2	95	83	38	346	277	305	298	302	295	292	262	253	278	279	97	177	173	200
3	249	211	194	173	161	147	140	158	225	264	248	233	221	208	45	185	192	208
4	134	254	253	236	210	177	169	170	186	357	5	347	331	332	217	216	190	213
5	311	286	282	234	205	199	196	197	189	170	134	61	253	196	225	204	190	212
6	312	347	1	14	33	101	109	108	203	177	94	93	105	155	97	194	198	213
7	290	294	321	339	3	2	10	340	266	266	246	216	179	154	103	209	184	217
8	279	219	208	180	40	55	65	96	191	32	13	329	170	117	284	194	215	226
9	218	263	215	160	120	79	51	65	27	47	26	354	297	290	290	191	196	218
10	191	229	257	255	241	231	280	220	203	161	125	112	341	339	246	176	214	219

AMPLITUDE IN CMS TO BE DIVIDED BY 1000

PHASE IN DEGREES MEASURED WESTWARD FROM THE GREENWICH MERIDIAN

TABLE 6C AMPLITUDE AND PHASE SPECTRUMS OF MEAN PRECIPITABLE WATER-JULY

LATITUDE DEGREES SOUTH

N	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
1	488	496	514	284	179	159	203	85	40	66	104	124	114	98	67	20	18	11
2	258	274	118	107	59	169	129	72	39	27	13	19	28	28	20	18	11	4
3	312	442	507	603	416	380	157	69	31	28	27	38	25	12	5	13	6	1
4	80	50	88	115	152	126	142	18	14	5	16	28	29	20	10	6	3	1
5	138	228	164	216	193	196	202	76	24	18	4	15	11	6	7	2	1	0
6	45	65	64	87	45	54	38	14	10	12	6	15	11	6	3	2	0	1
7	82	88	152	214	170	136	163	35	15	5	7	8	6	6	4	2	1	0
8	47	32	41	51	74	80	78	20	0	5	2	7	5	3	1	1	1	0
9	64	53	49	62	64	56	25	25	20	5	4	6	3	3	2	1	1	0
10	15	47	46	73	32	11	85	15	12	6	4	3	4	2	1	1	1	0
1	249	239	225	204	353	86	83	57	89	143	146	141	126	108	155	190	179	192
2	99	87	59	337	197	299	270	319	327	315	243	200	212	242	84	167	169	184
3	221	179	149	136	132	125	106	91	356	357	266	243	236	190	55	185	191	197
4	125	157	92	102	112	99	82	179	188	204	326	324	330	335	232	215	210	175
5	286	276	258	225	210	201	185	194	175	181	75	341	324	253	240	199	231	171
6	155	338	7	11	71	70	304	35	223	290	85	72	89	141	137	180	17	194
7	254	321	340	351	11	350	356	310	289	319	205	136	139	186	111	204	77	211
8	293	300	307	32	15	12	84	85	232	109	317	179	173	146	65	202	112	181
9	288	228	223	119	81	40	257	30	51	133	3	284	296	348	322	137	149	163
10	75	199	255	255	290	291	326	175	176	281	98	331	308	288	336	149	189	204

TABLE 6D AMPLITUDE AND PHASE SPECTRUMS OF MEAN PRECIPITABLE WATER-OCTOBER

LATITUDE DEGREES SOUTH

N	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
1	438	419	342	194	351	138	170	49	87	159	194	185	162	158	121	37	19	15
2	223	210	229	253	7	245	159	119	91	64	40	16	6	11	39	40	27	9
3	310	379	381	431	363	391	288	73	19	15	39	43	30	18	7	19	10	3
4	158	237	315	301	291	226	253	88	39	21	19	18	14	16	11	6	5	2
5	258	352	290	204	207	212	223	80	31	22	5	13	6	3	10	2	3	1
6	39	110	188	162	29	40	60	19	17	18	8	11	5	8	1	3	2	1
7	96	76	39	106	182	162	83	41	18	17	3	7	7	8	4	2	2	1
8	48	104	84	84	117	120	29	45	9	26	1	4	3	4	2	1	2	1
9	17	102	149	61	85	88	82	35	25	29	3	3	1	3	3	1	1	1
10	82	89	109	95	32	7	86	20	15	13	2	3	3	5	1	0	1	1
1	278	265	243	214	336	56	32	78	131	135	133	126	115	102	139	163	198	213
2	94	64	35	3	114	315	345	331	342	331	331	321	177	196	107	177	175	192
3	279	236	200	171	171	155	140	163	196	185	235	223	211	185	4	175	185	201
4	351	289	263	231	193	175	162	179	169	231	28	1	329	312	207	212	191	202
5	322	306	295	256	226	218	209	217	258	356	344	347	319	252	214	171	196	210
6	186	348	344	337	311	134	180	194	215	166	107	91	108	171	93	179	178	204
7	284	252	301	358	33	25	1	12	353	258	231	159	151	157	111	204	199	211
8	241	188	182	74	44	50	36	102	163	354	360	231	178	164	134	210	206	213
9	185	233	231	192	83	65	4	72	79	119	19	295	253	26	302	197	212	202
10	189	216	239	237	283	333	339	203	213	290	145	5	326	324	290	353	217	208

AMPLITUDE IN CMS TO BE DIVIDED BY 1000

PHASE IN DEGREES MEASURED WESTWARD FROM THE GREENWICH MERIDIAN

TABLE 7 LATITUDINAL AND LONGITUDINAL EXTENT OF
DIFFERENT REGIONS

SOUTH AMERICA	BRAZIL	AFRICA	AUSTRALIA
LAT LONG	LAT LONG	LAT LONG	LAT LONG
00S 45W-85W	00S 30W	00S 15E-45E	00S 100E-115E
05S 35W-80W	TO TO	05S 15E-40E	05S 140E-145E
10S 40W-75W	30S 85W	10S 15E-35E	10S 145E-150E
15S 40W-75W		15S 15E-35E	15S 130E-145E
20S 50W-70W		20S 15E-35E	20S 125E-145E
25S 55W-70W		25S 15E-30E	25S 115E-150E
30S 55W-70W		30S 20E-30E	30S 120E-150E
35S 55W-70W		35S 15E-20E	35S 115E-120E
40S 60W-70W			35S 135E-150E
45S 70W-75W			40S 140E-145E
50S 70W-75W			40S 170E-175E
55S 70W-75W			
ATLANTIC OCEAN	PACIFIC OCEAN	INDIAN OCEAN	
LAT LONG	LAT LONG	LAT LONG	
00S 00W-40W	00S 80W-180W	00S 25E	
TO AND	TO AND	TO TO	
65S 05E-15E	65S 155E-175E	65S 140E	

TABLE 8A COMPUTED REGRESSION EQUATIONS OF THE FORM $Y=MX+C$
FOR 18 LATITUDE CIRCLES IN JANUARY.

LAT S	NO.OB	C	M	R	SY.X	STUDENT
00	72	0.765	0.00932	0.47	0.08	4.51
05	72	-0.831	0.03134	0.69	0.10	7.95
10	72	-0.333	0.02436	0.60	0.13	6.27
15	72	-0.342	0.02401	0.58	0.15	6.03
20	72	0.487	0.00899	0.23	0.22	2.01*
25	72	0.088	0.01537	0.61	0.15	6.47
30	72	-0.403	0.02173	0.76	0.10	9.82
35	72	-0.009	0.03061	0.84	0.06	12.93
40	72	-0.754	0.02567	0.78	0.05	10.52
45	72	-0.658	0.02348	0.77	0.06	10.13
50	72	-0.871	0.02781	0.94	0.04	25.02
55	72	-0.934	0.02891	0.95	0.04	24.41
60	72	-0.996	0.02958	0.91	0.06	18.72
65	72	-1.093	0.03090	0.87	0.08	14.64
70	50	-0.797	0.01788	0.71	0.07	7.01
75	38	-0.716	0.00774	0.86	0.05	10.24
80	39	-0.891	0.00906	0.88	0.06	11.18
85	39	-0.973	0.01271	0.85	0.05	9.84

TABLE 8B COMPUTED REGRESSION EQUATIONS OF THE FORM $Y=MX+C$
FOR 18 LATITUDE CIRCLES IN APRIL.

LAT S	NO.OB	C	M	R	SY.X	STUDENT
00	72	0.986	0.00731	0.35	0.07	3.10
05	72	0.327	0.01586	0.39	0.10	3.56
10	72	0.162	0.01725	0.47	0.11	4.49
15	72	0.313	0.01385	0.52	0.13	5.08
20	72	0.529	0.00704	0.28	0.18	2.46*
25	72	-0.099	0.01686	0.76	0.12	9.69
30	72	-0.394	0.02013	0.78	0.09	10.64
35	72	0.115	0.00958	0.62	0.08	6.70
40	72	-0.581	0.02098	0.69	0.06	8.06
45	72	-0.741	0.02367	0.91	0.03	18.94
50	72	-0.792	0.02425	0.95	0.03	26.88
55	72	-0.937	0.02722	0.98	0.02	45.10
60	72	-1.119	0.03153	0.97	0.03	36.62
65	72	-1.202	0.03292	0.87	0.10	15.15
70	50	-0.990	0.01726	0.81	0.12	9.56
75	39	-1.122	0.00986	0.59	0.14	4.52
80	40	-1.310	0.01084	0.80	0.12	8.13
85	39	-1.459	0.01342	0.85	0.11	9.68

TABLE 8C COMPUTED REGRESSION EQUATIONS OF THE FORM $Y=MX+C$
FOR 18 LATITUDE CIRCLES IN JULY.

LAT S	NO.OB	C	M	R	SY.X	STUDENT
00	72	0.280	0.01556	0.54	0.10	5.36
05	72	-0.505	0.02582	0.71	0.11	8.40
10	72	-0.067	0.01823	0.70	0.12	8.30
15	72	-0.248	0.01958	0.78	0.13	10.46
20	72	-0.157	0.01497	0.69	0.15	8.10
25	72	-0.536	0.02151	0.89	0.10	16.42
30	72	-0.746	0.02438	0.77	0.13	10.03
35	72	-0.694	0.02174	0.76	0.05	9.78
40	72	-0.354	0.01289	0.69	0.03	8.02
45	72	-0.510	0.01452	0.83	0.04	12.40
50	72	-0.918	0.02404	0.95	0.03	24.70
55	72	-0.025	0.02539	0.98	0.03	38.91
60	72	-1.145	0.02691	0.94	0.05	23.49
65	72	-1.260	0.03062	0.90	0.09	17.89
70	50	-1.257	0.01951	0.85	0.09	11.20
75	39	-1.546	0.00829	0.73	0.09	6.56
80	40	-1.701	0.00922	0.72	0.11	6.26
85	39	-1.650	0.01604	0.86	0.09	10.15

TABLE 8D COMPUTED REGRESSION EQUATIONS OF THE FORM $Y=MX+C$
FOR 18 LATITUDE CIRCLES IN OCTOBER.

LAT S	NO.OB	C	M	R	SY.X	STUDENT
00	72	0.583	0.01155	0.43	0.11	4.03
05	72	-0.110	0.02036	0.59	0.12	6.08
10	72	0.219	0.01472	0.50	0.14	4.89
15	72	0.402	0.01059	0.42	0.15	3.88
20	72	0.312	0.00858	0.35	0.17	3.18*
25	72	-0.292	0.01837	0.75	0.14	9.49
30	72	-0.633	0.02299	0.65	0.16	77.24
35	72	-0.940	0.02750	0.74	0.06	9.15
40	72	-0.675	0.02142	0.71	0.05	88.35
45	72	-0.806	0.02350	0.77	0.07	10.12
50	72	-1.117	0.03124	0.97	0.03	36.51
55	72	-1.193	0.03326	0.99	0.02	57.82
60	72	-1.370	0.04051	0.97	0.04	33.70
65	72	-1.403	0.04836	0.93	0.09	20.54
70	50	-1.075	0.02812	0.78	0.13	8.56
75	39	-1.169	0.01113	0.65	0.13	55.26
80	40	-1.426	0.00991	0.74	0.11	6.76
85	39	-1.622	0.01413	0.82	0.11	8.71

TABLE 8E COMPUTED REGRESSION EQUATION OF THE FORM $Y=MX+C$
FOR 18 LATITUDE CIRCLES(ANNUAL)

LAT S	NO.OB	C	M	R	SY.X	STUDENT
00	288	0.478	0.01333	0.49	0.10	9.58
05	288	-0.605	0.02788	0.67	0.11	15.34
10	288	-0.304	0.02297	0.65	0.15	14.48
15	288	-0.330	0.02249	0.69	0.17	16.13
20	288	-0.156	0.01692	0.56	0.21	11.50
25	288	-0.519	0.02316	0.81	0.16	23.14
30	288	-0.896	0.02851	0.83	0.14	24.95
35	288	-0.962	0.02859	0.84	0.10	25.85
40	287	-1.298	0.03495	0.92	0.07	39.46
45	286	-1.166	0.03297	0.91	0.08	36.72
50	288	-1.257	0.03577	0.95	0.06	51.38
55	288	-1.265	0.03627	0.95	0.07	53.46
60	288	-1.314	0.03822	0.96	0.07	61.08
65	288	-1.281	0.03747	0.96	0.10	58.34
70	200	-1.091	0.03088	0.95	0.13	45.59
75	155	-0.969	0.02107	0.86	0.22	20.85
80	156	-1.051	0.02040	0.88	0.22	23.57
85	156	-0.928	0.02601	0.93	0.21	30.91

TABLE 8F COMPUTED REGRESSION EQUATIONS OF THE FORM $Y=MX+C$
FOR 8 REGIONS IN THE MONTH OF JANUARY.

REGION	NO.OB	C	M	R	SY.X	STUDENT
SAM	63	-1.079	0.03591	0.95	0.13	23.34
BRA	84	-1.081	0.03484	0.77	0.17	10.81
AFR	37	0.167	0.01896	0.63	0.19	4.80
AUS	42	-0.731	0.02975	0.91	0.15	13.63
ATO	168	-0.987	0.03129	0.98	0.11	60.40
PCO	364	-1.207	0.03463	0.98	0.11	85.40
INO	336	-1.248	0.03672	0.98	0.15	80.35
WSH	1213	-0.876	0.02972	0.98	0.18	151.33

TABLE 8G COMPUTED REGRESSION EQUATIONS OF THE FORM $Y=MX+C$
FOR 8 REGIONS IN THE MONTH OF APRIL.

REGION	NO.OB	C	M	R	SY.X	STUDENT
SAM	63	-1.208	0.03793	0.96	0.13	27.66
BRA	84	-1.305	0.03823	0.83	0.18	13.63
AFR	37	-0.464	0.02857	0.82	0.19	8.64
AUS	42	-0.779	0.02976	0.90	0.17	13.00
ATO	168	-1.226	0.03517	0.98	0.13	65.91
PCO	364	-1.210	0.03423	0.97	0.13	77.48
INO	336	-1.280	0.03691	0.98	0.15	84.48
WSH	1214	-0.809	0.02781	0.98	0.22	171.05

SAM=SOUTH AMERICA BRA=BRAZIL AFR=AFRICA AUS=AUSTRALIA
ATO=ATLANTIC OCEAN PCO=PACIFIC OCEAN INO=INDIAN OCEAN
WSH=WHOLE SOUTHERN HEMISPHERE

TABLE 8H COMPUTED REGRESSION EQUATIONS OF THE FORM $Y=MX+C$
FOR 8 REGIONS IN THE MONTH OF JULY.

REGION	NO.OB	C	M	R	SY.X	STUDENT
SAM	63	-1.020	0.03422	0.96	0.13	27.53
BRA	84	-1.151	0.03492	0.86	0.19	15.16
AFR	37	-0.578	0.02829	0.88	0.21	10.82
AUS	42	-1.073	0.03320	0.96	0.14	21.31
ATO	168	-1.180	0.03363	0.98	0.15	61.50
PCO	364	-1.365	0.03605	0.98	0.11	107.45
IND	336	-1.328	0.03681	0.98	0.15	97.58
WSH	1214	-0.986	0.02945	0.98	0.21	197.91

TABLE 8I COMPUTED REGRESSION EQUATION OF THE FORM $Y=MX+C$
FOR 8 REGIONS IN THE MONTH OF OCTOBER.

REGION	NO.OB	C	M	R	SY.X	STUDENT
SAM	63	-1.020	0.03408	0.94	0.16	21.98
BRA	84	-0.976	0.03245	0.78	0.21	11.33
AFR	37	-0.384	0.02684	0.81	0.22	8.14
AUS	42	-0.802	0.02928	0.93	0.16	16.43
ATO	168	-1.226	0.03492	0.97	0.15	55.49
PCO	364	-1.190	0.03354	0.98	0.12	85.81
IND	336	-1.312	0.03667	0.98	0.16	83.07
WSH	1215	-0.964	0.02985	0.98	0.20	189.63

SAM=SOUTH AMERICA BRA=BRAZIL AFR=AFRICA AUS=AUSTRALIA
ATO=ATLANTIC OCEAN PCO=PACIFIC OCEAN IND=INDIAN OCEAN
WSH=WHOLE SOUTHERN HEMISPHERE

TABLE 8J COMPUTED REGRESSION EQUATIONS OF THE FORM $Y=MX+C$
FOR 8 REGIONS (ANNUAL)

REGION	NO.OB	C	M	R	SY,X	STUDENT
SAM	252	-1.091	0.03575	0.96	0.14	51.55
BRA	336	-1.195	0.03618	0.84	0.19	28.16
AFR	148	-0.531	0.02923	0.85	0.21	19.57
AUS	168	-0.937	0.03216	0.93	0.17	33.08
ATO	672	-1.174	0.03410	0.98	0.14	120.39
PCO	1456	-1.266	0.03503	0.98	0.13	175.48
IND	1344	-1.306	0.03706	0.98	0.16	173.57
WSH	4856	-0.911	0.02929	0.98	0.21	349.25

SAM=SOUTH AMERICA BRA=BRAZIL AFR=AFRICA AUS=AUSTRALIA
 ATO=ATLANTIC OCEAN PCO=PACIFIC OCEAN IND=INDIAN OCEAN
 WSH=WHOLE SOUTHERN HEMISPHERE

TABLE 9 SEASONAL AND LATITUDINAL MEAN VALUES OF λ FOR
NORTHERN HEMISPHERE AFTER SMITH(1966)

SEASON LATITUDINAL ZONE(DEG N)	WINTER	SPRING	SUMMER	FALL	ANNUAL AVERAGE
00-10	3.37	2.85	2.80	2.64	2.91
10-20	2.99	3.02	2.70	2.93	2.91
20-30	3.60	3.00	2.98	2.93	3.12
30-40	3.04	3.11	2.92	2.94	3.00
40-50	2.70	2.95	2.77	2.71	2.78
50-60	2.52	3.07	2.67	2.93	2.79
60-70	1.76	2.69	2.61	2.61	2.11
70-80	1.60	1.67	2.24	2.63	2.03
80-90	1.11	1.44	1.94	2.02	1.63
NORTHERN HEMISPHERE AVERAGE	2.52	2.64	2.62	2.70	2.61

TABLE 10 ZONALLY AVERAGED VALUES OF λ

LATITUDE (DEGREES)	JANUARY (SUMMER)	APRIL (AUTUMN)	JULY (WINTER)	OCTOBER (SPRING)	ANNUAL (AVERAGE)
00	3.62	3.44	3.61	3.56	3.56
05	3.59	3.52	3.79	3.79	3.67
10	3.59	3.72	4.02	3.94	3.82
15	3.67	3.82	4.03	3.97	3.87
20	4.52	4.57	4.47	4.50	4.51
25	3.83	3.94	4.03	3.95	3.94
30	3.98	4.13	4.10	4.12	4.08
35	4.14	4.21	4.29	4.28	4.23
40	3.99	4.15	4.16	4.05	4.09
45	3.62	3.74	3.80	3.74	3.72
50	3.33	3.46	3.66	3.54	3.49
55	3.18	3.32	3.60	3.43	3.38
60	3.14	3.27	3.49	2.29	3.05
65	3.20	3.22	3.20	3.09	3.18
70	2.99	2.29	2.33	2.25	2.46
75	2.17	0.93	1.25	1.20	1.39
80	1.88	0.71	0.67	0.98	1.06
85	1.15	0.18	0.50	0.86	0.67
90	0.44	-0.26	0.04	0.30	0.13
SOUTHERN HEMISPHERE AVERAGE	3.16	2.96	3.11	3.04	3.06

TABLE 11 SOME ESTIMATED VALUES OF $\hat{\lambda}$ FROM REITAN, BOLSENGA
AND FROM THIS STUDY

	R	S	C	M	$\hat{\lambda}$
MEAN MONTHLY(REITAN)	0.98	0.18	-0.981	0.03410	1.99
MEAN DAILY (BOLSENGA)	0.85	0.40	-1.249	0.04270	2.90
HOURLY (BOLSENGA)	0.80	0.43	-1.288	0.03840	3.06
MEAN MONTHLY(PRESENT STUDY)					
00S LATITUDE CIRCLE FOR APRIL (FROM TABLE 8B)	0.35	0.07	0.986	0.00731	-0.68
80S LATITUDE CIRCLE FOR JULY(FROM TABLE 8C)	0.72	0.11	-1.701	0.00922	5.13
LATITUDE CIRCLES(ANNUAL TABLE 8E).					
00S	0.49	0.10	0.478	0.01333	-0.31
05S	0.67	0.11	-0.605	0.02788	1.05
10S	0.65	0.15	-0.304	0.02297	0.52
15S	0.69	0.17	-0.330	0.02249	0.56
20S	0.56	0.21	-0.9156	0.01692	0.31
25S	0.81	0.16	-0.519	0.02316	0.88
30S	0.83	0.14	-0.896	0.02851	1.75
35S	0.84	0.10	-0.962	0.02859	1.93
40S	0.92	0.07	-1.298	0.03495	3.10
45S	0.91	0.08	-1.166	0.03297	2.59
50S	0.95	0.06	-1.257	0.03577	2.93
55S	0.95	0.07	-1.265	0.03627	2.97
60S	0.96	0.07	-1.314	0.03822	3.16
65S	0.96	0.10	-1.281	0.03747	3.03
70S	0.95	0.13	-1.091	0.03088	2.33
75S	0.86	0.22	-0.969	0.02107	1.95
80S	0.88	0.22	-1.051	0.02040	2.20
85S	0.93	0.21	-0.928	0.02601	1.83
DIFFERENT REGIONS (ANNUAL TABLE 8J)					
SOUTH AMERICA	0.96	0.14	-1.091	0.03575	2.33
BRAZIL	0.84	0.19	-1.195	0.03618	2.70
AFRICA	0.85	0.21	-0.531	0.02923	0.91
AUSTRALIA	0.93	0.17	-0.937	0.03216	1.86
ATLANTIC OCEAN	0.98	0.14	-1.174	0.03410	2.62
PACIFIC OCEAN	0.98	0.13	-1.266	0.03503	2.97
INDIAN OCEAN	0.98	0.18	-1.306	0.03706	3.09
WHOLE SOUTHERN HEMISPHERE	0.98	0.21	-0.911	0.02929	1.78

FIG. 1 ISOLINES OF PRECIPITABLE WATER IN UNITS OF 0.1 CM² FOR JANUARY

FIG. 2 — ISOLINES OF PRECIPITABLE WATER, W, in UNITS OF gm cm² FOR APRIL

FIG. 3. ISOLINES OF PRECIPITABLE WATER, W. IN UNITS OF $Gm\ cm^{-2}$ FOR JULY

FIG. 4 - ISOLINES OF PRECIPITABLE WATER, W, in UNITS OF gm cm^2 OF OCTOBER

FIG. 5

FIG. 6

FIG. 7

FIG. 8

FIG. 9

Fig. 10

Fig. 11

FIG. 12

FIG. 13

FIG. 14A

FIG 14B

DATA NO	71%	72%	73%
1	0.439	0.612	0.026
2	0.212	0.062	0.286
3	0.579	0.433	0.433
4	0.497	0.575	0.352
5	0.253	0.219	0.307
6	0.147	0.072	0.040
7	0.058	0.113	0.131
8	0.034	0.123	0.135
9	0.110	0.095	0.141
10	0.003	0.091	0.043

FIG. 14C

Case	1.00	2.00	3.00
1	0.101	0.125	0.171
2	0.096	0.127	0.099
3	0.293	0.151	0.098
4	0.257	0.127	0.099
5	0.255	0.149	0.098
6	0.066	0.033	0.029
7	0.113	0.061	0.029
8	0.109	0.053	0.038
9	0.022	0.040	0.021

FIG. 14 D

2476	1.4	1.4	1.4
1	0.003	0.003	0.003
2	0.003	0.003	0.003
3	0.003	0.003	0.003
4	0.003	0.003	0.003
5	0.003	0.003	0.003
6	0.003	0.003	0.003
7	0.003	0.003	0.003
8	0.003	0.003	0.003
9	0.003	0.003	0.003
10	0.003	0.003	0.003

FIG. 14 E

1	0.007	0.010	0.022
2	0.009	0.010	0.015
3	0.009	0.010	0.015
4	0.009	0.010	0.015
5	0.009	0.010	0.015
6	0.009	0.010	0.015
7	0.009	0.010	0.015
8	0.009	0.010	0.015
9	0.009	0.010	0.015
10	0.009	0.010	0.015

FIG. 14F

[illegible]

FIG. 15 A

FIG. 15 B

FIG. 15C

FIG. 15D

FIG. 15E

Wave No	Y1	Y2	Y3
1	0.149	0.149	0.123
2	0.031	0.049	0.025
3	0.026	0.020	0.013
4	0.021	0.022	0.023
5	0.006	0.008	0.017
6	0.008	0.010	0.026
7	0.005	0.011	0.007
8	0.002	0.002	0.005
9	0.002	0.004	0.005
10	0.002	0.004	0.002

FIG. 15F

WAVE NO	71%	72%	73%
1	0.044	0.041	0.021
2	0.020	0.024	0.003
3	0.021	0.003	0.003
4	0.010	0.007	0.002
5	0.004	0.004	0.001
6	0.005	0.004	0.001
7	0.003	0.002	0.001
8	0.002	0.002	0.001
9	0.002	0.002	0.001
10	0.002	0.001	0.001

FIG. 16A

Case No	Y1=	Y2=	Y3=
1	0.488	0.485	0.514
2	0.258	0.274	0.116
3	0.312	0.442	0.507
4	0.090	0.050	0.088
5	0.138	0.238	0.184
6	0.072	0.085	0.152
7	0.047	0.088	0.041
8	0.064	0.053	0.043
9	0.015	0.047	0.046
10			

FIG. 16 B

FIG. 16C.

FIG. 16 D

FIG. 16 E

FIG. 16 F

FIG. 17A

FIG. 17 B

FIG. 17C

FIG. 17 D

FIG. 17 E

DEVS NO	Y1=	Y2=	Y3=
1	0.162	0.158	0.121
2	0.095	0.091	0.039
3	0.030	0.031	0.037
4	0.014	0.016	0.011
5	0.005	0.007	0.010
6	0.005	0.008	0.001
7	0.007	0.008	0.004
8	0.001	0.003	0.003
9	0.001	0.003	0.003
10	0.003	0.005	0.001

FIG 17 F

WAVE NO	Y1-	Y2-	Y3-
1	0.037	0.019	0.015
2	0.040	0.027	0.009
3	0.013	0.010	0.003
4	0.005	0.005	0.002
5	0.002	0.003	0.001
6	0.003	0.002	0.001
7	0.002	0.002	0.001
8	0.001	0.002	0.001
9	0.001	0.001	0.001
10	0.000	0.001	0.001

FIG. 18 A

FIG. 18 B.

FIG. 18 C.

FIG. 18 D

Fig. 18 E

DEW - POINT TEMPERATURE (°F)

FIG. 18 F

FIG. 18 G

FIG. 18 H

FIG. 18 I

FIG. 18 J

FIG. 19A-DEW - POINT TEMPERATURE (°F)

FIG. 19B

FIG. 19 C

FIG. 19 D

FIG. 19 E

FIG. 19 F

FIG. 196

FIG. 20A PRECIPITATION EFFICIENCY (PERCENT) IN SOUTH AMERICA - JANUARY

FIG. 20B. PRECIPITATION EFFICIENCY (PERCENT) IN SOUTH AMERICA-JULY

Fig. 21A PRECIPITATION EFFICIENCY (PERCENT) IN AFRICA- JANUARY

Fig. 21B PRECIPITATION EFFICIENCY (PERCENT) IN AFRICA-JULY

Fig.22 A PRECIPITATION EFFICIENCY (PERCENT) IN AUSTRALIA - JANUARY

FIG. 22 B PRECIPITATION EFFICIENT (PERCENT) IN AUSTRALIA-JULY

mb

FIG. 23

mb

FIG. 25

FIG. 26