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Design Temperatures for Flexible Airfield Pavement Design

by

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FINAL REPORT

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Introduction

The mechanistic approach to flexible pavement design [1,2,3,4] recognises 2 forms of traffic induced structural damage, one being fatigue failure by cracking in the asphalt layer, the other being permanent deformation.

The criterion used for ensuring that the pavement does not fail prematurely due to fatigue in the asphalt is based upon tensile strain. It has been shown [4] that the tensile strain due to aircraft loading has a maximum value at the bottom of the asphalt layer, and it is at this depth that the strain is calculated. The position of the maximum strain relative to the aircraft wheels is dependent upon the aircraft gear configuration, the pavement thickness and stiffness, but is readily determined. Extensive laboratory fatigue tests, combined with full scale trials [5,6,7,8,9,10] have permitted the development of a fatigue criterion based on a limiting strain value, so that pavements can be designed to give satisfactory performance.

The parameter used as a criterion to limit permanent deformation is the vertical strain on the subgrade. The derivation of this parameter can be traced to the AASHO road test [11] when stress, strain and deformation were calculated at several locations in the pavement and correlated with the terminal rut depth. As a result of this, and other complimentary research, the vertical strain on the subgrade was identified as the parameter which correlated, most reliably, with the development of wheel track deformation. Most mechanistic design systems, including the one developed by the Corps of Engineers for Airfield pavements [4] use this parameter, derived from an analysis of existing pavement structures of known performance. The derivation usually involved a single analysis of each pavement using a

single temperature and a typical load. Because of these simplifying assumptions the criterion is not suitable for a cumulative damage analysis.

Procedure for Computation of Fatigue Damage

The computation of damage due to repeated loading is based upon the linear summation of cycle ratios as defined by Miner's rule[12]. For failure, the summation of the ratio of the number of cycles of load actually applied (n) to the number of cycles of that same load to cause failure (N) must equal or exceed 1, as shown below.

$$\frac{N_1}{\overline{N_1}} + \frac{N_2}{\overline{N_2}} + \frac{N_3}{\overline{N_3}} \cdots\cdots \frac{N_i}{\overline{N_i}} \geq 1$$

or

$$\sum_{i=1}^{i} \frac{N_i}{\overline{N_i}} \geq 1$$

The number of cycles applied to a given pavement structure can be determined from data on aircraft movements. The number of cycles of that load to cause failure must be determined from the fatigue design criteria. This in turn involves calculating the strain in the pavement from details of the layer thickness and the temperature profile within the asphalt layer. It is also important to have detailed information on aircraft movements so that the correct combination of temperature gradient and traffic can be used to determine the number of cycles to failure.

The calculation procedure requires the following specific steps.

1. Division of the asphalt layer, in the pavement under analysis, into sublayers suitable for the computation of temperature gradients and the subsequent computation of strain.

2) Computation of the temperature gradient in the pavement under analysis

for the conditions relating to the time of year to be represented by the damage computation.

3) Transformation of the temperature data into stiffness values for use in the analysis.

4) Analysis of pavements for the critical asphalt strain.

5) Determination of the number of cycles which would cause failure at the strain level calculated in step 4 above.

6) Computation of damage in the pavement for each representative time period.

7) Development of a Damage - Temperature relationship for each pavement structure considered, assuming the asphalt layer to have a constant temperature.

8) Determine the "equivalent temperature" by comparing the results of step 6 with the relationship obtained in step 7.

In order to undertake the analysis outlined above, it is necessary to select appropriate layer thicknesses and properties for the pavement structure. It is also necessary to select damage models and determine traffic movement and loading data. This section will provide this background information.

Pavement Structure for Analysis

It was decided to analyse pavements with asphalt layer thicknesses of 3 inches, 5 inches and 10 inches, selected as being typical of the classes of airfield pavement.

Each pavement has been treated as a three layer structure, and in order to eliminate effects other than temperature changes, the characteristics of the base and subgrade were held constant. The base was modelled as an unbound layer 12 inches thick with a modulus of 50,000 lbs/in^2. The subgrade was assigned a modulus of 15,000 lbs/in^2.

The loading used for the computation was selected on the basis of the type of aircraft, appropriate to the class of airfield pavement, relevant to the thickness of the asphalt layer, as defined in the Corps of Engineers Airfield Pavement design procedure. For a 3 inch pavement the critical aircraft for design is the F15, for the 5 inch pavement it is the C141 and a B52 is the aircraft appropriate for the 10 inch pavement.

Traffic movement data for the five busiest TAC bases, Luke, Nellis, George, Holman and Tyndall was supplied, broken down into movements for the periods 0000 - 0600 hrs, 0600 - 1200 hrs, 1200 - 1800 hrs and 1800 - 0000 hrs as shown in Table 1.

Traffic movements on an hourly basis would have been preferred, and would have given greater precision in these computations, but the data was not available in this form.

The data in Table 1 shows that the pattern of movements within each six hour time period is similar for the five bases. Data to confirm this is shown in Table 2 which summarises the percentage of movements which can be assigned to each 6 hour period and also gives the standard deviation of that percentage for each time period. It was therefore assumed that the movements for a typical Air Force Base can be described by one pattern.

Table 3 shows the total number of movements for a year computed from the mean values and the pattern established in Tables 1 and 2. Also shown are the daily and hourly movements derived from the total assuming that movements are distributed evenly through each time period.

Two relationships are required to describe the asphaltic material for this study. The first requirement is to assign a stiffness value appropriate to the temperatures calculated in each sub-layer. The relationship used is as follows (5)

$$\text{Log } E = 6.16 - 0.00003\ T^{2.32} + 0.074 \log f + 0.000009\ T^{2.32} \log f$$

where

T = temperature (^{o}F)

f = frequency of loading (cps)

The second relationship is necessary in order to relate the maximum strain in the plane of the bottom of the asphalt layer to a number of cycles of

load which would cause failure at that strain. This relationship is usually presented in the following form (4)

$$\text{Allowable strain} = 10^{-A}$$

$$A = \frac{N + 2.665 \log_{10}(E_{AC}) + 0.392}{5} \quad (14.22)$$

where N = Log_{10} (aircraft coverages)

E_{AC} = Modulus of the asphalt concrete.

To compute the no of coverages for a given strain this equation can be rewritten in the form

$$N = 10$$

The Computation of Temperature Gradients within the Pavement

The most effective data for a study such as is described herein is actual temperature measurement at various depths within representative pavements. Unfortunately, this data is not available for the pavements analysed for this study, in appropriate climates. It was therefore necessary to find a means of computing the temperature gradient.

After a study of two systems for calculating the variation of temperature with depth, [13,14] the method reported by Robinson [14] was selected because of the strength of the validating data.

Robinson's calculation procedure assumes a one-dimensional model of heat transfer which is solved by a finite difference method. The solution requires an initial temperature distribution within the pavement and a knowledge of the thermal properties of the materials in the pavement structure. Heat input was estimated from the data on hourly air temperatures, wind speed and cloud cover, and on a computed solar radiation intensity. This latter parameter was calculated from equations published by Iqbal [15].

Data on four locations was provided as being typical of the range in continental USA. These were Minot, Homestead, Wright-Patterson and Williams. Hourly temperature data was supplied for a "typical" 24 hour period in each month of the year. Temperature profiles were calculated for each hour for pavements with 3,5 and 10 inch thick asphalt surfaces at all locations. Thus a total of 3,456 profiles were calculated.

For convenience, the 3 inch asphalt layer was subdivided into 8 layers of equal thickness, the 5 inch into 7 layer, 6 of which were 0.75" thick and the lowest layer being 0.5" thick, and the 10 inch pavement into 6 layer of 1.5" thickness and one layer of 1" thickness.

Calculation of Damage

Tables 4 - 15 show the computation of damage for the structures at each base. It will be noted that some time periods have been omitted, this is because of computational errors. In view of the very large number of analysis necessary for this study an automated system was developed. On completion of the computation it was discovered that some of the files had been corrupted. Checks were performed to ensure that the remaining files were in fact correct. It was not possible to correct those found to be in error.

Tables 16, 17 and 18 show the computation of damage for the 3, 5 and 10 inch pavements at each base, assuming constant temperature throughout the asphalt layer.

Finally, Tables 19, 20 and 21 show the computation of the conversion factor for the 3,5 and 10 inch pavements respectively at each location.

Figures 1-9 plot the conversion factor as a function of air temperature at each base, and Table 22 slows the coefficients obtained from a linear regression of conversion factor as a function of air temperature for each base individually. The equivalent single temperature is computed from the mean air temperature multiplied by the conversion factor.

Regression analysis of the data relating conversion factor to temperature grouped by asphalt thickness gave very poor correlation coefficients, as did an analysis of the data grouped by base. It is therefore concluded that the effects of both climate and layer thickness combine to provide a unique solution to the relation between conversion factor and mean air temperature.

Recommended procedure for the determination of Equivalent Pavement Temperature

The bases used in this study were chosen to represent major climatic regions within continental USA. Thus it is probable that sufficient precision can be obtained by selecting the appropriate conversion factor - air temperature relationship from Table 22.

If this is deemed to be insufficiently reliable, then the procedure described in section 2 can be applied provided the necessary data can be made available.

Further Work

It is possible that further study could lead to the definition of a relationship which has wider application, the incorporation of terms to account for layer thickness in the conversion factor - air temperature relation could assist with this.

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TABLE I. TRAFFIC DATA FOR THE FIVE BUSIEST TAC BASES
(AS SUPPLIED BY VICKSBURG)

TIME INTERVAL	FY8701	PROPORTION OF TOTAL	FY8702	PROPORTION OF TOTAL	FY8703	PROPORTION OF TOTAL	FY8704	PROPORTION OF TOTAL
LUKE AFB								
0000-0600	0	0.00	0	0.00	0	0.00	0	0.00
0600-1200	10998	0.44	10384	0.42	11108	0.43	11411	0.43
1200-1800	12172	0.48	12562	0.51	12846	0.49	13892	0.52
1800-0000	1996	0.08	1774	0.07	2031	0.08	1463	0.05
TOTAL MOVEMENTS	25166		24720		25985		26766	
NELLIS AFB								
0000-0600	62	.00	75	.00	204	0.02	88	0.01
0600-1200	6651	0.42	5965	0.39	4183	0.37	6581	0.41
1200-1800	7449	0.47	7601	0.49	6019	0.53	7469	0.47
1800-0000	1758	0.11	1847	0.12	954	0.08	1754	0.11
TOTAL MOVEMENTS	15920		15488		11360		15892	
GEORGE AFB								
0000-0600	26	.00	5	.00	23	.00	86	0.01
0600-1200	7241	0.31	6298	0.45	6432	0.47	6426	0.48
1200-1800	7957	0.34	6513	0.47	6154	0.45	6130	0.45
1800-0000	8132	0.35	1140	0.08	1045	0.08	854	0.06
TOTAL MOVEMENTS	23356		13956		13654		13496	
HOLLOMAN AFB								
0000-0600	6	.00	3	.00	10	.00	4	.00
0600-1200	10584	0.49	11185	0.48	12432	0.49	12416	0.47
1200-1800	10494	0.49	11275	0.48	12292	0.48	13069	0.50
1800-0000	483	0.02	806	0.03	733	0.03	829	0.03
TOTAL MOVEMENTS	21567		23269		25467		26318	
TYNDALL AFB								
0000-0600	5	.00	4	.00	10	.00	10	.00
0600-1200	5307	0.43	6455	0.42	6189	0.41	5760	0.40
1200-1800	6361	0.51	7595	0.50	7480	0.49	6895	0.47
1800-0000	705	0.06	1225	0.08	1513	0.10	1861	0.13
TOTAL MOVEMENTS	12378		15279		15192		14526	
MEAN OF ALL BASES	19677.4		18542.4		18331.6		19399.6	

TABLE 2. SUMMARY OF AIRCRAFT MOVEMENTS

TIME INTERVAL	PERCENTAGE OF TOTAL	STANDARD DEVIATION
0000-0600	0	0.00
0600-1200	43	0.04
1200-1800	48	0.04
1800-0000	9	0.07

TABLE 3. REPRESENTATIVE NUMBER OF MOVEMENTS

TOTAL	PER. DAY	PER. HOUR
0	0	0
8156	22	4
9118	25	4
1670	5	1

TABLE 4. HOMESTEAD 3 INCH THICK ASPHALT.

	JANUARY					FEBRUARY					MARCH				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	716940	0.00194	0	26.49	0	716527	0.00194	0	26.53	0	713631	0.00194	0	26.82	0
0100-0200	717768	0.00194	0	26.41	0	716940	0.00194	0	26.49	0	714458	0.00194	0	26.73	0
0200-0300	719010	0.00193	0	26.97	0	718596	0.00193	0	27.01	0	715699	0.00194	0	26.61	0
0300-0400	719839	0.00193	0	26.89	0	719425	0.00193	0	26.93	0	716940	0.00194	0	26.49	0
0400-0500	721082	0.00193	0	26.77	0	720253	0.00193	0	26.85	0	718182	0.00193	0	27.06	0
0500-0600	721910	0.00193	0	26.69	0	721082	0.00193	0	26.77	0	719425	0.00193	0	26.93	0
0600-0700	722739	0.00193	4	26.60	0.1504	722325	0.00193	4	26.64	0.1501	720253	0.00193	4	26.85	0.14897
0700-0800	723568	0.00192	4	27.22	0.1469	723154	0.00193	4	26.56	0.1506	719839	0.00193	4	26.89	0.14875
0800-0900	723154	0.00193	4	26.56	0.1506	717354	0.00194	4	26.45	0.1512	713631	0.00194	4	26.82	0.14916.
0900-1000	715699	0.00194	4	26.61	0.1503	708671	0.00195	4	26.63	0.1502	704956	0.00195	4	27.00	0.14813
1000-1100	704956	0.00195	4	27.00	0.1481	698362	0.00196	4	26.99	0.1482	695892	0.00196	4	27.24	0.14682
1100-1200	693836	0.00195	4	28.17	0.1420	689727	0.00195	4	28.62	0.1398	687264	0.00195	4	28.89	0.13843
1200-1300	684803	0.00195	4	29.17	0.1371	682754	0.00195	4	29.41	0.1360	680706	0.00194	4	30.41	0.13151
1300-1400	679479	0.00194	4	30.56	0.1309	678251	0.00194	4	30.71	0.1303	676207	0.00193	4	31.77	0.12591
1400-1500	677433	0.00194	4	30.81	0.1298	676616	0.00194	4	30.91	0.1294	674981	0.00193	4	31.92	0.12531
1500-1600	679479	0.00194	4	30.56	0.1309	677842	0.00194	4	30.76	0.1300	675798	0.00194	4	31.01	0.12900
1600-1700	685213	0.00195	4	29.13	0.1373	681525	0.00195	4	29.55	0.1354	679479	0.00194	4	30.56	0.13088
1700-1800	694247	0.00196	4	27.42	0.1459	687674	0.00196	4	28.12	0.1422	685213	0.00195	4	29.13	0.13733
1800-1900	704956	0.00195	1	27.00	0.0370	695892	0.00196	1	27.24	0.0367	693013	0.00196	1	27.55	0.03630.
1900-2000	710737	0.00195	1	26.42	0.0378	705782	0.00195	1	26.92	0.0372	702894	0.00195	1	27.21	0.03674
2000-2100	713217	0.00194	1	26.86	0.0372	711150	0.00195	1	26.38	0.0379	707846	0.00195	1	26.71	0.03744
2100-2200	714871	0.00194	1	26.69	0.0375	713217	0.00194	1	26.86	0.0372	710737	0.00195	1	26.42	0.03784
2200-2300	715699	0.00194	1	26.61	0.0376	714871	0.00194	1	26.69	0.0375	711977	0.00194	1	26.98	0.03706
2300-0000	716527	0.00194	1	26.53	0.0377	715699	0.00194	1	26.61	0.0376	713217	0.00194	1	26.86	0.03723.

	APRIL					MAY					JUNE				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	711977	0.00194	0	26.98	0	709497	0.00195	0	26.54362	0	709497	0.00195	0	26.54362	0
0100-0200	712390	0.00194	0	26.94	0	709911	0.00195	0	26.50239	0	709911	0.00195	0	26.50239	0
0200-0300	713217	0.00194	0	26.86	0	711563	0.00194	0	27.02460	0	710737	0.00195	0	26.42039	0
0300-0400	714458	0.00194	0	26.73	0	712390	0.00194	0	26.94107	0	711563	0.00194	0	27.02460	0
0400-0500	714871	0.00194	0	26.69	0	713217	0.00194	0	26.85790	0	712390	0.00194	0	26.94107	0
0500-0600	716113	0.00194	0	26.57	0	714458	0.00194	0	26.73376	0	713631	0.00194	0	26.81640	0
0600-0700	716940	0.00194	4	26.49	0	714871	0.00194	4	26.69261	0.149854	714458	0.00194	4	26.73376	0.14962.
0700-0800	716940	0.00194	4	26.49	0	710737	0.00195	4	26.42039	0.151398	710737	0.00195	4	26.42039	0.15139
0800-0900	711150	0.00195	4	26.38	0	704544	0.00195	4	27.04384	0.147907	703307	0.00195	4	27.17079	0.14721
0900-1000	702482	0.00195	4	27.26	0	697538	0.00196	4	27.07246	0.147751	695892	0.00196	4	27.24345	0.14682
1000-1100	693425	0.00195	4	28.21	0.1418	689727	0.00195	4	28.61994	0.139762	688906	0.00195	4	28.71092	0.13931
1100-1200	685213	0.00195	4	29.13	0.1373	683983	0.00195	4	29.26495	0.136682	682344	0.00195	4	29.45266	0.13581
1200-1300	678660	0.00194	4	30.66	0.1305	679069	0.00194	4	30.60958	0.130678	677842	0.00194	4	30.75746	0.13004
1300-1400	674573	0.00193	4	31.97	0.1251	676616	0.00194	4	30.90621	0.129423	674573	0.00193	4	31.97186	0.12511
1400-1500	672939	0.00193	4	32.18	0.1243	674981	0.00193	4	31.92038	0.125311	673756	0.00193	4	32.07528	0.12470
1500-1600	674573	0.00193	4	31.97	0.1251	675798	0.00194	4	31.00601	0.129007	674573	0.00193	4	31.97186	0.12511
1600-1700	678251	0.00194	4	30.71	0.1303	678251	0.00194	4	30.70806	0.130258	677025	0.00194	4	30.85648	0.12963.
1700-1800	684393	0.00195	4	29.22	0.1369	682344	0.00195	4	29.45266	0.135811	680706	0.00195	4	29.64191	0.13494
1800-1900	692191	0.00196	1	27.63	0.0362	687674	0.00196	1	28.11976	0.035562	686443	0.00195	1	28.98628	0.03449
1900-2000	701245	0.00196	1	26.69	0.0375	694247	0.00196	1	27.41583	0.036475	693425	0.00196	1	27.50252	0.03636
2000-2100	705782	0.00195	1	26.92	0.0372	701245	0.00196	1	26.69274	0.037463	700833	0.00196	1	26.73458	0.03740
2100-2200	708258	0.00195	1	26.67	0.0375	704956	0.00195	1	27.00174	0.037034	705369	0.00195	1	26.95963	0.03709.
2200-2300	709497	0.00195	1	26.54	0.0377	707433	0.00195	1	26.75051	0.037382	707433	0.00195	1	26.75051	0.03738.
2300-0000	710737	0.00195	1	26.42	0.0378	708258	0.00195	1	26.66755	0.037498	708671	0.00195	1	26.62615	0.03755

TABLE 4 CONTINUED

	JULY					AUGUST					SEPTEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	708671	0.00195	0	26.63	0	708671	0.00195	0	26.62615	0	708671	0.00195	0	26.62615	0
0100-0200	709497	0.00195	0	26.54	0	709497	0.00195	0	26.54362	0	709497	0.00195	0	26.54362	0
0200-0300	710324	0.00195	0	26.46	0	709911	0.00195	0	26.50239	0	709911	0.00195	0	26.50239	0
0300-0400	711150	0.00195	0	26.38	0	710737	0.00195	0	26.42039	0	710737	0.00195	0	26.42039	0
0400-0500	711977	0.00194	0	26.98	0	711563	0.00194	0	27.02460	0	711563	0.00194	0	27.02460	0
0500-0600	712804	0.00194	0	26.90	0	712390	0.00194	0	26.94107	0	712390	0.00194	0	26.94107	0
0600-0700	714044	0.00194	4	26.78	0.1494	713217	0.00194	4	26.85790	0.148931	713217	0.00194	4	26.85790	0.148931
0700-0800	709497	0.00195	4	26.54	0.1507	708671	0.00195	4	26.62615	0.150228	712804	0.00194	4	26.89939	0.148702
0800-0900	702894	0.00195	4	27.21	0.1470	701658	0.00195	4	27.34129	0.146298	707433	0.00195	4	26.75051	0.149529
0900-1000	695070	0.00196	4	27.33	0.1464	693836	0.00196	4	27.45913	0.145671	699185	0.00196	4	26.90285	0.148683
1000-1100	687674	0.00195	4	28.85	0.1387	686854	0.00195	4	28.94008	0.138216	690959	0.00195	4	28.48414	0.140428
1100-1200	681116	0.00194	4	30.37	0.1317	680706	0.00194	4	30.41380	0.131519	683164	0.00195	4	29.35854	0.136246
1200-1300	676616	0.00194	4	30.91	0.1294	675798	0.00193	4	31.81764	0.125716	676616	0.00193	4	31.71523	0.126122
1300-1400	673756	0.00193	4	32.08	0.1247	672123	0.00193	4	32.28338	0.123902	672531	0.00192	4	33.07936	0.120921
1400-1500	672123	0.00193	4	32.28	0.1239	671307	0.00192	4	33.24034	0.120335	670899	0.00192	4	33.29424	0.120140
1500-1600	672531	0.00193	4	32.23	0.1241	672123	0.00193	4	32.28338	0.123902	672531	0.00193	4	32.23122	0.124103
1600-1700	674981	0.00194	4	31.11	0.1286	674981	0.00193	4	31.92038	0.125311	676207	0.00194	4	30.95605	0.129215
1700-1800	679479	0.00195	4	29.78	0.1343	679069	0.00194	4	30.60958	0.130678	682344	0.00195	4	29.45266	0.135811
1800-1900	685213	0.00195	1	29.13	0.0343	685213	0.00195	1	29.12516	0.034334	689727	0.00196	1	27.89725	0.035845
1900-2000	692191	0.00196	1	27.63	0.0362	691781	0.00196	1	27.67705	0.036131	698774	0.00196	1	26.94504	0.037112
2000-2100	699597	0.00196	1	26.86	0.0372	699597	0.00196	1	26.86064	0.037229	703307	0.00195	1	27.17079	0.036804
2100-2200	703719	0.00195	1	27.13	0.0369	704131	0.00195	1	27.08613	0.036919	705782	0.00195	1	26.91760	0.037150
2200-2300	706194	0.00195	1	26.88	0.0372	706607	0.00195	1	26.83393	0.037266	707020	0.00195	1	26.79218	0.037324
2300-0000	707846	0.00195	1	26.71	0.0374	707846	0.00195	1	26.70894	0.037440	708258	0.00195	1	26.66755	0.037498

	OCTOBER					NOVEMBER					DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	709497	0.00195	0	26.543	0	713631	0.00193	0	27.51836	0	715699	0.00194	0	26.61040	0
0100-0200	710324	0.00195	0	26.461	0	714044	0.00193	0	27.47596	0	716527	0.00194	0	26.52853	0
0200-0300	710737	0.00195	0	26.420	0	715285	0.00193	0	27.34911	0	716940	0.00194	0	26.48782	0
0300-0400	711563	0.00194	0	27.024	0	715699	0.00193	0	27.30697	0	718596	0.00193	0	27.01457	0
0400-0500	712804	0.00194	0	26.899	0	716527	0.00193	0	27.22295	0	719425	0.00193	0	26.93169	0
0500-0600	714044	0.00194	0	26.775	0	716940	0.00193	0	27.18118	0	720253	0.00193	0	26.84926	0
0600-0700	714458	0.00194	4	26.733	0.1496	718596	0.00192	4	27.72544	0.144271	720667	0.00193	4	26.80817	0.149208
0700-0800	715285	0.00194	4	26.651	0.1500	719425	0.00192	4	27.64038	0.144715	721496	0.00193	4	26.72616	0.149666
0800-0900	709911	0.00195	4	26.502	0.1509	719010	0.00192	4	27.68291	0.144493	722325	0.00193	4	26.64449	0.150124
0900-1000	701658	0.00195	4	27.341	0.1462	711977	0.00194	4	26.98274	0.148242	715699	0.00194	4	26.61040	0.150317
1000-1100	691370	0.00195	4	28.439	0.1406	700833	0.00194	4	28.14136	0.142139	704544	0.00195	4	27.04384	0.147907
1100-1200	682754	0.00194	4	30.171	0.1325	690548	0.00194	4	29.27226	0.136648	693425	0.00195	4	28.21499	0.141768
1200-1300	676616	0.00193	4	31.715	0.1261	682344	0.00193	4	31.01066	0.128987	683983	0.00195	4	29.26495	0.136682
1300-1400	672123	0.00192	4	33.132	0.1207	676616	0.00192	4	32.54980	0.122888	677842	0.00194	4	30.75746	0.130049
1400-1500	670899	0.00192	4	33.294	0.1201	674164	0.00192	4	32.86625	0.121705	676207	0.00194	4	30.95605	0.129215
1500-1600	671715	0.00193	4	32.335	0.1237	676207	0.00193	4	31.76638	0.125919	678251	0.00194	4	30.70806	0.130258
1600-1700	675798	0.00194	4	31.006	0.1290	681935	0.00194	4	30.26794	0.132153	683983	0.00195	4	29.26495	0.136682
1700-1800	681935	0.00195	4	29.499	0.1355	690548	0.00195	4	28.52935	0.140206	692602	0.00196	4	27.58970	0.144981
1800-1900	689727	0.00196	1	27.897	0.0358	701245	0.00195	1	27.38423	0.036517	703719	0.00195	1	27.12841	0.036861
1900-2000	699597	0.00196	1	26.860	0.0372	707020	0.00194	1	27.48985	0.036377	709497	0.00195	1	26.54362	0.037673
2000-2100	704956	0.00195	1	27.001	0.0370	709497	0.00194	1	27.23483	0.036717	712390	0.00194	1	26.94107	0.037118
2100-2200	707020	0.00195	1	26.792	0.0373	711150	0.00194	1	27.06645	0.036946	714044	0.00194	1	26.77508	0.037348
2200-2300	707846	0.00195	1	26.708	0.0374	712390	0.00193	1	27.64630	0.036171	714458	0.00194	1	26.73376	0.037405
2300-0000	709084	0.00195	1	26.584	0.0376	713217	0.00193	1	27.56095	0.036283	715285	0.00194	1	26.65146	0.037521

TABLE 5. HOMESTEAD 5 INCH THICK ASPHALT

	JANUARY					FEBRUARY					MARCH				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	717354	0.00108	0	494.6158	0	716527	0.00108	0	496.1386	0	714458	0.00109	0	477.4591	0
0100-0200	718182	0.00108	0	493.0975	0	717354	0.00108	0	494.6158	0	715699	0.00109	0	475.2559	0
0200-0300	719010	0.00108	0	491.5857	0	718596	0.00108	0	492.3408	0	716527	0.00108	0	496.1386	0
0300-0400	719839	0.00108	0	490.0784	0	719425	0.00108	0	490.8303	0	717354	0.00108	0	494.6158	0
0400-0500	720667	0.00108	0	488.5792	0	720253	0.00108	0	489.3280	0	718596	0.00108	0	492.3408	0
0500-0600	721496	0.00108	0	487.0846	0	721082	0.00108	0	487.8302	0	719425	0.00108	0	490.8303	0
0600-0700	722325	0.00108	4	485.5962	0.008237	721910	0.00108	4	486.3405	0.008224	720253	0.00108	4	489.3280	0.0081
0700-0800	723154	0.00108	4	484.1141	0.008262	722325	0.00108	4	485.5962	0.008237	720667	0.00108	4	488.5792	0.0081
0800-0900	723154	0.00108	4	484.1141	0.008262	721082	0.00108	4	487.8302	0.008199	718596	0.00108	4	492.3408	0.0081
0900-1000	720667	0.00108	4	488.5792	0.008187	717354	0.00108	4	494.6158	0.008087	714458	0.00109	4	477.4591	0.0083
1000-1100	716113	0.00109	4	474.5240	0.008429	711563	0.00109	4	482.6535	0.008287	709497	0.00109	4	486.4081	0.0082
1100-1200	709497	0.00109	4	486.4081	0.008223	705369	0.00108	4	517.3306	0.007731	703719	0.00108	4	520.5695	0.0076
1200-1300	702482	0.00108	4	523.0160	0.007647	700009	0.00107	4	553.0909	0.007232	697950	0.00107	4	557.4500	0.0071
1300-1400	697127	0.00107	4	559.2055	0.007153	695070	0.00106	4	590.7193	0.006771	693425	0.00106	4	594.4613	0.0067
1400-1500	693425	0.00106	4	594.4613	0.006728	692191	0.00106	4	597.2898	0.006696	690548	0.00105	4	630.2581	0.0063
1500-1600	692191	0.00106	4	597.2898	0.006696	690548	0.00106	4	601.0846	0.006654	689316	0.00105	4	633.2645	0.0063
1600-1700	693013	0.00107	4	568.0962	0.007041	690959	0.00106	4	600.1322	0.006665	689727	0.00106	4	602.9932	0.0066
1700-1800	696715	0.00108	4	534.6330	0.007481	693013	0.00107	4	568.0962	0.007041	691781	0.00107	4	570.7965	0.0070
1800-1900	702070	0.00109	1	500.2421	0.001999	697127	0.00108	1	533.7914	0.001873	695481	0.00108	1	537.1648	0.0018
1900-2000	707020	0.00109	1	490.9628	0.002036	702482	0.00109	1	499.4606	0.002002	700833	0.00109	1	502.5987	0.0019
2000-2100	710737	0.00109	1	484.1498	0.002065	707433	0.00109	1	490.1993	0.002039	705369	0.00109	1	494.0313	0.0020
2100-2200	713217	0.00109	1	479.6763	0.002084	710737	0.00109	1	484.1498	0.002065	709084	0.00109	1	487.1635	0.0020
2200-2300	714871	0.00109	1	476.7243	0.002097	713217	0.00109	1	479.6763	0.002084	711563	0.00109	1	482.6535	0.0020
2300-0000	716527	0.00108	1	496.1386	0.002015	715285	0.00109	1	475.9893	0.002100	713217	0.00109	1	479.6763	0.0020

	APRIL					MAY					JUNE				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	712804	0.00109	0	480.4174	0	710737	0.00109	0	484.1498	0	709911	0.00109	0	485.6525	0
0100-0200	713631	0.00109	0	478.9351	0	711563	0.00109	0	482.6535	0	711150	0.00109	0	483.4009	0
0200-0300	714871	0.00109	0	476.7243	0	712804	0.00109	0	480.4174	0	711977	0.00109	0	481.9059	0
0300-0400	715699	0.00109	0	475.2559	0	713631	0.00109	0	478.9351	0	712804	0.00109	0	480.4174	0
0400-0500	716113	0.00108	0	496.9034	0	714458	0.00109	0	477.4591	0	713631	0.00109	0	478.9351	0
0500-0600	716940	0.00108	0	495.3773	0	715699	0.00109	0	475.2559	0	714458	0.00109	0	477.4591	0
0600-0700	717768	0.00108	4	493.8558	0.008099	716113	0.00108	4	496.9034	0.008049	715285	0.00109	4	475.9893	0.0084
0700-0800	718182	0.00108	4	493.0975	0.008111	715285	0.00109	4	475.9893	0.008403	714458	0.00109	4	477.4591	0.0083
0800-0900	716527	0.00108	4	496.1386	0.008062	712390	0.00109	4	481.1618	0.008313	711563	0.00109	4	482.6535	0.0082
0900-1000	712804	0.00109	4	480.4174	0.008326	708671	0.00109	4	487.9205	0.008198	707433	0.00109	4	490.1993	0.0081
1000-1100	707433	0.00108	4	513.3179	0.007792	703719	0.00108	4	520.5695	0.007683	702482	0.00108	4	523.0160	0.0076
1100-1200	701658	0.00108	4	524.6545	0.007624	699185	0.00107	4	554.8297	0.007209	697950	0.00107	4	557.4500	0.0071
1200-1300	696304	0.00107	4	560.9687	0.007130	695070	0.00106	4	590.7193	0.006771	693425	0.00106	4	594.4613	0.0067
1300-1400	691781	0.00105	4	627.2688	0.006376	691781	0.00106	4	598.2337	0.006686	690137	0.00105	4	631.2588	0.0063
1400-1500	688906	0.00105	4	634.2694	0.006306	689316	0.00105	4	633.2645	0.006316	687674	0.00104	4	668.5367	0.0059
1500-1600	688085	0.00105	4	636.2883	0.006286	688495	0.00105	4	635.2790	0.006296	686443	0.00104	4	671.7365	0.0059
1600-1700	688495	0.00105	4	635.2790	0.006296	688495	0.00105	4	635.2790	0.006296	686854	0.00104	4	670.6658	0.0059
1700-1800	690959	0.00106	4	600.1322	0.006665	690137	0.00106	4	602.0390	0.006644	688085	0.00105	4	636.2883	0.0062
1800-1900	694658	0.00108	1	538.8625	0.001855	692602	0.00107	1	568.9951	0.001757	690548	0.00106	1	601.0846	0.0016
1900-2000	699597	0.00109	1	504.9685	0.001980	696304	0.00108	1	535.4745	0.001867	694247	0.00108	1	539.7131	0.0018
2000-2100	704131	0.00109	1	496.3495	0.002014	700421	0.00109	1	503.3869	0.001986	699185	0.00109	1	505.7619	0.0019
2100-2200	707433	0.00109	1	490.1993	0.002039	704131	0.00109	1	496.3495	0.002014	703307	0.00109	1	497.9008	0.0020
2200-2300	709497	0.00109	1	486.4081	0.002055	707020	0.00109	1	490.9628	0.002036	706194	0.00109	1	492.4947	0.0020
2300-0000	711563	0.00109	1	482.6535	0.002071	709084	0.00109	1	487.1635	0.002052	708258	0.00109	1	488.6791	0.0020

TABLE 5 CONTINUED

	JULY					SEPTEMBER					OCTOBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	709084	0.00109	0	487.1635	0	709911	0.00109	0	485.6525	0	711150	0.00109	0	483.4009	0
0100-0200	710324	0.00109	0	484.9004	0	711150	0.00109	0	483.4009	0	711977	0.00109	0	481.9059	0
0200-0300	711563	0.00109	0	482.6535	0	711563	0.00109	0	482.6535	0	712804	0.00109	0	480.4174	0
0300-0400	712390	0.00109	0	481.1618	0	712390	0.00109	0	481.1618	0	713631	0.00109	0	478.9351	0
0400-0500	713217	0.00109	0	479.6763	0	713217	0.00109	0	479.6763	0	714458	0.00109	0	477.4591	0
0500-0600	714044	0.00109	0	478.1972	0	714044	0.00109	0	478.1972	0	715285	0.00109	0	475.9893	0
0600-0700	714871	0.00109	4	476.7243	0.008390	714458	0.00109	4	477.4591	0.008377	715699	0.00109	4	475.2559	0.00841
0700-0800	714044	0.00109	4	478.1972	0.008364	714871	0.00109	4	476.7243	0.008390	716527	0.00108	4	496.1386	0.00806
0800-0900	711150	0.00109	4	483.4009	0.008274	713217	0.00109	4	479.6763	0.008338	715285	0.00109	4	475.9893	0.00840
0900-1000	706607	0.00108	4	514.9186	0.007768	709497	0.00109	4	486.4081	0.008223	711563	0.00109	4	482.6535	0.00828
1000-1100	702070	0.00108	4	523.8344	0.007636	704544	0.00108	4	518.9466	0.007707	705782	0.00108	4	516.5242	0.00774
1100-1200	697127	0.00107	4	559.2055	0.007153	698774	0.00107	4	555.6999	0.007198	700009	0.00107	4	553.0909	0.00723
1200-1300	692602	0.00106	4	596.3457	0.006707	693836	0.00106	4	593.5233	0.006739	694658	0.00106	4	591.6535	0.00676
1300-1400	689316	0.00105	4	633.2645	0.006316	689316	0.00104	4	664.3011	0.006021	690137	0.00105	4	631.2588	0.00633
1400-1500	686443	0.00104	4	671.7365	0.005954	686443	0.00104	4	671.7365	0.005954	687264	0.00104	4	669.6001	0.00597
1500-1600	685213	0.00103	4	708.3620	0.005646	685213	0.00103	4	708.3620	0.005646	686033	0.00104	4	672.8069	0.00594
1600-1700	685213	0.00104	4	674.9548	0.005926	685623	0.00104	4	673.8797	0.005935	686443	0.00104	4	671.7365	0.00595
1700-1800	686854	0.00105	4	639.3319	0.006256	688085	0.00105	4	636.2883	0.006286	688495	0.00106	4	605.8731	0.00660
1800-1900	689727	0.00106	1	602.9932	0.001658	691781	0.00107	1	570.7965	0.001751	692602	0.00107	1	568.9951	0.00175
1900-2000	693425	0.00107	1	567.1971	0.001763	696715	0.00108	1	534.6330	0.001870	697950	0.00108	1	532.1156	0.00187
2000-2100	697950	0.00108	1	532.1156	0.001879	701245	0.00109	1	501.8121	0.001992	702482	0.00109	1	499.4606	0.00200
2100-2200	702070	0.00109	1	500.2421	0.001999	704544	0.00109	1	495.5745	0.002017	706194	0.00109	1	492.4947	0.00203
2200-2300	704956	0.00109	1	494.8030	0.002021	707020	0.00109	1	490.9628	0.002036	708258	0.00109	1	488.6791	0.00204
2300-0000	707433	0.00109	1	490.1993	0.002039	708671	0.00109	1	487.9205	0.002049	709911	0.00109	1	485.6525	0.00205

	NOVEMBER					DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	714458	0.00112	0	416.8488	0	716527	0.00108	0	496.1386	0
0100-0200	715285	0.00112	0	415.5656	0	717354	0.00108	0	494.6158	0
0200-0300	716113	0.00112	0	414.2863	0	717768	0.00108	0	493.8558	0
0300-0400	716940	0.00112	0	413.0140	0	718596	0.00108	0	492.3408	0
0400-0500	717354	0.00112	0	412.3791	0	719425	0.00108	0	490.8303	0
0500-0600	718182	0.00112	0	411.1132	0	720253	0.00108	0	489.3280	0
0600-0700	719010	0.00112	4	409.8528	0.009759	720667	0.00108	4	488.5792	0.008187
0700-0800	719425	0.00112	4	409.2230	0.009774	721496	0.00108	4	487.0846	0.008212
0800-0900	719839	0.00112	4	408.5961	0.009789	722325	0.00108	4	485.5962	0.008237
0900-1000	717768	0.00112	4	411.7455	0.009714	720253	0.00108	4	489.3280	0.008174
1000-1100	712804	0.00113	4	401.1982	0.009970	715285	0.00109	4	475.9893	0.008403
1100-1200	706607	0.00112	4	429.3063	0.009317	708671	0.00109	4	487.9205	0.008198
1200-1300	700009	0.00111	4	460.3631	0.008688	702070	0.00108	4	523.8344	0.007636
1300-1400	694658	0.0011	4	491.6243	0.008136	696304	0.00107	4	560.9687	0.007130
1400-1500	690959	0.00109	4	521.9679	0.007663	692602	0.00106	4	596.3457	0.006707
1500-1600	689316	0.00109	4	525.2900	0.007614	690959	0.00106	4	600.1322	0.006665
1600-1700	690548	0.0011	4	499.4609	0.008008	692191	0.00107	4	569.8959	0.007018
1700-1800	693836	0.00111	4	471.3595	0.008486	695481	0.00108	4	537.1648	0.007446
1800-1900	699185	0.00113	1	422.3635	0.002367	701245	0.00109	1	501.8121	0.001992
1900-2000	704131	0.00113	1	414.5032	0.002412	706194	0.00109	1	492.4947	0.002030
2000-2100	707846	0.00113	1	408.7309	0.002446	709911	0.00109	1	485.6525	0.002059
2100-2200	710324	0.00113	1	404.9420	0.002469	712390	0.00109	1	481.1618	0.002078
2200-2300	712390	0.00113	1	401.8198	0.002488	714044	0.00109	1	478.1972	0.002091
2300-0000	713631	0.00112	1	418.1374	0.002391	715699	0.00109	1	475.2559	0.002104

TABLE 6. HOMESTEAD 10 INCH STRONG SUPPORT

	JANUARY					MARCH					APRIL				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	666009	0.00144	0	143.0637	0	651395	0.00145	0	146.6159	0	645736	0.00146	0	144.9959	0
0100-0200	685623	0.00142	0	142.0062	0	675798	0.00143	0	142.4867	0	672123	0.00143	0	144.5724	0
0200-0300	688906	0.00141	0	145.2528	0	679683	0.00143	0	140.3265	0	675594	0.00143	0	142.6014	0
0300-0400	691986	0.00141	0	143.5362	0	683164	0.00142	0	143.3724	0	679069	0.00143	0	140.6649	0
0400-0500	694658	0.0014	0	147.2165	0	686443	0.00142	0	141.5545	0	682344	0.00142	0	143.8321	0
0500-0600	697538	0.0014	0	145.6022	0	689727	0.00141	0	144.7925	0	685418	0.00142	0	142.1194	0
0600-0700	700215	0.00139	4	149.3829	0.026776	692808	0.00141	4	143.0828	0.027955	688290	0.00141	4	145.5995	0.0274
0700-0800	702688	0.00139	4	147.9859	0.027029	695687	0.0014	4	146.6369	0.027278	690959	0.00141	4	144.1055	0.0277
0800-0900	705163	0.00138	4	151.9951	0.026316	698362	0.0014	4	145.1448	0.027558	693425	0.00141	4	142.7438	0.0280
0900-1000	707433	0.00138	4	150.6988	0.026543	700009	0.0014	4	144.2365	0.027732	695070	0.00141	4	141.8453	0.0281
1000-1100	708465	0.00138	4	150.1145	0.026646	700215	0.00141	4	139.0846	0.028759	695070	0.00141	4	141.8453	0.0281
1100-1200	708052	0.0014	4	139.9113	0.028589	698362	0.00141	4	140.0703	0.028557	693219	0.00142	4	137.8970	0.0290
1200-1300	704956	0.00141	4	136.6058	0.029281	694247	0.00142	4	137.3536	0.029121	689316	0.00142	4	139.9877	0.0285
1300-1400	699803	0.00142	4	134.4665	0.029747	688906	0.00142	4	140.2098	0.028528	683983	0.00142	4	142.9154	0.0279
1400-1500	692808	0.00142	4	138.1152	0.028961	681935	0.00142	4	144.0621	0.027765	677229	0.00142	4	146.7454	0.0272
1500-1600	685008	0.00142	4	142.3462	0.028100	674777	0.00142	4	148.1708	0.026995	670083	0.00141	4	156.3825	0.0255
1600-1700	677638	0.00142	4	146.5095	0.027301	668045	0.00141	4	157.6572	0.025371	663567	0.00141	4	160.5085	0.0249
1700-1800	671511	0.00142	4	150.0991	0.026649	662347	0.00141	4	161.2976	0.024798	658082	0.0014	4	170.0435	0.0235
1800-1900	667638	0.00142	1	152.4308	0.006560	658082	0.00141	1	164.0985	0.006093	654229	0.00141	1	166.6867	0.0059
1900-2000	666212	0.00143	1	148.0161	0.006756	656054	0.00142	1	159.7095	0.006261	652407	0.00142	1	162.0999	0.0061
2000-2100	667434	0.00144	1	142.2512	0.007029	656459	0.00143	1	153.9494	0.006495	652812	0.00143	1	156.2521	0.0063
2100-2200	670083	0.00144	1	140.7574	0.007104	658691	0.00144	1	147.3388	0.006787	655243	0.00144	1	149.4141	0.0066
2200-2300	673756	0.00143	1	143.6404	0.006961	662347	0.00144	1	145.1814	0.006887	658691	0.00144	1	147.3388	0.0067
2300-0000	677433	0.00143	1	141.5720	0.007063	666416	0.00144	1	142.8310	0.007001	662754	0.00144	1	144.9439	0.0068

	MAY					JUNE					JULY				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	636873	0.00147	0	145.3881	0	630050	0.00147	0	149.6220	0	626046	0.00147	0	152.1858	0
0100-0200	666009	0.00144	0	143.0637	0	661534	0.00144	0	145.6574	0	658691	0.00144	0	147.3388	0
0200-0300	669675	0.00144	0	140.9861	0	665194	0.00144	0	143.5313	0	662550	0.00144	0	145.0629	0
0300-0400	673143	0.00143	0	143.9893	0	668860	0.00144	0	141.4444	0	666416	0.00144	0	142.8310	0
0400-0500	676411	0.00143	0	142.1428	0	672327	0.00143	0	144.4555	0	669879	0.00144	0	140.8717	0
0500-0600	679683	0.00143	0	140.3265	0	675390	0.00143	0	142.7162	0	673347	0.00143	0	143.8731	0
0600-0700	682754	0.00142	4	143.6020	0.027854	678251	0.00143	4	141.1175	0.028345	676411	0.00143	4	142.1428	0.0281
0700-0800	685418	0.00142	4	142.1194	0.028145	681321	0.00142	4	144.4083	0.027699	679479	0.00143	4	140.4388	0.0284
0800-0900	687674	0.00142	4	140.8802	0.028392	683574	0.00142	4	143.1434	0.027943	681730	0.00143	4	139.2064	0.0287
0900-1000	688700	0.00142	4	140.3216	0.028505	684598	0.00143	4	137.6576	0.029057	682754	0.00143	4	138.6507	0.0288
1000-1100	687879	0.00142	4	140.7684	0.028415	683778	0.00143	4	138.0980	0.028964	682140	0.00143	4	138.9835	0.0287
1100-1200	685828	0.00143	4	137.0007	0.029196	681525	0.00143	4	139.3180	0.028711	679683	0.00143	4	140.3265	0.0285
1200-1300	681730	0.00143	4	139.2064	0.028734	677433	0.00142	4	146.6277	0.027279	675594	0.00142	4	147.6938	0.0270
1300-1400	676616	0.00142	4	147.1000	0.027192	672123	0.00142	4	149.7352	0.026713	670287	0.00142	4	150.8307	0.0265
1400-1500	670899	0.00142	4	150.4643	0.026584	666212	0.00141	4	158.8158	0.025186	664177	0.00141	4	160.1159	0.0249
1500-1600	664787	0.00141	4	159.7247	0.025043	660112	0.0014	4	168.6535	0.023717	657879	0.00139	4	176.3938	0.0226
1600-1700	659097	0.0014	4	169.3465	0.023620	654229	0.00139	4	179.0287	0.022342	652002	0.00138	4	187.3043	0.0213
1700-1800	654635	0.0014	4	172.4401	0.023196	649372	0.00139	4	182.6195	0.021903	646746	0.00138	4	191.3884	0.0208
1800-1900	650990	0.0014	1	175.0253	0.005713	645736	0.00139	1	185.3228	0.005394	642912	0.00138	1	194.4452	0.0051
1900-2000	648968	0.00141	1	170.3122	0.005871	643517	0.00139	1	187.0812	0.005345	640696	0.00139	1	189.2844	0.0052
2000-2100	648564	0.00142	1	164.6723	0.006072	642912	0.00141	1	174.6213	0.005726	640293	0.0014	1	182.9266	0.0054
2100-2200	650181	0.00143	1	157.9428	0.006331	644324	0.00142	1	167.5760	0.005967	641502	0.00142	1	169.5478	0.0058
2200-2300	652812	0.00144	1	150.9015	0.006626	647150	0.00143	1	159.9220	0.006253	644525	0.00143	1	161.6636	0.0061
2300-0000	656662	0.00144	1	148.5552	0.006731	651193	0.00144	1	151.9034	0.006583	648160	0.00144	1	153.8052	0.0065

TABLE 6 CONTINUED

	AUGUST					SEPTEMBER					OCTOBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	625247	0.00147	0	152.7046	0	631653	0.00147	0	148.6122	0	638884	0.00146	0	149.1772	0
0100-0200	658285	0.00144	0	147.5811	0	662550	0.00144	0	145.0629	0	667434	0.00144	0	142.2512	0
0200-0300	662347	0.00144	0	145.1814	0	666416	0.00144	0	142.8310	0	670899	0.00144	0	140.3016	0
0300-0400	666009	0.00144	0	143.0637	0	669675	0.00144	0	140.9861	0	674368	0.00143	0	143.2933	0
0400-0500	669675	0.00144	0	140.9861	0	672531	0.00143	0	144.3388	0	677433	0.00143	0	141.5720	0
0500-0600	672939	0.00143	0	144.1057	0	675594	0.00143	0	142.6014	0	680297	0.00143	0	139.9892	0
0600-0700	676207	0.00143	4	142.2571	0.028118	678251	0.00143	4	141.1175	0.028345	682959	0.00142	4	143.4872	0.02787
0700-0800	678865	0.00143	4	140.7776	0.028413	680706	0.00143	4	139.7652	0.028619	685623	0.00142	4	142.0062	0.02816
0800-0900	681116	0.00143	4	139.5411	0.028665	682959	0.00142	4	143.4872	0.027877	688085	0.00141	4	145.7152	0.02745
0900-1000	681935	0.00143	4	139.0949	0.028757	684598	0.00142	4	142.5735	0.028055	689932	0.00142	4	139.6548	0.02864
1000-1100	681116	0.00143	4	139.5411	0.028665	684598	0.00143	4	137.6576	0.029057	690137	0.00142	4	139.5443	0.02866
1100-1200	678660	0.00143	4	140.8909	0.028390	682959	0.00143	4	138.5398	0.028872	688495	0.00142	4	140.4330	0.02848
1200-1300	674368	0.00142	4	148.4104	0.026952	679274	0.00143	4	140.5518	0.028459	684803	0.00143	4	137.5478	0.02908
1300-1400	669064	0.00141	4	157.0181	0.025474	673756	0.00142	4	148.7699	0.026887	679069	0.00142	4	145.6881	0.02745
1400-1500	662957	0.0014	4	166.7316	0.023990	667638	0.00141	4	157.9134	0.025330	672327	0.00141	4	154.9954	0.02580
1500-1600	656459	0.00139	4	177.4125	0.022546	660518	0.0014	4	168.3774	0.023756	665194	0.0014	4	165.2415	0.02420
1600-1700	650586	0.00138	4	188.3927	0.021232	654229	0.00139	4	179.0287	0.022342	658691	0.0014	4	169.6249	0.02358
1700-1800	645333	0.00137	4	199.6364	0.020036	648766	0.00138	4	189.8044	0.021074	653014	0.00139	4	179.9178	0.02223
1800-1900	641703	0.00138	1	195.4230	0.005117	644929	0.00139	1	185.9916	0.005376	648968	0.0014	1	176.4823	0.00566
1900-2000	639488	0.00138	1	197.2322	0.005070	642912	0.0014	1	180.9475	0.005526	646948	0.00141	1	171.7331	0.00582
2000-2100	639085	0.0014	1	183.8496	0.005439	643315	0.00142	1	168.2773	0.005942	647553	0.00143	1	159.6569	0.00626
2100-2200	640494	0.00142	1	170.2598	0.005873	645534	0.00143	1	160.9911	0.006211	649777	0.00144	1	152.7872	0.00654
2200-2300	643719	0.00143	1	162.2036	0.006165	648766	0.00144	1	153.4226	0.006517	653622	0.00144	1	150.4037	0.00664
2300-0000	647756	0.00144	1	154.0609	0.006490	652812	0.00144	1	150.9015	0.006626	657676	0.00144	1	147.9456	0.00675

	DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	662754	0.00144	0	144.9439	0
0100-0200	683574	0.00142	0	143.1434	0
0200-0300	686854	0.00142	0	141.3289	0
0300-0400	689521	0.00141	0	144.9078	0
0400-0500	692397	0.00141	0	143.3093	0
0500-0600	695070	0.0014	0	146.9841	0
0600-0700	697538	0.0014	4	145.6022	0.027472
0700-0800	700009	0.00139	4	149.5000	0.026755
0800-0900	702070	0.00139	4	148.3333	0.026966
0900-1000	704338	0.00138	4	152.4700	0.026234
1000-1100	705782	0.00139	4	146.2633	0.027342
1100-1200	705163	0.0014	4	141.4441	0.028279
1200-1300	702482	0.00141	4	137.8917	0.029008
1300-1400	697333	0.00142	4	135.7396	0.029468
1400-1500	690548	0.00142	4	139.3231	0.028710
1500-1600	682754	0.00142	4	143.6020	0.027854
1600-1700	675185	0.00142	4	147.9323	0.027039
1700-1800	669268	0.00142	4	151.4435	0.026412
1800-1900	665194	0.00142	1	153.9279	0.006496
1900-2000	663770	0.00143	1	149.4718	0.006690
2000-2100	664991	0.00144	1	143.6481	0.006961
2100-2200	667638	0.00144	1	142.1354	0.007035
2200-2300	671307	0.00144	1	140.0745	0.007139
2300-0000	674981	0.00143	1	142.9168	0.006995

TABLE 7. MINOT 3 INCH THICK ASPHALT

	JANUARY					MARCH					APRIL				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	1001359	0.00166	0	23.70305	0	986148	0.00169	0	22.57498	0	974863	0.00171	0	21.94832	0
0100-0200	1002554	0.00165	0	24.35256	0	987394	0.00168	0	23.17928	0	976076	0.00171	0	21.87571	0
0200-0300	1003749	0.00165	0	24.27537	0	988558	0.00168	0	23.10412	0	977287	0.0017	0	22.45241	0
0300-0400	1004147	0.00165	0	24.24974	0	989762	0.00168	0	23.02929	0	978498	0.0017	0	22.37843	0
0400-0500	1005340	0.00165	0	24.17312	0	990965	0.00168	0	22.95486	0	980514	0.0017	0	22.25602	0
0500-0600	1006136	0.00165	0	24.12219	0	992167	0.00167	0	23.57413	0	982125	0.00169	0	22.82226	0
0600-0700	1007328	0.00165	4	24.04619	0.166346	992568	0.00167	4	23.54876	0.169860	983333	0.00169	4	22.74761	0.1758
0700-0800	1006533	0.00165	4	24.09684	0.165996	993769	0.00167	4	23.47299	0.170408	982931	0.00169	4	22.77242	0.1756
0800-0900	1004943	0.00165	4	24.19858	0.165298	989762	0.00168	4	23.02929	0.173691	977691	0.00171	4	21.77954	0.1836
0900-1000	998966	0.00166	4	23.85467	0.167682	982931	0.00169	4	22.77242	0.175651	970008	0.00172	4	21.60320	0.1851
1000-1100	989762	0.00168	4	23.02929	0.173691	975268	0.00171	4	21.92404	0.182448	962705	0.00174	4	20.80467	0.1922
1100-1200	980917	0.0017	4	22.23166	0.179923	968387	0.00172	4	21.69970	0.184334	955787	0.00175	4	20.60933	0.1940
1200-1300	973651	0.00171	4	22.02121	0.181643	963112	0.00173	4	21.38885	0.187013	950891	0.00176	4	20.30648	0.1969
1300-1400	968793	0.00172	4	21.67548	0.184540	959452	0.00174	4	20.99318	0.190537	947213	0.00176	4	20.51730	0.1949
1400-1500	967577	0.00172	4	21.74815	0.183923	957824	0.00174	4	21.08841	0.189677	945168	0.00177	4	20.05943	0.1994
1500-1600	969198	0.00172	4	21.65135	0.184745	957824	0.00174	4	21.08841	0.189677	945168	0.00176	4	20.63582	0.1938
1600-1700	974055	0.00171	4	21.99688	0.181843	960266	0.00174	4	20.94579	0.190969	947622	0.00176	4	20.49371	0.1951
1700-1800	981320	0.00169	4	22.87218	0.174884	964330	0.00173	4	21.31693	0.187644	951708	0.00175	4	20.84557	0.1918
1800-1900	990163	0.00168	1	23.00445	0.043469	970008	0.00172	1	21.60320	0.046289	958231	0.00174	1	21.06455	0.0474
1900-2000	994970	0.00167	1	23.39756	0.042739	977287	0.0017	1	22.45241	0.044538	965142	0.00173	1	21.26916	0.0470
2000-2100	997368	0.00166	1	23.95667	0.041742	981320	0.00169	1	22.87218	0.043721	969198	0.00172	1	21.65135	0.0461
2100-2200	998966	0.00166	1	23.85467	0.041920	983333	0.00169	1	22.74761	0.043960	970818	0.00172	1	21.55520	0.0463
2200-2300	999365	0.00166	1	23.82930	0.041965	984942	0.00169	1	22.64872	0.044152	972437	0.00171	1	22.09455	0.0452
2300-0000	1000561	0.00166	1	23.75346	0.042099	985344	0.00169	1	22.62410	0.044200	973651	0.00171	1	22.02121	0.0454

	MAY					JUNE					JULY				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	965142	0.00173	0	21.26916	0	959045	0.00287	0	1.721496	0	955379	0.00175	0	20.63279	0
0100-0200	966360	0.00173	0	21.19780	0	961486	0.00286	0	1.739976	0	957009	0.00174	0	21.13631	0
0200-0300	968387	0.00172	0	21.69970	0	963112	0.00284	0	1.794015	0	959045	0.00174	0	21.01693	0
0300-0400	970008	0.00172	0	21.60320	0	965142	0.00283	0	1.815719	0	960672	0.00174	0	20.92221	0
0400-0500	972033	0.00171	0	22.11903	0	966765	0.00282	0	1.839885	0	962705	0.00173	0	21.41295	0
0500-0600	973651	0.00171	0	22.02121	0	968793	0.0028	0	1.895923	0	964330	0.00173	0	21.31693	0
0600-0700	974863	0.00171	4	21.94832	0.182246	965548	0.00284	4	1.781978	2.244695	962705	0.00173	4	21.41295	0.1868
0700-0800	972033	0.00172	4	21.48347	0.186189	959859	0.00288	4	1.687995	2.369674	957416	0.00175	4	20.51601	0.1949
0800-0900	965954	0.00173	4	21.22155	0.188487	952932	0.00294	4	1.552315	2.576795	950074	0.00176	4	20.35306	0.1965
0900-1000	958638	0.00174	4	21.04072	0.190107	945577	0.003	4	1.432445	2.792427	942711	0.00177	4	20.19907	0.1980
1000-1100	952116	0.00176	4	20.23693	0.197658	939432	0.00305	4	1.341934	2.980771	934917	0.00178	4	20.07735	0.1992
1100-1200	945986	0.00177	4	20.01324	0.199867	934095	0.00309	4	1.276533	3.133487	928749	0.00178	4	20.43466	0.1957
1200-1300	941072	0.00177	4	20.29295	0.197112	930395	0.00312	4	1.229263	3.253980	924218	0.00179	4	20.13087	0.1986
1300-1400	937791	0.00178	4	19.91379	0.200865	927514	0.00314	4	1.200492	3.331966	920093	0.00179	4	20.37229	0.1963
1400-1500	936149	0.00178	4	20.00701	0.199929	925454	0.00316	4	1.169891	3.419120	918029	0.00179	4	20.49458	0.1951
1500-1600	935738	0.00178	4	20.03043	0.199696	925866	0.00315	4	1.187170	3.369356	918029	0.00179	4	20.49458	0.1951
1600-1700	937380	0.00177	4	20.50666	0.195058	926690	0.00314	4	1.203339	3.324084	919268	0.00179	4	20.42105	0.1958
1700-1800	940252	0.00177	4	20.34015	0.196655	929161	0.00311	4	1.253580	3.190860	922156	0.00179	4	20.25105	0.1975
1800-1900	944758	0.00176	1	20.65969	0.048403	933273	0.00308	1	1.300438	0.768971	926690	0.00178	1	20.55588	0.0486
1900-2000	950074	0.00175	1	20.94126	0.047752	938611	0.00303	1	1.390046	0.719400	932451	0.00178	1	20.21916	0.0494
2000-2100	956602	0.00174	1	21.16028	0.047258	944349	0.00298	1	1.486302	0.672810	939022	0.00177	1	20.41123	0.0489
2100-2200	959859	0.00174	1	20.96947	0.047688	950891	0.00293	1	1.588035	0.629709	946395	0.00176	1	20.56459	0.0486
2200-2300	962299	0.00173	1	21.43704	0.046648	954971	0.0029	1	1.652923	0.604988	950891	0.00175	1	20.89334	0.0478
2300-0000	963924	0.00173	1	21.34086	0.046858	957416	0.00289	1	1.670298	0.598695	953748	0.00175	1	20.72696	0.0482

TABLE 7 CONTINUED

	AUGUST					SEPTEMBER					OCTOBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	957416	0.00174	0	21.11237	0	955379	0.00175	0	20.63279	0	972842	0.00171	0	22.07004	0
0100-0200	959045	0.00174	0	21.01693	0	957009	0.00174	0	21.13631	0	974459	0.00171	0	21.97258	0
0200-0300	960672	0.00174	0	20.92221	0	958638	0.00174	0	21.04072	0	975672	0.00171	0	21.89985	0
0300-0400	962299	0.00173	0	21.43704	0	960672	0.00174	0	20.92221	0	976883	0.0017	0	22.47716	0
0400-0500	964330	0.00173	0	21.31693	0	961892	0.00173	0	21.46122	0	978094	0.0017	0	22.40307	0
0500-0600	965954	0.00173	0	21.22155	0	963924	0.00173	0	21.34086	0	979304	0.0017	0	22.32938	0
0600-0700	967982	0.00172	4	21.72391	0.184128	966360	0.00173	4	21.19780	0.188698	980514	0.0017	4	22.25602	0.17972
0700-0800	964330	0.00173	4	21.31693	0.187644	967982	0.00172	4	21.72391	0.184128	981723	0.00169	4	22.84717	0.17507
0800-0900	956602	0.00175	4	20.56257	0.194528	962705	0.00174	4	20.80467	0.192264	976883	0.00171	4	21.82758	0.18325
0900-1000	948440	0.00176	4	20.44664	0.195631	954564	0.00175	4	20.67977	0.193425	968793	0.00172	4	21.67548	0.18454
1000-1100	940252	0.00177	4	20.34015	0.196655	945577	0.00177	4	20.03632	0.199637	960266	0.00174	4	20.94579	0.19096
1100-1200	933684	0.00178	4	20.14808	0.198530	936560	0.00178	4	19.98362	0.200163	952116	0.00176	4	20.23693	0.19765
1200-1300	927926	0.00179	4	19.91720	0.200831	929572	0.00178	4	20.38648	0.196208	945168	0.00177	4	20.05943	0.19940
1300-1400	923806	0.00179	4	20.15480	0.198463	924218	0.00179	4	20.13087	0.198699	940662	0.00177	4	20.31653	0.19688
1400-1500	921744	0.00179	4	20.27519	0.197285	921744	0.00179	4	20.27519	0.197285	938611	0.00177	4	20.43506	0.19574
1500-1600	921744	0.00179	4	20.27519	0.197285	921744	0.00179	4	20.27519	0.197285	939022	0.00177	4	20.41123	0.19597
1600-1700	923393	0.00179	4	20.17884	0.198227	924630	0.00179	4	20.10697	0.198935	942301	0.00177	4	20.22250	0.19779
1700-1800	927102	0.00178	4	20.53155	0.194822	929161	0.00178	4	20.41052	0.195977	947213	0.00176	4	20.51730	0.19495
1800-1900	932862	0.00178	1	20.19543	0.049516	936560	0.00177	1	20.55454	0.048651	954564	0.00175	1	20.67977	0.04835
1900-2000	939432	0.00177	1	20.38750	0.049049	944349	0.00176	1	20.68355	0.048347	962299	0.00173	1	21.43704	0.04664
2000-2100	946804	0.00176	1	20.54093	0.048683	948440	0.00176	1	20.44664	0.048907	966765	0.00172	1	21.79686	0.04587
2100-2200	951708	0.00175	1	20.84557	0.047971	951708	0.00175	1	20.84557	0.047971	968793	0.00172	1	21.67548	0.04613
2200-2300	954156	0.00175	1	20.70335	0.048301	952932	0.00175	1	20.77429	0.048136	970413	0.00172	1	21.57918	0.04634
2300-0000	956194	0.00175	1	20.58596	0.048576	954156	0.00175	1	20.70335	0.048301	971628	0.00171	1	22.14361	0.04515

	NOVEMBER					DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	985344	0.00169	0	22.62410	0	994170	0.00167	0	23.44777	0
0100-0200	985746	0.00169	0	22.59952	0	994970	0.00167	0	23.39756	0
0200-0300	986550	0.00168	0	23.22965	0	995770	0.00167	0	23.34750	0
0300-0400	987755	0.00168	0	23.15421	0	996969	0.00166	0	23.98223	0
0400-0500	988960	0.00168	0	23.07910	0	997368	0.00166	0	23.95667	0
0500-0600	989762	0.00168	0	23.02929	0	998566	0.00166	0	23.88015	0
0600-0700	990965	0.00168	4	22.95486	0.174254	999365	0.00166	4	23.82930	0.167860
0700-0800	992167	0.00167	4	23.57413	0.169677	1000561	0.00166	4	23.75346	0.168396
0800-0900	991767	0.00168	4	22.90543	0.174631	1001757	0.00166	4	23.67796	0.168933
0900-1000	984942	0.00169	4	22.64872	0.176610	1000561	0.00166	4	23.75346	0.168396
1000-1100	975672	0.00171	4	21.89985	0.182649	993769	0.00167	4	23.47299	0.170408
1100-1200	966360	0.00173	4	21.19780	0.188698	983333	0.0017	4	22.08639	0.181106
1200-1300	958231	0.00174	4	21.06455	0.189892	974459	0.00171	4	21.97258	0.182045
1300-1400	952932	0.00175	4	20.77429	0.192545	967982	0.00172	4	21.72391	0.184128
1400-1500	951299	0.00175	4	20.86947	0.191667	965954	0.00173	4	21.22155	0.188487
1500-1600	953340	0.00175	4	20.75061	0.192765	967982	0.00172	4	21.72391	0.184128
1600-1700	957824	0.00174	4	21.08841	0.189677	974055	0.00171	4	21.99688	0.181843
1700-1800	965142	0.00173	4	21.26916	0.188065	982931	0.00169	4	22.77242	0.175651
1800-1900	973651	0.00171	1	22.02121	0.045410	988157	0.00168	1	23.12911	0.043235
1900-2000	978094	0.0017	1	22.40307	0.044636	990564	0.00168	1	22.97964	0.043516
2000-2100	980917	0.0017	1	22.23166	0.044980	991366	0.00168	1	22.93013	0.043610
2100-2200	981723	0.00169	1	22.84717	0.043769	992167	0.00167	1	23.57413	0.042419
2200-2300	982931	0.00169	1	22.77242	0.043912	992969	0.00167	1	23.52342	0.042510
2300-0000	984138	0.00169	1	22.69806	0.044056	993769	0.00167	1	23.47299	0.042602

2.57050

TABLE 8. MINOT 5 INCH THICK ASPHALT

	FEBRUARY					MARCH					APRIL				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	U	n/N
0000-0100	988960	0.00093	0	443.9668	0	982125	0.000942	0	424.1677	0	973246	0.000958	0	399.4622	0
0100-0200	989762	0.000929	0	445.3982	0	983333	0.00094	0	427.2973	0	974459	0.000956	0	402.3205	0
0200-0300	990965	0.000927	0	448.7686	0	984138	0.000938	0	430.9314	0	975268	0.000954	0	405.6573	0
0300-0400	991767	0.000926	0	450.2253	0	984942	0.000937	0	432.2940	0	976479	0.000952	0	408.5829	0
0400-0500	992167	0.000925	0	452.1780	0	986148	0.000935	0	435.5147	0	977691	0.000949	0	413.7121	0
0500-0600	992969	0.000924	0	453.6523	0	986952	0.000934	0	436.9012	0	978901	0.000947	0	416.7234	0
0600-0700	994170	0.000922	4	457.1190	0.008750	987755	0.000933	4	438.2966	0.009126	980111	0.000945	4	419.7676	0.00952
0700-0800	994970	0.000921	4	458.6219	0.008721	988558	0.000931	4	442.0663	0.009048	980514	0.000945	4	419.3080	0.00953
0800-0900	995370	0.000921	4	458.1309	0.008731	987354	0.000934	4	436.4273	0.009165	978901	0.00095	4	410.1849	0.00975
0900-1000	993369	0.000925	4	450.7214	0.008874	984540	0.000941	4	423.6445	0.009441	975672	0.000958	4	396.8207	0.01008
1000-1100	989361	0.000933	4	436.4031	0.009165	980514	0.000949	4	410.5453	0.009743	971223	0.000966	4	385.3239	0.01038
1100-1200	984540	0.000942	4	421.4006	0.009492	976076	0.000958	4	396.3831	0.010091	966360	0.000974	4	374.7369	0.01067
1200-1300	979708	0.000951	4	407.1378	0.009824	971628	0.000965	4	386.8944	0.010338	962299	0.000981	4	365.6371	0.01093
1300-1400	975268	0.000958	4	397.2589	0.010068	967982	0.000971	4	378.8647	0.010557	958638	0.000985	4	361.9310	0.01105
1400-1500	972437	0.000962	4	392.0942	0.010201	965142	0.000974	4	375.9986	0.010638	955787	0.000987	4	361.1340	0.01107
1500-1600	971223	0.000963	4	391.3633	0.010220	963924	0.000975	4	375.3353	0.010657	954564	0.000988	4	360.5383	0.01109
1600-1700	971628	0.00096	4	397.0753	0.010073	963924	0.000974	4	377.2661	0.010602	954156	0.000987	4	362.7815	0.01102
1700-1800	974055	0.000955	4	404.8785	0.009879	965142	0.000971	4	381.8430	0.010475	955787	0.000985	4	364.8153	0.01096
1800-1900	977691	0.000947	1	418.0992	0.002391	967982	0.000965	1	390.7902	0.002558	958638	0.00098	1	371.2586	0.00269
1900-2000	981320	0.000941	1	427.3592	0.002339	971628	0.000958	1	401.2374	0.002492	962299	0.000974	1	378.9662	0.00263
2000-2100	984138	0.000938	1	430.9314	0.002320	975268	0.000952	1	409.9363	0.002439	965954	0.000969	1	384.9362	0.00259
2100-2200	985746	0.000935	1	435.9882	0.002293	977691	0.000948	1	415.8987	0.002404	968387	0.000965	1	390.3548	0.00256
2200-2300	986952	0.000933	1	439.2476	0.002276	979708	0.000945	1	420.2280	0.002379	970413	0.000962	1	394.2774	0.00253
2300-0000	988157	0.000932	1	440.1755	0.002271	981320	0.000943	1	422.8465	0.002364	971628	0.00096	1	397.0753	0.00251

	MAY					JUNE					JULY				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	965142	0.001	0	329.5953	0	959452	0.000979	0	372.3155	0	956194	0.000984	0	366.2570	0
0100-0200	966360	0.001	0	328.4893	0	961486	0.000977	0	374.0251	0	958231	0.000982	0	367.9095	0
0200-0300	967982	0.000998	0	330.3144	0	963112	0.000974	0	378.1143	0	959859	0.000979	0	371.8949	0
0300-0400	969198	0.000996	0	332.5298	0	964736	0.000971	0	382.2714	0	961486	0.000977	0	374.0251	0
0400-0500	970413	0.000993	0	336.4581	0	966360	0.000969	0	384.5053	0	963112	0.000974	0	378.1143	0
0500-0600	972033	0.000991	0	338.3595	0	967982	0.000966	0	388.7717	0	964330	0.000972	0	380.7359	0
0600-0700	973246	0.000988	4	342.3880	0.011682	967982	0.000969	4	382.7907	0.010449	964736	0.000973	4	378.3587	0.01057
0700-0800	972842	0.000991	4	337.6102	0.011847	965954	0.000974	4	375.1568	0.010662	963112	0.000978	4	370.4449	0.01079
0800-0900	970818	0.000998	4	327.7491	0.012204	962299	0.00098	4	367.5064	0.010884	959859	0.000984	4	362.5419	0.01103
0900-1000	967171	0.00101	4	311.8484	0.012826	957824	0.000987	4	359.0909	0.011139	955379	0.00099	4	356.1003	0.01123
1000-1100	962705	0.00101	4	315.7186	0.012669	953340	0.000991	4	356.3304	0.011225	950483	0.000994	4	353.8042	0.01130
1100-1200	958231	0.00102	4	304.2969	0.013145	949257	0.000994	4	355.0232	0.011266	945577	0.000996	4	355.1302	0.01126
1200-1300	954156	0.00103	4	293.1195	0.013646	945577	0.000995	4	356.9184	0.011207	941482	0.000995	4	361.0706	0.01107
1300-1400	950891	0.00103	4	295.8094	0.013522	942301	0.000995	4	360.2349	0.011103	937791	0.000993	4	368.5595	0.01085
1400-1500	948440	0.00103	4	297.8510	0.013429	940252	0.000995	4	362.3307	0.011039	934917	0.000991	4	375.3514	0.01065
1500-1600	946804	0.00103	4	299.2246	0.013367	939022	0.000994	4	365.4296	0.010946	933273	0.00099	4	379.0246	0.01055
1600-1700	946395	0.00103	4	299.5693	0.013352	938611	0.000994	4	365.8562	0.010933	932862	0.000989	4	381.3921	0.01048
1700-1800	947213	0.00103	4	298.8804	0.013383	939022	0.000994	4	365.4296	0.010946	933273	0.00099	4	379.0246	0.01055
1800-1900	949257	0.00103	1	297.1684	0.003365	940662	0.000994	1	363.7342	0.002749	935328	0.000992	1	373.0262	0.00268
1900-2000	952116	0.00102	1	309.5332	0.003230	943121	0.000994	1	361.2122	0.002768	938201	0.000993	1	368.1305	0.00271
2000-2100	955787	0.00102	1	306.3750	0.003263	946804	0.000992	1	361.0980	0.002769	941892	0.000994	1	362.4697	0.00275
2100-2200	959045	0.00101	1	318.9398	0.003135	950891	0.000988	1	364.2616	0.002745	946395	0.000992	1	361.5140	0.00276
2200-2300	961486	0.00101	1	316.7865	0.003156	954564	0.000985	1	366.0622	0.002731	950483	0.000989	1	362.8385	0.00275
2300-0000	963518	0.00101	1	315.0092	0.003174	957416	0.000982	1	368.7447	0.002711	953748	0.000986	1	365.0407	0.00273

TABLE 8 CONTINUED

	AUGUST					SEPTEMBER					OCTOBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	958638	0.000981	0	369.3702	0	957824	0.000982	0	368.3263	0	971628	0.00096	0	397.0753	0
0100-0200	960266	0.000979	0	371.4750	0	959045	0.000981	0	368.9526	0	972842	0.000958	0	399.9045	0
0200-0300	961486	0.000977	0	374.0251	0	960672	0.000978	0	372.9577	0	973651	0.000956	0	403.2109	0
0300-0400	963112	0.000974	0	378.1143	0	961892	0.000976	0	375.5224	0	974863	0.000955	0	403.9848	0
0400-0500	964736	0.000972	0	380.3090	0	963112	0.000975	0	376.1792	0	976076	0.000953	0	406.8911	0
0500-0600	965954	0.00097	0	382.9561	0	964330	0.000972	0	380.7359	0	976883	0.000951	0	410.2830	0
0600-0700	967577	0.000967	4	387.1972	0.010330	965954	0.00097	4	382.9561	0.010445	977691	0.000949	4	413.7121	0.009668
0700-0800	967171	0.00097	4	381.6732	0.010480	967577	0.000967	4	387.1972	0.010330	978901	0.000948	4	414.5301	0.009647
0800-0900	964330	0.000977	4	371.0926	0.010778	966765	0.000972	4	378.1856	0.010576	977691	0.000952	4	407.2344	0.009823
0900-1000	959859	0.000985	4	360.7053	0.011089	963112	0.000979	4	368.5568	0.010853	974459	0.00096	4	394.0084	0.010153
1000-1100	954564	0.000991	4	355.1140	0.011263	958231	0.000987	4	358.6845	0.011151	969603	0.000969	4	381.0876	0.010496
1100-1200	949666	0.000994	4	354.6159	0.011279	952524	0.000993	4	353.5623	0.011313	964330	0.000979	4	367.3175	0.010889
1200-1300	944758	0.000996	4	355.9512	0.011237	947213	0.000996	4	353.4979	0.011315	959045	0.000986	4	359.6923	0.011126
1300-1400	940662	0.000995	4	361.9100	0.011052	942301	0.000996	4	358.4301	0.011159	954564	0.00099	4	356.9112	0.011203
1400-1500	937791	0.000993	4	368.5595	0.010853	939022	0.000994	4	365.4296	0.010946	951299	0.000992	4	356.5688	0.011211
1500-1600	936149	0.000992	4	372.1550	0.010748	936970	0.000993	4	369.4208	0.010827	950074	0.000992	4	357.7953	0.011177
1600-1700	935738	0.000992	4	372.5908	0.010735	936560	0.000993	4	369.8520	0.010815	950074	0.000991	4	359.6042	0.011123
1700-1800	936560	0.000993	4	369.8520	0.010815	938201	0.000993	4	368.1305	0.010865	951708	0.000988	4	363.4289	0.011006
1800-1900	939022	0.000994	1	365.4296	0.002736	941072	0.000994	1	363.3120	0.002752	954971	0.000984	1	367.5084	0.002721
1900-2000	942711	0.000994	1	361.6311	0.002765	945577	0.000992	1	362.3481	0.002759	959452	0.000977	1	376.1419	0.002658
2000-2100	947213	0.000991	1	362.5061	0.002758	949257	0.00099	1	362.2536	0.002760	963518	0.000972	1	381.5916	0.002620
2100-2200	951299	0.000989	1	362.0097	0.002762	952524	0.000988	1	362.5997	0.002757	966360	0.000968	1	386.4955	0.002586
2200-2300	954156	0.000986	1	364.6249	0.002742	954564	0.000986	1	364.2097	0.002745	968387	0.000965	1	390.3548	0.002561
2300-0000	956602	0.000983	1	367.7055	0.002719	956602	0.000984	1	365.8408	0.002733	970008	0.000963	1	392.6711	0.002546

	DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	988960	0.000931	0	441.5876	0
0100-0200	989361	0.00093	0	443.4874	0
0200-0300	990163	0.000928	0	447.3200	0
0300-0400	990965	0.000927	0	448.7686	0
0400-0500	991366	0.000926	0	450.7108	0
0500-0600	992167	0.000925	0	452.1780	0
0600-0700	992969	0.000924	4	453.6523	0.008817
0700-0800	993769	0.000923	4	455.1372	0.008788
0800-0900	994570	0.000922	4	456.6293	0.008759
0900-1000	994570	0.000922	4	456.6293	0.008759
1000-1100	992167	0.000927	4	447.3212	0.008942
1100-1200	987354	0.000937	4	429.4854	0.009313
1200-1300	981723	0.000948	4	411.3621	0.009723
1300-1400	976479	0.000957	4	398.0203	0.010049
1400-1500	972842	0.000962	4	391.6593	0.010212
1500-1600	971628	0.000961	4	395.0136	0.010126
1600-1700	972842	0.000957	4	401.9982	0.009950
1700-1800	976479	0.000949	4	415.0820	0.009636
1800-1900	980514	0.000943	1	423.7734	0.002359
1900-2000	983333	0.000939	1	429.5774	0.002327
2000-2100	984942	0.000936	1	434.6082	0.002300
2100-2200	986550	0.000934	1	437.3758	0.002286
2200-2300	987354	0.000933	1	438.7712	0.002279
2300-0000	988157	0.000932	1	440.1755	0.002271

TABLE 9. MINOT 10 INCH THICK ASPHALT

	MARCH					APRIL					MAY				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	978498	0.00117	0	144.9255	0	943530	0.00122	0	129.5368	0	910588	0.00127	0	116.4944	0
0100-0200	977287	0.00117	0	145.4046	0	953952	0.00121	0	131.0845	0	932040	0.00126	0	113.8992	0
0200-0300	980111	0.00116	0	150.6184	0	957009	0.00121	0	129.9716	0	935328	0.00125	0	117.4215	0
0300-0400	983132	0.00116	0	149.3881	0	960266	0.0012	0	134.2569	0	938611	0.00124	0	121.0971	0
0400-0500	986148	0.00116	0	148.1736	0	963112	0.0012	0	133.2023	0	942096	0.00124	0	119.9070	0
0500-0600	988759	0.00115	0	153.6424	0	965954	0.00119	0	137.8075	0	945577	0.00123	0	123.6399	0
0600-0700	991366	0.00115	4	152.5681	0.026217	968995	0.00119	4	136.6579	0.029270	948848	0.00122	4	127.6110	0.03134
0700-0800	993969	0.00114	4	158.2682	0.025273	971830	0.00118	4	141.4420	0.028280	952320	0.00122	4	126.3749	0.03165
0800-0900	996369	0.00114	4	157.2542	0.025436	974863	0.00118	4	140.2722	0.028515	955379	0.00122	4	125.2994	0.03192
0900-1000	998167	0.00114	4	156.5005	0.025559	976681	0.00118	4	139.5775	0.028657	957009	0.00122	4	124.7315	0.03206
1000-1100	998966	0.00114	4	156.1671	0.025613	977287	0.00119	4	133.5896	0.029942	957213	0.00123	4	119.6749	0.03342
1100-1200	997967	0.00115	4	149.8934	0.026685	975874	0.0012	4	128.6103	0.031101	955583	0.00124	4	115.4497	0.03464
1200-1300	995370	0.00116	4	144.5432	0.027673	973044	0.00121	4	124.3416	0.032169	952524	0.00125	4	111.8567	0.03576
1300-1400	991366	0.00117	4	139.9663	0.028578	968387	0.00122	4	120.8640	0.033095	948031	0.00126	4	108.8508	0.03674
1400-1500	985947	0.00119	4	130.4854	0.030654	963112	0.00123	4	117.7314	0.033975	942711	0.00127	4	106.2133	0.03766
1500-1600	980312	0.0012	4	127.0645	0.031480	957416	0.00124	4	114.8616	0.034824	937175	0.00128	4	103.7443	0.03855
1600-1700	974863	0.0012	4	128.9661	0.031015	951708	0.00125	4	112.1125	0.035678	931629	0.00128	4	105.3984	0.03795
1700-1800	970008	0.00121	4	125.3815	0.031902	946804	0.00125	4	113.6667	0.035190	926690	0.00129	4	102.8223	0.03890
1800-1900	966563	0.00121	1	126.5760	0.007900	942916	0.00125	1	114.9200	0.008701	922981	0.00129	1	103.9272	0.00962
1900-2000	964330	0.0012	1	132.7544	0.007532	940662	0.00125	1	115.6554	0.008646	920093	0.00129	1	104.7988	0.00954
2000-2100	964127	0.0012	1	132.8289	0.007528	940662	0.00124	1	120.3947	0.008306	919268	0.00128	1	109.2178	0.00915
2100-2200	965548	0.00119	1	137.9619	0.007248	941892	0.00124	1	119.9762	0.008334	919887	0.00128	1	109.0220	0.00917
2200-2300	967982	0.00119	1	137.0394	0.007297	944144	0.00123	1	124.1406	0.008055	921744	0.00127	1	112.7746	0.00886
2300-0000	971021	0.00118	1	141.7562	0.007054	947213	0.00123	1	123.0716	0.008125	924424	0.00127	1	111.9054	0.00893

	JUNE					JULY					AUGUST				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	881935	0.00131	0	108.6354	0	864834	0.00133	0	106.1042	0	878185	0.00131	0	109.8761	0
0100-0200	913070	0.00129	0	106.9608	0	901680	0.0013	0	106.4106	0	910588	0.00129	0	107.7395	0
0200-0300	917616	0.00128	0	109.7426	0	906240	0.00129	0	109.1226	0	914724	0.00128	0	110.6696	0
0300-0400	921744	0.00127	0	112.7746	0	911002	0.00129	0	107.6091	0	918855	0.00128	0	109.3486	0
0400-0500	926072	0.00126	0	115.8658	0	915550	0.00128	0	110.4038	0	922775	0.00127	0	112.4391	0
0500-0600	930395	0.00126	0	114.4367	0	920093	0.00127	0	113.3147	0	926690	0.00126	0	115.6600	0
0600-0700	934506	0.00125	4	117.6969	0.033985	924424	0.00127	4	111.9054	0.035744	930601	0.00126	4	114.3692	0.03497
0700-0800	938406	0.00125	4	116.3978	0.034364	928337	0.00126	4	115.1140	0.034748	934506	0.00125	4	117.6969	0.03398
0800-0900	940867	0.00125	4	115.5882	0.034605	931012	0.00127	4	109.8075	0.036427	937791	0.00125	4	116.6014	0.03430
0900-1000	941687	0.00126	4	110.8161	0.036095	932451	0.00127	4	109.3565	0.036577	939842	0.00125	4	115.9245	0.03450
1000-1100	940662	0.00127	4	106.8310	0.037442	931629	0.00128	4	105.3984	0.037951	939842	0.00126	4	111.3967	0.03590
1100-1200	937996	0.00127	4	107.6421	0.037160	929161	0.00129	4	102.0952	0.039179	937791	0.00128	4	103.5628	0.03862
1200-1300	933684	0.00128	4	104.7813	0.038174	924836	0.0013	4	99.45745	0.040218	933890	0.00129	4	100.7233	0.03971
1300-1400	928543	0.00129	4	102.2764	0.039109	919768	0.0013	4	101.0709	0.039576	928337	0.0013	4	98.46100	0.04062
1400-1500	922775	0.0013	4	100.0505	0.039979	913070	0.00131	4	99.04140	0.040387	922156	0.0013	4	100.2296	0.03990
1500-1600	916790	0.0013	4	101.8006	0.039292	906654	0.00131	4	100.9202	0.039635	915344	0.0013	4	102.2298	0.03913
1600-1700	911415	0.0013	4	103.4085	0.038681	900228	0.00131	4	102.8515	0.038891	908932	0.00131	4	100.2475	0.03990
1700-1800	906447	0.0013	4	104.9258	0.038122	894831	0.00131	4	104.5129	0.038272	903132	0.00131	4	101.9725	0.03923
1800-1900	902510	0.0013	1	106.1500	0.009420	890051	0.0013	1	110.1562	0.009078	898361	0.0013	1	107.4615	0.00930
1900-2000	899606	0.0013	1	107.0656	0.009340	886931	0.0013	1	111.1919	0.008993	895246	0.0013	1	108.4609	0.00921
2000-2100	898361	0.0013	1	107.4615	0.009305	885266	0.00131	1	107.5495	0.009298	894208	0.00131	1	104.7071	0.00955
2100-2200	898568	0.0013	1	107.3956	0.009311	885475	0.00131	1	107.4818	0.009303	895039	0.0013	1	108.5276	0.00921
2200-2300	900436	0.0013	1	106.8028	0.009363	887555	0.00131	1	106.8119	0.009362	897323	0.0013	1	107.7931	0.00927
2300-0000	903546	0.0013	1	105.8260	0.009449	891091	0.00131	1	105.6860	0.009461	901058	0.0013	1	106.6065	0.00938

TABLE 9 CONTINUED

	SEPTEMBER					OCTOBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	882768	0.00164	0	35.23840	0	934095	0.00123	0	127.7317	0
0100-0200	913690	0.00161	0	35.25804	0	947826	0.00123	0	122.8596	0
0200-0300	916996	0.00161	0	34.92030	0	951299	0.00122	0	126.7367	0
0300-0400	920300	0.0016	0	35.68163	0	954564	0.00121	0	130.8607	0
0400-0500	923600	0.00159	0	36.46836	0	957824	0.00121	0	129.6771	0
0500-0600	926896	0.00158	0	37.28151	0	961079	0.0012	0	133.9545	0
0600-0700	930189	0.00158	4	36.93081	0.108310	963924	0.0012	4	132.9034	0.030097
0700-0800	933479	0.00157	4	37.76502	0.105918	966968	0.00119	4	137.4227	0.029107
0800-0900	936970	0.00156	4	38.60509	0.103613	969806	0.00118	4	142.2300	0.028123
0900-1000	939842	0.00156	4	38.29150	0.104461	972033	0.00119	4	135.5226	0.029515
1000-1100	941277	0.00157	4	36.93697	0.108292	972842	0.00119	4	135.2225	0.029580
1100-1200	940662	0.00159	4	34.73205	0.115167	971830	0.0012	4	130.0415	0.030759
1200-1300	937791	0.00161	4	32.89459	0.121600	968793	0.00122	4	120.7290	0.033132
1300-1400	932862	0.00162	4	32.34284	0.123674	963924	0.00124	4	112.8065	0.035458
1400-1500	926690	0.00163	4	31.92259	0.125303	957620	0.00125	4	110.2774	0.036272
1500-1600	919681	0.00164	4	31.59396	0.126606	951095	0.00126	4	107.9188	0.037064
1600-1700	913070	0.00164	4	32.20727	0.124195	944554	0.00127	4	105.6619	0.037856
1700-1800	906861	0.00164	4	32.79830	0.121957	938817	0.00127	4	107.3914	0.037246
1800-1900	902302	0.00164	1	33.24179	0.030082	934712	0.00127	1	108.6529	0.009203
1900-2000	899191	0.00164	1	33.54918	0.029806	932451	0.00126	1	113.7654	0.008790
2000-2100	898568	0.00163	1	34.65495	0.028855	932246	0.00126	1	113.8321	0.008784
2100-2200	900021	0.00163	1	34.50605	0.028980	933890	0.00125	1	117.9039	0.008481
2200-2300	902302	0.00163	1	34.27407	0.029176	936765	0.00125	1	116.9420	0.008551
2300-0000	905411	0.00162	1	35.02253	0.028553	940047	0.00124	1	120.6047	0.008291

TABLE 10. WILLIAMS 3 INCH THICK ASPHALT

	JANUARY					FEBRUARY					MARCH				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	727716	0.00192	0	26.80908	0	725227	0.00192	0	27.05498	0	722739	0.00193	0	26.60384	0
0100-0200	728961	0.00191	0	27.39320	0	726471	0.00192	0	26.93169	0	723983	0.00192	0	27.17905	0
0200-0300	729791	0.00191	0	27.31025	0	727716	0.00192	0	26.80908	0	725642	0.00192	0	27.01377	0
0300-0400	731037	0.00191	0	27.18638	0	728961	0.00191	0	27.39320	0	727301	0.00192	0	26.84986	0
0400-0500	732283	0.00191	0	27.06327	0	730207	0.00191	0	27.26881	0	728546	0.00191	0	27.43480	0
0500-0600	733530	0.0019	0	27.65731	0	731452	0.00191	0	27.14529	0	730207	0.00191	0	27.26881	0
0600-0700	734776	0.0019	4	27.53249	0.145282	732699	0.0019	4	27.74098	0.144190	731452	0.00191	4	27.14529	0.14735
0700-0800	736023	0.0019	4	27.40836	0.145940	733945	0.0019	4	27.61565	0.144845	730622	0.00191	4	27.22755	0.14691
0800-0900	735192	0.0019	4	27.49100	0.145502	733530	0.0019	4	27.65731	0.144627	723568	0.00193	4	26.52269	0.15081
0900-1000	726471	0.00192	4	26.93169	0.148523	725227	0.00192	4	27.05498	0.147847	713631	0.00194	4	26.81640	0.14916
1000-1100	713631	0.00194	4	26.81640	0.149162	712804	0.00195	4	26.21670	0.152574	702894	0.00195	4	27.21335	0.14698
1100-1200	701245	0.00195	4	27.38423	0.146069	700421	0.00195	4	27.47017	0.145612	693425	0.00195	4	28.21499	0.14176
1200-1300	690959	0.00195	4	28.48414	0.140428	690137	0.00195	4	28.57465	0.139984	685213	0.00195	4	29.12516	0.13733
1300-1400	684803	0.00195	4	29.17165	0.137119	683574	0.00195	4	29.31163	0.136464	681116	0.00194	4	30.36503	0.13173
1400-1500	682754	0.00195	4	29.40555	0.136028	681116	0.00194	4	30.36503	0.131730	679069	0.00194	4	30.60958	0.13067
1500-1600	684803	0.00195	4	29.17165	0.137119	683164	0.00195	4	29.35854	0.136246	680297	0.00194	4	30.46255	0.13130
1600-1700	690959	0.00196	4	27.76488	0.144066	688906	0.00196	4	27.98594	0.142928	684393	0.00195	4	29.21825	0.13690
1700-1800	700421	0.00196	4	26.77651	0.149384	698362	0.00196	4	26.98742	0.148217	690548	0.00196	4	27.80894	0.14383
1800-1900	712390	0.00194	1	26.94107	0.037118	710324	0.00195	1	26.46135	0.037790	698774	0.00196	1	26.94504	0.03711
1900-2000	719010	0.00193	1	26.97313	0.037073	716527	0.00194	1	26.52853	0.037695	708671	0.00195	1	26.62615	0.03755
2000-2100	722325	0.00193	1	26.64449	0.037531	719839	0.00193	1	26.89043	0.037187	714871	0.00194	1	26.69261	0.03746
2100-2200	723983	0.00192	1	27.17905	0.036793	721910	0.00193	1	26.68533	0.037473	717768	0.00193	1	27.09770	0.03690
2200-2300	725642	0.00192	1	27.01377	0.037018	722739	0.00193	1	26.60384	0.037588	719839	0.00193	1	26.89043	0.03718
2300-0000	726471	0.00192	1	26.93169	0.037130	723568	0.00192	1	27.22061	0.036736	721496	0.00193	1	26.72616	0.03741

	APRIL					MAY					JULY				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	719010	0.00193	0	26.97313	0	713217	0.00194	0	26.85790	0	700421	0.00196	0	26.77651	0
0100-0200	720667	0.00193	0	26.80817	0	714871	0.00194	0	26.69261	0	702070	0.00195	0	27.29856	0
0200-0300	722325	0.00193	0	26.64449	0	716527	0.00194	0	26.52853	0	703307	0.00195	0	27.17079	0
0300-0400	723983	0.00196	0	24.51659	0	718182	0.00193	0	27.05609	0	704956	0.00195	0	27.00174	0
0400-0500	724812	0.00192	0	27.09629	0	719839	0.00193	0	26.89043	0	706607	0.00195	0	26.83393	0
0500-0600	726471	0.00192	0	26.93169	0	721910	0.00193	0	26.68533	0	709084	0.00195	0	26.58485	0
0600-0700	728131	0.00191	4	27.47649	0.145578	723568	0.00192	4	27.22061	0.146947	710737	0.00195	4	26.42039	0.15139
0700-0800	722739	0.00193	4	26.60384	0.150354	718182	0.00194	4	26.36592	0.151710	706194	0.00195	4	26.87577	0.14883
0800-0900	712390	0.00195	4	26.25733	0.152338	708258	0.00195	4	26.66755	0.149994	697950	0.00196	4	27.02990	0.14798
0900-1000	700833	0.00195	4	27.42715	0.145840	697127	0.00196	4	27.11502	0.147519	688495	0.00195	4	28.75662	0.13909
1000-1100	689727	0.00195	4	28.61994	0.139762	685623	0.00195	4	29.07876	0.137557	679888	0.00194	4	30.51141	0.13109
1100-1200	680297	0.00194	4	30.46255	0.131308	676616	0.00193	4	31.71523	0.126122	672939	0.00192	4	33.02594	0.12111
1200-1300	673347	0.00193	4	32.12723	0.124504	669268	0.00191	4	34.39739	0.116287	666823	0.00191	4	34.73454	0.11515
1300-1400	668453	0.00191	4	34.50927	0.115910	664381	0.0019	4	36.00864	0.111084	662754	0.00189	4	37.21376	0.10748
1400-1500	666009	0.00191	4	34.84779	0.114784	662347	0.00189	4	37.27473	0.107311	660721	0.00189	4	37.51969	0.10661
1500-1600	666823	0.00191	4	34.73454	0.115159	662754	0.0019	4	36.24470	0.110360	661128	0.00189	4	37.45817	0.10678
1600-1700	670491	0.00192	4	33.34826	0.119946	665601	0.00191	4	34.90475	0.114597	663567	0.0019	4	36.12648	0.11072
1700-1800	676616	0.00194	4	30.90621	0.129423	670899	0.00193	4	32.44059	0.123302	667638	0.00192	4	33.72939	0.11859
1800-1900	684393	0.00195	1	29.21825	0.034225	678660	0.00195	1	29.88066	0.033466	673347	0.00193	1	32.12723	0.03112
1900-2000	694658	0.00196	1	27.37262	0.036532	688495	0.00196	1	28.03048	0.035675	681116	0.00195	1	29.59438	0.03379
2000-2100	705369	0.00195	1	26.95963	0.037092	699185	0.00196	1	26.90285	0.037170	689727	0.00196	1	27.89725	0.03584
2100-2200	711977	0.00194	1	26.98274	0.037060	705369	0.00195	1	26.95963	0.037092	694658	0.00196	1	27.37262	0.03653
2200-2300	715285	0.00194	1	26.65146	0.037521	709084	0.00195	1	26.58485	0.037615	696715	0.00196	1	27.15777	0.03682
2300-0000	717354	0.00194	1	26.44710	0.037811	711563	0.00194	1	27.02460	0.037003	698362	0.00196	1	26.98742	0.03705

TABLE 10. CONTINUED

	AUGUST					SEPTEMBER					OCTOBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	704544	0.00195	0	27.04384	0	707020	0.00195	0	26.79218	0	714044	0.00194	0	26.77508	0
0100-0200	705782	0.00195	0	26.91760	0	708258	0.00195	0	26.66755	0	715285	0.00194	0	26.65146	0
0200-0300	707020	0.00195	0	26.79218	0	710324	0.00195	0	26.46135	0	716527	0.00194	0	26.52853	0
0300-0400	709084	0.00195	0	26.58485	0	711977	0.00194	0	26.98274	0	717768	0.00194	0	26.40647	0
0400-0500	710324	0.00195	0	26.46135	0	713631	0.00194	0	26.81640	0	719839	0.00193	0	26.89043	0
0500-0600	712390	0.00194	0	26.94107	0	715285	0.00194	0	26.65146	0	721082	0.00193	0	26.76707	0
0600-0700	714044	0.00194	4	26.77508	0.149392	716527	0.00194	4	26.52853	0.150781	723154	0.00193	4	26.56317	0.15058
0700-0800	664787	0.00186	4	39.98554	0.100036	716113	0.00194	4	26.56942	0.150549	724398	0.00192	4	27.13758	0.14739
0800-0900	673347	0.00194	4	31.30770	0.127764	707846	0.00195	4	26.70894	0.149762	717354	0.00194	4	26.44710	0.15124
0900-1000	677842	0.00194	4	30.75746	0.130049	696304	0.00195	4	27.90515	0.143342	705369	0.00195	4	26.95963	0.14836
1000-1100	674573	0.00193	4	31.97186	0.125110	683983	0.00194	4	30.02701	0.133213	693013	0.00195	4	28.25971	0.14154
1100-1200	669268	0.00191	4	34.39739	0.116287	672531	0.00192	4	33.07936	0.120921	681116	0.00194	4	30.36503	0.13173
1200-1300	663567	0.00189	4	37.09237	0.107838	664381	0.0019	4	36.00864	0.111084	671715	0.00192	4	33.18656	0.12053
1300-1400	659503	0.00188	4	38.71815	0.103310	659097	0.00188	4	38.78174	0.103141	665601	0.0019	4	35.83301	0.11162
1400-1500	658285	0.00188	4	38.90936	0.102803	656662	0.00187	4	40.22466	0.099441	663160	0.0019	4	36.18560	0.11054
1500-1600	658691	0.00188	4	38.84548	0.102972	657879	0.00188	4	38.97339	0.102634	664787	0.0019	4	35.95006	0.11126
1600-1700	661940	0.0019	4	36.36360	0.110000	662754	0.0019	4	36.24470	0.110360	669268	0.00192	4	33.51091	0.11936
1700-1800	666823	0.00192	4	33.83937	0.118205	670083	0.00193	4	32.54597	0.122903	677433	0.00194	4	30.80698	0.12984
1800-1900	674573	0.001	1	31.15629	0.032096	679479	0.00195	1	29.78478	0.033574	687674	0.00196	1	28.11976	0.03556
1900-2000	683164	0.00	1	29.35854	0.034061	691370	0.00196	1	27.72092	0.036073	699185	0.00196	1	26.90285	0.03717
2000-2100	692602	0.00	1	27.58970	0.036245	698362	0.00196	1	26.98742	0.037054	705782	0.00195	1	26.91760	0.03715
2100-2200	697950	0.00	1	27.02990	0.036996	701658	0.00195	1	27.34129	0.036574	709084	0.00195	1	26.58485	0.03761
2200-2300	701245	0.00196	1	26.69274	0.037463	704131	0.00195	1	27.08613	0.036919	710737	0.00195	1	26.42039	0.03784
2300-0000	702894	0.00195	1	27.21335	0.036746	705782	0.00195	1	26.91760	0.037150	711977	0.00194	1	26.98274	0.03706

	NOVEMBER					DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	723568	0.00192	0	27.22061	0	726886	0.00192	0	26.89074	0
0100-0200	724398	0.00192	0	27.13758	0	727716	0.00192	0	26.80908	0
0200-0300	726057	0.00192	0	26.97264	0	728961	0.00191	0	27.39320	0
0300-0400	727301	0.00192	0	26.84986	0	729791	0.00191	0	27.31025	0
0400-0500	728546	0.00191	0	27.43480	0	731037	0.00191	0	27.18638	0
0500-0600	729791	0.00191	0	27.31025	0	732283	0.00191	0	27.06327	0
0600-0700	731037	0.00191	4	27.18638	0.147132	733114	0.0019	4	27.69915	0.144408
0700-0800	732283	0.00191	4	27.06327	0.147801	734361	0.0019	4	27.57398	0.145064
0800-0900	731452	0.00191	4	27.14529	0.147355	735608	0.0019	4	27.44958	0.145721
0900-1000	721910	0.00193	4	26.68533	0.149895	727301	0.00192	4	26.84986	0.148976
1000-1100	707433	0.00195	4	26.75051	0.149529	713631	0.00194	4	26.81640	0.149162
1100-1200	693013	0.00195	4	28.25971	0.141544	700421	0.00195	4	27.47017	0.145612
1200-1300	681116	0.00194	4	30.36503	0.131730	688906	0.00195	4	28.71092	0.139319
1300-1400	673756	0.00193	4	32.07528	0.124706	681525	0.00194	4	30.31649	0.131941
1400-1500	670899	0.00192	4	33.29424	0.120140	678660	0.00194	4	30.65876	0.130468
1500-1600	673347	0.00193	4	32.12723	0.124504	681116	0.00195	4	29.59438	0.135160
1600-1700	681116	0.00195	4	29.59438	0.135160	687674	0.00196	4	28.11976	0.142248
1700-1800	692191	0.00196	4	27.63338	0.144752	697950	0.00196	4	27.02990	0.147984
1800-1900	706194	0.00195	1	26.87577	0.037208	711150	0.00194	1	27.06645	0.036946
1900-2000	714044	0.00194	1	26.77508	0.037348	718596	0.00193	1	27.01457	0.037017
2000-2100	717354	0.00194	1	26.44710	0.037811	721910	0.00193	1	26.68533	0.037473
2100-2200	719839	0.00193	1	26.89043	0.037187	723983	0.00192	1	27.17905	0.036793
2200-2300	721082	0.00193	1	26.76707	0.037359	724812	0.00192	1	27.09	0.036905
2300-0000	722325	0.00193	1	26.64449	0.037531	726471	0.00192	1	26.	0.037130

TABLE 11. WILLIAMS 5 INCH THICK ASPHALT

	JANUARY					FEBRUARY					MARCH				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	725227	0.00107	0	503.3088	0	723154	0.00108	0	484.1141	0	720667	0.00108	0	488.5792	0
0100-0200	726471	0.00107	0	501.0153	0	724398	0.00107	0	504.8453	0	721910	0.00108	0	486.3405	0
0200-0300	727301	0.00107	0	499.4930	0	725642	0.00107	0	502.5421	0	723568	0.00107	0	506.3901	0
0300-0400	728546	0.00107	0	497.2214	0	726471	0.00107	0	501.0153	0	724812	0.00107	0	504.0772	0
0400-0500	729376	0.00106	0	519.5431	0	727716	0.00107	0	498.7342	0	726057	0.00107	0	501.7770	0
0500-0600	730622	0.00106	0	517.1852	0	728961	0.00107	0	496.4674	0	727301	0.00107	0	499.4930	0
0600-0700	731452	0.00106	4	515.6227	0.007757	729791	0.00106	4	518.7561	0.007710	728546	0.00107	4	497.2214	0.00804
0700-0800	732699	0.00106	4	513.2873	0.007792	731037	0.00106	4	516.4031	0.007745	728961	0.00107	4	496.4674	0.00805
0800-0900	732699	0.00106	4	513.2873	0.007792	731452	0.00106	4	515.6227	0.007757	726886	0.00107	4	500.2533	0.00799
0900-1000	729791	0.00107	4	494.9641	0.008081	728546	0.00107	4	497.2214	0.008044	722325	0.00108	4	485.5962	0.00823
1000-1100	723983	0.00108	4	482.6382	0.008287	723154	0.00108	4	484.1141	0.008262	716113	0.00109	4	474.5240	0.00842
1100-1200	716527	0.00109	4	473.7937	0.008442	715699	0.00109	4	475.2559	0.008416	709084	0.00109	4	487.1635	0.00821
1200-1300	708671	0.00108	4	510.9316	0.007828	707846	0.00108	4	512.5201	0.007804	702894	0.00108	4	522.1994	0.00765
1300-1400	702482	0.00108	4	523.0160	0.007647	701658	0.00108	4	524.6545	0.007624	697538	0.00107	4	558.3279	0.00716
1400-1500	697950	0.00107	4	557.4500	0.007175	696715	0.00107	4	560.0872	0.007141	694247	0.00106	4	592.5874	0.00675
1500-1600	696304	0.00107	4	560.9687	0.007130	695070	0.00107	4	563.6268	0.007096	692602	0.00106	4	596.3457	0.00670
1600-1700	697127	0.00108	4	533.7914	0.007493	695892	0.00107	4	561.8543	0.007119	693013	0.00107	4	568.0962	0.00704
1700-1800	700833	0.00109	4	502.5987	0.007958	699185	0.00108	4	529.6145	0.007552	695070	0.00108	4	538.0117	0.00743
1800-1900	707020	0.00109	1	490.9628	0.002036	705369	0.00109	1	494.0313	0.002024	699185	0.00108	1	529.6145	0.00188
1900-2000	712390	0.00109	1	481.1618	0.002078	710737	0.00109	1	484.1498	0.002065	704544	0.00109	1	495.5745	0.00201
2000-2100	716527	0.00108	1	496.1386	0.002015	714871	0.00109	1	476.7243	0.002097	709911	0.00109	1	485.6525	0.00205
2100-2200	719839	0.00108	1	490.0784	0.002040	717768	0.00108	1	493.8558	0.002024	713631	0.00109	1	478.9351	0.00208
2200-2300	721910	0.00108	1	486.3405	0.002056	719839	0.00108	1	490.0784	0.002040	716527	0.00108	1	496.1386	0.00201
2300-0000	723568	0.00107	1	506.3901	0.001974	721496	0.00108	1	487.0846	0.002053	719010	0.00108	1	491.5857	0.00203

	APRIL					MAY					JUNE				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	715699	0.00109	0	475.2559	0	711150	0.00109	0	483.4009	0	707020	0.00109	0	490.9628	0
0100-0200	717768	0.00108	0	493.8558	0	713217	0.00109	0	479.6763	0	709497	0.00109	0	486.4081	0
0200-0300	719839	0.00108	0	490.0784	0	714871	0.00109	0	476.7243	0	711563	0.00109	0	482.6535	0
0300-0400	721496	0.00108	0	487.0846	0	716940	0.00108	0	495.3773	0	713217	0.00109	0	479.6763	0
0400-0500	722739	0.00108	0	484.8553	0	718182	0.00108	0	493.0975	0	715285	0.00109	0	475.9893	0
0500-0600	724398	0.00107	0	504.8453	0	719839	0.00108	0	490.0784	0	716940	0.00108	0	495.3773	0
0600-0700	725642	0.00107	4	502.5421	0.007959	721496	0.00108	4	487.0846	0.008212	718182	0.00108	4	493.0975	0.00811
0700-0800	724398	0.00108	4	481.9017	0.008300	720667	0.00108	4	488.5792	0.008187	716113	0.00109	4	474.5240	0.00842
0800-0900	720253	0.00108	4	489.3280	0.008174	716527	0.00109	4	473.7937	0.008442	711977	0.00109	4	481.9059	0.00830
0900-1000	714044	0.00109	4	478.1972	0.008364	710737	0.00109	4	484.1498	0.008261	705369	0.00108	4	517.3306	0.00773
1000-1100	707020	0.00108	4	514.1174	0.007780	703307	0.00108	4	521.3826	0.007671	698362	0.00107	4	556.5740	0.00718
1100-1200	699597	0.00107	4	553.9594	0.007220	696304	0.00106	4	587.9335	0.006803	690959	0.00105	4	629.2595	0.00635
1200-1300	693013	0.00105	4	624.3014	0.006407	689727	0.00104	4	663.2467	0.006030	684803	0.00102	4	744.9605	0.00536
1300-1400	687674	0.00104	4	668.5367	0.005983	684393	0.00102	4	746.1505	0.005360	679479	0.000994	4	865.4371	0.00462
1400-1500	683574	0.00102	4	748.5353	0.005343	680297	0.001	4	837.0954	0.004778	675390	0.000975	4	968.5687	0.00412
1500-1600	681525	0.00102	4	754.5478	0.005301	678251	0.000997	4	856.6142	0.004669	673756	0.000968	4	1010.602	0.00395
1600-1700	681935	0.00102	4	753.3394	0.005309	677842	0.001	4	845.1994	0.004732	673347	0.000972	4	991.5817	0.00403
1700-1800	683574	0.00104	4	679.2763	0.005888	679479	0.00101	4	799.0254	0.005006	674981	0.000988	4	907.9666	0.00440
1800-1900	687264	0.00105	1	638.3160	0.001566	682754	0.00104	1	681.4526	0.001467	678251	0.00101	1	802.8866	0.00124
1900-2000	692602	0.00107	1	568.9951	0.001757	688085	0.00106	1	606.8356	0.001647	683574	0.00104	1	679.2763	0.00147
2000-2100	699597	0.00109	1	504.9685	0.001980	694658	0.00108	1	538.8625	0.001855	690137	0.00107	1	574.4273	0.00174
2100-2200	705369	0.00109	1	494.0313	0.002024	700421	0.00109	1	503.3869	0.001986	695892	0.00108	1	536.3197	0.00186
2200-2300	709911	0.00109	1	485.6525	0.002059	704956	0.00109	1	494.8030	0.002021	700833	0.00109	1	502.5987	0.00198
2300-0000	713217	0.00109	1	479.6763	0.002084	708258	0.00109	1	488.6791	0.002046	704131	0.00109	1	496.3495	0.00201

TABLE 11. CONTINUED

	JULY					AUGUST					SEPTEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	702482	0.00109	0	499.4606	0	704956	0.00109	0	494.8030	0	707846	0.00109	0	489.4375	0
0100-0200	704131	0.00109	0	496.3495	0	707020	0.00109	0	490.9628	0	709497	0.00109	0	486.4081	0
0200-0300	705782	0.00109	0	493.2612	0	708258	0.00109	0	488.6791	0	711150	0.00109	0	483.4009	0
0300-0400	707020	0.00109	0	490.9628	0	709911	0.00109	0	485.6525	0	712390	0.00109	0	481.1618	0
0400-0500	708258	0.00109	0	488.6791	0	711150	0.00109	0	483.4009	0	714044	0.00109	0	478.1972	0
0500-0600	709911	0.00109	0	485.6525	0	712804	0.00109	0	480.4174	0	715285	0.00109	0	475.9893	0
0600-0700	711563	0.00109	4	482.6535	0.008287	714044	0.00109	4	478.1972	0.008364	716527	0.00108	4	496.1386	0.00806
0700-0800	710737	0.00109	4	484.1498	0.008261	697950	0.00105	4	612.6018	0.006529	717354	0.00108	4	494.6158	0.00808
0800-0900	707433	0.00109	4	490.1993	0.008159	692191	0.00105	4	626.2791	0.006386	714871	0.00109	4	476.7243	0.00839
0900-1000	702482	0.00108	4	523.0160	0.007647	690137	0.00105	4	631.2588	0.006336	709497	0.00109	4	486.4081	0.00822
1000-1100	697127	0.00107	4	559.2055	0.007153	688085	0.00104	4	667.4730	0.005992	702070	0.00108	4	523.8344	0.00763
1100-1200	691370	0.00105	4	628.2631	0.006366	684803	0.00103	4	709.4928	0.005637	694247	0.00106	4	592.5874	0.00675
1200-1300	686443	0.00103	4	704.9844	0.005673	681116	0.00101	4	793.9178	0.005038	687264	0.00103	4	702.7423	0.00569
1300-1400	681935	0.00101	4	791.3793	0.005054	677842	0.000989	4	893.2597	0.004477	681116	0.001	4	834.4156	0.00479
1400-1500	679069	0.000997	4	853.8670	0.004684	675390	0.000978	4	953.8042	0.004193	677025	0.000984	4	919.1355	0.00435
1500-1600	677433	0.000992	4	881.2506	0.004539	674164	0.000974	4	978.2764	0.004088	675390	0.000979	4	948.9428	0.00421
1600-1700	677025	0.000994	4	873.8223	0.004577	674573	0.00098	4	947.1615	0.004223	675798	0.000989	4	900.4780	0.00444
1700-1800	678251	0.00101	4	802.8866	0.004982	676207	0.000996	4	867.8758	0.004608	678660	0.00101	4	801.5977	0.00499
1800-1900	680706	0.00102	1	756.9696	0.001321	679888	0.00102	1	759.3992	0.001316	683164	0.00104	1	680.3632	0.00146
1900-2000	684803	0.00105	1	644.4476	0.001551	684803	0.00105	1	644.4476	0.001551	689727	0.00107	1	575.3378	0.00173
2000-2100	690137	0.00107	1	574.4273	0.001740	690548	0.00107	1	573.5166	0.001743	695481	0.00108	1	537.1648	0.00186
2100-2200	694658	0.00108	1	538.8625	0.001855	695892	0.00108	1	536.3197	0.001864	700009	0.00109	1	504.1769	0.00198
2200-2300	697950	0.00108	1	532.1156	0.001879	700009	0.00108	1	527.9547	0.001894	703307	0.00109	1	497.9008	0.00200
2300-0000	700009	0.00108	1	527.9547	0.001894	702894	0.00109	1	498.6808	0.002005	705782	0.00109	1	493.2612	0.00202

	OCTOBER					NOVEMBER					DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	713217	0.00103	0	479.6763	0	721496	0.00108	0	487.0846	0	724398	0.00107	0	504.8453	0
0100-0200	714871	0.00109	0	476.7243	0	722739	0.00108	0	484.8553	0	725642	0.00107	0	502.5421	0
0200-0300	716527	0.00108	0	496.1386	0	723983	0.00107	0	505.6169	0	726471	0.00107	0	501.0153	0
0300-0400	717768	0.00108	0	493.8558	0	725227	0.00107	0	503.3088	0	727301	0.00107	0	499.4930	0
0400-0500	719010	0.00108	0	491.5857	0	726471	0.00107	0	501.0153	0	728546	0.00107	0	497.2214	0
0500-0600	720253	0.00108	0	489.3280	0	727301	0.00107	0	499.4930	0	729376	0.00106	0	519.5431	0
0600-0700	721496	0.00108	4	487.0846	0.008212	728546	0.00107	4	497.2214	0.008044	730622	0.00106	4	517.1852	0.00773
0700-0800	722739	0.00108	4	484.8553	0.008249	729376	0.00106	4	519.5431	0.007699	731452	0.00106	4	515.6227	0.00775
0800-0900	721082	0.00108	4	487.8302	0.008199	729791	0.00106	4	518.7561	0.007710	732283	0.00106	4	514.0648	0.00778
0900-1000	716113	0.00109	4	474.5240	0.008429	726886	0.00107	4	500.2533	0.007995	730207	0.00107	4	494.2129	0.03809
1000-1100	709084	0.00108	4	510.1389	0.007841	719839	0.00108	4	490.0784	0.008161	723983	0.00108	4	482.6382	0.00828
1100-1200	701245	0.00107	4	550.4967	0.007266	711150	0.00109	4	483.4009	0.008274	716113	0.00109	4	474.5240	0.00842
1200-1300	693425	0.00105	4	623.3133	0.006417	702482	0.00108	4	523.0160	0.007647	707846	0.00108	4	512.5201	0.00780
1300-1400	687264	0.00103	4	702.7423	0.005691	695070	0.00106	4	590.7193	0.006771	700421	0.00107	4	552.2243	0.00724
1400-1500	682754	0.00102	4	750.9335	0.005326	689727	0.00105	4	632.2594	0.006326	695481	0.00106	4	589.7895	0.00678
1500-1600	680706	0.00101	4	795.1928	0.005030	687674	0.00104	4	668.5367	0.005983	693425	0.00106	4	594.4613	0.00672
1600-1700	681116	0.00102	4	755.7559	0.005292	688906	0.00106	4	604.9102	0.006612	694247	0.00107	4	565.4092	0.00707
1700-1800	684393	0.00104	4	677.1121	0.005907	693425	0.00107	4	567.1971	0.007052	698362	0.00108	4	531.2794	0.00752
1800-1900	688906	0.00106	1	604.9102	0.001653	700421	0.00109	1	503.3869	0.001986	704956	0.00109	1	494.8030	0.00202
1900-2000	695481	0.00108	1	537.1648	0.001861	707020	0.00109	1	490.9628	0.002036	710737	0.00109	1	484.1498	0.00206
2000-2100	701658	0.00109	1	501.0253	0.001995	711563	0.00109	1	482.6535	0.002071	715699	0.00109	1	475.2559	0.00210
2100-2200	706194	0.00109	1	492.4947	0.002030	715285	0.00109	1	475.9893	0.002100	719010	0.00108	1	491.5857	0.00203

TABLE 12. WILLIAMS 10 INCH THICK ASPHALT

	JANUARY					FEBRUARY					MARCH				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	688495	0.0014	0	150.7546	0	681525	0.00141	0	149.4830	0	668045	0.00143	0	146.9363	0
0100-0200	700833	0.00139	0	149.0321	0	696098	0.0014	0	146.4063	0	687059	0.00141	0	146.2958	0
0200-0300	704544	0.00138	0	152.3512	0	700009	0.00139	0	149.5000	0	691370	0.00141	0	143.8773	0
0300-0400	708465	0.00137	0	155.6736	0	703719	0.00138	0	152.8277	0	695892	0.0014	0	146.5218	0
0400-0500	711977	0.00136	0	159.3676	0	707433	0.00137	0	156.2796	0	700009	0.00139	0	149.5000	0
0500-0600	715699	0.00135	0	163.0764	0	710737	0.00137	0	154.3510	0	704131	0.00138	0	152.5895	0
0600-0700	719010	0.00135	4	161.0828	0.024831	714251	0.00136	4	158.0190	0.025313	707846	0.00137	4	156.0367	0.025634
0700-0800	722325	0.00134	4	165.1467	0.024220	717561	0.00135	4	161.9511	0.024698	711770	0.00136	4	159.4912	0.025079
0800-0900	725434	0.00133	4	169.4981	0.023599	720667	0.00134	4	166.1612	0.024072	715078	0.00136	4	157.5325	0.025391
0900-1000	728339	0.00133	4	167.7024	0.023851	723568	0.00134	4	164.3917	0.024332	717561	0.00136	4	156.0839	0.025627
1000-1100	729999	0.00133	4	166.6880	0.023996	725642	0.00134	4	163.1426	0.024518	718182	0.00137	4	150.1235	0.026644
1100-1200	729791	0.00135	4	154.8188	0.025836	725434	0.00136	4	151.6102	0.026383	716320	0.00139	4	140.5990	0.028449
1200-1300	726264	0.00137	4	145.7125	0.027451	722325	0.00138	4	142.5603	0.028058	711977	0.0014	4	137.8651	0.029013
1300-1400	720253	0.00139	4	138.5622	0.028867	716527	0.0014	4	135.5444	0.029510	705369	0.00141	4	136.3927	0.029327
1400-1500	712184	0.00141	4	132.9421	0.030088	708671	0.00141	4	134.7057	0.029694	697333	0.00142	4	135.7396	0.029466
1500-1600	703307	0.00141	4	137.4610	0.029099	699803	0.00142	4	134.4665	0.029747	689111	0.00142	4	140.0987	0.028551
1600-1700	694658	0.00142	4	137.1371	0.029167	691164	0.00142	4	138.9924	0.028778	681321	0.00142	4	144.4083	0.027699
1700-1800	687264	0.00142	4	141.1043	0.028347	683983	0.00142	4	142.9154	0.027988	674368	0.00142	4	148.4104	0.026952
1800-1900	682344	0.00142	1	143.8321	0.006952	679069	0.00142	1	145.6881	0.006863	669472	0.00142	1	151.3205	0.006608
1900-2000	680297	0.00142	1	144.9883	0.006897	676820	0.00143	1	141.9140	0.007046	667027	0.00143	1	147.5347	0.006778
2000-2100	681116	0.00142	1	144.5242	0.006919	677433	0.00143	1	141.5720	0.007063	666619	0.00143	1	147.7754	0.006767
2100-2200	683778	0.00142	1	143.0296	0.006991	679888	0.00143	1	140.2138	0.007131	668860	0.00144	1	141.4444	0.007069
2200-2300	687674	0.00141	1	145.9474	0.006851	683574	0.00142	1	143.1434	0.006985	672327	0.00143	1	144.4555	0.006922
2300-0000	691781	0.0014	1	148.8538	0.006717	687674	0.00141	1	145.9474	0.006851	677025	0.00143	1	141.7995	0.007052

	APRIL					MAY					JUNE				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	634462	0.00147	0	146.8652	0	617268	0.00148	0	152.7550	0	600624	0.00147	0	169.9627	0
0100-0200	664381	0.00144	0	143.9999	0	652812	0.00145	0	145.7693	0	641502	0.00144	0	158.0962	0
0200-0300	670287	0.00144	0	140.6433	0	658488	0.00145	0	142.4447	0	647351	0.00144	0	154.3179	0
0300-0400	676003	0.00143	0	142.3715	0	664177	0.00144	0	144.1178	0	653014	0.00145	0	145.6492	0
0400-0500	681525	0.00142	0	144.2932	0	669472	0.00144	0	141.1000	0	658691	0.00144	0	147.3388	0
0500-0600	686854	0.00141	0	146.4122	0	674573	0.00143	0	143.1773	0	664177	0.00144	0	144.1178	0
0600-0700	691781	0.0014	4	148.8538	0.026871	679683	0.00142	4	145.3377	0.027522	669472	0.00144	4	141.1000	0.028348
0700-0800	696304	0.00139	4	151.6294	0.026380	684598	0.00142	4	142.5735	0.028055	674573	0.00143	4	143.1773	0.027937
0800-0900	700421	0.00139	4	149.2658	0.026797	688700	0.00141	4	145.3686	0.027516	678660	0.00143	4	140.8909	0.028390
0900-1000	702482	0.0014	4	142.8872	0.027994	690959	0.00142	4	139.1023	0.028755	680502	0.00143	4	139.8769	0.028596
1000-1100	702276	0.00141	4	137.9995	0.028985	690753	0.00142	4	139.2129	0.028732	679683	0.00143	4	140.3265	0.028504
1100-1200	698980	0.00142	4	134.8889	0.029654	687674	0.00143	4	136.0228	0.029406	676207	0.00143	4	142.2571	0.028118
1200-1300	693013	0.00142	4	138.0063	0.028984	682344	0.00142	4	143.8321	0.027810	670491	0.00141	4	156.1290	0.025619
1300-1400	685418	0.00142	4	142.1194	0.028145	674777	0.00141	4	153.5001	0.026058	662754	0.00139	4	172.9571	0.023127
1400-1500	676411	0.00141	4	152.5139	0.026227	666009	0.0014	4	164.7031	0.024286	653824	0.00136	4	199.9948	0.020000
1500-1600	667027	0.0014	4	164.0341	0.024385	657067	0.00137	4	190.2760	0.021022	644727	0.00133	4	232.0981	0.017234
1600-1700	658082	0.00138	4	182.7279	0.021890	648362	0.00135	4	212.2042	0.018849	636069	0.0013	4	269.6876	0.014831
1700-1800	650383	0.00137	4	195.5320	0.020457	640696	0.00134	4	227.3343	0.017595	628247	0.00128	4	301.1959	0.013280
1800-1900	644324	0.00137	1	200.4706	0.004988	634663	0.00133	1	242.0364	0.004131	622450	0.00128	1	308.7296	0.003239
1900-2000	640897	0.00138	1	196.0787	0.005099	630651	0.00134	1	237.1126	0.004217	618662	0.00129	1	301.8176	0.003313
2000-2100	639689	0.0014	1	183.3873	0.005452	629248	0.00136	1	221.4939	0.004514	617268	0.00131	1	281.1561	0.003556
2100-2200	641300	0.00143	1	163.8393	0.006103	630651	0.0014	1	190.4752	0.005250	618662	0.00135	1	240.4497	0.004158
2200-2300	645333	0.00144	1	155.6073	0.006426	634061	0.00142	1	174.9023	0.005717	622251	0.00139	1	204.6087	0.004887
2300-0000	650586	0.00145	1	147.1023	0.006797	639085	0.00144	1	159.6946	0.006261	627247	0.00141	1	186.4864	0.005362

TABLE 12. CONTINUED

	JULY					AUGUST					SEPTEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	600624	0.00146	0	175.8636	0	600624	0.00146	0	175.8636	0	600624	0.00146	0	175.8636	0
0100-0200	641502	0.00143	0	163.7018	0	641502	0.00143	0	163.7018	0	641502	0.00143	0	163.7018	0
0200-0300	645534	0.00143	0	160.9911	0	645534	0.00143	0	160.9911	0	645534	0.00143	0	160.9911	0
0300-0400	649777	0.00144	0	152.7872	0	649777	0.00144	0	152.7872	0	649777	0.00144	0	152.7872	0
0400-0500	653824	0.00144	0	150.2799	0	653824	0.00144	0	150.2799	0	653824	0.00144	0	150.2799	0
0500-0600	657879	0.00144	0	147.8240	0	657879	0.00144	0	147.8240	0	657879	0.00144	0	147.8240	0
0600-0700	661737	0.00144	4	145.5383	0.027484	661737	0.00144	4	145.5383	0.027484	661737	0.00144	4	145.5383	0.02748
0700-0800	665805	0.00144	4	143.1806	0.027936	665805	0.00144	4	143.1806	0.027936	665805	0.00144	4	143.1806	0.02793
0800-0900	669064	0.00144	4	141.3295	0.028302	669064	0.00144	4	141.3295	0.028302	669064	0.00144	4	141.3295	0.02830
0900-1000	671103	0.00143	4	145.1587	0.027556	671103	0.00143	4	145.1587	0.027556	671103	0.00143	4	145.1587	0.02755
1000-1100	670695	0.00143	4	145.3942	0.027511	670695	0.00143	4	145.3942	0.027511	670695	0.00143	4	145.3942	0.02751
1100-1200	668453	0.00142	4	151.9361	0.026326	668453	0.00142	4	151.9361	0.026326	668453	0.00142	4	151.9361	0.02632
1200-1300	663974	0.00141	4	160.2464	0.024961	663974	0.00141	4	160.2464	0.024961	663974	0.00141	4	160.2464	0.02496
1300-1400	658285	0.00139	4	176.1040	0.022713	658285	0.00139	4	176.1040	0.022713	658285	0.00139	4	176.1040	0.02271
1400-1500	651395	0.00137	4	194.7235	0.020541	651395	0.00137	4	194.7235	0.020541	651395	0.00137	4	194.7235	0.02054
1500-1600	644324	0.00135	4	215.7668	0.018538	644324	0.00135	4	215.7668	0.018538	644324	0.00135	4	215.7668	0.01853
1600-1700	637476	0.00133	4	239.2006	0.016722	637476	0.00133	4	239.2006	0.016722	637476	0.00133	4	239.2006	0.01672
1700-1800	631453	0.00131	4	264.6374	0.015115	631453	0.00131	4	264.6374	0.015115	631453	0.00131	4	264.6374	0.01511
1800-1900	626846	0.00131	1	269.8525	0.003705	626846	0.00131	1	269.8525	0.003705	626846	0.00131	1	269.8525	0.00370
1900-2000	623848	0.00132	1	263.1249	0.003800	623848	0.00132	1	263.1249	0.003800	623848	0.00132	1	263.1249	0.00380
2000-2100	622850	0.00134	1	245.1098	0.004079	622850	0.00134	1	245.1098	0.004079	622850	0.00134	1	245.1098	0.00407
2100-2200	623848	0.00137	1	218.4886	0.004576	623848	0.00137	1	218.4886	0.004576	623848	0.00137	1	218.4886	0.00457
2200-2300	626646	0.00139	1	200.8067	0.004979	626646	0.00139	1	200.8067	0.004979	626646	0.00139	1	200.8067	0.00497
2300-0000	630450	0.00141	1	183.9721	0.005435	630450	0.00141	1	183.9721	0.005435	630450	0.00141	1	183.9721	0.00543

	OCTOBER					DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	636471	0.00147	0	145.6330	0	683164	0.00141	0	148.5292	0
0100-0200	665805	0.00144	0	143.1806	0	697127	0.00139	0	151.1528	0
0200-0300	670695	0.00144	0	140.4154	0	701245	0.00139	0	148.7988	0
0300-0400	675390	0.00143	0	142.7162	0	705163	0.00138	0	151.9951	0
0400-0500	679683	0.00143	0	140.3265	0	709084	0.00137	0	155.3117	0
0500-0600	683778	0.00142	0	143.0296	0	712390	0.00136	0	159.1215	0
0600-0700	687879	0.00141	4	145.8315	0.027428	715699	0.00135	4	163.0764	0.024528
0700-0800	691986	0.00141	4	143.5362	0.027867	719010	0.00135	4	161.0828	0.024831
0800-0900	695892	0.0014	4	146.5218	0.027299	722325	0.00134	4	165.1467	0.024220
0900-1000	698774	0.0014	4	144.9168	0.027602	725227	0.00133	4	169.6271	0.023581
1000-1100	700009	0.00141	4	139.1938	0.028736	727509	0.00134	4	162.0292	0.024686
1100-1200	698156	0.00142	4	135.3136	0.029560	727301	0.00135	4	156.2354	0.025602
1200-1300	693425	0.00142	4	137.7879	0.029030	724398	0.00138	4	141.4756	0.028273
1300-1400	686238	0.00142	4	141.6673	0.028235	718389	0.0014	4	134.6101	0.029715
1400-1500	677229	0.00141	4	152.0235	0.026311	710117	0.00141	4	133.9759	0.029856
1500-1600	667638	0.0014	4	163.6343	0.024444	700421	0.00142	4	134.1506	0.029817
1600-1700	658488	0.00138	4	182.4278	0.021926	691164	0.00142	4	138.9924	0.028778
1700-1800	650586	0.00137	4	195.3694	0.020474	683164	0.00142	4	143.3724	0.027899
1800-1900	644929	0.00138	1	192.8288	0.005185	677638	0.00142	1	146.5095	0.006825
1900-2000	642106	0.00139	1	188.1787	0.005314	675390	0.00143	1	142.7162	0.007006
2000-2100	642106	0.00142	1	169.1231	0.005912	676207	0.00143	1	142.2571	0.007029
2100-2200	644525	0.00143	1	161.6636	0.006185	678865	0.00143	1	140.7776	0.007103
2200-2300	648766	0.00144	1	153.4226	0.006517	682959	0.00142	1	143.4872	0.006969
2300-0000	653824	0.00145	1	145.1688	0.006888	687674	0.00141	1	145.9474	0.006851

TABLE 13. WRIGHT PATTERSON : THICK THICK ASPHALT

	FEBRUARY					MARCH					APRIL				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	981320	0.0017	0	22.20734	0	975268	0.00171	0	21.92404	0	968793	0.00172	0	21.67548	0
0100-0200	982528	0.00169	0	22.79732	0	976479	0.0017	0	22.50196	0	970008	0.00172	0	21.60320	0
0200-0300	983333	0.00169	0	22.74761	0	977691	0.0017	0	22.42769	0	971628	0.00171	0	22.14361	0
0300-0400	984138	0.00169	0	22.69806	0	978901	0.0017	0	22.35389	0	973246	0.00171	0	22.04564	0
0400-0500	984540	0.00169	0	22.67337	0	980111	0.0017	0	22.28042	0	974459	0.00171	0	21.97258	0
0500-0600	985746	0.00169	0	22.59952	0	981320	0.0017	0	22.20734	0	975672	0.00171	0	21.89985	0
0600-0700	986148	0.00169	4	22.57498	0.177187	981723	0.00169	4	22.84717	0.175076	976883	0.0017	4	22.47716	0.17795
0700-0800	986952	0.00168	4	23.20445	0.172380	982931	0.00169	4	22.77242	0.175651	972437	0.00172	4	21.45969	0.18639
0800-0900	987755	0.00168	4	23.15421	0.172754	978094	0.0017	4	22.40307	0.178546	965548	0.00173	4	21.24534	0.18827
0900-1000	982528	0.0017	4	22.13465	0.180712	970413	0.00172	4	21.57918	0.185363	957416	0.00175	4	20.51601	0.19496
1000-1100	974055	0.00171	4	21.99688	0.181843	961486	0.00174	4	20.87504	0.191616	949666	0.00176	4	20.37637	0.19630
1100-1200	964736	0.00173	4	21.29303	0.187854	953748	0.00175	4	20.72696	0.192985	943530	0.00177	4	20.15237	0.19848
1200-1300	957416	0.00175	4	20.51601	0.194969	948440	0.00176	4	20.44664	0.195631	939022	0.00177	4	20.41123	0.19597
1300-1400	952524	0.00175	4	20.79802	0.192325	945168	0.00177	4	20.05943	0.199407	936149	0.00178	4	20.00701	0.19992
1400-1500	950483	0.00176	4	20.32972	0.196756	943121	0.00177	4	20.17567	0.198258	934506	0.00178	4	20.10089	0.19899
1500-1600	951708	0.00175	4	20.84557	0.191887	943530	0.00177	4	20.15237	0.198487	934506	0.00178	4	20.10089	0.19899
1600-1700	956194	0.00174	4	21.18435	0.188818	945986	0.00176	4	20.58830	0.194285	936560	0.00178	4	19.98362	0.20016
1700-1800	962705	0.00173	4	21.41295	0.186802	950891	0.00175	4	20.89334	0.191448	940662	0.00177	4	20.31653	0.19688
1800-1900	971628	0.00171	1	22.14361	0.045159	957824	0.00174	1	21.08841	0.047419	945986	0.00176	1	20.58830	0.04857
1900-2000	976479	0.0017	1	22.50196	0.044440	965548	0.00172	1	21.87016	0.045724	952116	0.00175	1	20.82178	0.04802
2000-2100	978498	0.0017	1	22.37843	0.044685	970008	0.00172	1	21.60320	0.046289	959452	0.00174	1	20.99318	0.04763
2100-2200	979304	0.0017	1	22.32938	0.044784	972437	0.00171	1	22.09455	0.045260	963924	0.00173	1	21.34086	0.04685
2200-2300	980111	0.0017	1	22.28042	0.044882	973246	0.00171	1	22.04564	0.045360	966360	0.00173	1	21.19780	0.04717
2300-0000	980514	0.0017	1	22.25602	0.044931	974459	0.00171	1	21.97258	0.045511	967577	0.00172	1	21.74815	0.04598

	MAY					JUNE					JULY				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	963112	0.00173	0	21.38885	0	955787	0.00175	0	20.60933	0	955379	0.00175	0	20.63279	0
0100-0200	964330	0.00173	0	21.31693	0	957009	0.00174	0	21.13631	0	957009	0.00174	0	21.13631	0
0200-0300	965548	0.00173	0	21.24534	0	958638	0.00174	0	21.04072	0	958638	0.00174	0	21.04072	0
0300-0400	967171	0.00172	0	21.77249	0	960266	0.00174	0	20.94579	0	959859	0.00174	0	20.96947	0
0400-0500	968793	0.00172	0	21.67548	0	961892	0.00173	0	21.46122	0	961079	0.00174	0	20.89861	0
0500-0600	970008	0.00172	0	21.60320	0	963518	0.00173	0	21.36483	0	962705	0.00173	0	21.41295	0
0600-0700	971223	0.00172	4	21.53125	0.185776	961486	0.00174	4	20.87504	0.191616	960672	0.00174	4	20.92221	0.19118
0700-0800	967171	0.00173	4	21.15046	0.189121	955787	0.00175	4	20.60933	0.194086	954564	0.00175	4	20.67977	0.19342
0800-0900	959452	0.00174	4	20.99318	0.190537	948848	0.00176	4	20.42321	0.195855	946804	0.00176	4	20.54093	0.19473
0900-1000	950891	0.00176	4	20.30648	0.196981	941402	0.00177	4	20.26941	0.197341	939432	0.00178	4	19.82122	0.20180
1000-1100	943121	0.00177	4	20.17567	0.198258	934917	0.00178	4	20.07735	0.199229	932862	0.00178	4	20.19543	0.19806
1100-1200	936149	0.00178	4	20.00701	0.199929	928749	0.00178	4	20.43466	0.195745	927102	0.00179	4	19.96441	0.20035
1200-1300	930806	0.00178	4	20.31453	0.196903	924630	0.00179	4	20.10697	0.198935	922569	0.00179	4	20.22690	0.19775
1300-1400	927926	0.00178	4	20.48299	0.195283	921744	0.00179	4	20.27519	0.197285	919681	0.00179	4	20.39662	0.19611
1400-1500	925866	0.00179	4	20.03552	0.199645	920093	0.00179	4	20.37229	0.196345	918442	0.00179	4	20.47003	0.19540
1500-1600	925866	0.00179	4	20.03552	0.199645	920093	0.00179	4	20.37229	0.196345	918442	0.00179	4	20.47003	0.19540
1600-1700	928337	0.00178	4	20.45884	0.195514	920919	0.00179	4	20.32363	0.196815	919681	0.00179	4	20.39662	0.19611
1700-1800	932451	0.00178	4	20.21916	0.197832	923806	0.00179	4	20.15480	0.198463	922981	0.00179	4	20.20285	0.19799
1800-1900	937791	0.00177	1	20.48272	0.048821	927926	0.00178	1	20.48299	0.048820	927514	0.00178	1	20.50725	0.04876
1900-2000	944758	0.00176	1	20.65969	0.048403	933684	0.00178	1	20.14808	0.049632	932862	0.00178	1	20.19543	0.04951
2000-2100	952932	0.00175	1	20.77429	0.048136	940252	0.00177	1	20.34015	0.049163	939432	0.00177	1	20.38750	0.04904
2100-2200	957416	0.00174	1	21.11237	0.047365	948031	0.00176	1	20.47015	0.048851	947213	0.00176	1	20.51730	0.04873
2200-2300	960672	0.00174	1	20.92221	0.047796	951708	0.00175	1	20.84557	0.047971	951708	0.00175	1	20.84557	0.04797
2300-0000	961892	0.00173	1	21.46122	0.046595	954156	0.00175	1	20.70335	0.048301	953748	0.00175	1	20.72696	0.04824

TABLE 13. CONTINUED

	AUGUST					SEPTEMBER					NOVEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	959045	0.00174	0	21.01693	0	961892	0.00173	0	21.46122	0	974863	0.00171	0	21.94832	0
0100-0200	960266	0.00174	0	20.94579	0	963112	0.00173	0	21.38885	0	975672	0.00171	0	21.89985	0
0200-0300	961486	0.00174	0	20.87504	0	964330	0.00173	0	21.31693	0	976076	0.00171	0	21.87571	0
0300-0400	962705	0.00173	0	21.41295	0	965954	0.00173	0	21.22155	0	977691	0.0017	0	22.42769	0
0400-0500	963924	0.00173	0	21.34086	0	967577	0.00172	0	21.74815	0	978094	0.0017	0	22.40307	0
0500-0600	965548	0.00173	0	21.24534	0	968793	0.00172	0	21.67548	0	979304	0.0017	0	22.32938	0
0600-0700	966765	0.00173	4	21.17414	0.188909	969603	0.00172	4	21.62725	0.184951	980110	0.0017	4	22.28048	0.1795
0700-0800	962299	0.00174	4	20.82807	0.192048	969198	0.00172	4	21.65135	0.184745	981320	0.0017	4	22.20734	0.1801
0800-0900	954564	0.00175	4	20.67977	0.193425	963518	0.00173	4	21.36483	0.187223	980514	0.0017	4	22.25602	0.1797
0900-1000	945577	0.00177	4	20.03632	0.199637	954156	0.00175	4	20.70335	0.193205	974459	0.00171	4	21.97258	0.1820
1000-1100	937791	0.00178	4	19.91379	0.200865	944758	0.00177	4	20.08264	0.199176	965548	0.00173	4	21.24534	0.1882
1100-1200	930395	0.00178	4	20.33846	0.196671	936149	0.00178	4	20.00701	0.199929	956602	0.00175	4	20.56257	0.1945
1200-1300	924630	0.00179	4	20.10697	0.198935	929572	0.00178	4	20.38648	0.196208	949257	0.00176	4	20.39977	0.1960
1300-1400	920919	0.00179	4	20.32363	0.196815	925042	0.00179	4	20.08312	0.199172	944349	0.00177	4	20.10583	0.1989
1400-1500	919268	0.00179	4	20.42105	0.195876	922981	0.00179	4	20.20285	0.197991	942301	0.00177	4	20.22250	0.19779
1500-1600	919681	0.00179	4	20.39662	0.196110	923806	0.00179	4	20.15480	0.198463	943530	0.00177	4	20.15237	0.19848
1600-1700	922156	0.00179	4	20.25105	0.197520	927514	0.00178	4	20.50725	0.195052	947622	0.00176	4	20.49371	0.19518
1700-1800	926690	0.00178	4	20.55588	0.194591	833037	0.00148	4	68.71280	0.058213	954564	0.00175	4	20.67977	0.19342
1800-1900	933273	0.00178	1	20.17174	0.049574	884850	0.00176	1	24.60059	0.040649	963518	0.00173	1	21.36483	0.04680
1900-2000	940662	0.00177	1	20.31653	0.049220	925454	0.00178	1	20.62913	0.048475	968387	0.00172	1	21.69970	0.04608
2000-2100	948440	0.00176	1	20.44664	0.048907	945168	0.00176	1	20.63582	0.048459	971223	0.00172	1	21.53125	0.04644
2100-2200	953340	0.00175	1	20.75061	0.048191	953748	0.00175	1	20.72696	0.048246	972437	0.00171	1	22.09455	0.04526
2200-2300	956194	0.00175	1	20.58596	0.048576	957824	0.00174	1	21.08841	0.047419	973246	0.00171	1	22.04564	0.04536
2300-0000	957416	0.00174	1	21.11237	0.047365	960266	0.00174	1	20.94579	0.047742	974055	0.00171	1	21.99688	0.04546

	DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	981723	0.00169	0	22.84717	0
0100-0200	983333	0.00169	0	22.74761	0
0200-0300	983736	0.00169	0	22.72279	0
0300-0400	984942	0.00169	0	22.64872	0
0400-0500	985344	0.00169	0	22.62410	0
0500-0600	986148	0.00169	0	22.57498	0
0600-0700	986952	0.00168	4	23.20445	0.172380
0700-0800	986550	0.00169	4	22.55047	0.177379
0800-0900	984942	0.00169	4	22.64872	0.176610
0900-1000	979304	0.0017	4	22.32938	0.179136
1000-1100	971223	0.00172	4	21.53125	0.185776
1100-1200	963518	0.00173	4	21.36483	0.187223
1200-1300	957824	0.00175	4	20.49273	0.195191
1300-1400	954156	0.00175	4	20.70335	0.193205
1400-1500	953340	0.00175	4	20.75061	0.192765
1500-1600	954971	0.00175	4	20.65629	0.193645
1600-1700	959045	0.00174	4	21.01693	0.190322
1700-1800	965142	0.00173	4	21.26916	0.188065
1800-1900	972842	0.00171	1	22.07004	0.045310
1900-2000	976883	0.0017	1	22.47716	0.044489
2000-2100	978498	0.0017	1	22.37843	0.044685
2100-2200	980111	0.0017	1	22.28042	0.044882
2200-2300	980514	0.0017	1	22.25602	0.044931
2300-0000	981320	0.0017	1	22.20734	0.045030

TABLE 14. WRIGHT PATTERSON 5 INCH THICK ASPHALT

	JANUARY					MARCH					APRIL				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	978901	0.000948	0	414.5301	0	973246	0.000957	0	401.5536	0	967577	0.000967	0	387.1972	0
0100-0200	979708	0.000946	0	418.0116	0	974459	0.000955	0	404.4313	0	968793	0.000965	0	389.9190	0
0200-0300	980514	0.000945	0	419.3080	0	975672	0.000953	0	407.3402	0	970413	0.000962	0	394.2774	0
0300-0400	980917	0.000944	0	421.0722	0	976479	0.000952	0	408.5829	0	971628	0.00096	0	397.0753	0
0400-0500	981723	0.000943	0	422.3840	0	977691	0.00095	0	411.5392	0	972842	0.000958	0	399.9045	0
0500-0600	982528	0.000941	0	425.9604	0	978498	0.000948	0	414.9852	0	973651	0.000956	0	403.2109	0
0600-0700	982931	0.000941	4	425.4951	0.009400	979304	0.000947	4	416.2665	0.009609	974863	0.000955	4	403.9848	0.009901
0700-0800	983736	0.000939	4	429.1086	0.009321	980111	0.000945	4	419.7676	0.009529	974055	0.000958	4	398.5787	0.010035
0800-0900	984138	0.000938	4	430.9314	0.009282	978901	0.00095	4	410.1849	0.009751	971223	0.000965	4	387.3245	0.010327
0900-1000	982931	0.000943	4	421.0021	0.009501	975672	0.000958	4	396.8207	0.010080	966765	0.000974	4	374.3187	0.010686
1000-1100	978901	0.000952	4	405.8943	0.009854	970818	0.000968	4	381.7838	0.010477	961892	0.000982	4	364.1896	0.010983
1100-1200	974055	0.000962	4	390.3608	0.010246	965548	0.000977	4	369.8464	0.010815	957009	0.000988	4	358.0887	0.011170
1200-1300	968387	0.000972	4	376.4998	0.010624	960672	0.000983	4	363.5685	0.011002	952932	0.000991	4	356.7371	0.011212
1300-1400	963924	0.000978	4	369.6138	0.010822	957009	0.000987	4	359.9064	0.011113	949666	0.000993	4	356.4051	0.011223
1400-1500	960672	0.000982	4	365.4234	0.010946	954156	0.000989	4	359.1281	0.011138	946804	0.000994	4	357.4798	0.011189
1500-1600	959045	0.000982	4	367.0779	0.010896	952932	0.000989	4	360.3588	0.011100	945577	0.000994	4	358.7174	0.011150
1600-1700	959859	0.000979	4	371.8949	0.010755	952932	0.000988	4	362.1861	0.011044	945168	0.000994	4	359.1312	0.011137
1700-1800	962299	0.000974	4	378.9662	0.010555	954156	0.000986	4	364.6249	0.010970	946395	0.000993	4	359.6974	0.011120
1800-1900	966765	0.000966	1	390.0773	0.002563	957416	0.000981	1	370.6280	0.002698	948848	0.000991	1	360.8438	0.002771
1900-2000	970818	0.00096	1	397.9588	0.002512	961892	0.000974	1	379.3937	0.002635	952524	0.000987	1	364.4403	0.002743
2000-2100	973651	0.000956	1	403.2109	0.002480	965954	0.000968	1	386.9286	0.002584	956602	0.000981	1	371.4691	0.002692
2100-2200	975672	0.000953	1	407.3402	0.002454	968793	0.000964	1	391.9456	0.002551	960672	0.000976	1	376.7947	0.002653
2200-2300	976883	0.000951	1	410.2830	0.002437	970818	0.000962	1	393.8392	0.002539	963924	0.000972	1	381.1634	0.002623
2300-0000	978094	0.000949	1	413.2579	0.002419	972033	0.000959	1	398.7068	0.002508	965954	0.00097	1	382.9561	0.002611

	MAY					JUNE					JULY				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	962705	0.000975	0	376.6032	0	956194	0.000984	0	366.2570	0	955379	0.000985	0	365.2306	0
0100-0200	964330	0.000973	0	378.7834	0	957824	0.000982	0	368.3263	0	957416	0.000982	0	368.7447	0
0200-0300	965548	0.000971	0	381.4152	0	959452	0.00098	0	370.4198	0	959045	0.00098	0	370.8389	0
0300-0400	966765	0.000969	0	384.0762	0	961079	0.000978	0	372.5369	0	960266	0.000979	0	371.4750	0
0400-0500	967982	0.000967	0	386.7656	0	962299	0.000976	0	375.0993	0	961892	0.000977	0	373.6045	0
0500-0600	969198	0.000965	0	389.4849	0	963924	0.000973	0	379.2087	0	963112	0.000975	0	376.1792	0
0600-0700	970413	0.000963	4	392.2345	0.010197	963924	0.000975	4	375.3353	0.010657	963112	0.000976	4	374.2560	0.010687
0700-0800	969603	0.000966	4	387.0420	0.010334	961892	0.00098	4	367.9210	0.010871	961079	0.000981	4	366.8754	0.010902
0800-0900	966360	0.000974	4	374.7369	0.010674	958638	0.000985	4	361.9310	0.011051	957416	0.000987	4	359.4988	0.011126
0900-1000	961892	0.000982	4	364.1896	0.010983	954156	0.000991	4	355.5188	0.011251	952524	0.000992	4	355.3480	0.011256
1000-1100	956602	0.000989	4	356.6861	0.011214	949666	0.000994	4	354.6159	0.011279	948031	0.000995	4	354.4615	0.011284
1100-1200	951299	0.000994	4	352.9959	0.011331	944758	0.000996	4	355.9512	0.011237	943121	0.000996	4	357.6002	0.011185
1200-1300	946804	0.000995	4	355.6870	0.011245	940662	0.000995	4	361.9100	0.011052	939022	0.000994	4	365.4296	0.010946
1300-1400	943121	0.000995	4	359.4008	0.011129	937791	0.000993	4	368.5595	0.010853	935738	0.000992	4	372.5908	0.010735
1400-1500	940252	0.000995	4	362.3307	0.011039	935328	0.000991	4	374.9120	0.010669	933273	0.000989	4	380.9447	0.010500
1500-1600	938611	0.000994	4	365.8562	0.010933	933684	0.00099	4	378.5801	0.010565	932040	0.000988	4	384.2278	0.010410
1600-1700	938611	0.000994	4	365.8562	0.010933	933273	0.00099	4	379.0246	0.010553	931629	0.000988	4	384.6797	0.010398
1700-1800	939842	0.000994	4	364.5805	0.010971	933684	0.000991	4	376.6739	0.010619	932451	0.000989	4	381.8403	0.010475
1800-1900	942301	0.000994	1	362.0505	0.002762	935328	0.000992	1	373.0262	0.002680	934095	0.000991	1	376.2324	0.002657
1900-2000	945986	0.000992	1	361.9307	0.002762	938201	0.000994	1	366.2824	0.002730	936970	0.000993	1	369.4208	0.002706
2000-2100	950891	0.000988	1	364.2616	0.002745	942301	0.000994	1	362.0505	0.002762	941072	0.000994	1	363.3120	0.002752
2100-2200	954971	0.000984	1	367.5084	0.002721	946804	0.000991	1	362.9236	0.002755	945577	0.000992	1	362.3481	0.002759
2200-2300	958231	0.00098	1	371.6790	0.002690	950891	0.000989	1	362.4238	0.002759	950074	0.00099	1	361.4240	0.002766
2300-0000	960672	0.000977	1	374.8703	0.002667	953748	0.000986	1	365.0407	0.002739	952932	0.000987	1	364.0247	0.002747

TABLE 14. CONTINUED

	AUGUST					SEPTEMBER					OCTOBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	958231	0.000981	0	369.7885	0	958638	0.00098	0	371.2586	0	966360	0.000969	0	384.5053	0
0100-0200	959859	0.000979	0	371.8949	0	961079	0.000977	0	374.4474	0	967982	0.000967	0	386.7656	0
0200-0300	961486	0.000977	0	374.0251	0	963112	0.000974	0	378.1143	0	969198	0.000965	0	389.4849	0
0300-0400	962705	0.000975	0	376.6032	0	964736	0.000971	0	382.2714	0	970008	0.000963	0	392.6711	0
0400-0500	963924	0.000973	0	379.2087	0	966360	0.000969	0	384.5053	0	971223	0.000961	0	395.4527	0
0500-0600	965142	0.000971	0	381.8430	0	967577	0.000967	0	387.1972	0	972033	0.00096	0	396.6345	0
0600-0700	966360	0.00097	4	382.5274	0.010456	968793	0.000965	4	389.9190	0.010258	973246	0.000958	4	399.4622	0.01001
0700-0800	965548	0.000973	4	377.5113	0.010595	969603	0.000965	4	389.0515	0.010281	974055	0.000956	4	402.7654	0.00993
0800-0900	962299	0.00098	4	367.5064	0.010884	967577	0.00097	4	381.2466	0.010491	972842	0.000961	4	393.7013	0.01015
0900-1000	957824	0.000988	4	357.2773	0.011195	963518	0.000979	4	368.1431	0.010865	969198	0.000969	4	381.5121	0.01048
1000-1100	952116	0.000993	4	353.9662	0.011300	958231	0.000988	4	356.8730	0.011208	963924	0.000979	4	367.7300	0.01087
1100-1200	946804	0.000996	4	353.9050	0.011302	952116	0.000994	4	352.1893	0.011357	958231	0.000988	4	356.8730	0.011201
1200-1300	941482	0.000996	4	359.2616	0.011133	946395	0.000996	4	354.3128	0.011289	899813	0.000775	4	1420.994	0.00281
1300-1400	937380	0.000993	4	368.9904	0.010840	941892	0.000995	4	360.6519	0.011091	890675	0.000829	4	1042.658	0.00383
1400-1500	934506	0.00099	4	377.6933	0.010590	938201	0.000994	4	366.2824	0.010920	901888	0.000915	4	615.6437	0.00649
1500-1600	932862	0.000989	4	381.3921	0.010487	936560	0.000993	4	369.8520	0.010815	914310	0.000963	4	459.6963	0.00870
1600-1700	932451	0.000989	4	381.8403	0.010475	936970	0.000993	4	369.4208	0.010827	925042	0.000984	4	400.0560	0.00999
1700-1800	934095	0.000991	4	376.2324	0.010631	905619	0.000863	4	815.8358	0.004902	933273	0.000993	4	373.3336	0.01071
1800-1900	936970	0.000993	1	369.4208	0.002706	905619	0.000915	1	608.9074	0.001642	941482	0.000993	1	364.7214	0.00274
1900-2000	941072	0.000994	1	363.3120	0.002752	919268	0.000978	1	419.4198	0.002384	948848	0.000989	1	364.5071	0.00274
2000-2100	945986	0.000992	1	361.9307	0.002762	933273	0.000994	1	371.4595	0.002692	954971	0.000983	1	369.3815	0.00270
2100-2200	950483	0.000989	1	362.8385	0.002756	943530	0.000993	1	362.6155	0.002757	959452	0.000979	1	372.3155	0.00268
2200-2300	953748	0.000986	1	365.0407	0.002739	950483	0.000988	1	364.6785	0.002742	962299	0.000975	1	377.0268	0.00265
2300-0000	956194	0.000984	1	366.2570	0.002730	955379	0.000984	1	367.0902	0.002724	964736	0.000972	1	380.3090	0.00262

	NOVEMBER					DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	973246	0.000957	0	401.5536	0	979304	0.000947	0	416.2665	0
0100-0200	974055	0.000956	0	402.7654	0	980111	0.000945	0	419.7676	0
0200-0300	974863	0.000955	0	403.9848	0	980917	0.000944	0	421.0722	0
0300-0400	975672	0.000953	0	407.3402	0	981723	0.000943	0	422.3840	0
0400-0500	976479	0.000952	0	408.5829	0	982125	0.000942	0	424.1677	0
0500-0600	977287	0.000951	0	409.8312	0	982931	0.000941	0	425.4951	0
0600-0700	978094	0.000949	4	413.2579	0.009679	983333	0.00094	4	427.2973	0.009361
0700-0800	978901	0.000948	4	414.5301	0.009649	983736	0.00094	4	426.8310	0.009371
0800-0900	978901	0.000948	4	414.5301	0.009649	983333	0.000941	4	425.0317	0.009411
0900-1000	976883	0.000954	4	403.8725	0.009904	980917	0.000947	4	414.4448	0.009651
1000-1100	972842	0.000963	4	389.6300	0.010266	977287	0.000955	4	401.3199	0.009967
1100-1200	967577	0.000973	4	375.4053	0.010655	972437	0.000965	4	386.0372	0.010361
1200-1300	962299	0.000982	4	363.7792	0.010995	967577	0.000972	4	377.3404	0.010600
1300-1400	957416	0.000987	4	359.4988	0.011126	963924	0.000977	4	371.5093	0.010766
1400-1500	954156	0.000989	4	359.1281	0.011138	961486	0.000979	4	370.2202	0.010804
1500-1600	952524	0.000989	4	360.7703	0.011087	960672	0.000979	4	371.0568	0.010780
1600-1700	953340	0.000987	4	363.6096	0.011000	961892	0.000976	4	375.5224	0.010651
1700-1800	955787	0.000983	4	368.5417	0.010853	964330	0.000971	4	382.7005	0.010452
1800-1900	960266	0.000976	1	377.2194	0.002650	967982	0.000964	1	392.8213	0.002545
1900-2000	964330	0.000971	1	382.7005	0.002613	971628	0.000959	1	399.1498	0.002505
2000-2100	967577	0.000966	1	389.2055	0.002569	974055	0.000955	1	404.8785	0.002469
2100-2200	969603	0.000963	1	393.1083	0.002543	976076	0.000952	1	409.0326	0.002444
2200-2300	971223	0.000961	1	395.4527	0.002528	977287	0.00095	1	411.9928	0.002427
2300-0000	972437	0.000959	1	398.2655	0.002510	978498	0.000948	1	414.0852	0.002409

TABLE 15. WRIGHT PATTERSON 10 INCH THICK ASPHALT

	JANUARY					MARCH					APRIL				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	978901	0.00117	0	144.7666	0	941892	0.00122	0	130.1381	0	913070	0.00127	0	115.6524	0
0100-0200	977489	0.00117	0	145.3246	0	952932	0.00122	0	126.1587	0	933684	0.00125	0	117.9733	0
0200-0300	980111	0.00117	0	144.2908	0	956398	0.00121	0	130.1930	0	937586	0.00124	0	121.4502	0
0300-0400	982327	0.00116	0	149.7146	0	959452	0.0012	0	134.5607	0	941687	0.00124	0	120.0458	0
0400-0500	984741	0.00116	0	148.7385	0	962705	0.0012	0	133.3524	0	945372	0.00123	0	123.7114	0
0500-0600	986751	0.00116	0	147.9324	0	965548	0.00119	0	137.9619	0	949053	0.00122	0	127.5376	0
0600-0700	988759	0.00115	4	153.6424	0.026034	968387	0.00119	4	136.8867	0.029221	952524	0.00122	4	126.3028	0.031669
0700-0800	990564	0.00115	4	152.8975	0.026161	971223	0.00118	4	141.6777	0.028233	955787	0.00121	4	130.4149	0.030671
0800-0900	992368	0.00115	4	152.1579	0.026288	974055	0.00118	4	140.5826	0.028453	958638	0.00121	4	129.3838	0.030915
0900-1000	994170	0.00114	4	158.1829	0.025287	975874	0.00118	4	139.8853	0.028594	960266	0.00122	4	123.6072	0.032360
1000-1100	995370	0.00115	4	150.9380	0.026500	976479	0.00119	4	133.8844	0.029876	959655	0.00123	4	118.8650	0.033651
1100-1200	995170	0.00115	4	151.0188	0.026486	975470	0.0012	4	128.7523	0.031067	957620	0.00124	4	114.7964	0.034844
1200-1300	993369	0.00116	4	145.3205	0.027525	972235	0.00121	4	124.6175	0.032098	953544	0.00125	4	111.5381	0.035862
1300-1400	989963	0.00118	4	134.6424	0.029708	967374	0.00123	4	116.3541	0.034377	948031	0.00126	4	108.8508	0.036747
1400-1500	984942	0.00119	4	130.8405	0.030571	961486	0.00124	4	113.5704	0.035220	942096	0.00127	4	106.3982	0.037594
1500-1600	979304	0.0012	4	127.4134	0.031393	955175	0.00125	4	111.0313	0.036025	935944	0.00128	4	104.1084	0.038421
1600-1700	973853	0.00121	4	124.0665	0.032240	949257	0.00126	4	108.4765	0.036874	929778	0.00129	4	101.9148	0.039248
1700-1800	969198	0.00121	4	125.6609	0.031831	943940	0.00126	4	110.1126	0.036326	924630	0.00129	4	103.4340	0.038671
1800-1900	965954	0.0012	1	132.1604	0.007566	939842	0.00126	1	111.3967	0.008976	920712	0.00129	1	104.6111	0.009559
1900-2000	964939	0.0012	1	132.5312	0.007545	937996	0.00125	1	116.5335	0.008581	918029	0.00129	1	105.4279	0.009485
2000-2100	965345	0.00119	1	138.0393	0.007244	937586	0.00125	1	116.6693	0.008571	917203	0.00128	1	109.8743	0.009101
2100-2200	967374	0.00119	1	137.2690	0.007284	939432	0.00124	1	120.8153	0.008277	918236	0.00128	1	109.5452	0.009128
2200-2300	969603	0.00118	1	142.3094	0.007026	942301	0.00124	1	119.8375	0.008344	920919	0.00127	1	113.0440	0.008846
2300-0000	972437	0.00118	1	141.2068	0.007081	945577	0.00123	1	123.6399	0.008088	924424	0.00127	1	111.9054	0.008936

	MAY					JUNE					JULY				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	889843	0.0013	0	110.2248	0	862745	0.00133	0	106.7902	0	856058	0.00133	0	109.0278	0
0100-0200	918442	0.00128	0	109.4797	0	900436	0.0013	0	106.8028	0	896077	0.00131	0	104.1261	0
0200-0300	922775	0.00127	0	112.4391	0	904790	0.0013	0	105.4386	0	900643	0.0013	0	106.7374	0
0300-0400	926896	0.00126	0	115.5915	0	909346	0.00129	0	108.1321	0	905411	0.0013	0	105.2460	0
0400-0500	930806	0.00126	0	114.3020	0	913690	0.00128	0	111.0037	0	909760	0.00129	0	108.0010	0
0500-0600	934917	0.00125	0	117.5591	0	917823	0.00128	0	109.6766	0	914310	0.00128	0	110.8032	0
0600-0700	938406	0.00124	4	121.1676	0.033012	921950	0.00127	4	112.7075	0.035490	918442	0.00128	4	109.4797	0.036536
0700-0800	941892	0.00124	4	119.9762	0.033339	925866	0.00127	4	111.4415	0.035893	922156	0.00128	4	108.3086	0.036931
0800-0900	944963	0.00124	4	118.9399	0.033630	928337	0.00127	4	110.6528	0.036149	924630	0.00128	4	107.5380	0.037196
0900-1000	946600	0.00124	4	118.3925	0.033785	929366	0.00128	4	106.0837	0.037706	925660	0.00128	4	107.2194	0.037306
1000-1100	946395	0.00125	4	113.7977	0.035150	928337	0.00129	4	102.3369	0.039086	924424	0.00129	4	103.4954	0.038649
1100-1200	943940	0.00127	4	105.8452	0.037791	925660	0.00129	4	103.1275	0.038786	921538	0.0013	4	100.4088	0.039837
1200-1300	939637	0.00128	4	103.0215	0.038826	921538	0.0013	4	100.4088	0.039837	917203	0.0013	4	101.6705	0.039339
1300-1400	933890	0.00129	4	100.7233	0.039712	916170	0.00131	4	98.15081	0.040753	911415	0.00131	4	99.52141	0.040192
1400-1500	927514	0.0013	4	98.69400	0.040529	910174	0.00131	4	99.88345	0.040046	905204	0.00131	4	101.3516	0.039466
1500-1600	920712	0.0013	4	100.6491	0.039742	903961	0.00131	4	101.7234	0.039322	898983	0.00131	4	103.2315	0.038747
1600-1700	914310	0.0013	4	102.5382	0.039009	898153	0.00131	4	103.4859	0.038652	892753	0.0013	4	109.2699	0.036606
1700-1800	908518	0.0013	4	104.2895	0.038354	892753	0.0013	4	109.2699	0.036606	887347	0.0013	4	111.0531	0.036018
1800-1900	904168	0.0013	1	105.6320	0.009466	888387	0.0013	1	110.7069	0.009032	883185	0.0013	1	112.4532	0.008892
1900-2000	901265	0.0013	1	106.5412	0.009386	885266	0.0013	1	111.7501	0.008948	880061	0.0013	1	113.5202	0.008809
2000-2100	900228	0.0013	1	106.8686	0.009357	883809	0.00131	1	108.0226	0.009257	878602	0.0013	1	114.0233	0.008770
2100-2200	901265	0.0013	1	106.5412	0.009386	884226	0.00131	1	107.8869	0.009268	878811	0.00131	1	109.6676	0.009118
2200-2300	904168	0.0013	1	105.6320	0.009466	886099	0.00131	1	107.2802	0.009321	881102	0.00131	1	108.9093	0.009181
2300-0000	908104	0.00129	1	108.5267	0.009214	889635	0.00131	1	106.1476	0.009420	884642	0.00131	1	107.7518	0.009280

TABLE 15. CONTINUED

	AUGUST					SEPTEMBER					OCTOBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	867757	0.00132	0	109.1983	0	846018	0.00223	0	8.490351	0	881935	0.0013	0	112.8785	0
0100-0200	903754	0.0013	0	105.7611	0	889219	0.00216	0	8.720463	0	913070	0.00128	0	111.2047	0
0200-0300	908104	0.00129	0	108.5267	0	896700	0.00212	0	9.363378	0	919681	0.00127	0	113.4500	0
0300-0400	912656	0.00129	0	107.0901	0	903754	0.00209	0	9.847167	0	925660	0.00126	0	116.0033	0
0400-0500	916790	0.00128	0	110.0063	0	910381	0.00205	0	10.63695	0	931218	0.00125	0	118.8077	0
0500-0600	920506	0.00127	0	113.1793	0	916583	0.00202	0	11.24532	0	936560	0.00124	0	121.8051	0
0600-0700	924424	0.00127	4	111.9054	0.035744	922362	0.002	4	11.62262	0.344156	941072	0.00124	4	120.2550	0.03326
0700-0800	928337	0.00126	4	115.1140	0.034748	927720	0.00197	4	12.34296	0.324071	945577	0.00123	4	123.6399	0.03235
0800-0900	931218	0.00126	4	114.1673	0.035036	932657	0.00196	4	12.48323	0.320429	949666	0.00122	4	127.3183	0.03141
0900-1000	933068	0.00127	4	109.1639	0.036642	936149	0.00197	4	12.04900	0.331977	952728	0.00122	4	126.2307	0.03168
1000-1100	932657	0.00128	4	105.0891	0.038062	937996	0.002	4	11.11350	0.359922	954360	0.00123	4	120.6307	0.03315
1100-1200	930395	0.00129	4	101.7347	0.039317	937380	0.00204	4	10.08348	0.396688	953748	0.00124	4	116.0426	0.03447
1200-1300	925866	0.0013	4	99.16286	0.040337	934506	0.0021	4	8.794656	0.454821	950891	0.00126	4	107.9805	0.03704
1300-1400	919887	0.00131	4	97.09743	0.041195	929572	0.00215	4	7.929577	0.504440	931835	0.00132	4	90.31470	0.04428
1400-1500	913070	0.00131	4	99.04140	0.040387	923187	0.0022	4	7.199564	0.555589	905619	0.00126	4	122.9713	0.03252
1500-1600	905826	0.00131	4	101.1662	0.039538	916170	0.00224	4	6.714447	0.595730	883601	0.00125	4	136.6450	0.02927
1600-1700	898903	0.00131	4	103.2315	0.038747	909346	0.00226	4	6.551808	0.610518	869635	0.00126	4	137.0032	0.02919
1700-1800	892753	0.0013	4	109.2699	0.036606	903546	0.00226	4	6.664490	0.600195	863372	0.00128	4	129.0919	0.03098
1800-1900	887971	0.0013	1	110.8452	0.009021	899259	0.00258	1	3.575666	0.279668	862536	0.00129	1	124.4863	0.00803
1900-2000	885058	0.0013	1	111.8201	0.008942	874850	0.00246	1	4.753221	0.210383	865460	0.00131	1	114.2343	0.00875
2000-2100	883809	0.00131	1	108.0226	0.009257	864834	0.00236	1	6.031576	0.165794	871304	0.00132	1	108.0176	0.00925
2100-2200	885058	0.00131	1	107.6168	0.009292	862327	0.00231	1	6.765359	0.147811	879019	0.00132	1	105.5095	0.00947
2200-2300	887971	0.00131	1	106.6786	0.009373	865251	0.00228	1	7.157455	0.139714	887555	0.00131	1	106.8119	0.00936
2300-0000	892130	0.00131	1	105.3583	0.009491	871304	0.00224	1	7.675810	0.130279	895869	0.0013	1	108.2600	0.00923

	DECEMBER				
HOUR	MODULUS	STRAIN	PASSES (n)	N	n/N
0000-0100	970413	0.00118	0	141.9930	0
0100-0200	971830	0.00118	0	141.4420	0
0200-0300	974257	0.00118	0	140.5049	0
0300-0400	976883	0.00117	0	145.5649	0
0400-0500	979304	0.00117	0	144.6079	0
0500-0600	981521	0.00116	0	150.0424	0
0600-0700	983736	0.00116	4	149.1438	0.026819
0700-0800	985746	0.00116	4	148.3347	0.026966
0800-0900	987755	0.00116	4	147.5320	0.027112
0900-1000	989160	0.00115	4	153.4765	0.026062
1000-1100	989963	0.00116	4	146.6567	0.027274
1100-1200	989160	0.00117	4	140.7997	0.028409
1200-1300	986349	0.00118	4	135.9612	0.029420
1300-1400	982125	0.00119	4	131.8430	0.030339
1400-1500	977085	0.00121	4	122.9759	0.032526
1500-1600	971425	0.00121	4	124.8947	0.032026
1600-1700	965954	0.00122	4	121.6770	0.032873
1700-1800	961689	0.00122	4	123.1204	0.032488
1800-1900	958638	0.00122	1	124.1674	0.008053
1900-2000	957824	0.00121	1	129.6771	0.007711
2000-2100	958638	0.00121	1	129.3838	0.007728
2100-2200	960876	0.0012	1	134.0299	0.007461
2200-2300	963518	0.0012	1	133.0527	0.007515
2300-0000	966157	0.00119	1	137.7303	0.007260

TABLE 16. COMPUTATIONS FOR THE 3 INCH PAVEMENT AT A CONSTANT TEMPERATURE

TEMPERATURE (FARENHEIT)	MODULUS	STRAIN	PASSES(n)	N	n/N
30	1336407	0.00147	54	20.17	2.7
35	1239077	0.00153	54	20.20	2.7
40	1167035	0.00157	54	20.83	2.6
45	1066639	0.00164	54	21.28	2.5
50	956828	0.00171	54	23.07	2.3
55	841739	0.00181	54	24.43	2.2
60	725642	0.00191	54	27.73	1.9
65	612585	0.00203	54	32.11	1.7
70	506090	0.00215	54	40.08	1.3
75	408923	0.00227	54	53.92	1.0
80	322966	0.00239	54	78.17	0.7
85	249193	0.00248	54	129.69	0.4
90	187738	0.00253	54	249.63	0.2
95	138035	0.00251	54	589.49	0.1
100	99001	0.00242	54	1715.77	0.0
105	69232	0.00224	54	6550.26	0.0
110	47184	0.00198	54	33723.11	0.0
115	31327	0.00166	54	242522.8	0.0
120	20254	0.00133	54	2348589.5	0.0

TABLE 17. COMPUTATIONS FOR THE 5 INCH PAVEMENT AT A CONSTANT TEMPERATURE

TEMPERATURE (FARENHEIT)	MODULUS	STRAIN	PASSES(n)	N	n/N
30	1336407	0.000817	54	380.35	0.1
35	1239077	0.000847	54	388.50	0.14
40	1130926	0.000883	54	402.45	0.13
45	1215424	0.000854	54	392.49	0.14
50	896323	0.000977	54	450.95	0.12
55	777377	0.001030	54	506.05	0.11
60	662080	0.001100	54	558.76	0.10
65	553452	0.001160	54	690.75	0.08
70	453866	0.001230	54	874.34	0.06
75	364968	0.001300	54	1185.20	0.05
80	287654	0.001350	54	1850.79	0.03
85	222123	0.001380	54	3302.55	0.02
90	167977	0.001390	54	6707.36	0.01
95	124357	0.001350	54	17296.24	0.00
100	90094	0.001270	54	55415.79	0.00
105	63852	0.001130	54	248733.5	0.00
110	44253	0.000936	54	1694728	0.00

TABLE 18. COMPUTATIONS FOR THE 10 INCH PAVEMENT AT A CONSTANT TEMPERATURE

TEMPERATURE (FARENHEIT)	MODULUS	STRAIN	PASSES(n)	N	n/N
30	1336407	0.00102	54	125.40	0.43
35	1239077	0.00106	54	126.56	0.43
40	1130926	0.00111	54	128.20	0.42
45	1015424	0.00116	54	137.06	0.39
50	896323	0.00123	54	142.58	0.38
55	777377	0.00131	54	152.06	0.36
60	662080	0.00139	54	173.43	0.31
65	553452	0.00149	54	197.55	0.27
70	453866	0.00159	54	242.22	0.22
75	364968	0.00169	54	319.21	0.17
80	287654	0.00178	54	464.44	0.12
85	222123	0.00186	54	742.47	0.07
90	167977	0.00190	54	1405.59	0.04
95	124357	0.00189	54	3215.97	0.02
100	90094	0.00181	54	9424.52	0.01
105	63852	0.00165	54	37472.00	0.001
110	44253	0.00139	54	234641.74	0.0002

TABLE 19. COMPUTATION OF CONVERSION FACTORS FOR THE 3 INCH PAVEMENTS

HOMESTEAD

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	68.54	58.23	0.85
2	69.54	58.44	0.84
3	72.83	59.40	0.82
4	76.25	59.60	0.78
5	78.67	59.61	0.76
6	82.04	60.03	0.73
7	83.67	60.36	0.72
8	83.96	60.86	0.72
9	83.96	60.29	0.72
10	79.58	60.36	0.76
11	71.42	60.27	0.84
12	70.50	58.35	0.83

MINOT

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	6.88	46.10	6.70
3	26.33	43.49	1.65
4	43.30	40.79	0.94
5	56.46	39.08	0.69
7	72.83	38.43	0.53
8	70.38	38.59	0.55
9	70.46	38.68	0.55
10	46.83	40.41	0.86
11	29.46	42.96	1.46

WRIGHT-PATTERSON

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
2	33.17	42.54	1.28
3	43.04	40.91	0.95
4	54.25	39.11	0.72
5	64.33	38.69	0.60
6	74.33	38.19	0.51
7	77.63	38.19	0.49
8	76.33	38.40	0.50
9	68.96	43.03	0.62
10	57.83	42.88	0.74
11	44.75	40.71	0.91
12	34.50	42.32	1.23

WILLIAMS

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	45.38	57.62	1.27
2	58.42	57.83	0.99
3	62.46	58.42	0.94
4	71.08	61.54	0.87
5	80.33	62.77	0.78
7	93.46	64.00	0.68
8	91.58	67.01	0.73
9	87.46	64.02	0.73
10	76.04	61.78	0.81
11	63.00	59.24	0.94
12	55.83	58.14	1.04

TABLE 20. COMPUTATION OF CONVERSION FACTORS FOR THE 5 INCH PAVEMENTS

HOMESTEAD

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVEPSION FACTOR
1	68.54	53.70	0.78
2	69.54	54.90	0.79
3	72.83	55.32	0.76
4	76.25	56.20	0.74
5	78.67	56.44	0.72
6	82.04	57.20	0.70
7	83.67	57.71	0.69
9	83.96	57.36	0.68
10	79.58	56.93	0.72
11	71.42	46.11	0.65
12	70.50	53.83	0.76

MINOT

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
2	14.46	43.22	2.99
3	26.33	40.24	1.53
4	43.30	37.02	0.86
5	56.46	22.26	0.39
6	66.54	34.04	0.51
7	72.83	34.70	0.48
8	70.38	34.55	0.49
9	70.46	34.56	0.49
10	46.83	36.31	0.78
12	14.63	43.67	2.99

WRIGHT-PATTERSON

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	29.42	39.09	1.33
2	43.04	36.80	0.86
3	54.25	34.96	0.64
4	64.33	34.46	0.54
5	74.33	34.57	0.47
6	77.63	34.93	0.45
7	76.33	34.91	0.46
9	68.96	38.11	0.55
10	57.83	46.15	0.80
11	44.75	37.13	0.83
12	34.50	39.13	1.13

WILLIAMS

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	45.38	53.28	1.17
2	58.42	53.73	0.92
3	62.46	54.07	0.87
4	71.08	58.72	0.83
5	80.33	60.67	0.76
6	89.42	63.48	0.71
7	93.46	62.27	0.67
8	91.58	66.50	0.73
9	87.46	61.78	0.71
10	76.04	58.71	0.77
11	63.00	55.55	0.88
12	55.833	54.18107	0.970413

TABLE 21. COMPUTATION OF CONVERSION FACTORS FOR THE 10 INCH PAVEMENTS

HOMESTEAD

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	68.54	47.07	0.69
3	72.83	47.54	0.65
4	76.25	48.15	0.63
5	78.67	48.58	0.62
6	82.04	49.81	0.61
7	83.67	50.30	0.60
8	83.96	50.86	0.61
9	83.96	49.57	0.59
10	79.58	48.97	0.62
12	70.50	47.14	0.67

MINOT

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
3	26.33	46.09	1.75
4	43.30	39.30	0.91
5	56.46	33.21	0.59
6	66.54	29.53	0.44
7	72.83	28.19	0.39
8	70.38	29.05	0.41
9	46.83	37.22	0.79

WRIGHT-PATTERSON

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	29.42	45.67	1.55
3	43.04	38.45	0.89
4	54.25	33.24	0.61
5	64.33	30.07	0.47
6	74.33	28.13	0.38
7	77.63	28.49	0.37
8	76.33	28.37	0.37
10	57.83	36.21	0.63
12	34.50	43.74	1.27

WILLIAMS

MONTH	MEAN AIR TEMP.	EQUIV. TEMP.	CONVERSION FACTOR
1	45.38	48.79	1.08
2	58.42	48.20	0.83
3	62.46	47.66	0.76
4	71.08	50.01	0.70
5	80.33	52.17	0.65
6	89.42	55.84	0.62
7	93.46	55.60	0.59
8	91.58	55.60	0.61
9	87.46	55.60	0.64
10	76.04	49.57	0.65
12	55.83	48.40	0.87

TABLE 22. SUMMARY OF LINEAR REGRESSION ANALYSIS

BASE		m	c	rsquare
HOMESTEAD	3	-0.009	1.442	.98
	5	-0.005	1.094	.38
	10	-0.005	1.05	.97
WILLIAMS	3	-.0017	1.723	.94
	5	-.009	1.454	.9
	10	-.008	1.346	.88
MINOT	3	-.022	2.066	.91
	5	-.041	3.11	.91
	10	-.027	2.232	.91
WRIGHT-PAT	3	-.01	1.633	.92
	5	-.016	1.657	.91
	10	-.022	1.98	.89

CONVERSION FACTOR = m X(AIR TEMP) + c

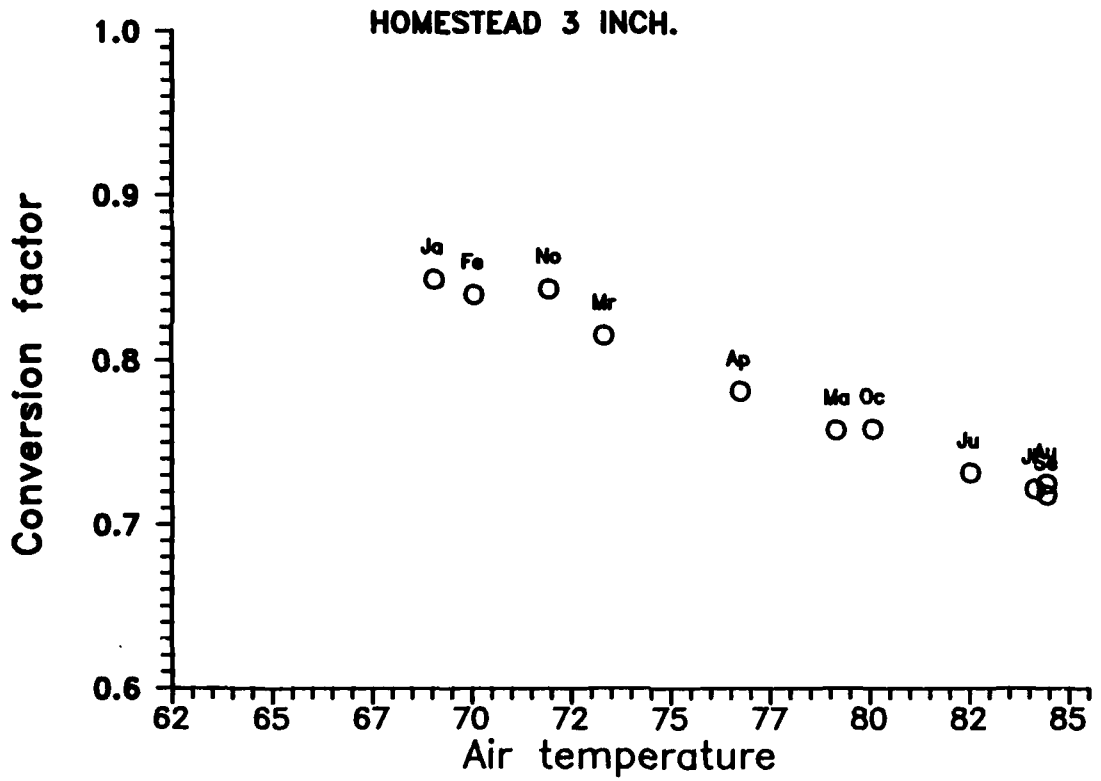

FIGURE 1. Conversion factor as a function of air temperature.

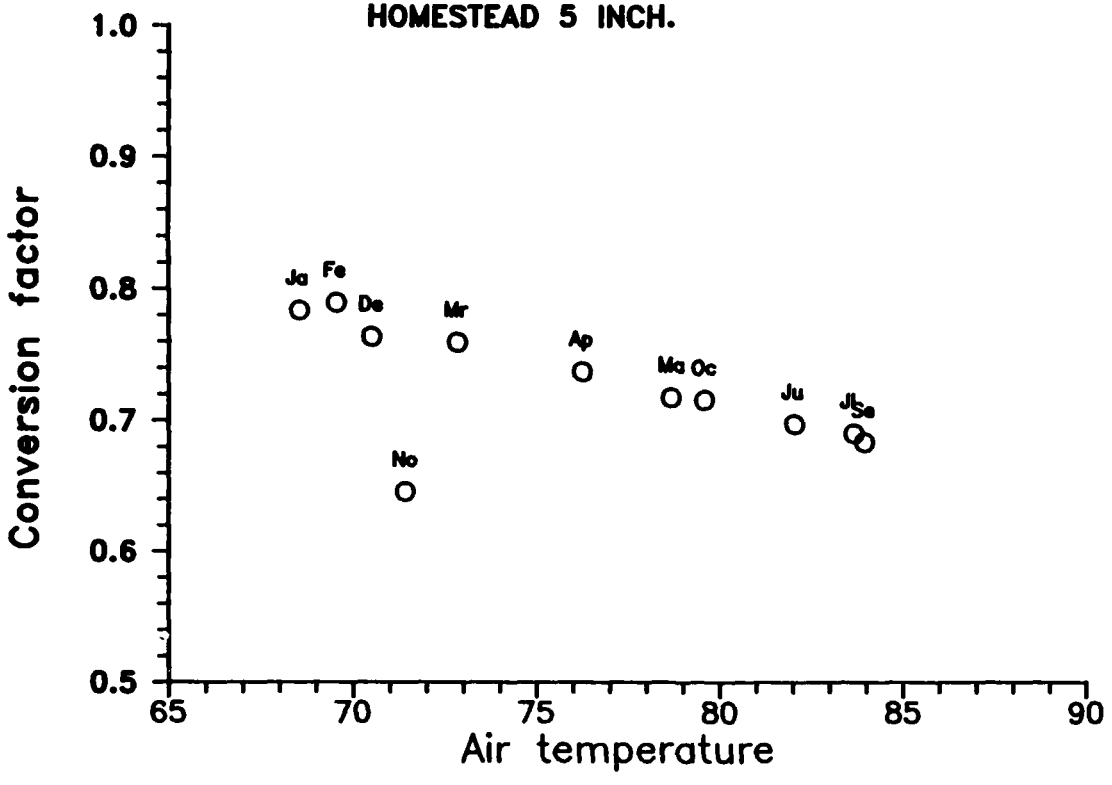

FIGURE 2. Conversion factor as a function of air temperature.

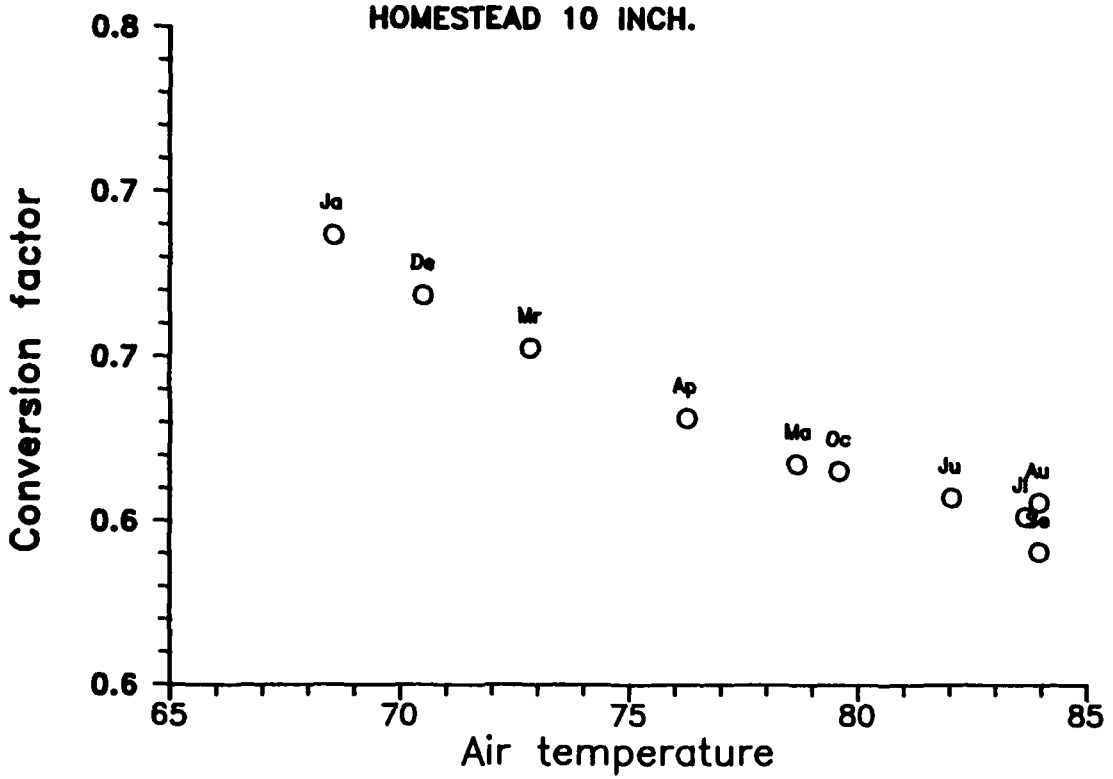

FIGURE 3. Conversion factor as a function of air temperature.

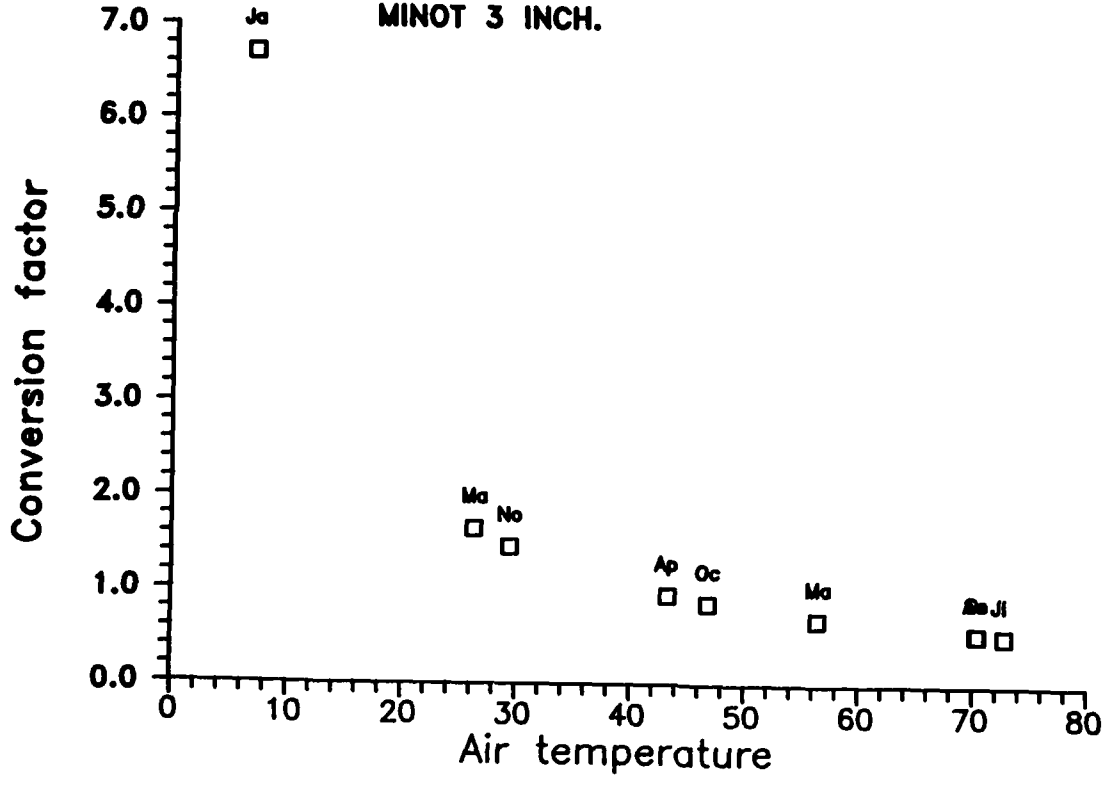

FIGURE 4. Conversion factor as a function of air temperature.

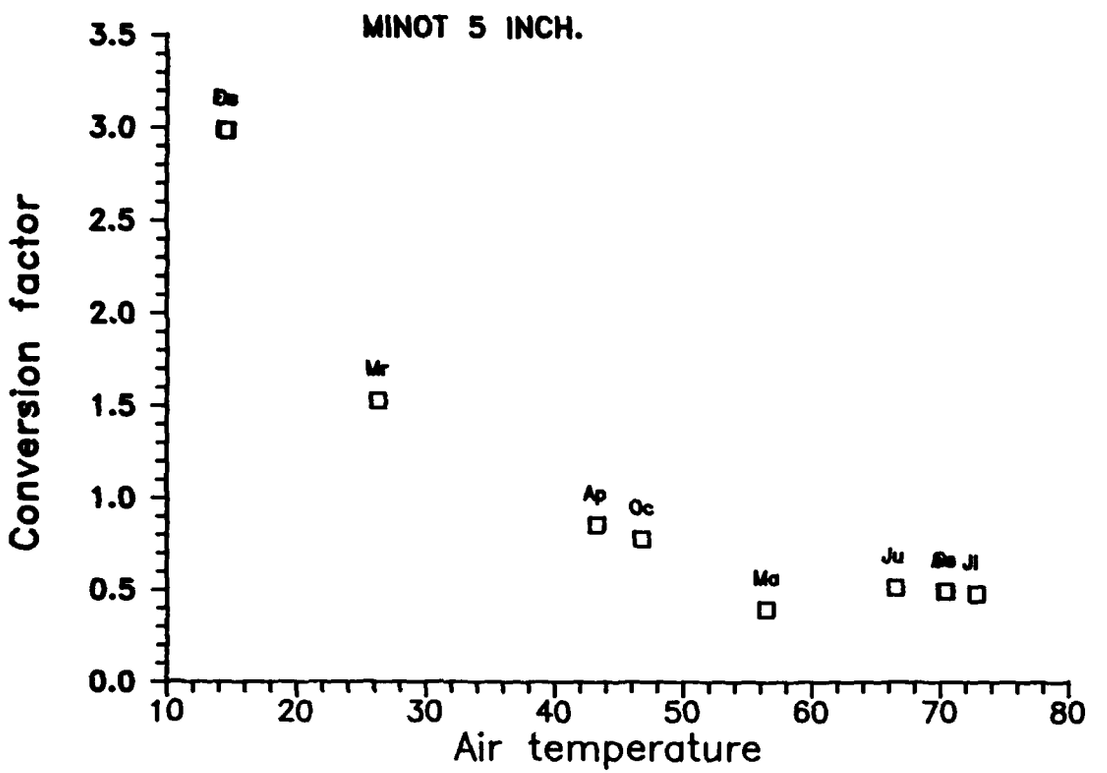

FIGURE 5. Conversion factor as a function of air temperature.

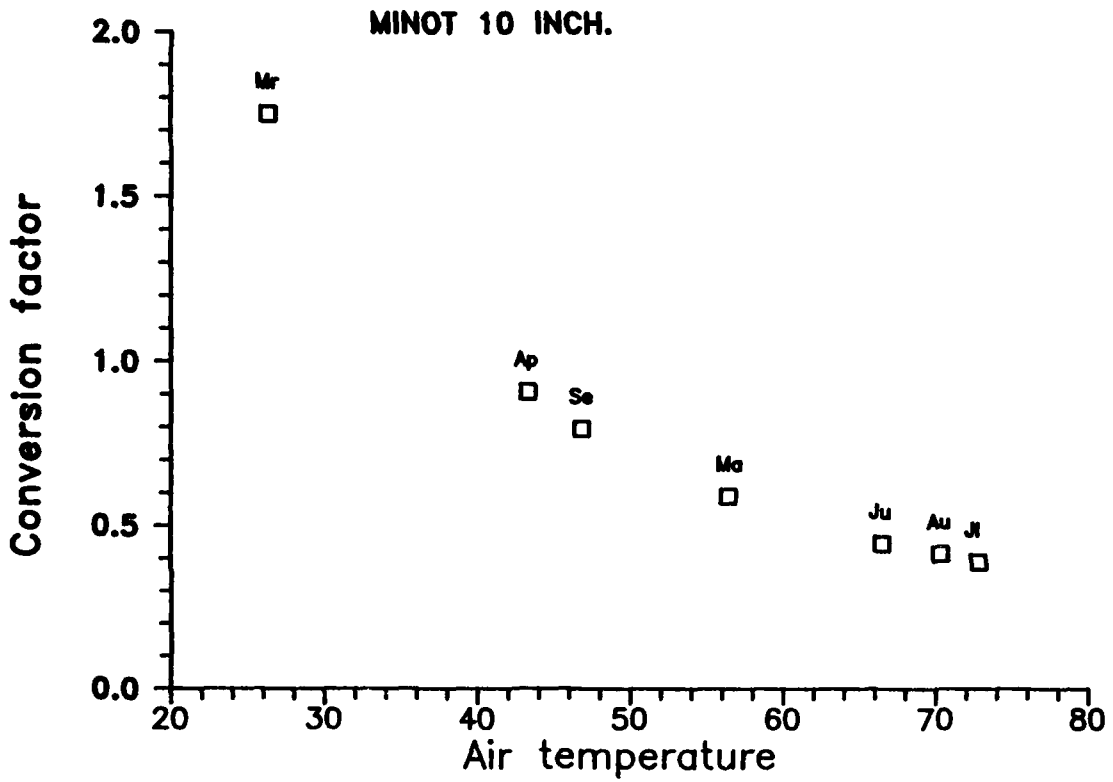

FIGURE 6. Conversion factor as a function of air temperature.

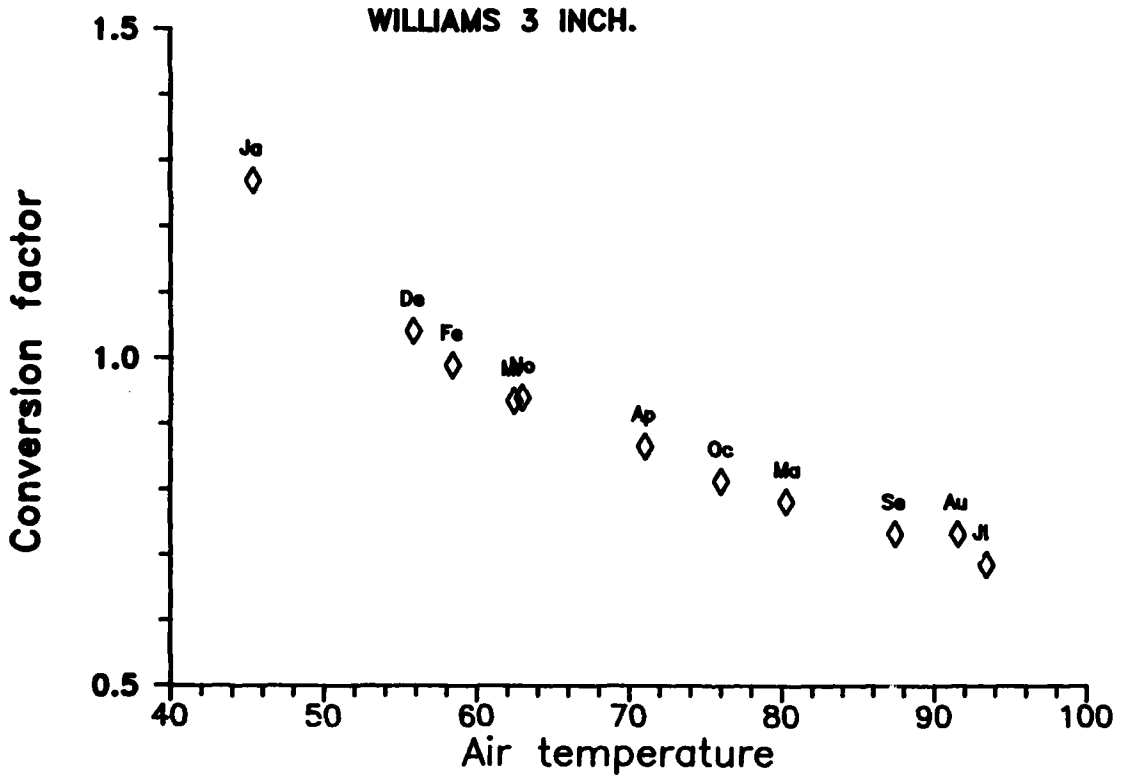

FIGURE 7. Conversion factor as a function of air temperature.

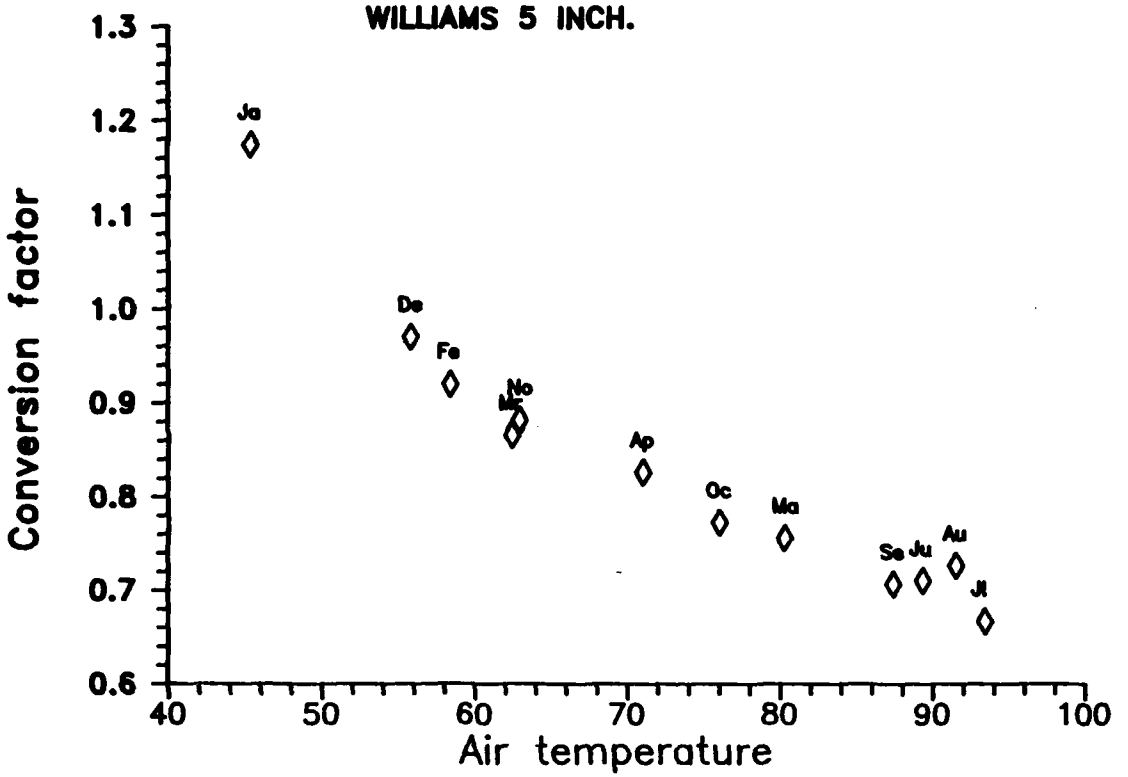

FIGURE 8. Conversion factor as a function of air temperature.

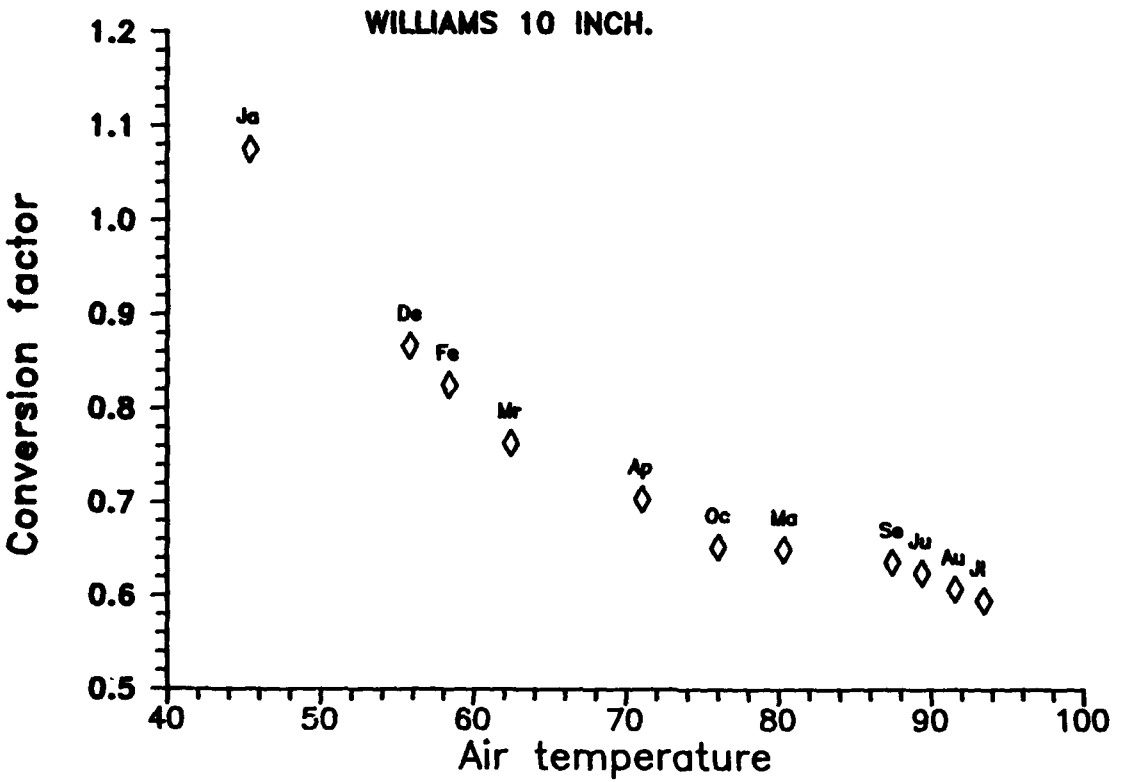

FIGURE 9. Conversion factor as a function of air temperature.

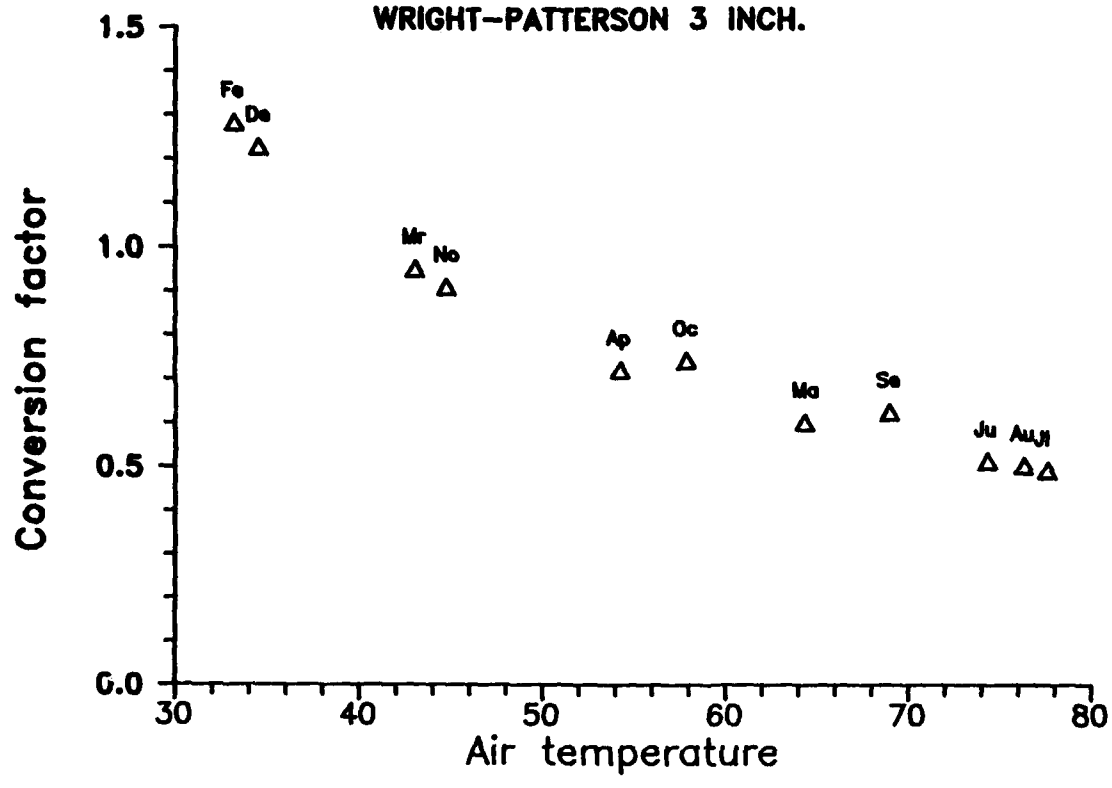

FIGURE 10. Conversion factor as a function of air temperature.

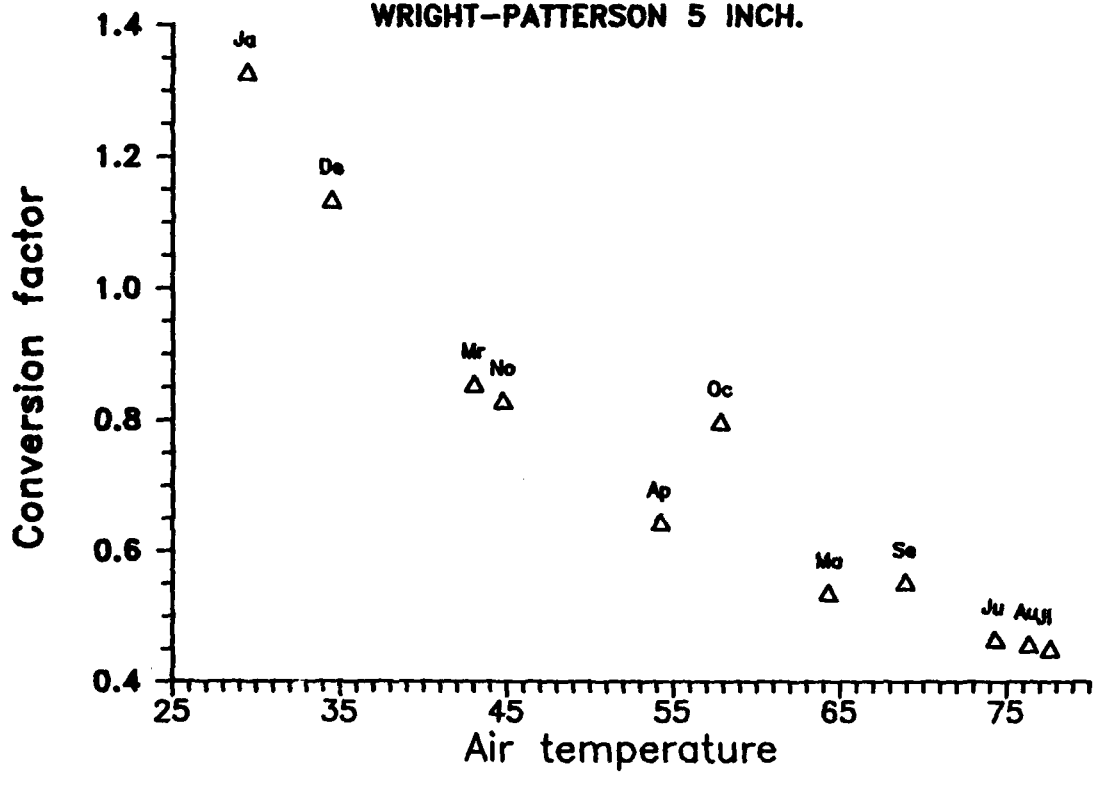

FIGURE 11. Conversion factor as a function of air temperature.

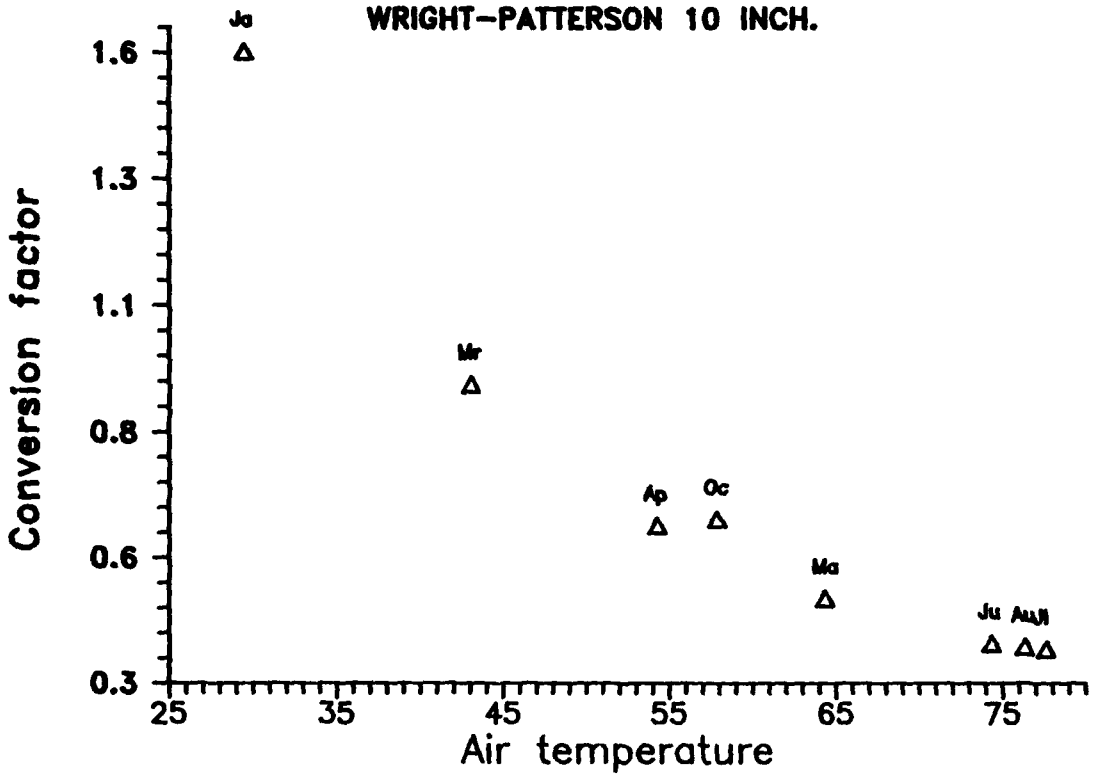

FIGURE 12. Conversion factor as a function of air temperature.