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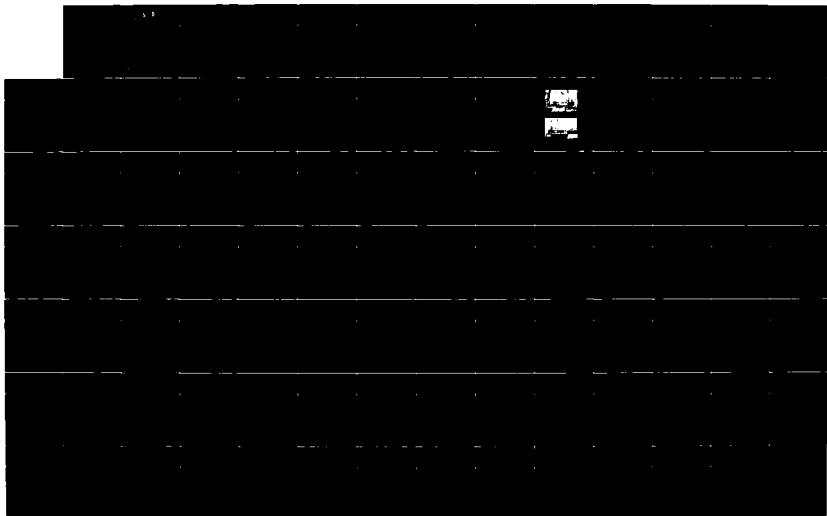
GENERALLY BASED MOBILITY-TERRAIN DATA BASES(II)
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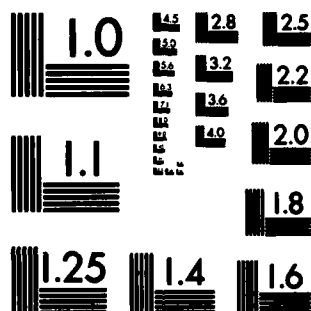
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Generically Based Mobility-Terrain Data Bases

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Generically Based Mobility-Terrain Data Bases

Final Report

by

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Werner Köppel
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March 1986

United States Army

EUROPEAN RESEARCH OFFICE OF THE U.S. ARMY

London, England

Contract-Number: DAJA 45-84-C-0039

Battelle-Institut e.V., Frankfurt/Main, West Germany

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FOREWORD

The study reported herein was conducted by Battelle-Institut (BF) Frankfurt, FRG, Vehicle Technology Department on behalf of the US Army Engineer Waterways Experiment Station, CE, Vicksburg, Mississippi, under a contract from the US Army European Research Office, London. It is part of joint efforts by WES and BF to evaluate and improve the reliability of existing terrain data acquisition methods as well as new modeling approaches for generically based mobility terrain data bases.

The personnel acquiring the various field data included: P. Jessl, P. Corvin, G. Karsubka and F. Rischbieter, Vehicle Technology Department (BF). Data reduction and software development for various data evaluation procedures were under the responsibility of W. Resch and P. Corvin. The report was written by P. Jessl, W. Köppel and W. Resch. W. Köppel was the principal investigator.

ABSTRACT

This report contains an analysis of standard and advanced terrain data acquisition techniques for areal mobility evaluations. In detail, generic terrain descriptors for FRG terrain conditions were investigated for a total of 35 cell areas.

Relations among soil dynamic parameters and conventional mobility index numbers were analyzed for a total of 23 sites. Relationship between cone index field data and computer model data was investigated for a total of 19 sites.

Key words:

Mobility

Generic

Terrain data

PART I: INTRODUCTION

Background

Mobility evaluation of vehicles within the European theater of operations calls for identification of representative operational areas of terrain. Through such terrain areas which are characterized in terms of mobility terrain descriptors, large-scale mobility quantifications can be made possible by means of available and future standard mobility terrain data bases at 1 : 50.000 scale. Generally it is aimed to quantify vehicle mobility across large operational areas at considerably reduced cost involved. In order to achieve these goals WES has been investigating since 1983 a generic mobility-terrain description approach/procedure which identifies suitable small areas that are representative of large areas subject to mobility evaluation needs.

Purpose and Scope

The purpose of the study was to evaluate the reliability of the generics approach by detailed field examination of terrain data as well as in particular to determine critical soil parameters. The latter were subject to detailed comparative analysis in order to allow for future extension of existing conventional soil parameter data bases towards soil dynamic parameter description which are required to drive advanced mobility models or submodels /1/.

Part II: METHOD OF ASSEMBLING GENERICALLY
BASED MOBILITY TERRAIN DATA BASES

Selection of Quadrangle Sheets

A total of 35 terrain sample cells of 10x10 km quadrangle size were selected by Battelle/WES within the FRG. These cells were identifying the most, medium and least representatives of a particular generic region which was determined by ^{these} ~~the~~ factors:

- landform-topography;
- Natick slopes;
- average temperature/January; *and*
- mean value of annual rainfall.

The cell characteristics were based on the following terrain factors:

- USCS soil type;
- agricultural land use;
- forest type;
- vegetation cover, *and*
- geology rock type .

The representativity was tested by WES by means of a chi-square test of observed and expected (modeled) factor values. Thus, the above ranking of quality of fit was performed in order to quantify which factor classes best fit the distribution for each region out of the six regarded here. For the purpose of identifying the most, the medium and least representative cell elements as a composite result of all five terrain factors, WES pre-established weighting factors for the terrain factors reflecting their influence on a vehicle's mobility:

- soil (weighting factor 4)
- land use (3)
- forest type (2)
- vegetation cover (1)
- geology (1)

The distribution of the sampling cells to be visited is shown in figure 1. The generic regions involved which were identified as essential for the evaluation and reliability test of generic descriptors were the following:

- region 1 (10 cells selected)
- region 2 (5)
- region 6 (5)
- region 21 (4)
- region 26 (4)
- region 48 (10)

The number of cells visited for each region is given in parentheses.

Acquisition and Analysis of Terrain Data and Evaluation of Generics Descriptors

Within the 35 cells a suitable number of sites - usually a dozen of locations - was visited in order to determine quantitative terrain data compatible with the Army Mobility Model, (AMM) format. Areal photographs were acquired in order to support the vegetation, forest and land-use distributional characteristics. As a general qualitative result of these detailed data acquisition campaign, it can be concluded that the WES regionalization concept basically reflects the terrain conditions met on the ground. However, the detailed WES analyses on vehicle performance predictions for various wheeled and tracked vehicles and soil strength conditions revealed some need for readjusting the Natick slope description currently applied.

It was also observed in the field that the scattered occurrences of terrain features like sand dunes and hedgerows within regions 1 and 2 need to be regarded as major characteristics of areal terrain encountered in the Northern Plains of the FRG heavily influencing a vehicle's mobility. The large size drainage ditches (top widths of 12', bank heights of 3-4', water depths of 1.5', and bottom widths of 3' at average) considerable impede mobility of both wheeled and tracked vehicles and need to be regarded as a basic terrain feature of these regions in the Northern Plains.

PART III: RELIABILITY OF GENERICALLY-BASED MOBILITY/TERRAIN DATA BASES

Site Selection

A total of 23 sites were identified as being critical to vehicle mobility within the above defined 35 cell areas visited. Selection was based on field experience and subjective criteria within the above mentioned six generic regions. Site characteristics are shown in table 1 including soil types and cone index values obtained for two wet seasonal periods in October 1984 and May 1985. Soil types involved were mainly fine grained and organic ones with cone index values averaging 60-70 psi for the first 6"-layer at the above mentioned extremely wet/low strength boundary conditions.

These sites were also a subset of those to be investigated by means of soil dynamic parameters (cp. Part IV) and provide a basis for any future cone index, remolding index and shear box data reduction. The meteorological data conditions are fully described through long range observations of all relevant climatological data for the nearest weather stations available at each site (see tables 2 - 6).

Analysis of Critical Site Conditions and Terrain Factor Data

From the above AMM terrain data, the meteorological and climatological data as well as various terrain classification products from German barrier team field work (e.g waterway-folio) a full-scale environmental site description is available for the critical sites.

Taking into account the remolding index values determined during the transitional period of May 85 average rating cone index of 38 psi were observed at the 23 sites with a range of 9 - 82 psi and 10 sites showing RCI < 30 psi. These conditions are extremely critical to MBT performance and also APC manoevers if multipass traffic is assumed.

Comparisons for the soil strength data - which is the most critical terrain factor descriptor - at these sites selected yield good results if they are applied in a regional mode:

Evaluating strength data (cone index and rating cone index) for identical generic regions but different quad sheet areas shows good correspondence at least for such sites exhibiting identical soil types (OH and CL soils) within regions 1, 21, 26 and 48 (see table 1).

It is recommendable to complete the sample size of these sites in two ways:

- extension of time series for given sites
- extension of sample size for given soil types.

Thus, it can be envisaged in combination with the soil dynamic parameter determination (see below/Part IV) to establish a critical site terrain data base.

PART IV: RELATIONS AMONG SOIL DYNAMIC PARAMETERS AND CONVENTIONAL MOBILITY INDEX NUMBERS

Site Selection

A total of 35 sites within regions 1, 2, 6, 21, 26 and 48 were selected based on the availability of sufficiently different soil types within the fine-grained range as well as organics (see table 7). Site selection was primarily designed that - if accessible - locations were in coincidence with those locations having been visited earlier. Thus, a continuous recording of conventional and dynamic soil parameters can be ensured for varying seasonal environmental conditions.

Measurements of Soil Engineering Properties

The above sites were visited during extremely wet seasonal conditions in April/May 1985 (tables 1 and 7) ensuring real worst case soil strengths. At each site the following soil parameters were investigated

- o field soil type
- o cone index 0 - 24"
- o remolding index 0 - 12"
- o bulk sample for determining
 - oo Atterberg limits
 - oo moisture content
 - oo grain-size distribution curve
 - oo dry and wet densities
 - oo soil type determination (USCS)

In addition to that, at 23 out of 35 sites direct shear tests were conducted with a WES shear device. Direct shear tests were conducted by using normal loads of 8,89.6 and 180 lbs. corresponding to normal stresses of 0.5, 5.6 and 11.25 psi, respectively. Fig. 2a shows a typical load - deformation curve obtained from a field test. Test data were shown by an x-y plot directly in the field as well as digitally recorded by a digital-signal analyzer (DSA) (see Fig. 3). A series of at least three or more tests (for each normal load applied) is required in order to obtain reproducible results for the soil parameters to be quantified. Thus, a quick in-situ control of each test's reliability is possible. The soil parameters to be determined are

- initial shear stiffness G, psi/in
- cohesion c, psi
- friction angle ϕ , deg.

Data Evaluation

The initial slope of each load vs. deflection curve defines initial shear stiffness G of the sample, while the peak stress obtained defines the maximum shear stress. Deflection at peak stress related to time defines the deflection rate.

For each site a shear stress vs. normal stress plot is generated (see Fig. 2b) based on all tests performed at a site (see table 8). Determination of cohesion c and friction angle ϕ was done by means of mean values of the various normal loads applied for each test; c is defined as the point of intersection of the τ - σ curve with the ordinate at $\sigma = 0$ while ϕ is defined as the gradient at maximum normal load or stress (180 lbs/11.25 psi).

It has to be mentioned that the determination of G , c and ϕ was not made through a computerized data evaluation due to various reasons: The initial slope e.g. could not be calculated automatically because the digitized values were overlayed by some oscillation, probably caused by frictional influence between upper and lower part of the shear box at the beginning of the deformation process.

Also c and ϕ did not allow for computerized evaluation as the different test results were remarkably deviating in many tests and because only three normal loads were available as discrete values for a tentative curve fit. Therefore, future test series should be designed with 5 normal loading conditions at least (0.5, 2.5, 6.0, 10.0 and 14.0 psi for example).

Investigation into the Relationship between Cone Index and Shear Box Data

Correlation of shear stress data with conventional mobility index numbers, i.e. cone index and rating cone index data was investigated for 23 out of the 35 sites visited.

Correlations were basically intended to be made while keeping the following parameters constant

- soil type (Pt; OH; CL; ML and SM)
(see figs. 4 to 33)
- moisture content (20-50%, 50-70%,
70-100%, > 100%) (see figs. 34 to 57)
- organic ingredients (5-10%, 10-20%, > 20%)
(see figs. 58 to 75)
- plasticity (0-20%, 20-50%, > 50%)
(see figs. 70 to 93)

Classes for the above parameters were chosen based on pragmatic criteria as to allow for sufficient sample size at each site.

For all correlations established the normal stresses were kept constant, too.

$$\sigma = \text{const. (0.5, 5.6, 11.25 psi)}$$

All correlations were done in a linear mode. The mean values of the correlation coefficients r_i for the basic soil parameters above are comprehensively shown in table 9. Some of the conclusions to be drawn out of these data are

- a correlation of all soil types encountered obviously does not make much sense. Fine grained soils exclusively (CL, ML, OH) yield good to very good correlation results.
- generally, moisture content and plasticity provide best correlation coefficients; however, low normal load created problems for plasticity results.
- also organic ingredients showed some good correspondence if rating cone index was addressed; again, low normal stresses (0.5 psi) needed to be excluded here.

In fact, negative correlation coefficients were also occurring; this was due to the lack of sufficient sample size accompanied by extremely large deviations. Negative coefficients were not regarded during the establishment of mean values in table 9.

Based on the assumption that correlation coefficients of $0.6 < r < 0.8$ represent high accuracy of shear stress vs. cone index and $0.8 < r \leq 1$ represents extremely high accuracy it can be concluded that moisture content is the most reliable, load independent descriptor for establishing relationships between conventional mobility index numbers and soil dynamic parameters. Plasticity also shows very good results if the lowest normal loads are neglected.

Investigation into the Relationship Between Field Cone Index Data and Computer Generated Data

Based on a WES mathematical model /2/ that is treating cone penetration as expansion of a series of spherical cavities in an elastic-plastic isotropic medium cone index values were generated and compared with field cone index data at the above mentioned sites.

The analytical predictions with the cone model are based on a standard WES cone penetrometer with a 30-degree, right-circular cone of 0.5 in² base area.

Soil input data to the model are

- cohesion c
- friction angle ϕ
- initial shear modulus G and
- bulk density

The determination of the initial shear modulus created some problems as already outlined before. For the comparative evaluation of field and model cone index data here the mean value of G was determined based on normal stress conditions of $\sigma' = 5.6$ psi and $\sigma' = 11.25$ psi. The stress condition $\sigma' = 0.5$ psi did not allow for reliable data reduction and was neglected therefore.

Taking into account the depth of the shear plane of the shear box tests which was predominantly 4" the same depth of 4" was regarded

for the cone prediction, as well as a range of 3-5" for averaging cone index values across a small depth band to take care of potential outliers.

Table 10 shows the comprehensive results for 19 sites considered. It needs to be mentioned that deviations of less than 10% were observed in 11 out of 19 cases. Plots of cone index vs. depth are given in correspondence to table 10 in figs. 94 to 119. Here, the soil profile was organized in 4 layers for site numbers 1, 3, 9, 10, 11, 20, 27, 28, 34 and 35. Layer boundaries were subjectively introduced

where the last layer was based on assumed data in order to alleviate cone index increase beyond 6" with increasing depth in case of a normal strength profile. Density of each layer was kept constant. Variation of c and ϕ was marginally done based on the numerous test results obtained from the shear tests; table 10 shows all corresponding mean values while figs. 94 to 119 give the evaluation results.

It can be concluded that the cone prediction model yielded results which are in good agreement with the measured field data at the various sites visited.

PART V: CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Based on the results of the numerous field data results obtained for the various regions within the FRG it can be concluded that the WES generically based mobility/terrain data approach proved to provide reliable data for future tasks of mobility evaluations.

The survey on soil dynamic parameters and conventional cone index numbers reveals a good correspondence for the soils variety encountered with moisture content and plasticity for the fine grained soils standing as key parameters for establishing mutual correlations.

Recommendations

It is recommended to specifically ensure that the existing cone index terrain data bases for FRG terrain in detail are extended to be described in terms of soil dynamic parameters. The results of feasibility obtained from the limited number of sites in this study are extremely encouraging. Thus, a supplementary investigation of sites for varying environmental conditions - preferably including the worst wet-wet case - needs to be done in order to establish basic routines of translation and completion for soil dynamic parameter data to be inferred from conventional mobility index numbers.

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USAE Waterways Experiment Station, Vicksburg, USA
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Misc.paper SL-81-4, April 1981
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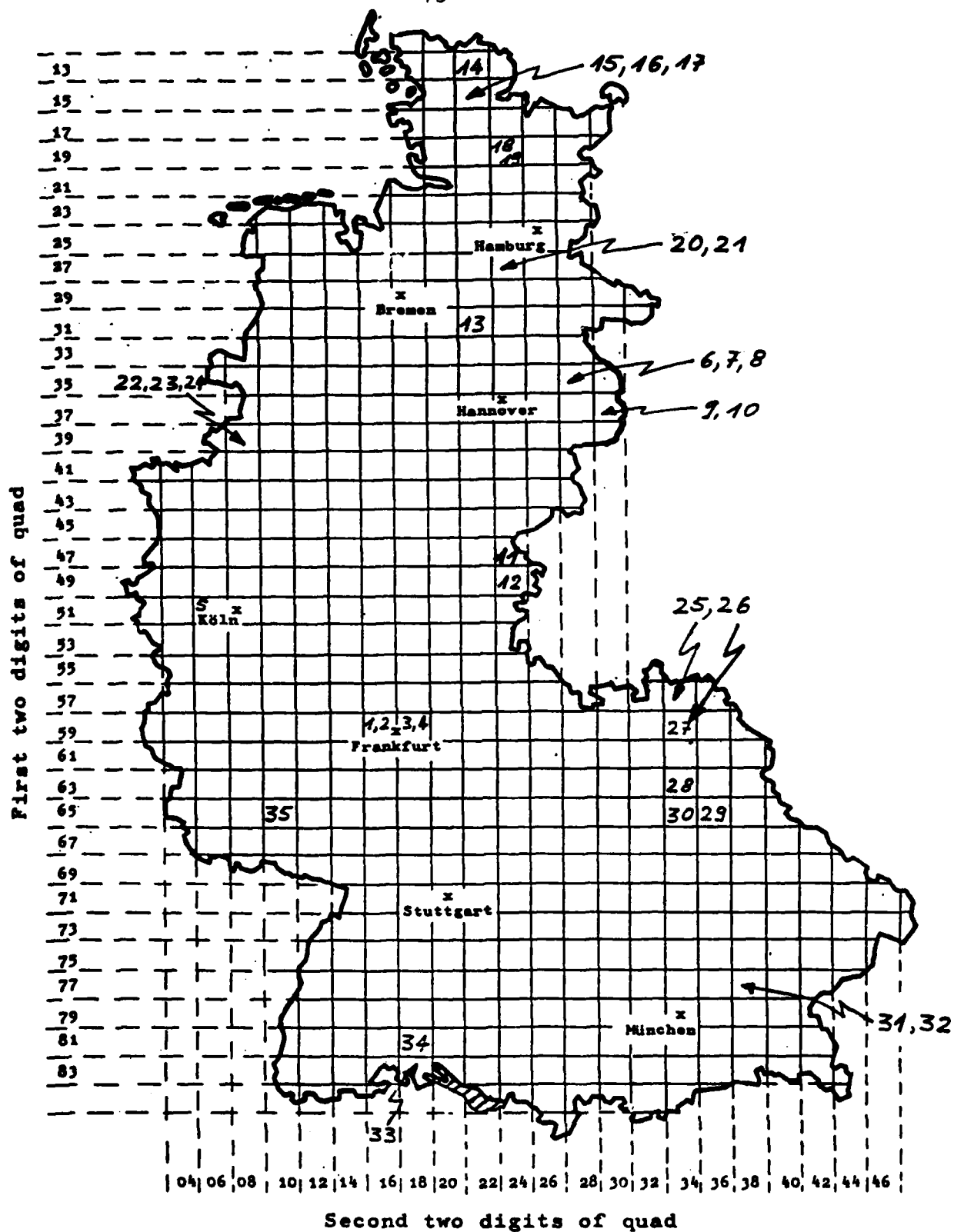


Fig. 1

Distribution of the 35 Sampling Cells Visited in the
FRG

INVESTIGATION OF CRITICAL SOIL PARAMETERS - APRIL - 1985 -

DIRECT SHEAR TESTS - TEST SITE - EDDERSHEIM - QUAD SHEET L 5916

SITE NO.: 1 GRID COORDINATES : 6050/4170

TEST NO: T144 DATA-FILE#: BODEN 3 69-70

TEST-TEAM : P.JESSL / P.CORVIN

INITIAL MODULUS RATE PEAK SHEAR LOAD PEAK SHEAR STRESS DISPL.AT PEAK

psi/inch	inch/s	lbs	psi	inch
127.29	1.34	42.63	2.7	.32

NORMAL LOAD NORMAL STRESS SAMPLE DEPTH

lbs	psi	inch
8.00	.50	4

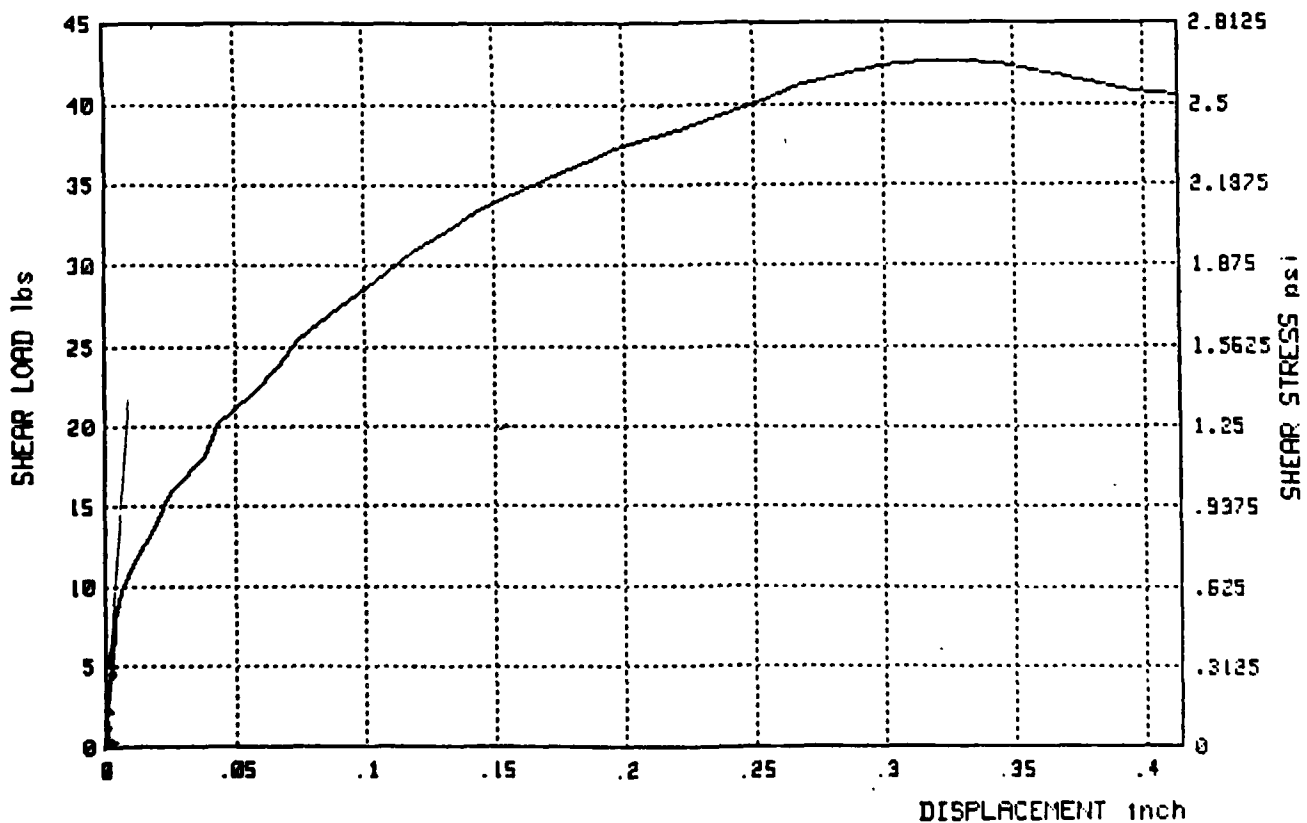


Fig. 2a Typical Shear Load-Deformation Curve Obtained at a Test Site

INVESTIGATION OF CRITICAL SOIL PARAMETERS - APRIL 1985 -

DIRECT SHEAR TESTS TEST SITE : - EDDERSHEIM - QUAD SHEET : L 5916

SITE NO.: 1 GRID COORDINATES : 6050/4170

TESTSERIES : 141-155 TEST-TEAM :- P.JESSL/P.CORVIN -

EVALUATION OF SOIL-PARAMETERS (C, FRICT. ANGLE PHI)

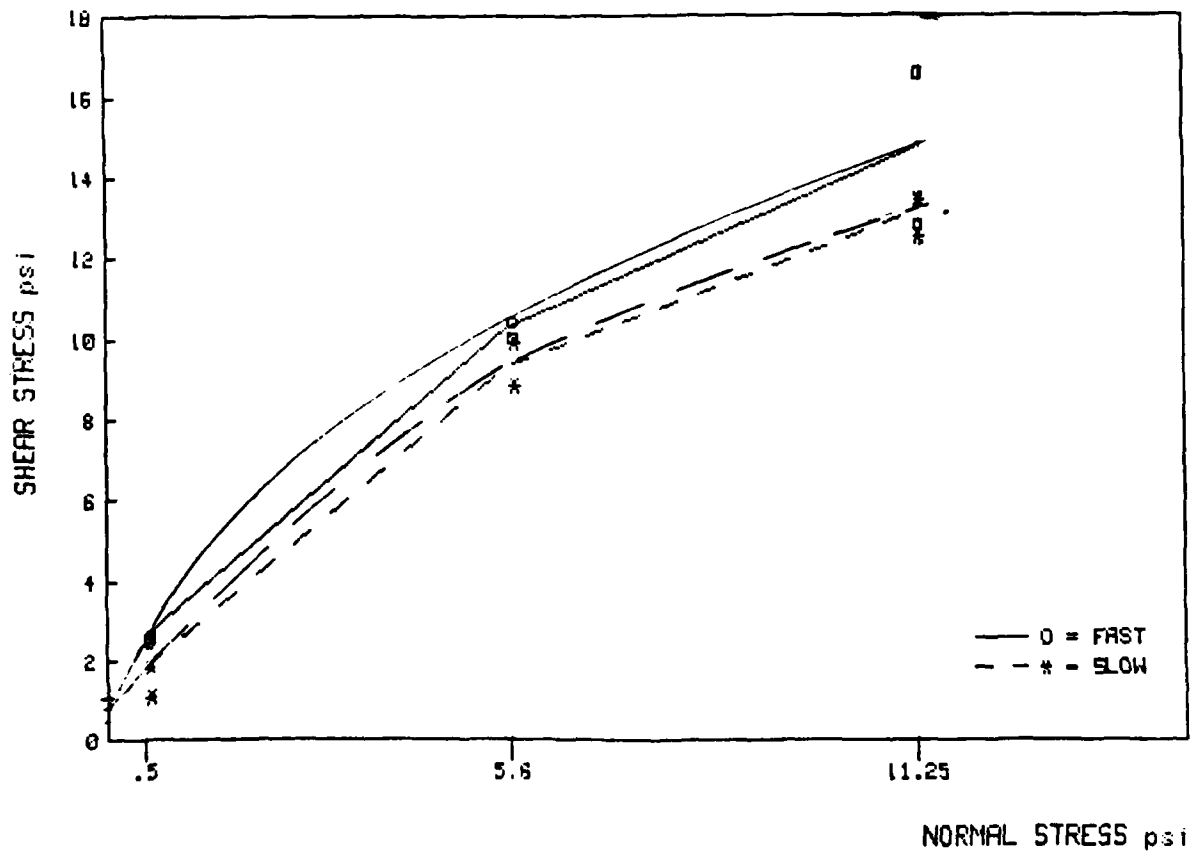


Fig. 2b

Typical Shear Stress vs. Normal Stress Curve Obtained
at a Test Site

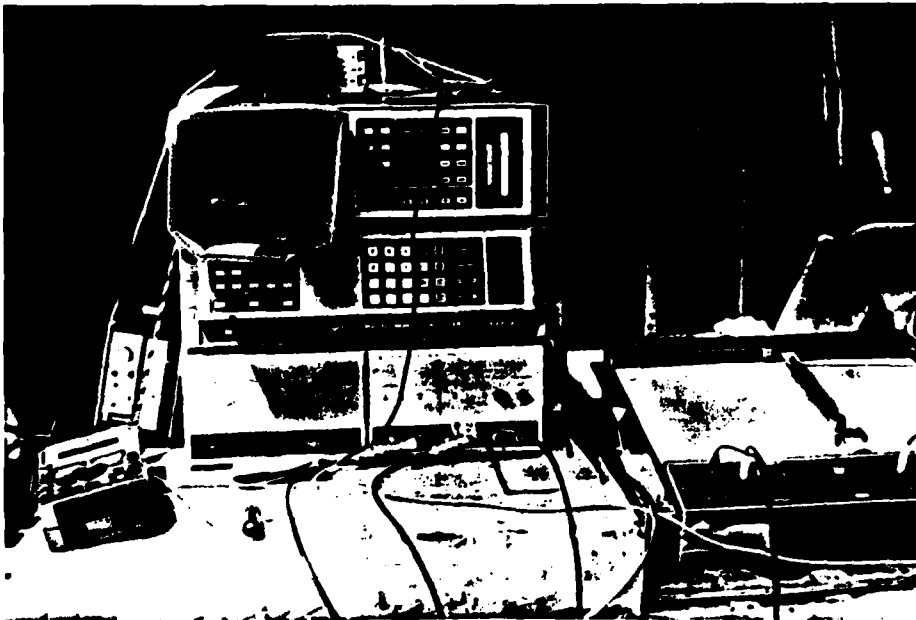


Fig. 3

View of the Mobile Shear Test Field Equipment Mounted
on a Van

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 7 8 13 19 21 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: Pt

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.51$$

$$b = 2.7909E-02$$

CORRELATION COEFFICIENT

$$R = .3704$$

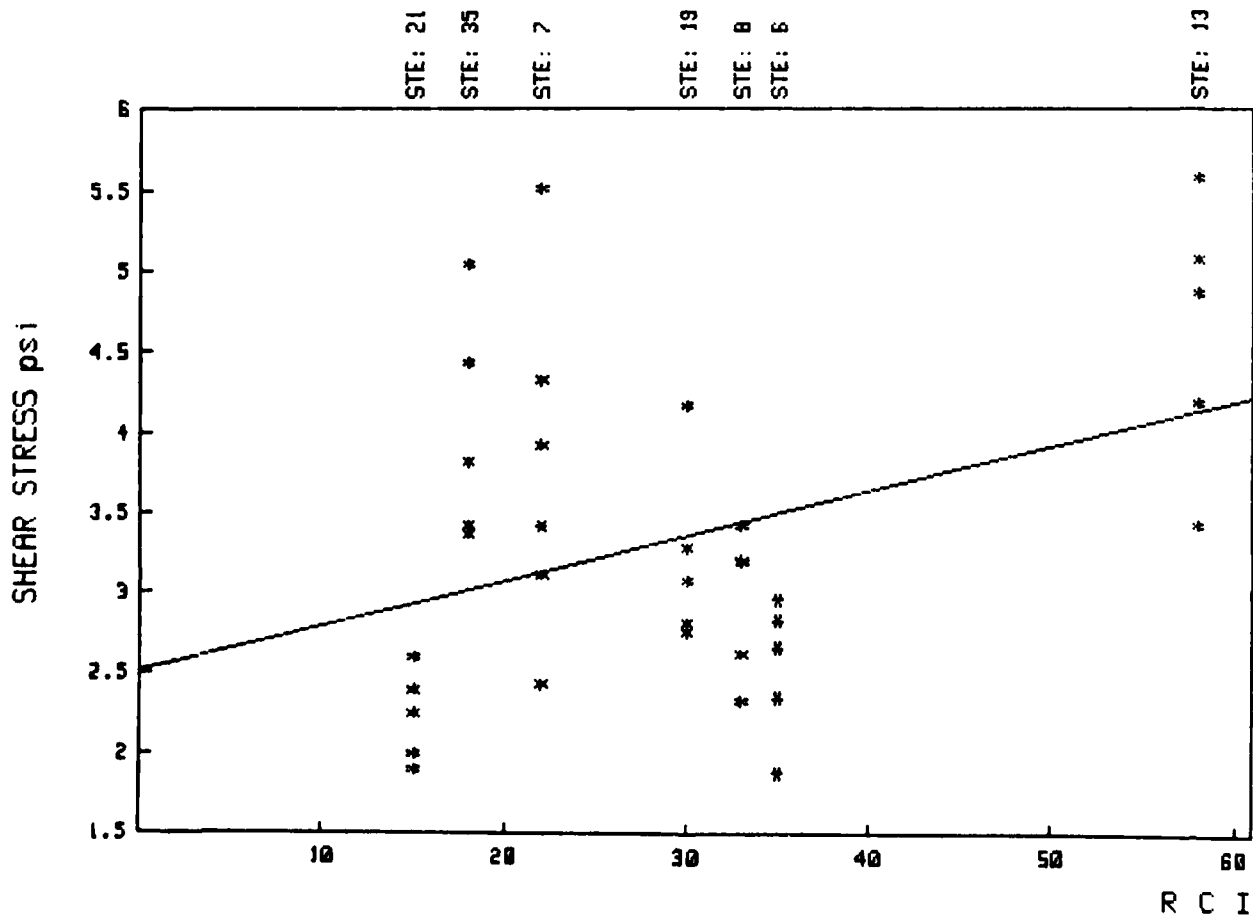


Fig. 4

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 7 8 13 19 21 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: Pt

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 3.56$$

$$b = 1.2979E-01$$

CORRELATION COEFFICIENT

$$R = .6442$$

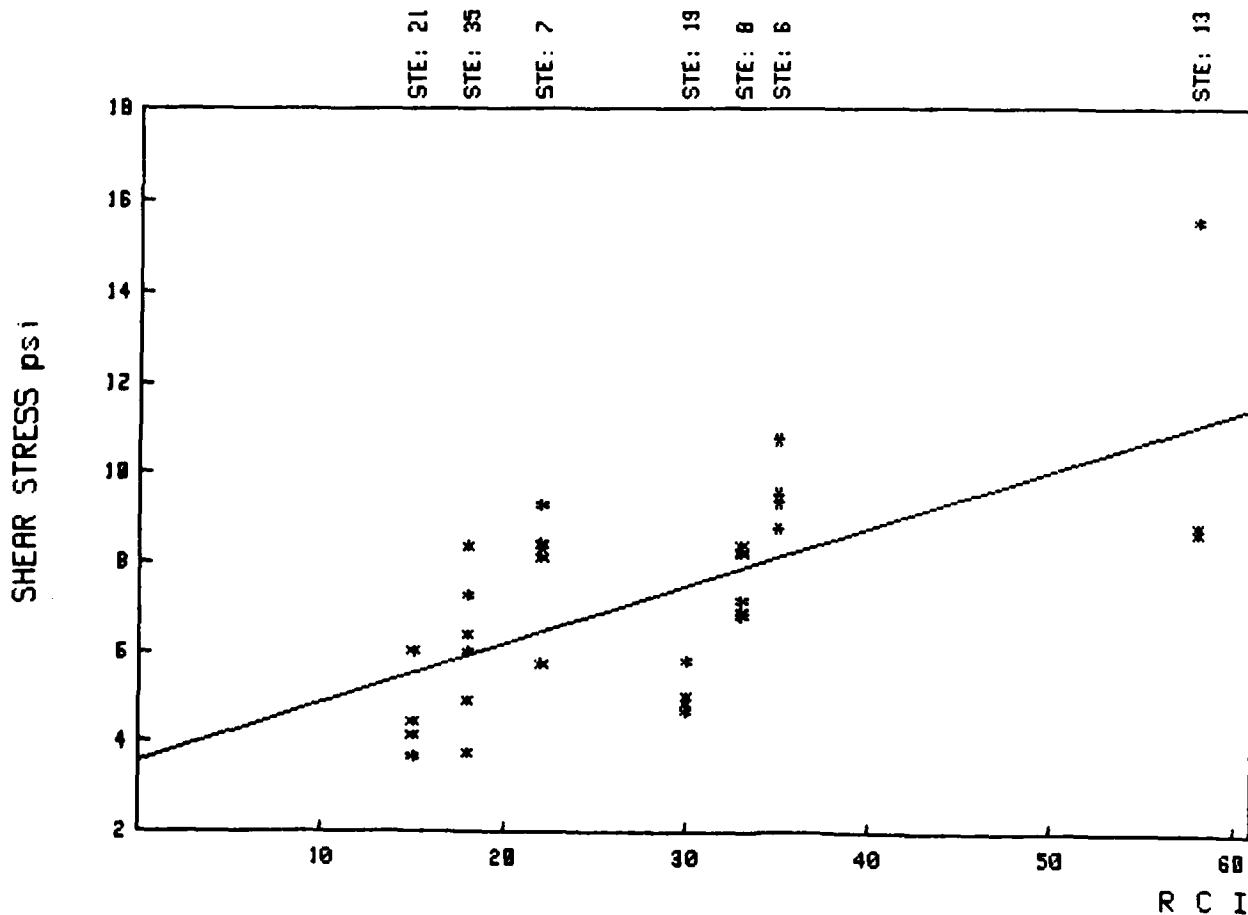


Fig. 5

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 7 8 13 19 21 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: Pt

LINEAR REGRESSION: $Y = a + b * X$

$a = 7.11$

$b = 6.3042E-02$

CORRELATION COEFFICIENT $R = .3301$

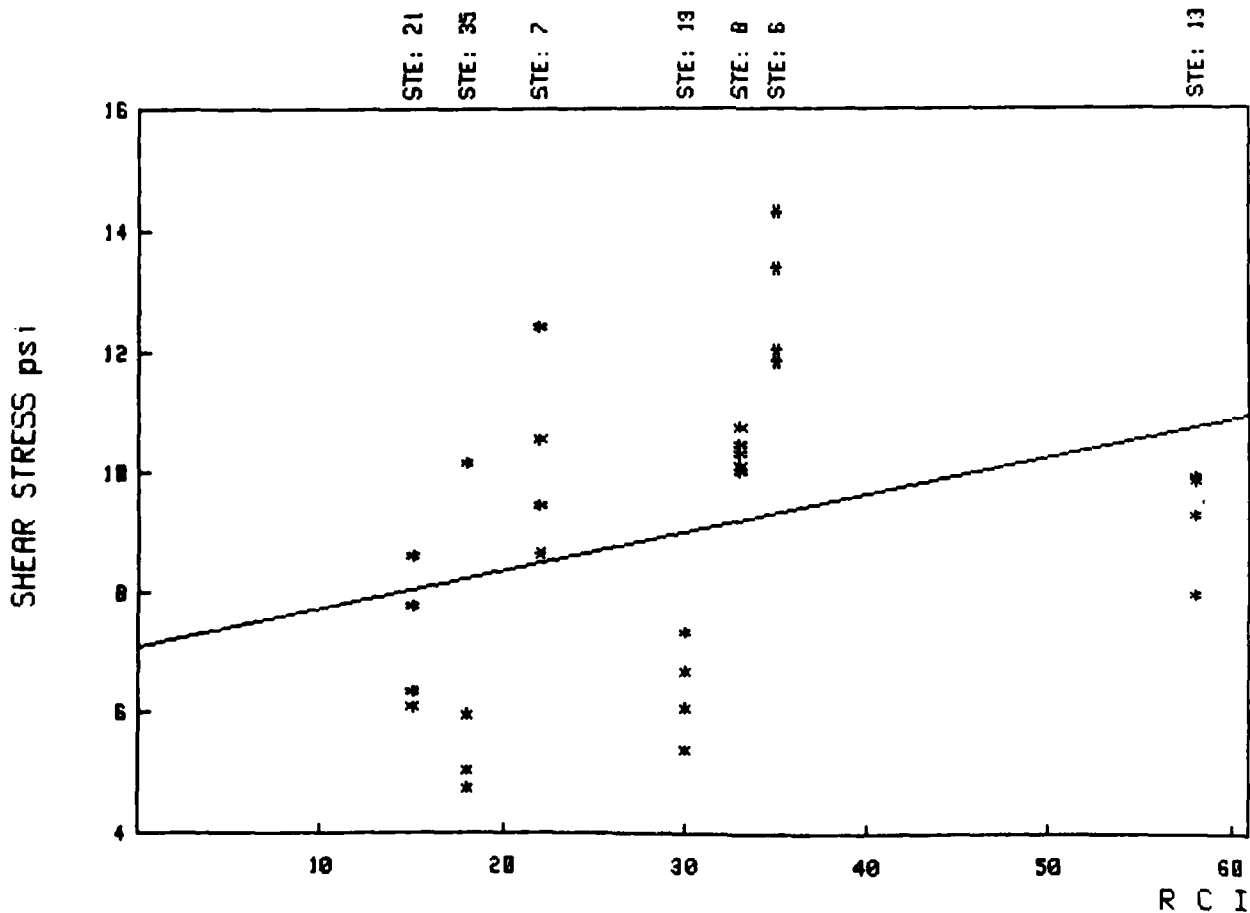


Fig. 6

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 7 8 13 19 21 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: Pt

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.96$$

$$b = 2.6570E-02$$

CORRELATION COEFFICIENT

$$R = .4324$$

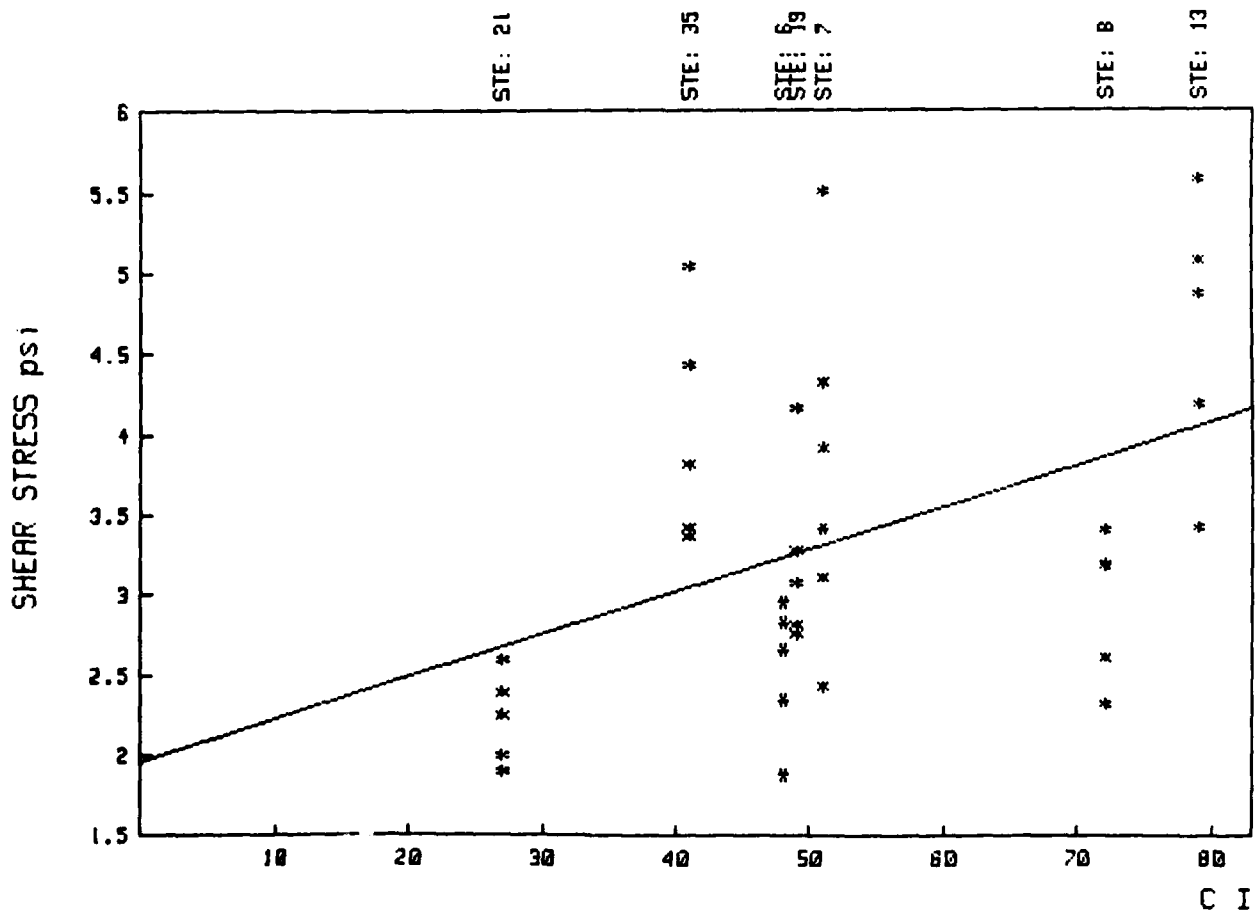


Fig. 7

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 7 8 13 19 21 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: Pt

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.80$$

$$b = 8.5450E-02$$

CORRELATION COEFFICIENT

$$R = .5619$$

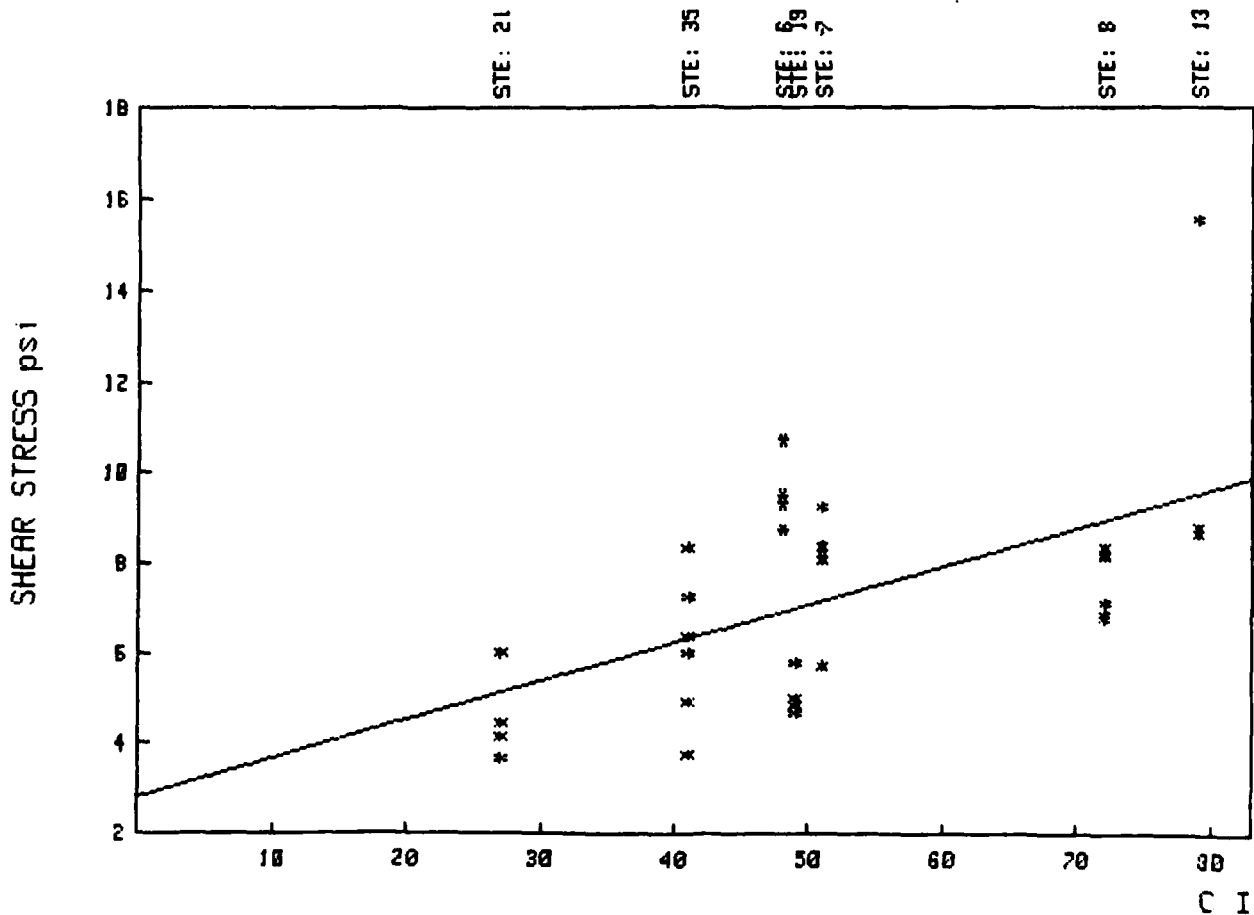


Fig. 8

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 7 8 13 19 21 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: Pt

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 6.25$$

$$b = 5.2160E-02$$

CORRELATION COEFFICIENT

$$R = .3444$$

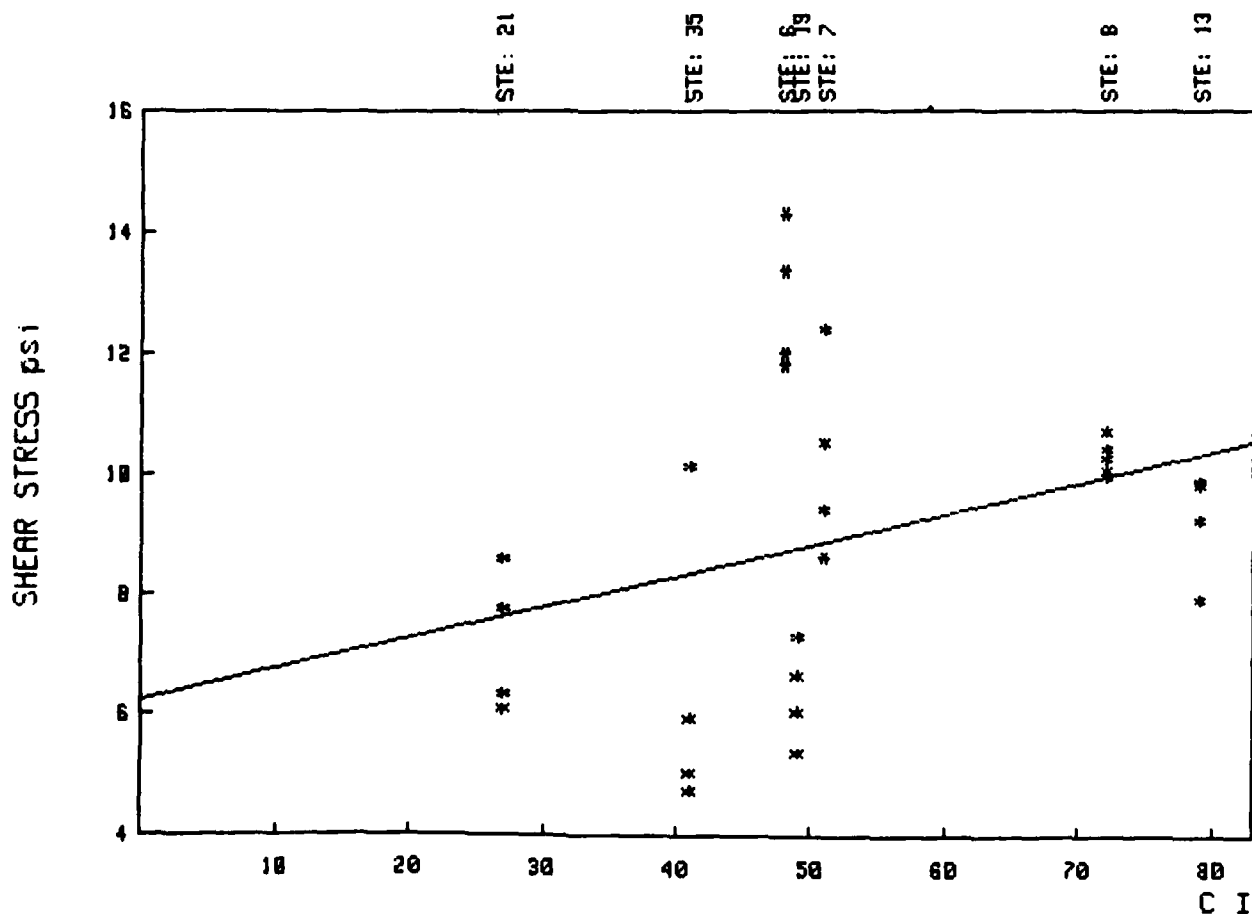


Fig. 9

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - APRIL 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 11

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: CL

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 6.88$$

$$b = -1.5621E-02$$

CORRELATION COEFFICIENT

$$R = -.1022$$

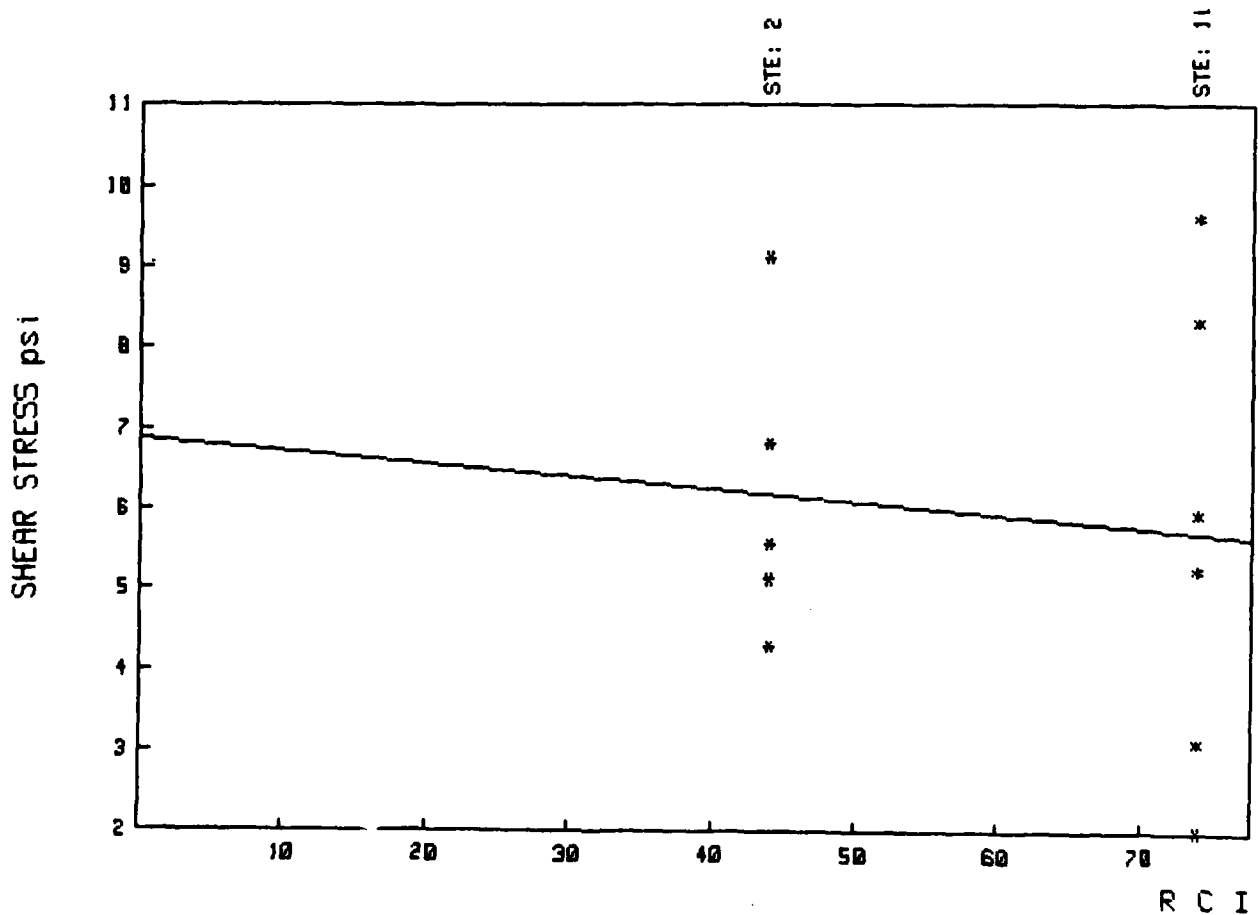


Fig. 10

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - APRIL 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 11

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: CL

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 10.65$$

$$b = 3.5833E-02$$

CORRELATION COEFFICIENT

$$R = .4598$$

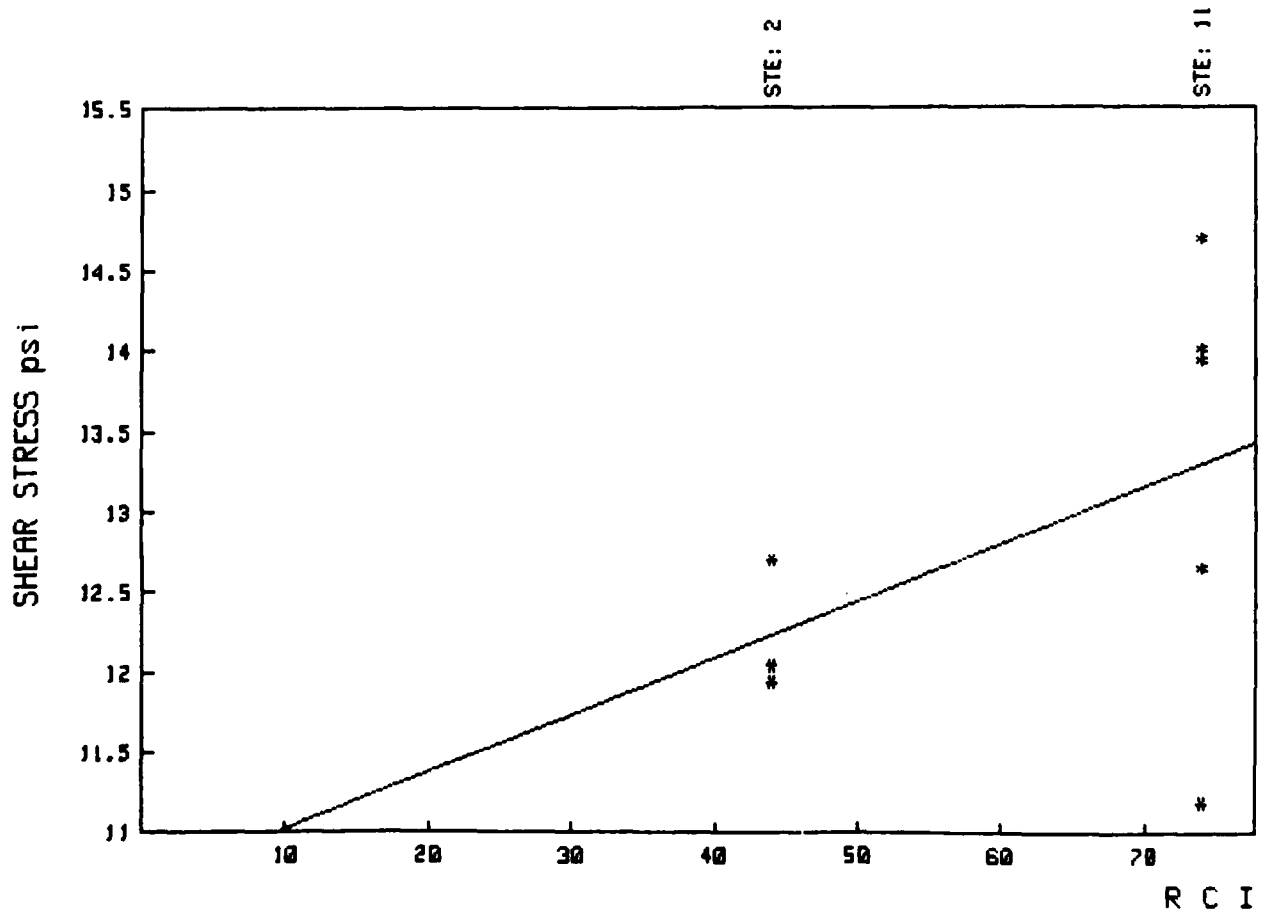


Fig. 11

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - APRIL 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 11

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: CL

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 5.76$$

$$b = 1.4523E-01$$

CORRELATION COEFFICIENT

$$R = .8509$$

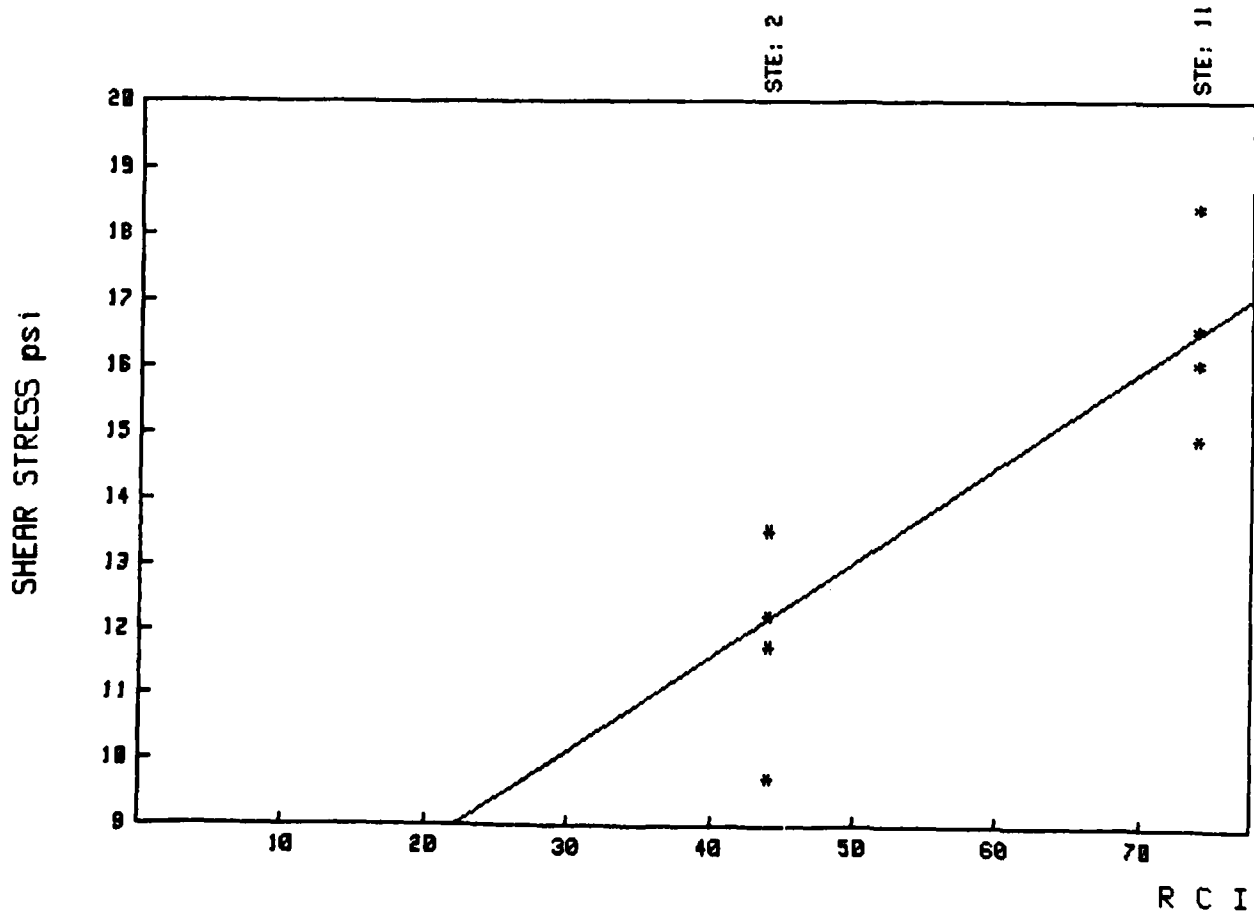


Fig. 12

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - APRIL 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 11

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: CL

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 7.18$$

$$b = -1.6737E-02$$

CORRELATION COEFFICIENT

$$R = -.1022$$

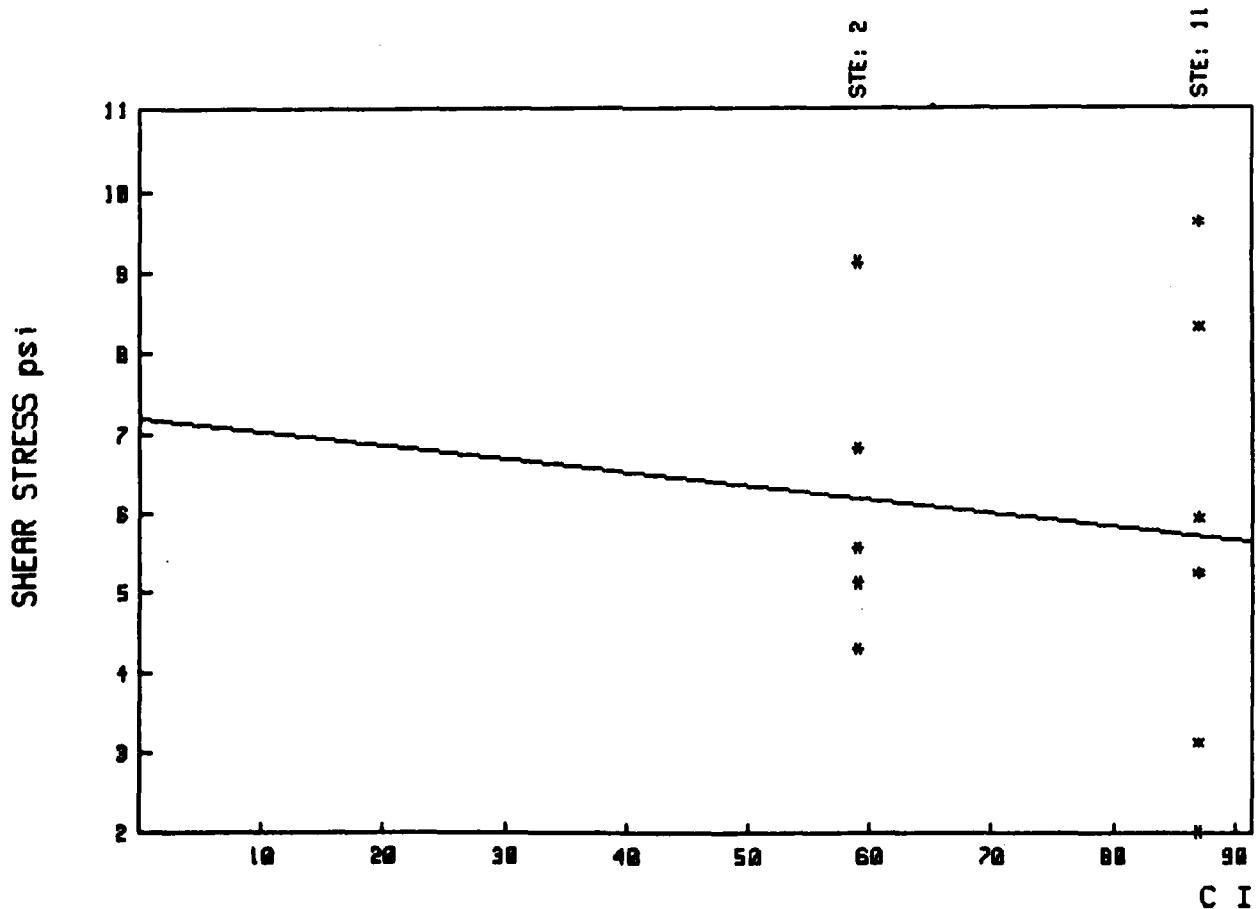


Fig. 13

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - APRIL 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 11

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: CL

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 9.96$$

$$b = 3.8392E-02$$

CORRELATION COEFFICIENT

$$R = .4598$$

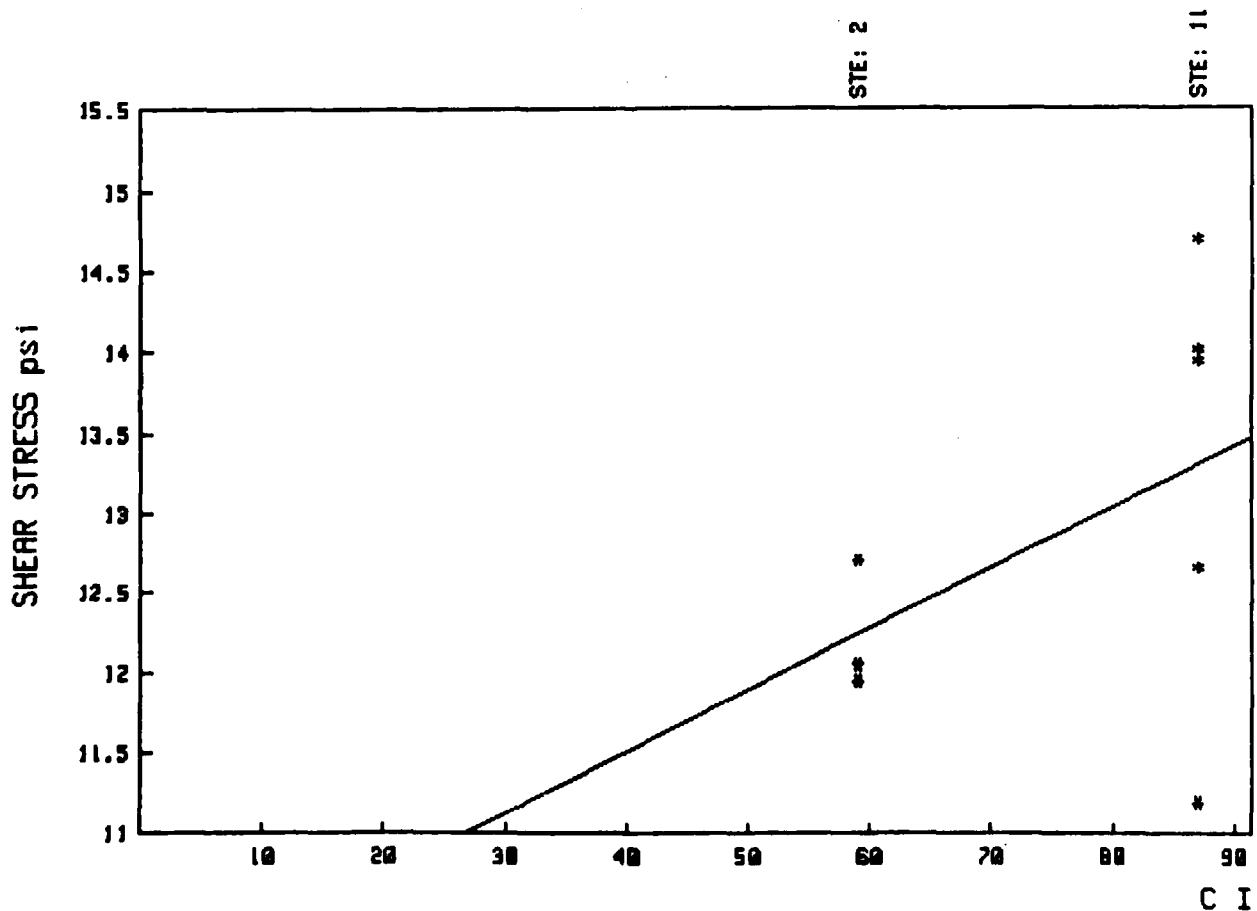


Fig. 14

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - APRIL 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 11

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: CL

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.97$$

$$b = 1.5560E-01$$

CORRELATION COEFFICIENT

$$R = .8509$$

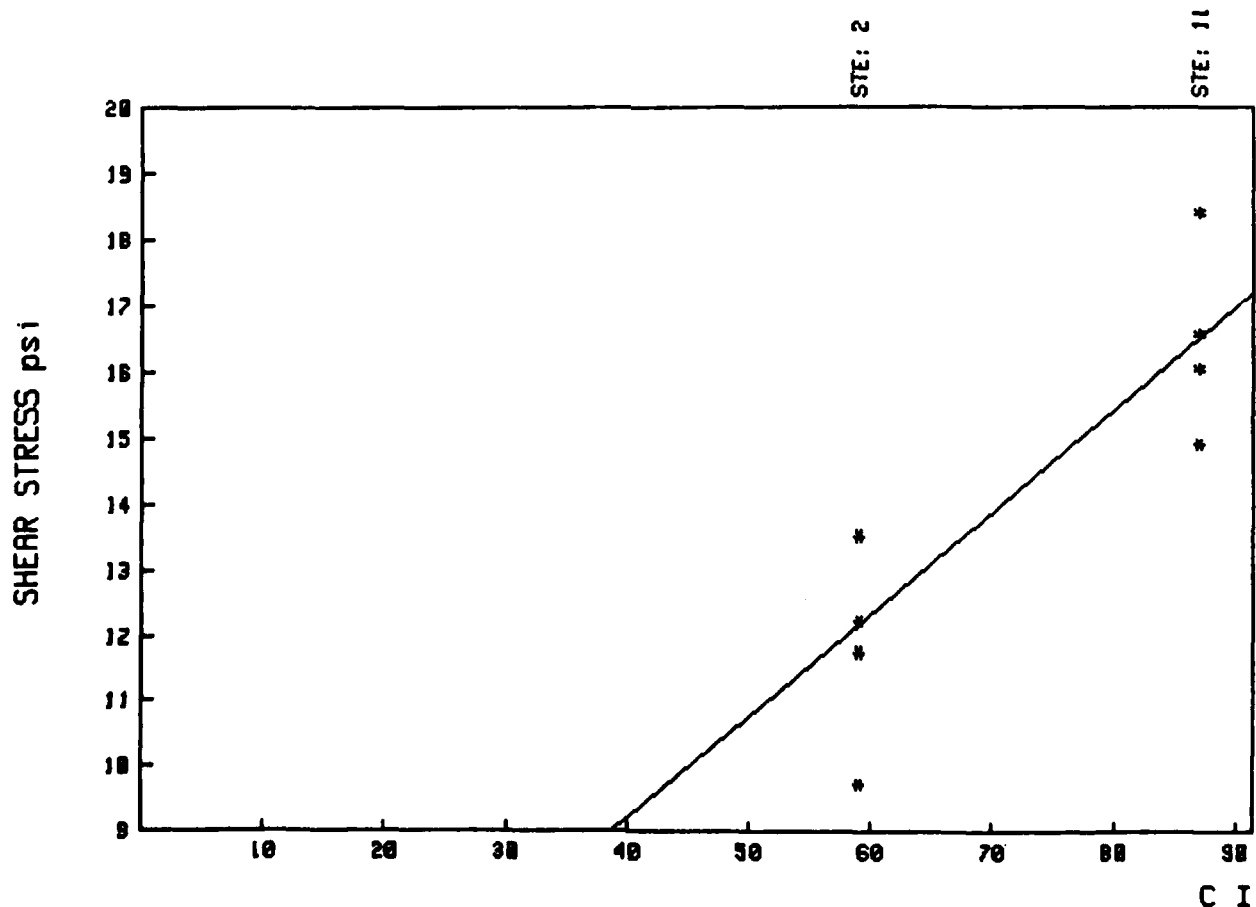


Fig. 15

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

9 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: ML

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 6.38$$

$$b = -2.1102E-01$$

CORRELATION COEFFICIENT

$$R = -.3679$$

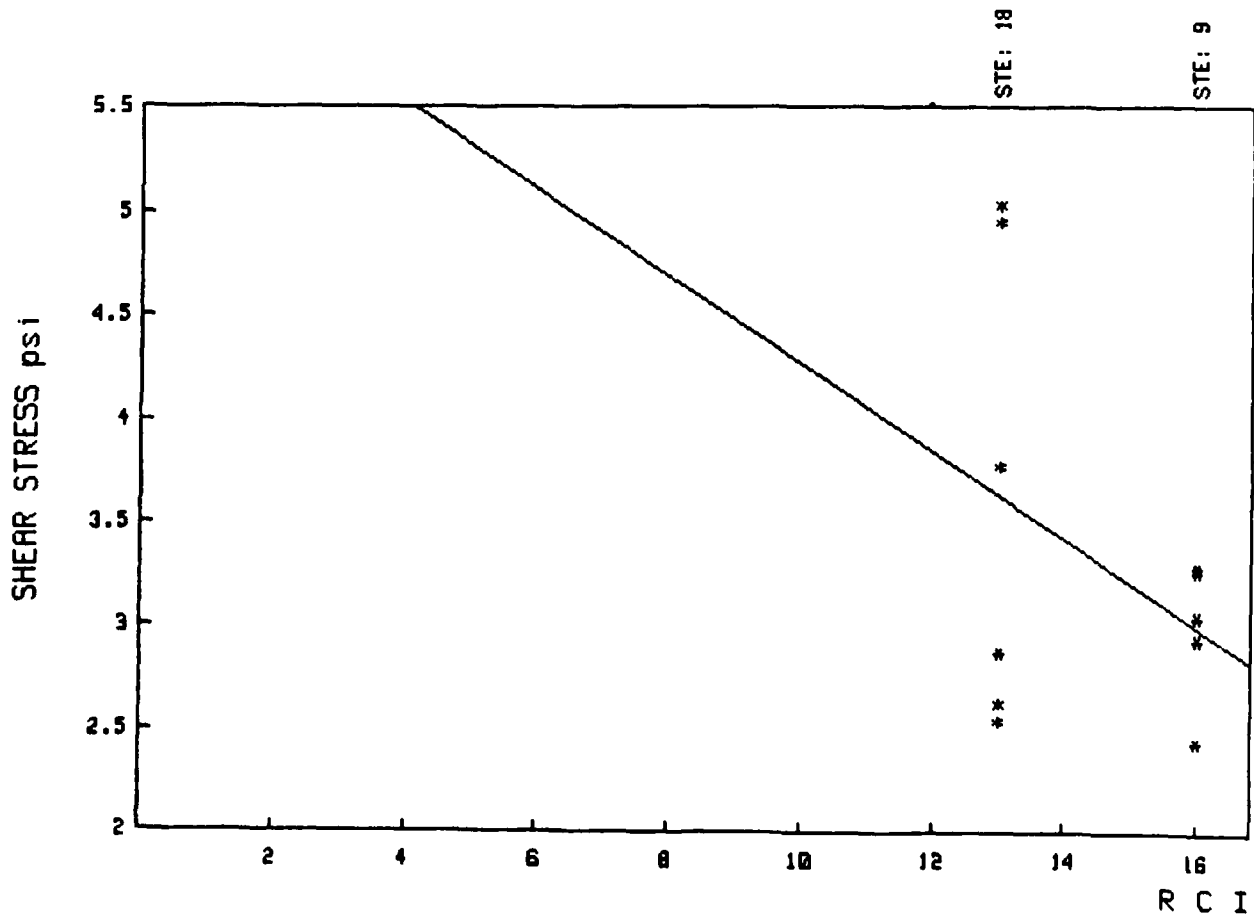


Fig. 16

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

9 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: ML

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.91$$

$$b = 2.6849E-01$$

CORRELATION COEFFICIENT

$$R = .2996$$

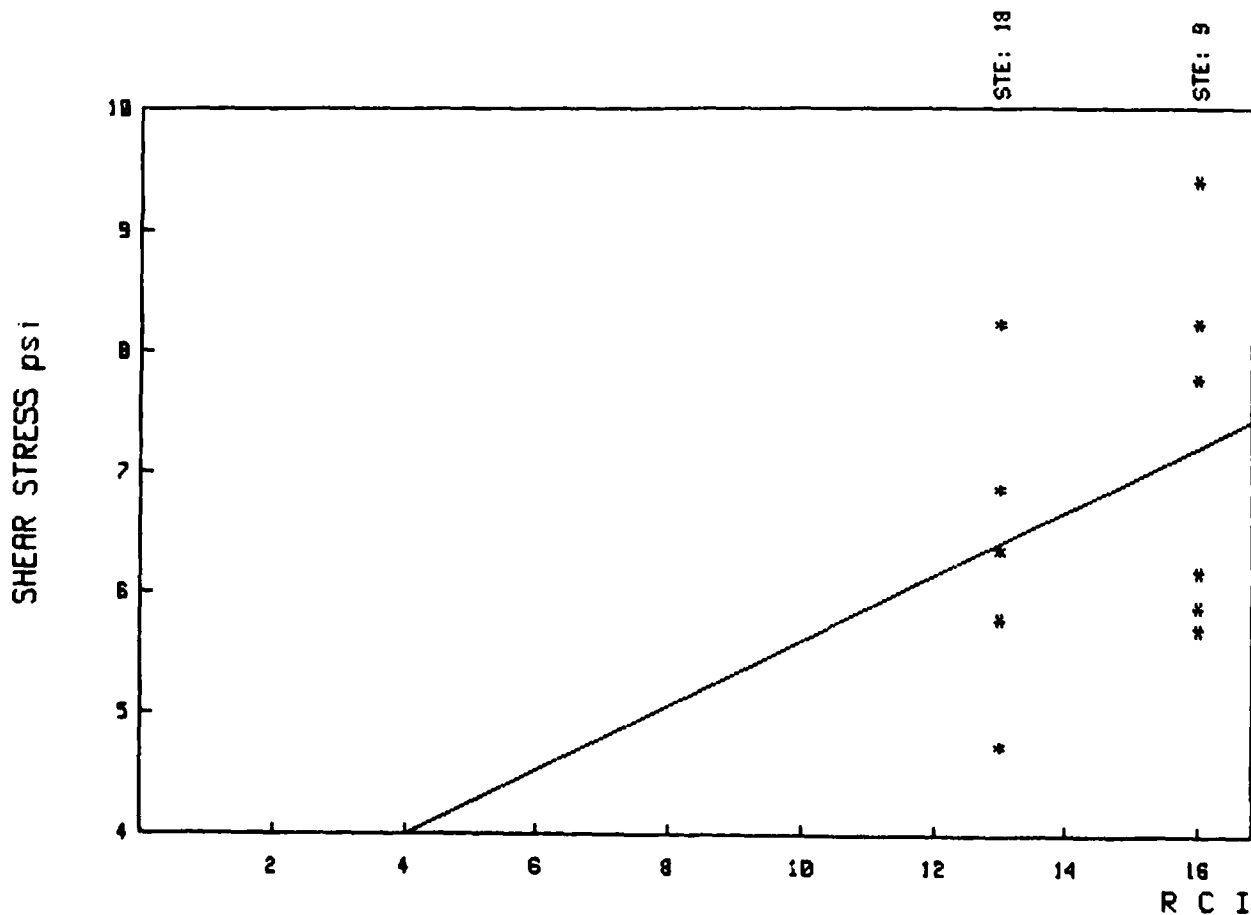


Fig. 17

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

9 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: ML

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 4.42$$

$$b = 2.8941E-01$$

CORRELATION COEFFICIENT

$$R = .2728$$

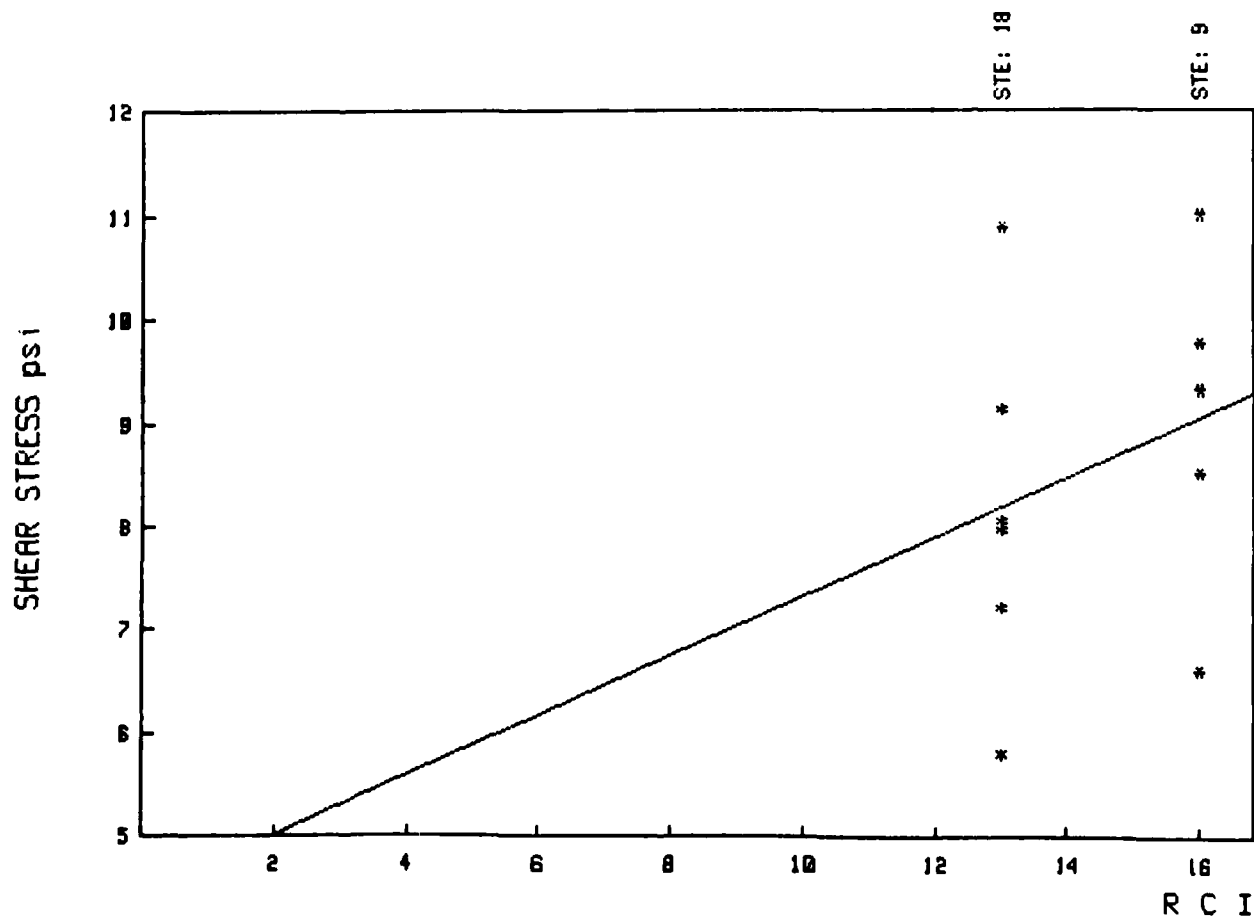


Fig. 18

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

9 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: ML

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -4.17$$

$$b = 2.1102E-01$$

CORRELATION COEFFICIENT

$$R = .3679$$

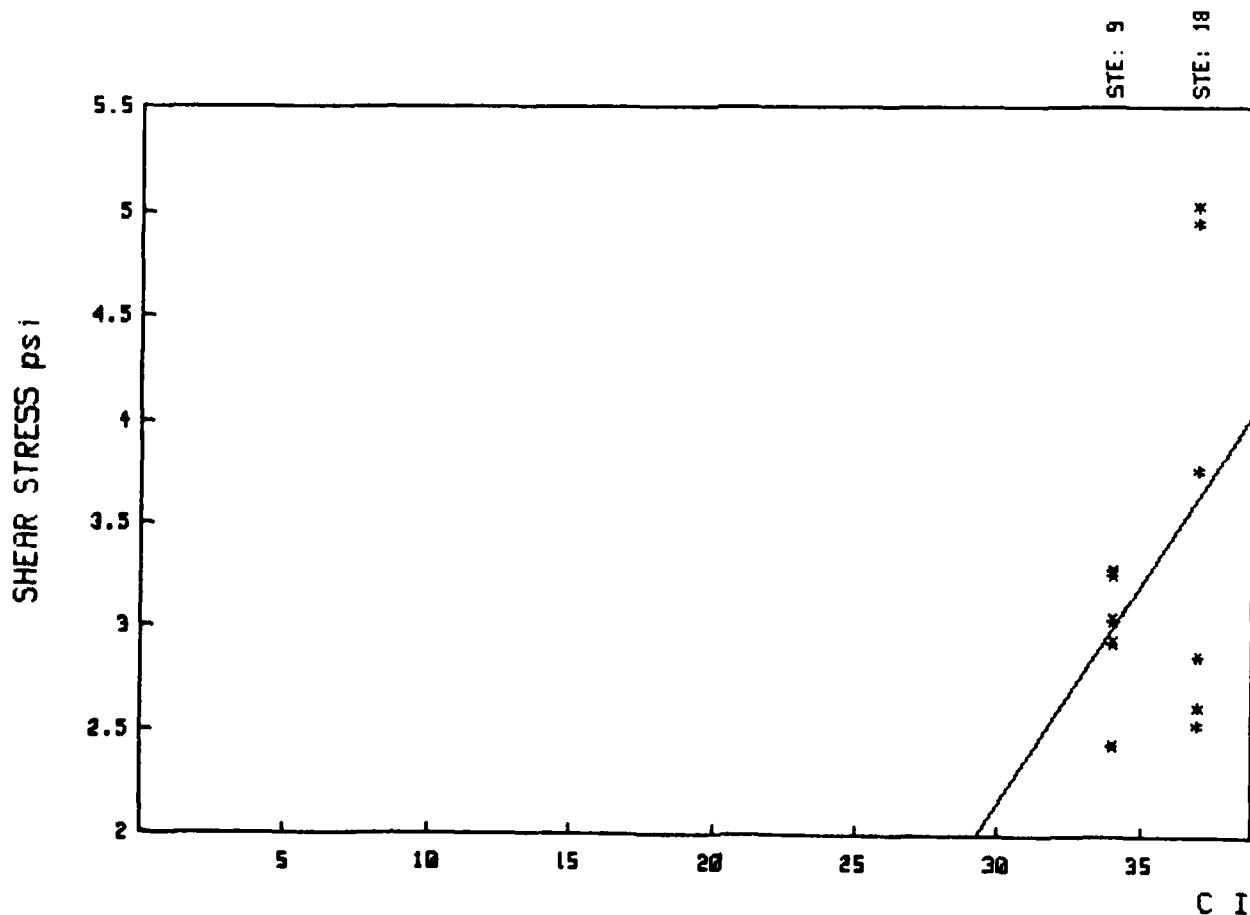


Fig. 19

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

9 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: ML

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 16.33$$

$$b = -2.6849E-01$$

CORRELATION COEFFICIENT

$$R = -.2996$$

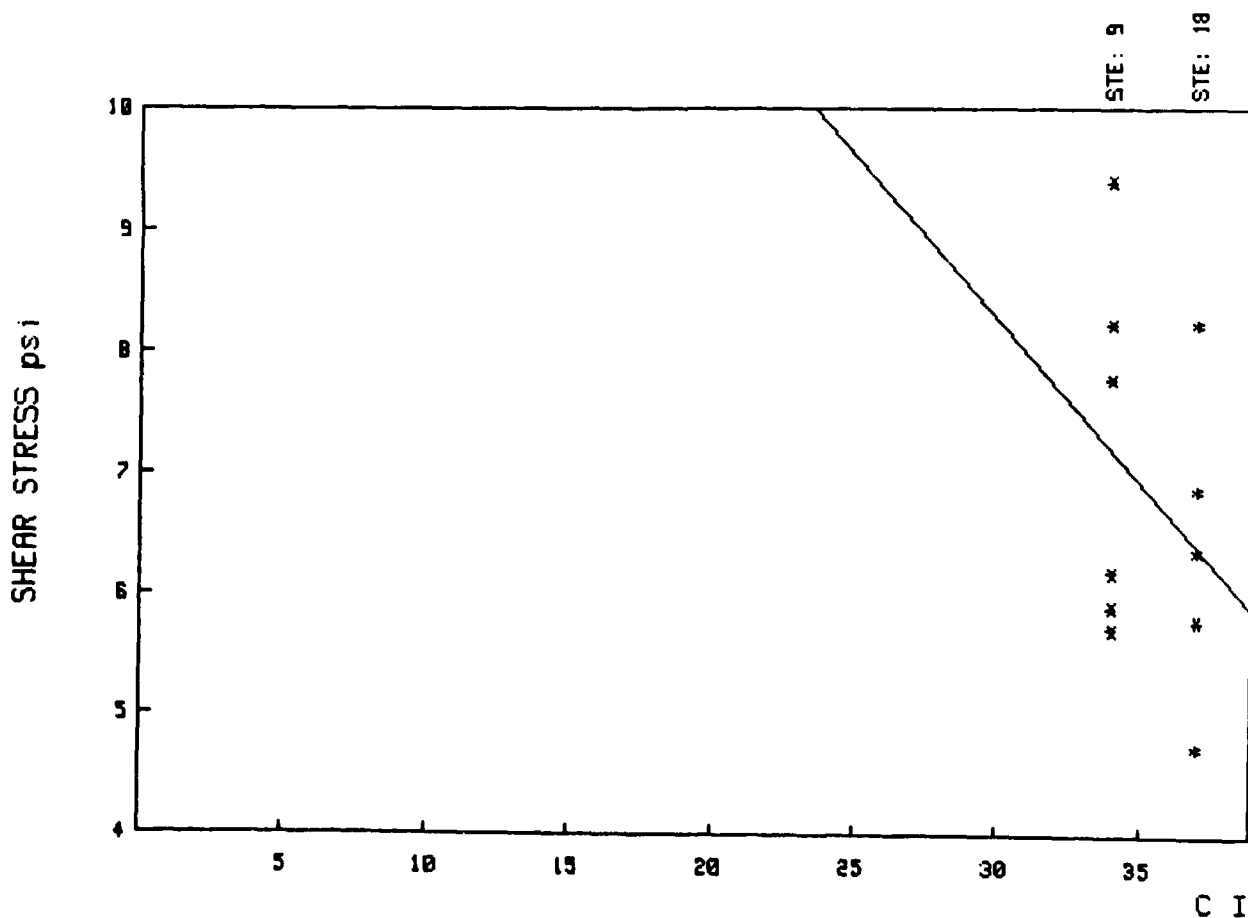


Fig. 20

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

9 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: ML

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 18.89$$

$$b = -2.8941E-01$$

CORRELATION COEFFICIENT

$$R = -.2728$$

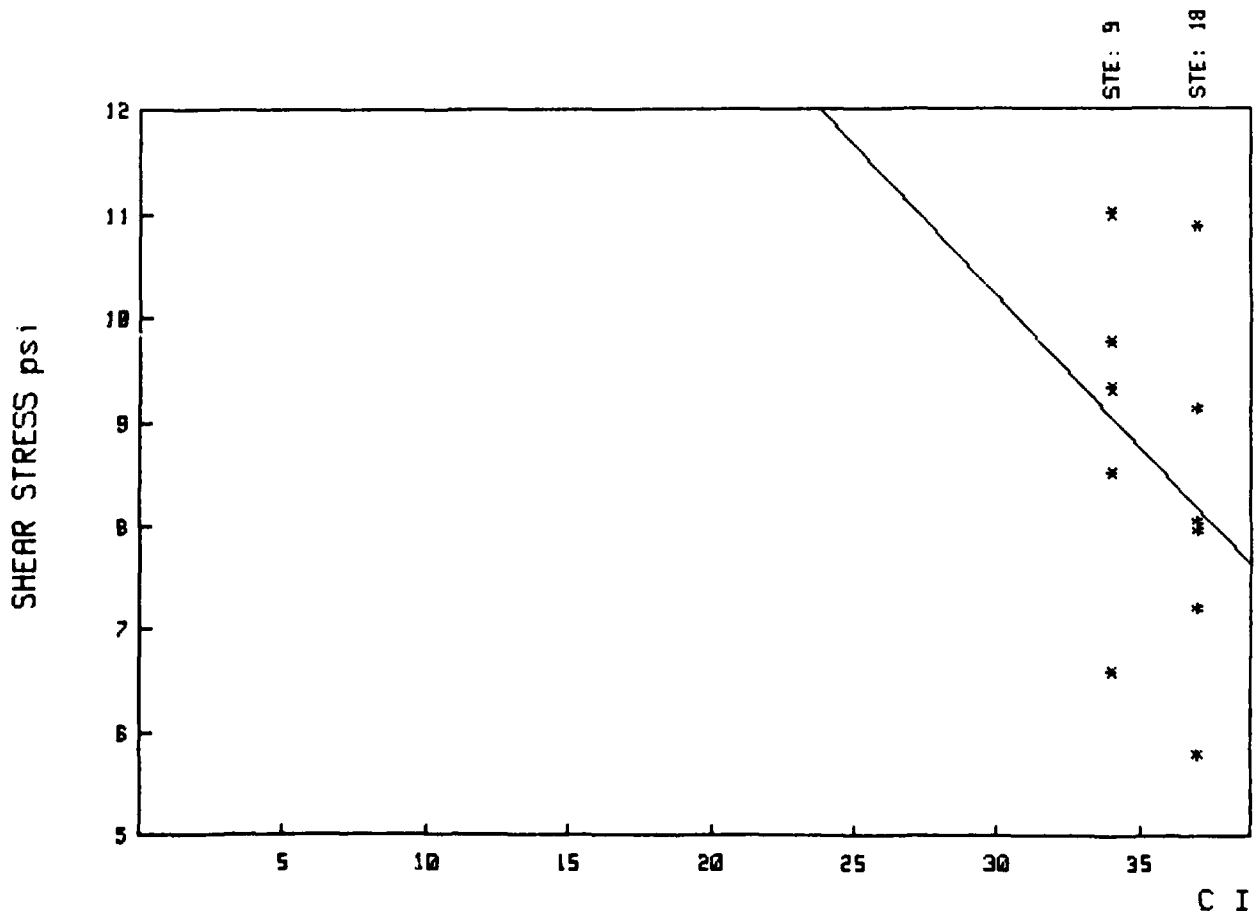


Fig. 21

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: SM

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.68$$

$$b = 7.6940E-02$$

CORRELATION COEFFICIENT

$$R = .6101$$

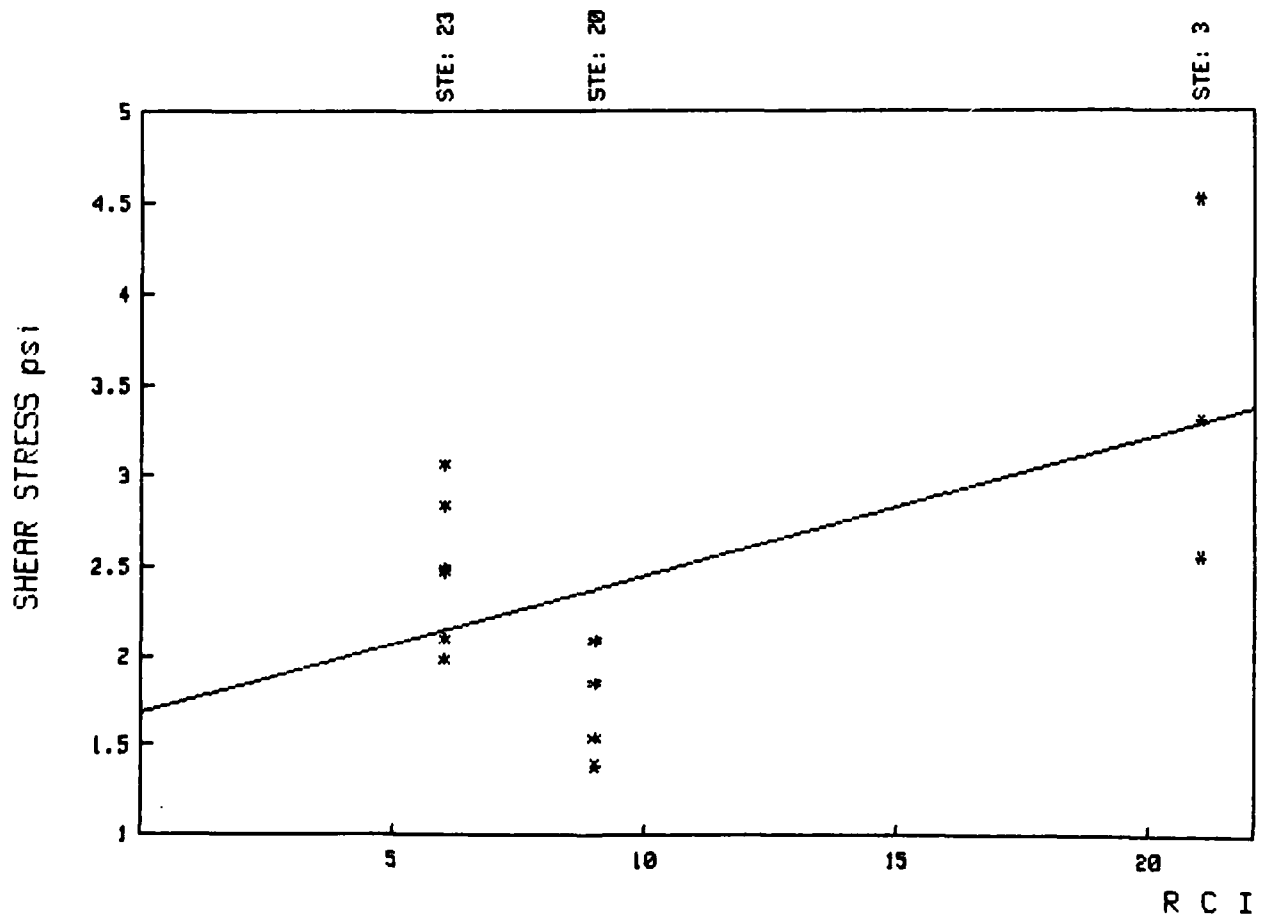


Fig. 22

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: SM

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 3.18$$

$$b = 2.4880E-01$$

CORRELATION COEFFICIENT

$$R = .6411$$

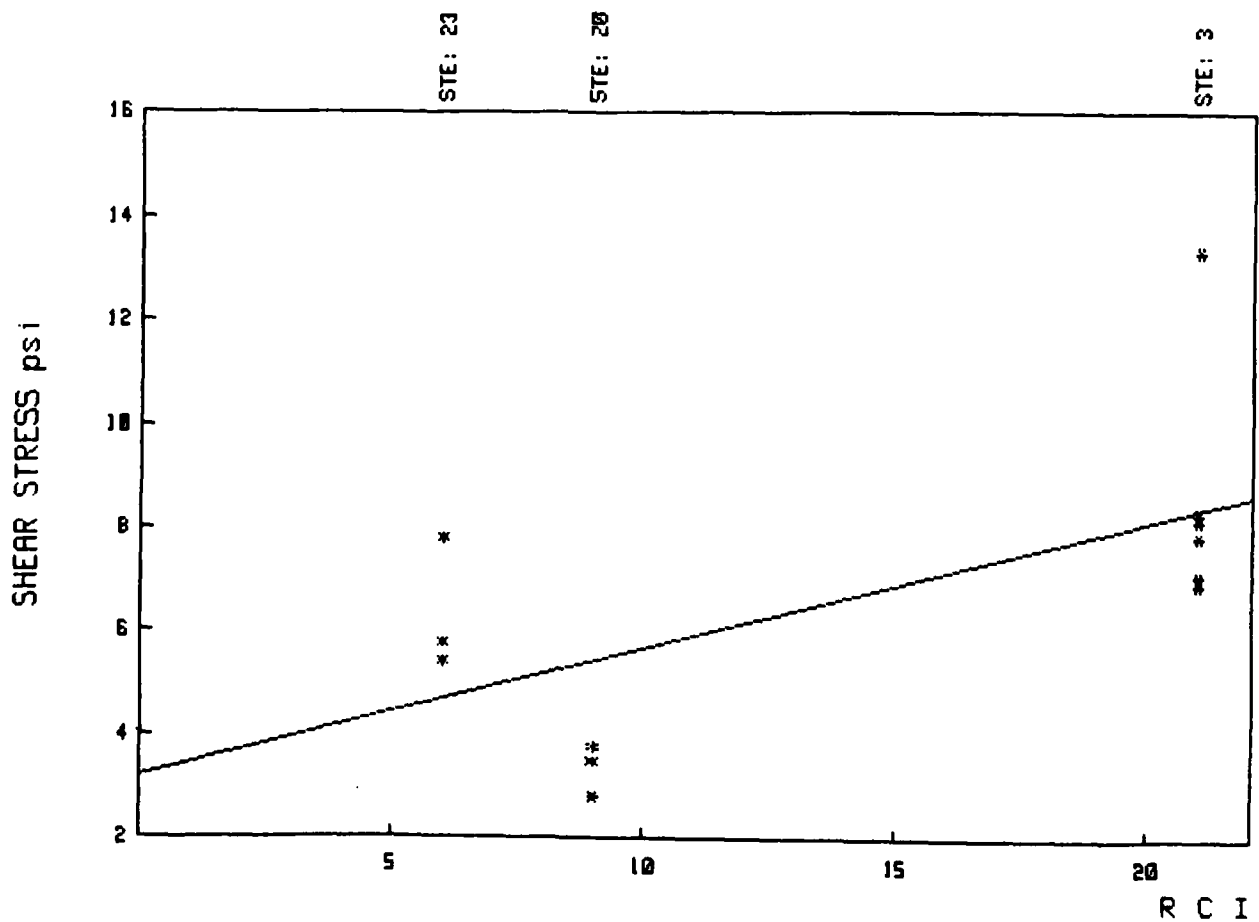


Fig. 23

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: SM

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 5.86$$

$$b = 1.1954E-01$$

CORRELATION COEFFICIENT

$$R = .2688$$

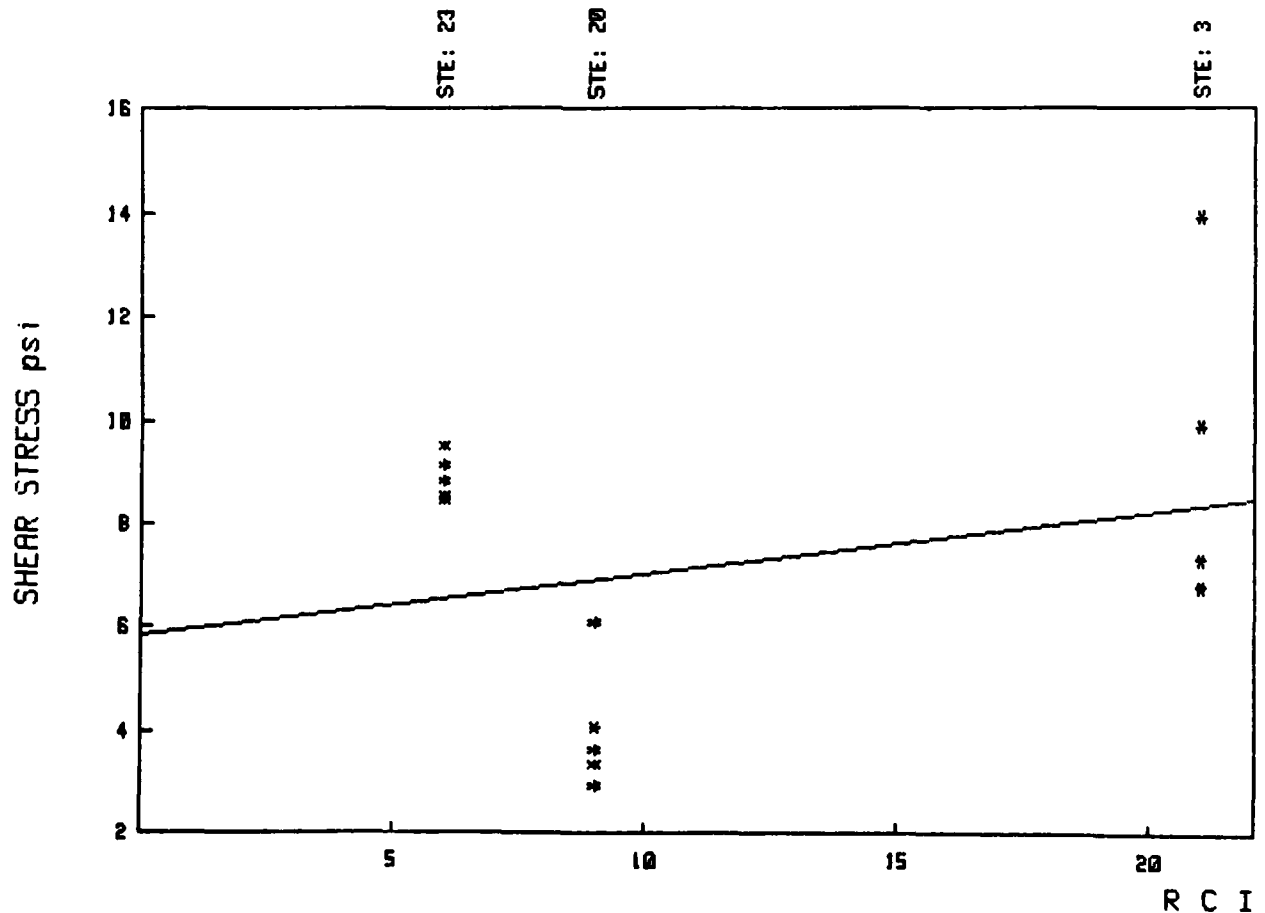


Fig. 24

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: SM

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.55$$

$$b = 3.6452E-02$$

CORRELATION COEFFICIENT

$$R = .6905$$

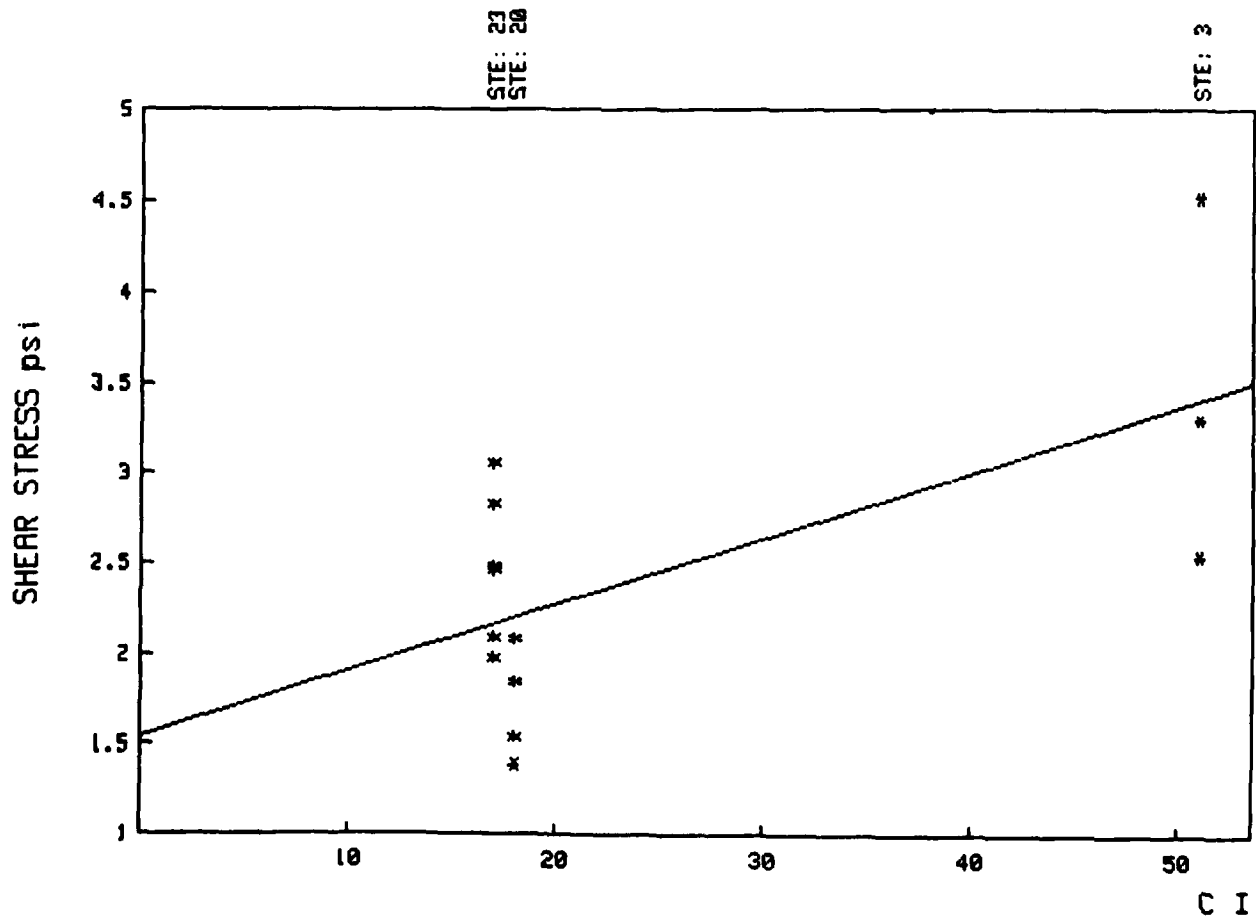


Fig. 25

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: SM

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.93$$

$$b = 1.1046E-01$$

CORRELATION COEFFICIENT

$$R = .6985$$

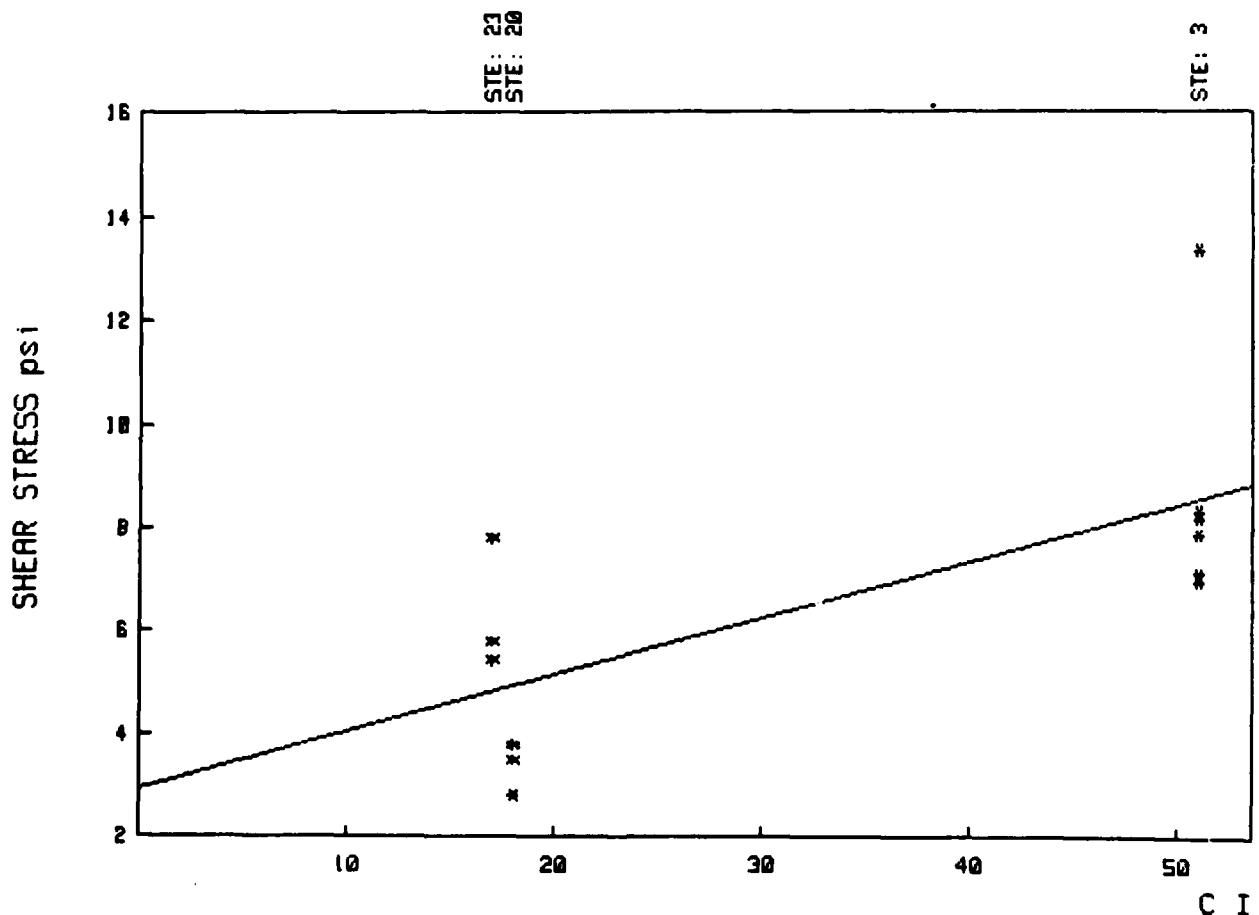


Fig. 26

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: SM

LINEAR REGRESSION:

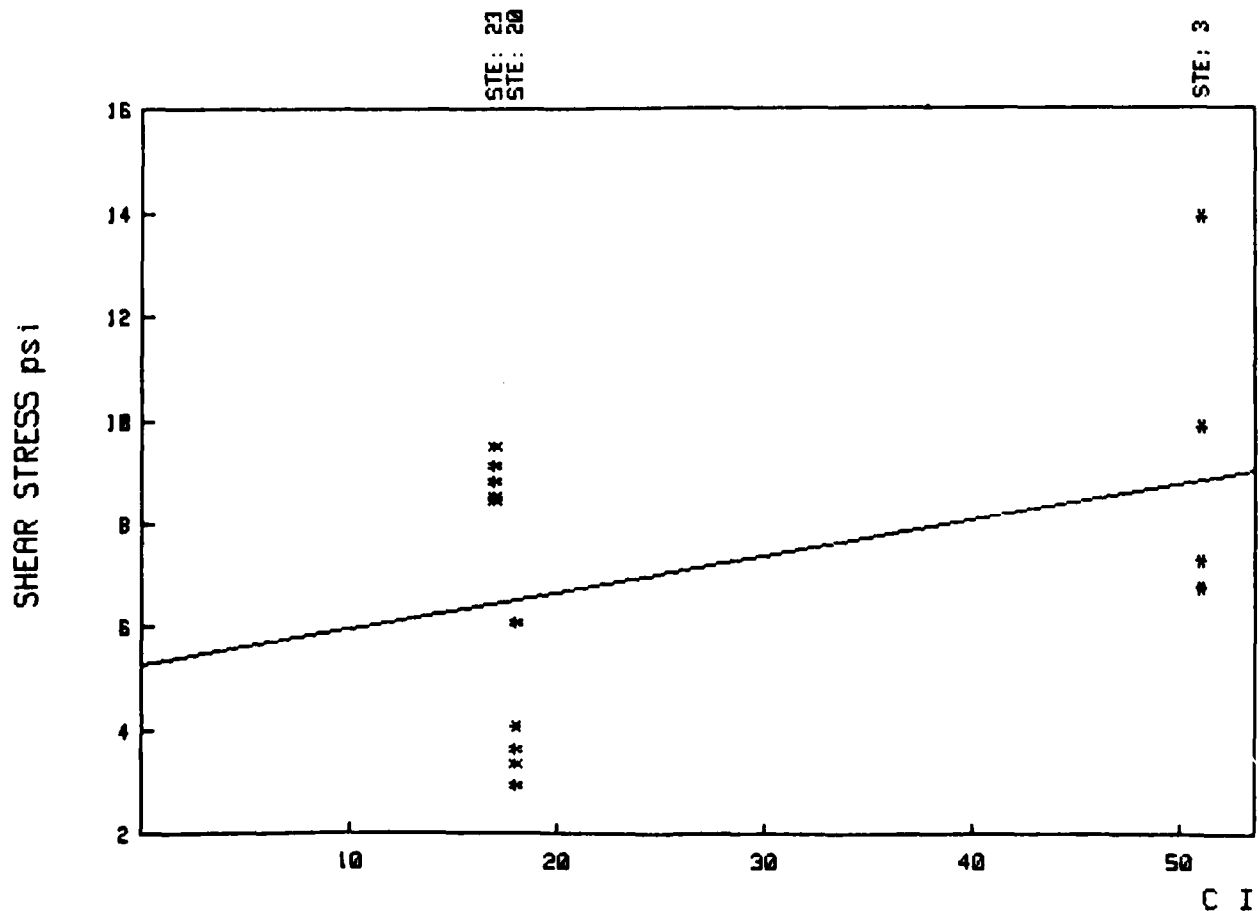
$$Y = a + b * X$$

$$a = 5.26$$

$$b = 7.0928E-02$$

CORRELATION COEFFICIENT

$$R = .3887$$



INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 14 25 27 28 31 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: OH

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .76$$

$$b = 1.1157E-01$$

CORRELATION COEFFICIENT

$$R = .3856$$

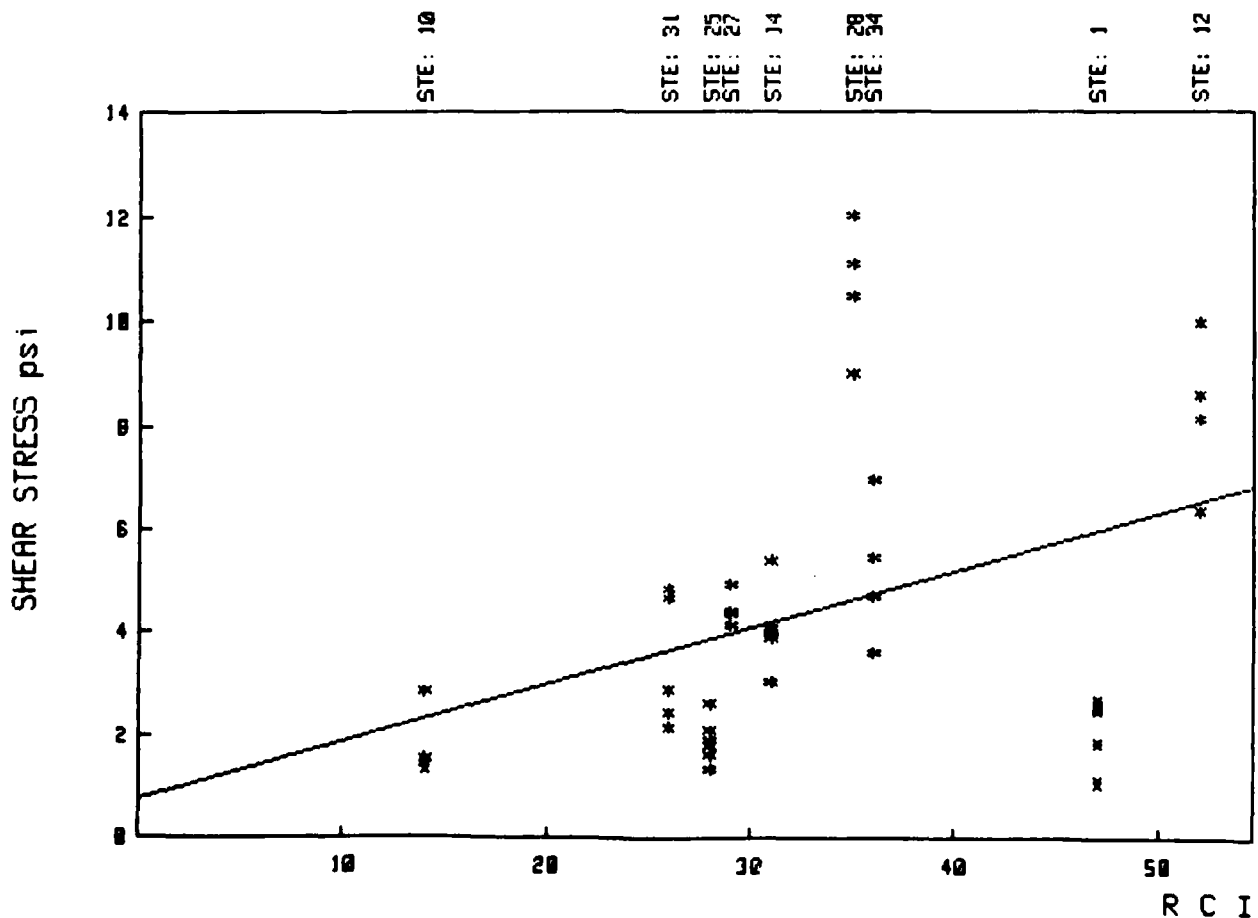


Fig. 28

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 14 25 27 28 31 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: OH

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .16$$

$$b = 2.8023E-01$$

CORRELATION COEFFICIENT

$$R = .6834$$

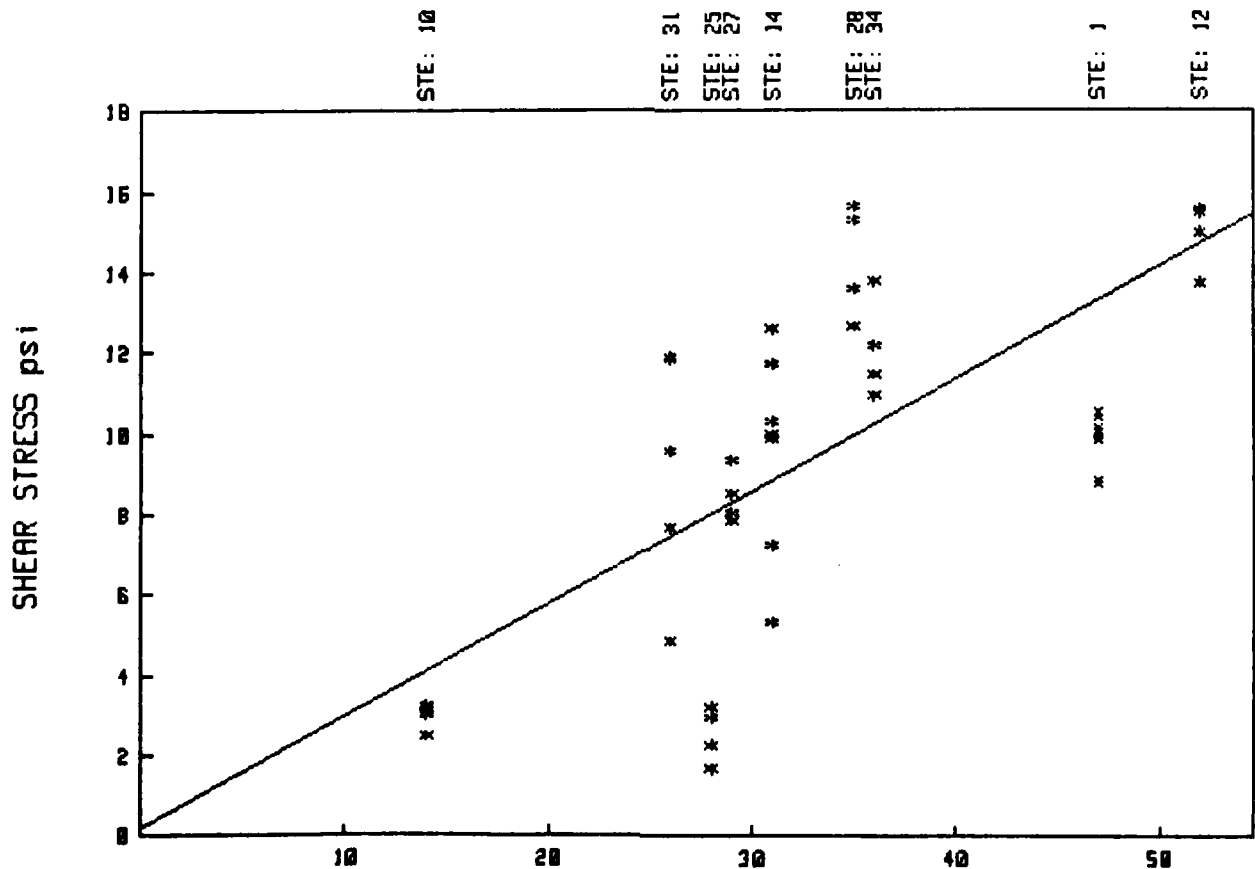


Fig. 29

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 14 25 27 28 31 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: OH

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .37$$

$$b = 3.3527E-01$$

CORRELATION COEFFICIENT

$$R = .6847$$

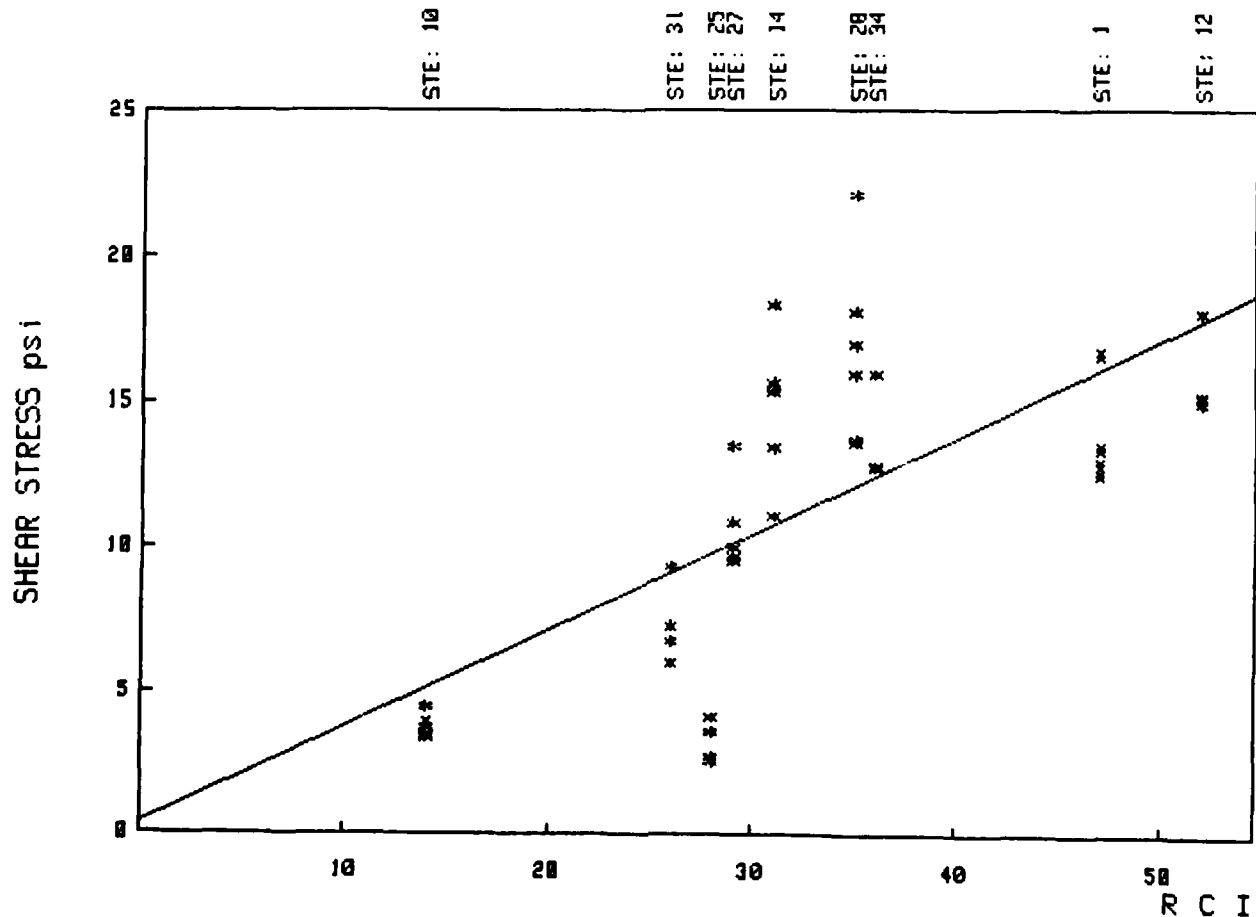


Fig. 30

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

VALLEY OF INSTITUTE FOR TRANSPORTATION RESEARCH

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 14 25 27 28 31 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, SOIL TYPE: OH

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -.55$$

$$b = 8.6656E-02$$

CORRELATION COEFFICIENT

$$R = .4577$$

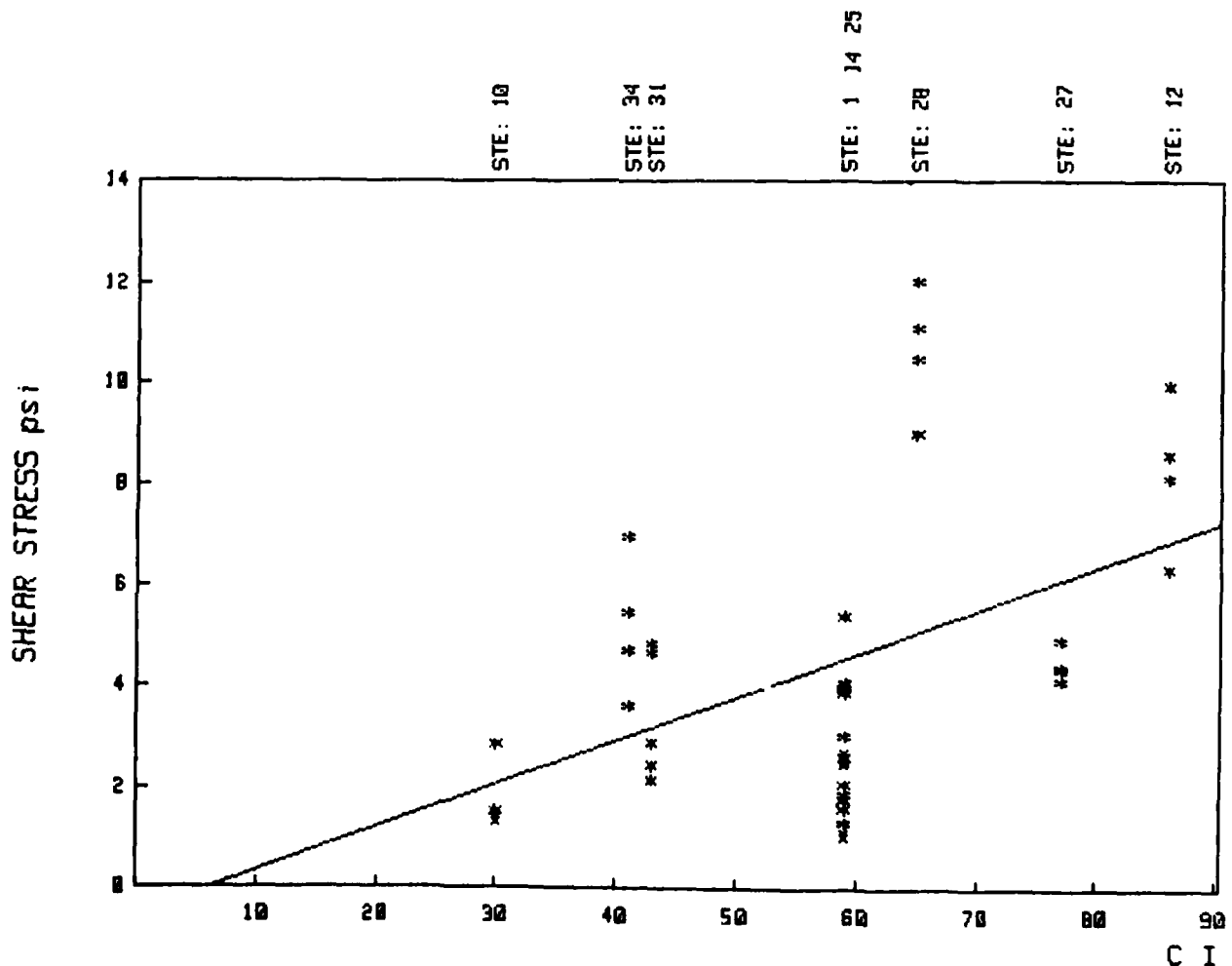


Fig. 31

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 14 25 27 28 31 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, SOIL TYPE: OH

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.50$$

$$b = 1.1920E-01$$

CORRELATION COEFFICIENT

$$R = .4551$$

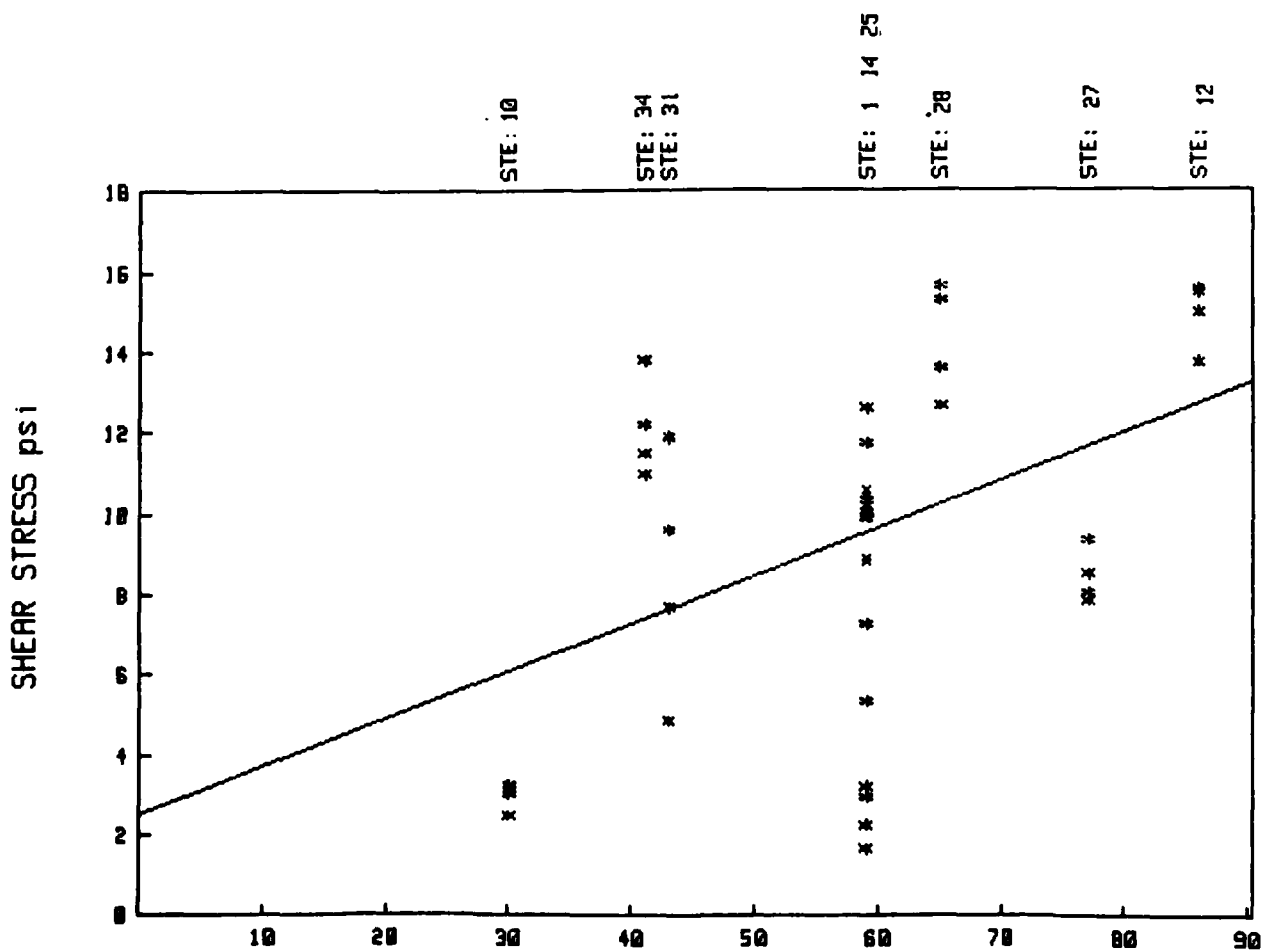


Fig. 32

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 14 25 27 28 31 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, SOIL TYPE: OH

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.51$$

$$b = 1.6905E-01$$

CORRELATION COEFFICIENT

$$R = .5278$$

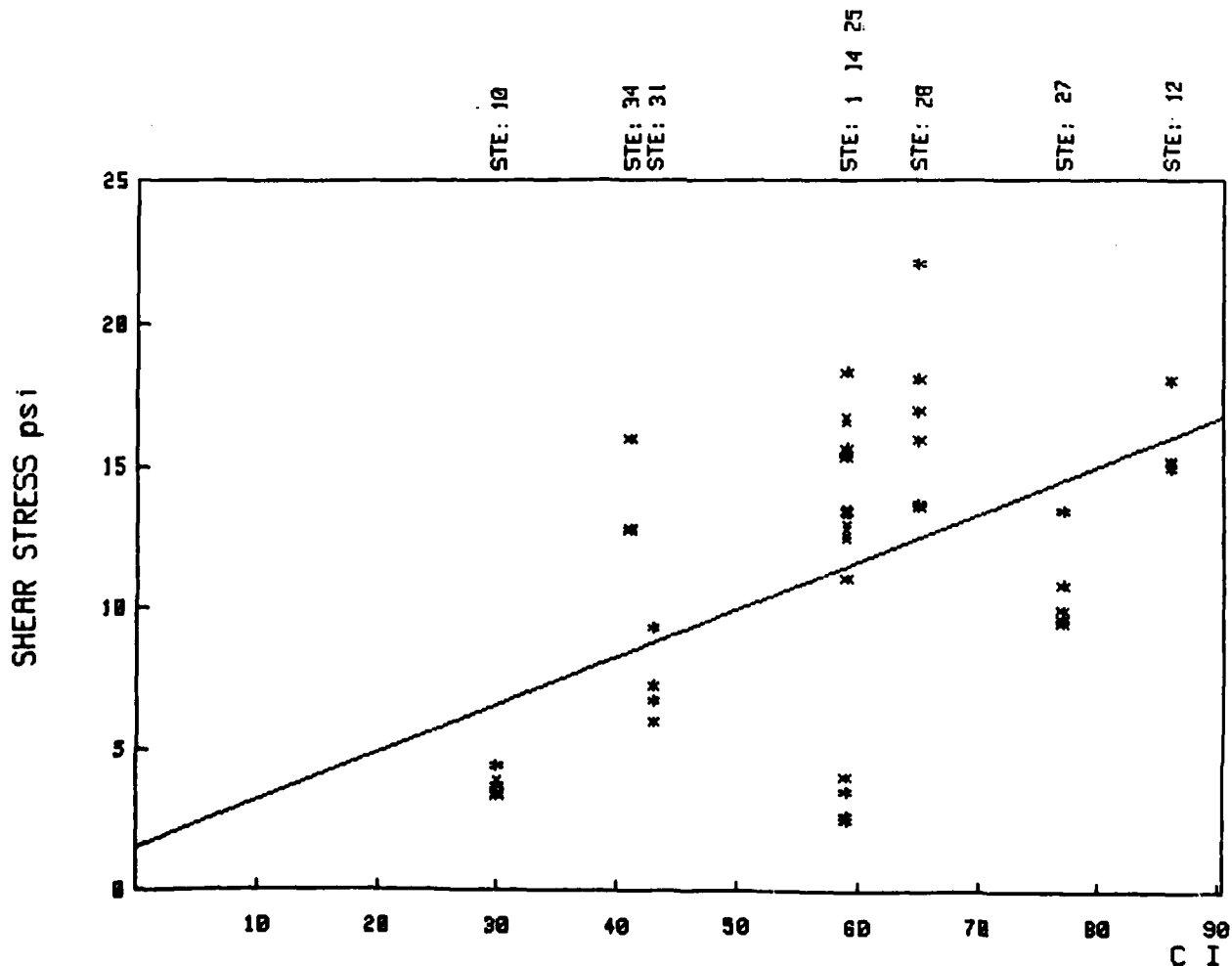


Fig. 33

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Soil Type = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 2 9 11 12 14 18 23 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, MOISTURE CONTENT: 20-50%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.46$$

$$b = 5.2217E-02$$

CORRELATION COEFFICIENT

$$R = .5015$$

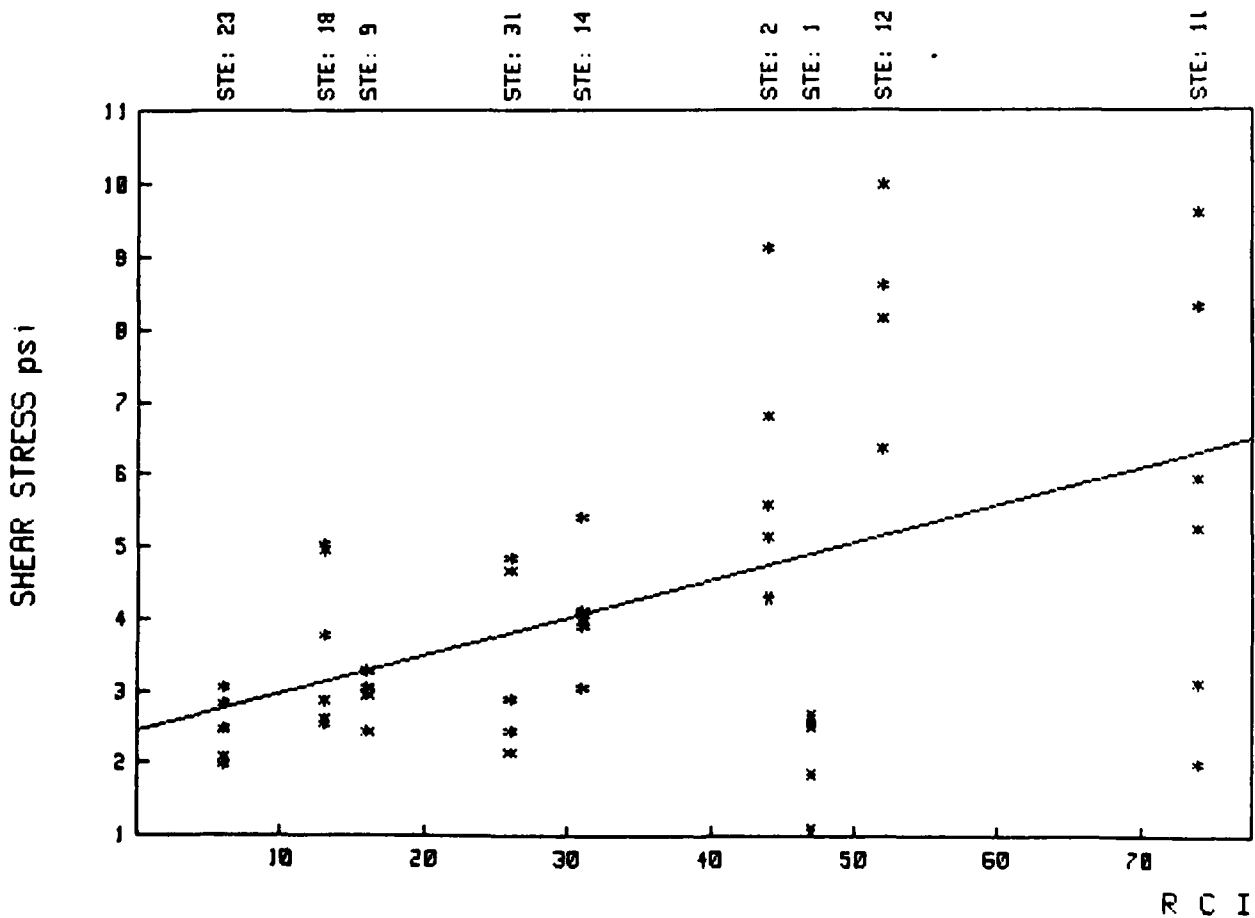


Fig. 34

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 2 9 11 12 14 18 23 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, MOISTURE CONTENT: 20-50%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 5.59$$

$$b = 1.2277E-01$$

CORRELATION COEFFICIENT

$$R = .7764$$

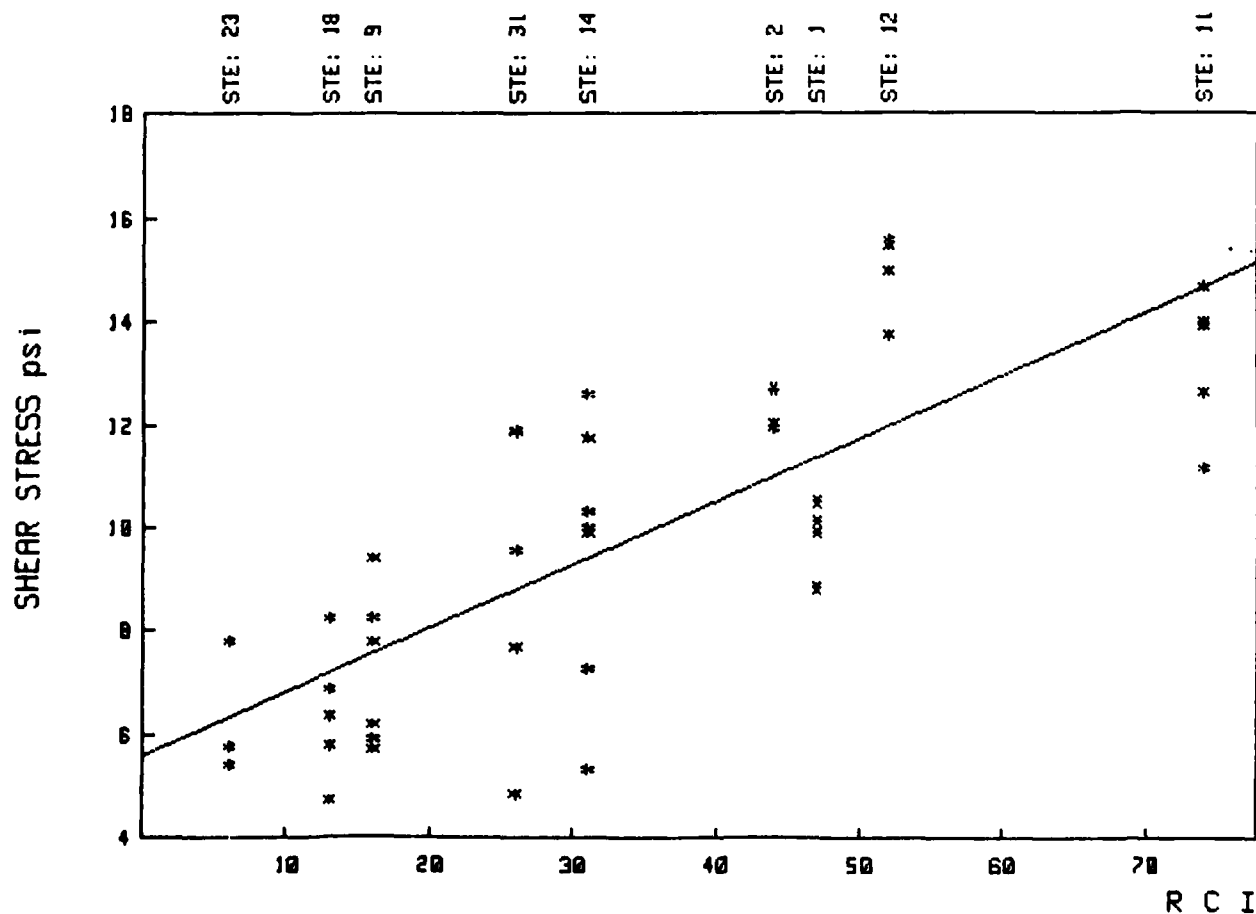


Fig.35

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

DATA FROM INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 2 9 11 12 14 18 23 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, MOISTURE CONTENT: 20-50%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 7.28$$

$$b = 1.3656E-01$$

CORRELATION COEFFICIENT

$$R = .7588$$

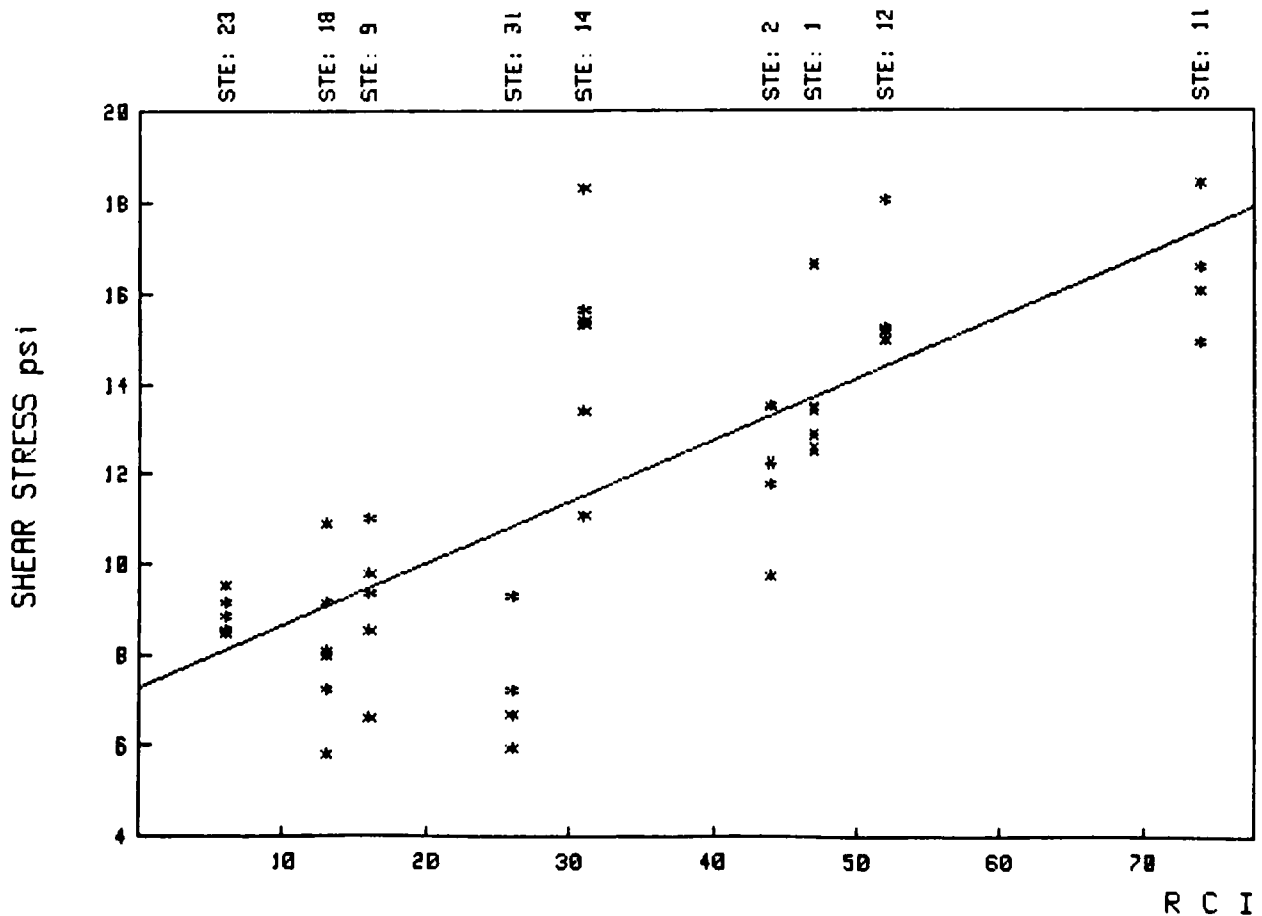


Fig.36

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 7 10 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, MOISTURE CONTENT: 50-70%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -2.30$$

$$b = 2.8379E-01$$

CORRELATION COEFFICIENT

$$R = .7459$$

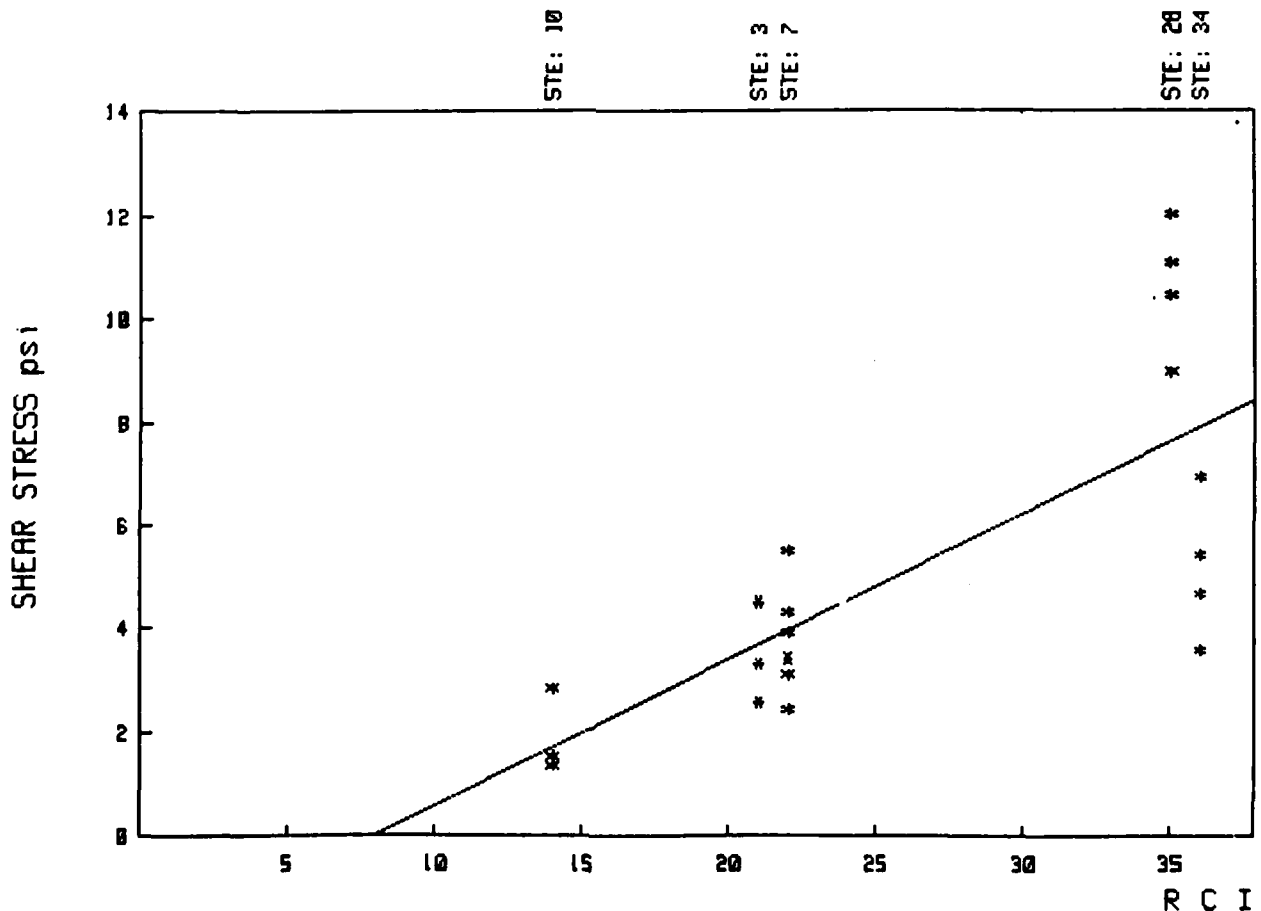


Fig.37

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

DAVID L. HILL, JR., F.R.S., F.R.S., F.R.S., F.R.S., F.R.S.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 7 10 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, MOISTURE CONTENT: 50-70%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -1.41$$

$$b = 4.2095E-01$$

CORRELATION COEFFICIENT

$$R = .8792$$

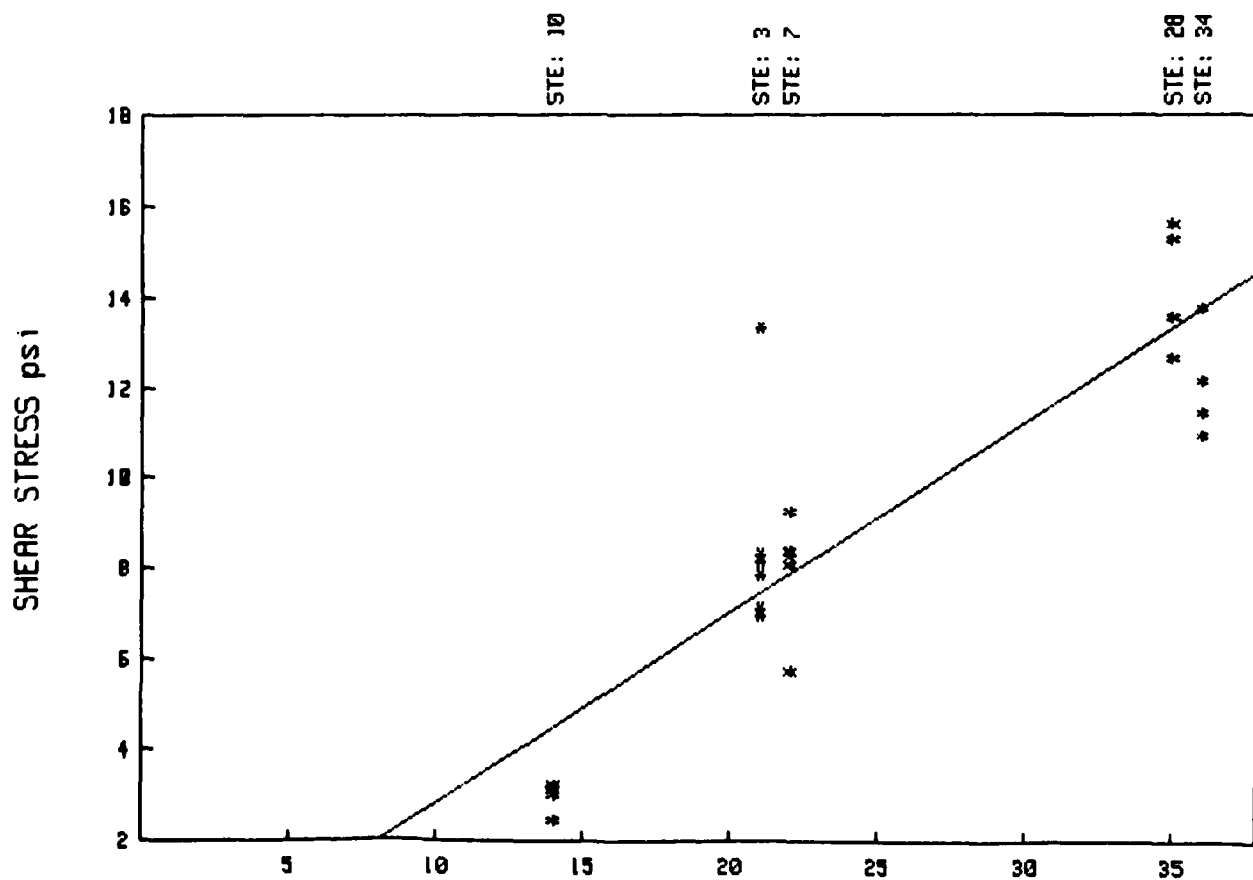


Fig. 38

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 7 10 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, MOISTURE CONTENT: 50-70%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -2.60$$

$$b = 5.2719E-01$$

CORRELATION COEFFICIENT

$$R = .8769$$

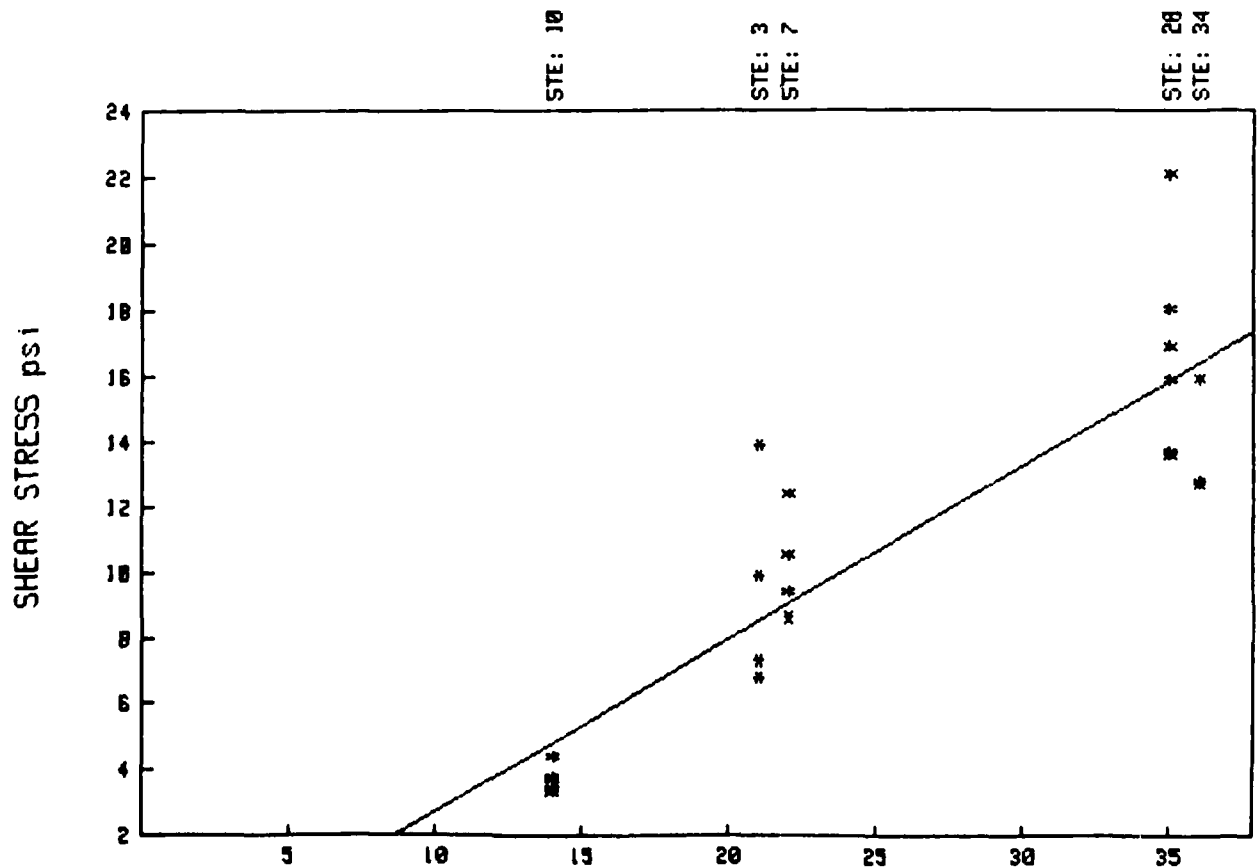


Fig.39

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

R C I

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

20 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, MOISTURE CONTENT: 70-100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -.59$$

$$b = 2.5564E-01$$

CORRELATION COEFFICIENT

$$R = .9133$$

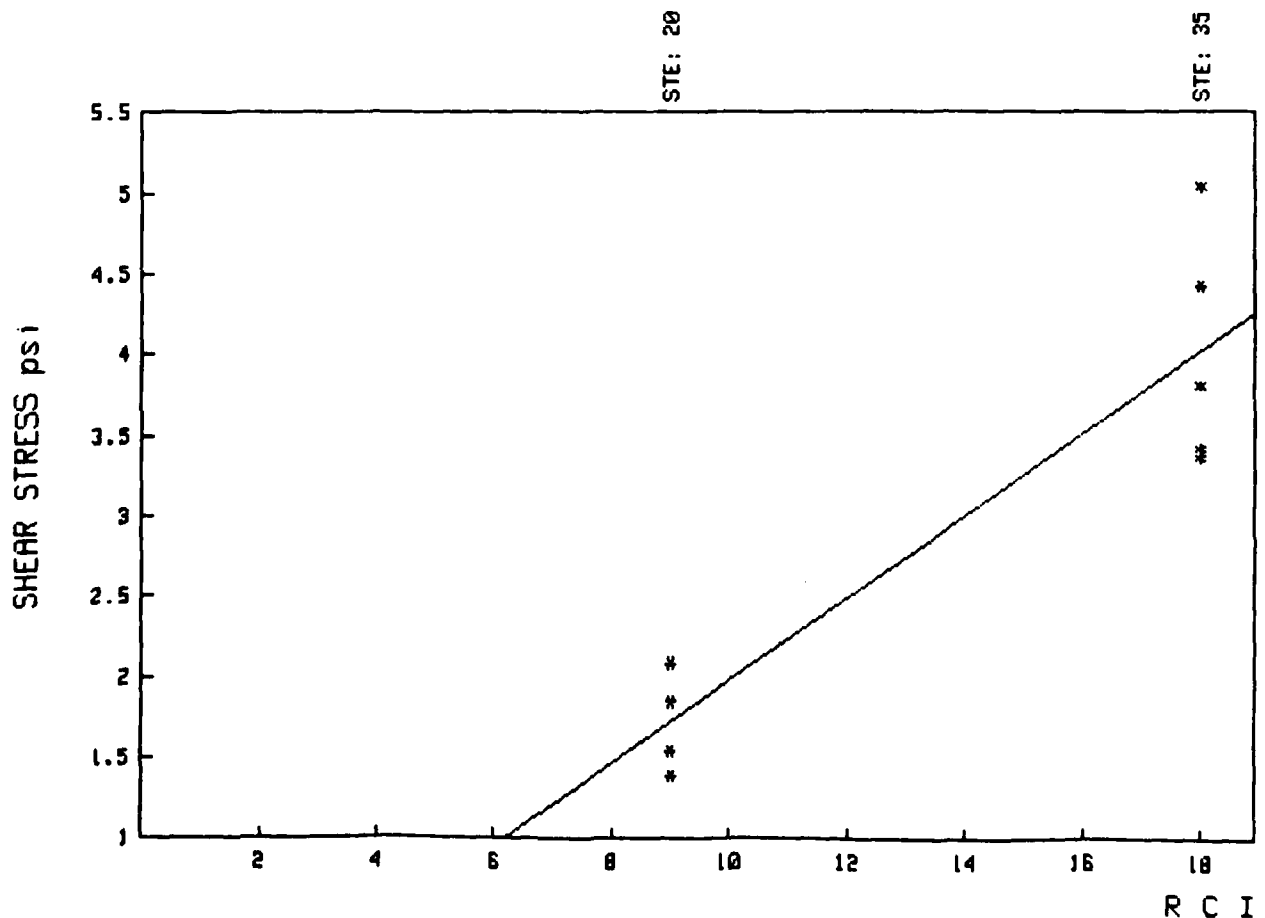


Fig. 40

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

20 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, MOISTURE CONTENT: 70-100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .60$$

$$b = 3.0547E-01$$

CORRELATION COEFFICIENT

$$R = .7228$$

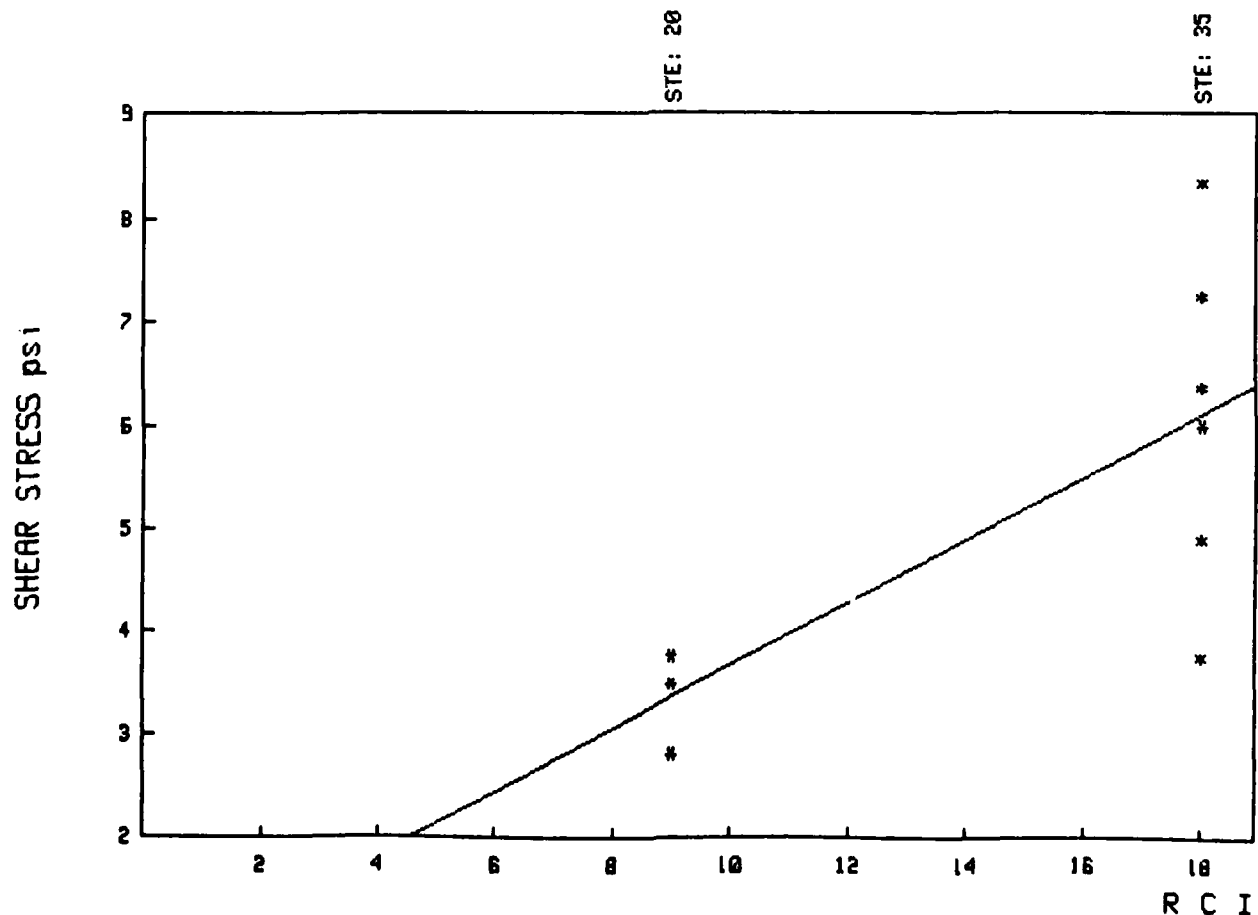


Fig.4.1

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

20 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, MOISTURE CONTENT: 70-100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.56$$

$$b = 2.7301E-01$$

CORRELATION COEFFICIENT

$$R = .5906$$

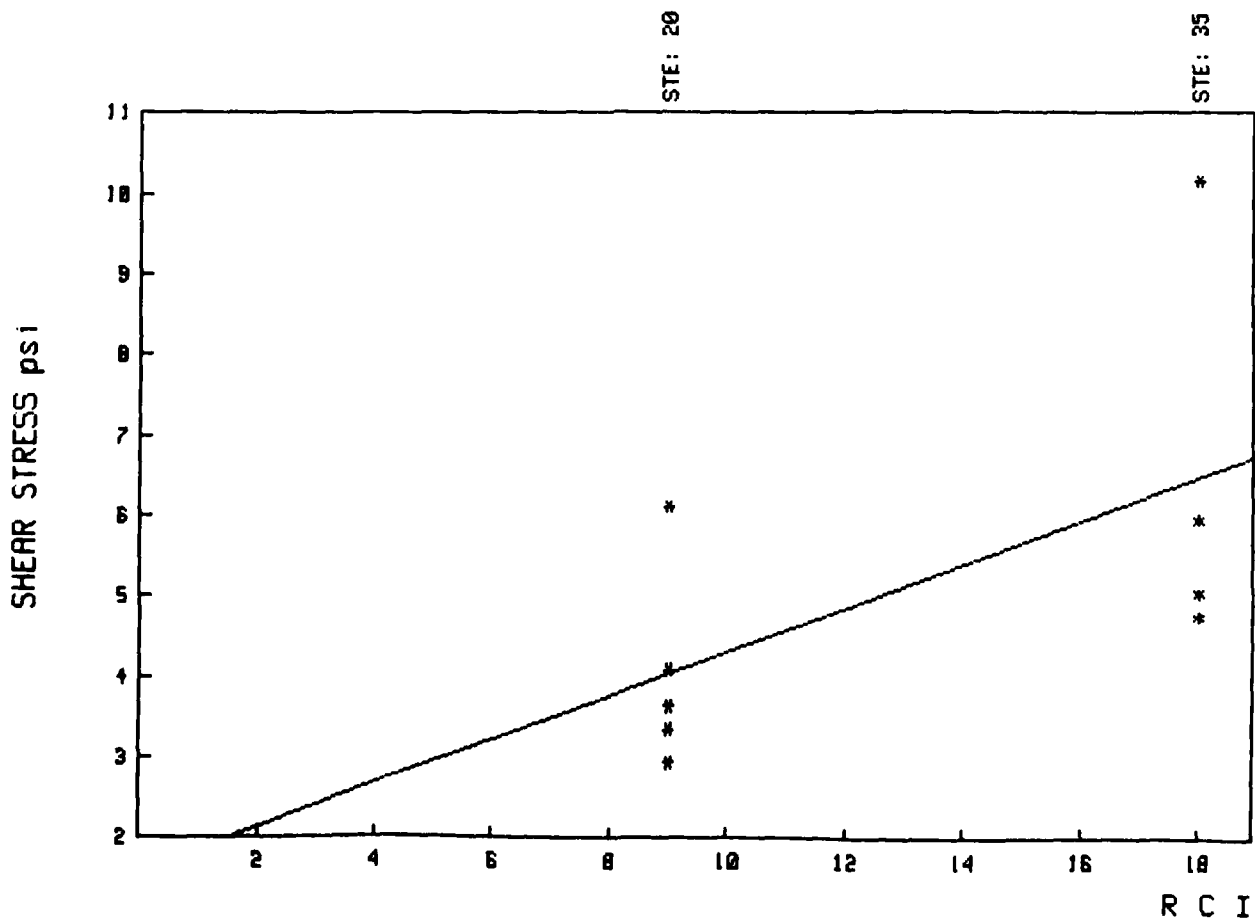


Fig.42

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 13 19 21 25

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, MOISTURE CONTENT: >100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .89$$

$$b = 6.0229E-02$$

CORRELATION COEFFICIENT

$$R = .7562$$

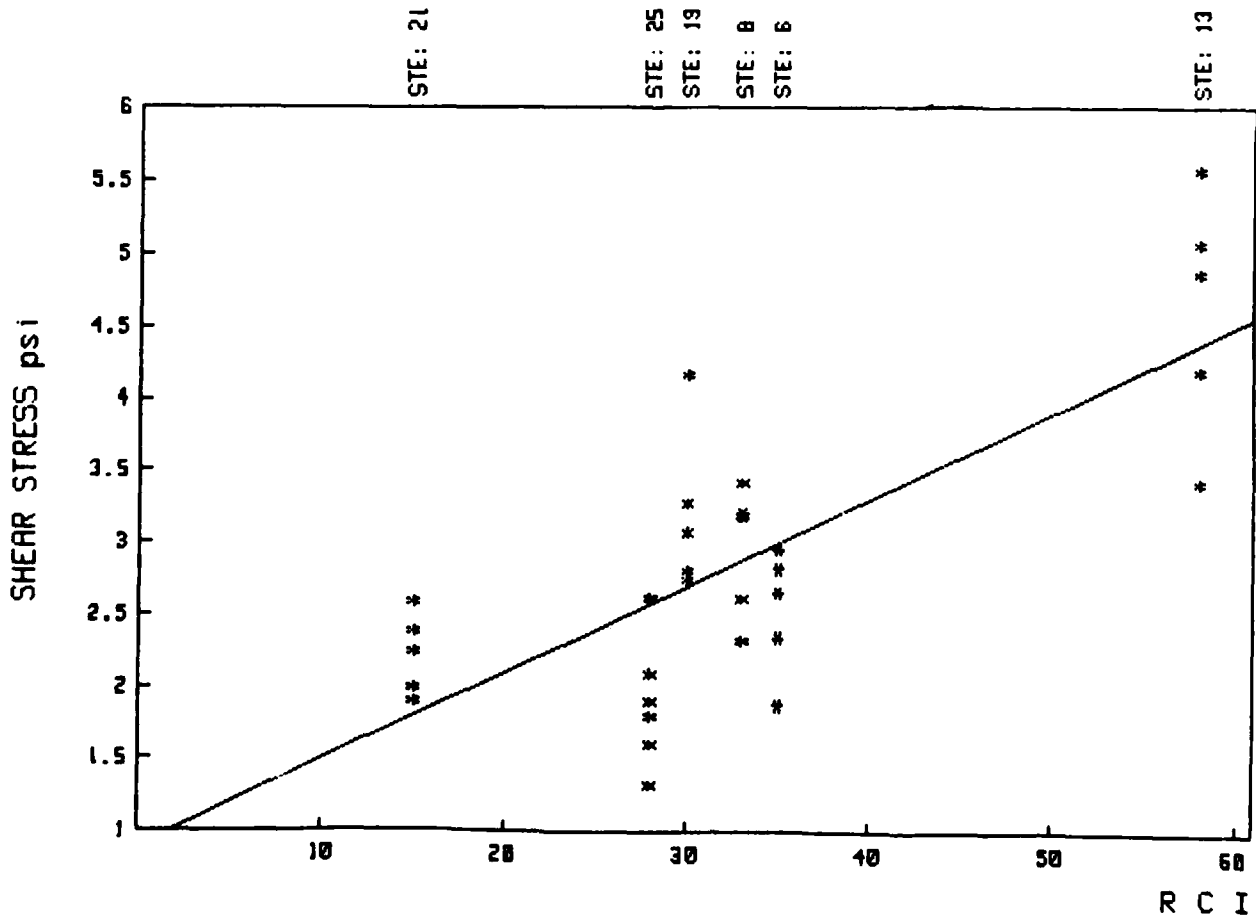


Fig.43

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

BULLETIN INSTITUTE OF TRANSPORTATION ENGINEERING

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 13 19 21 25

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, MOISTURE CONTENT: >100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .77$$

$$b = 1.8217E-01$$

CORRELATION COEFFICIENT

$$R = .6854$$

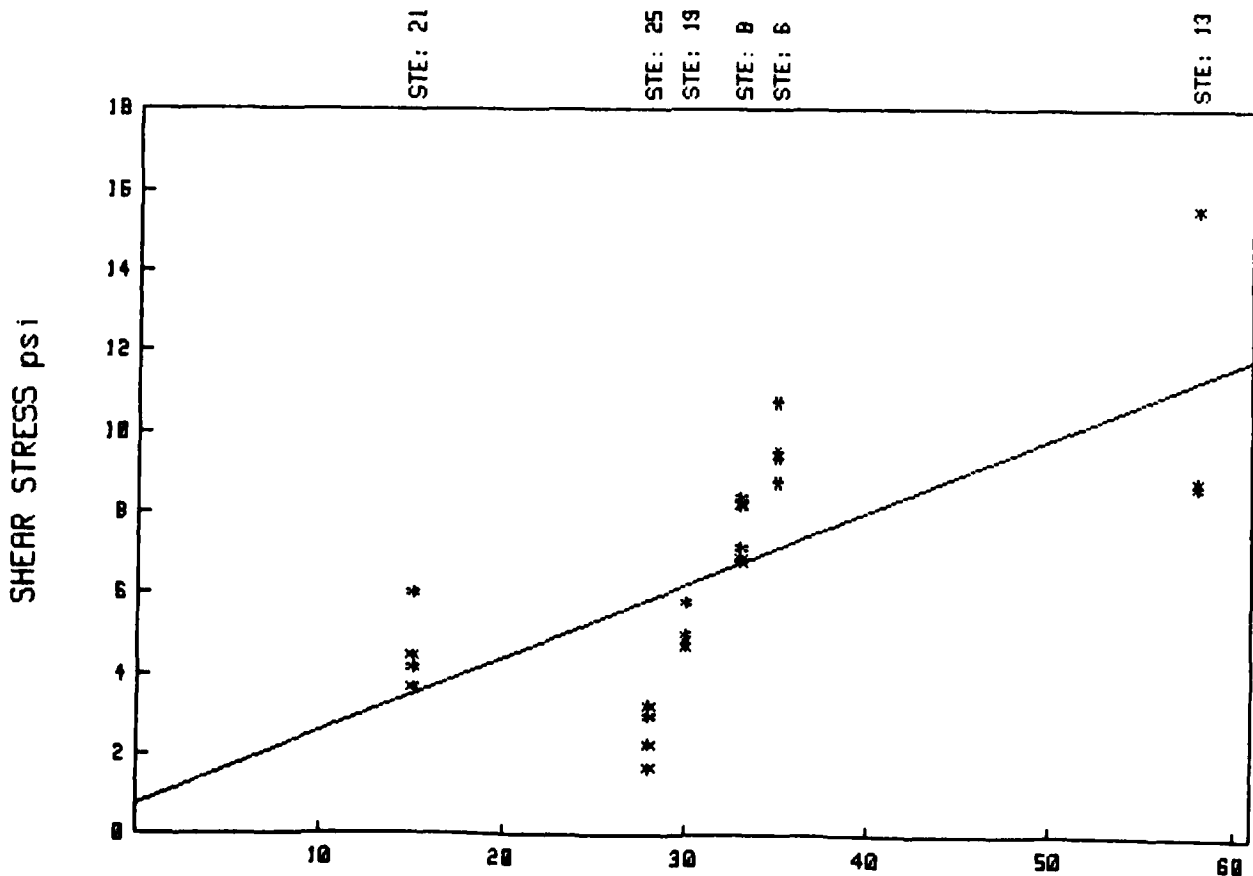


Fig.44

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.
BUT THE INSTALLED TRANSDUCER PLACEMENT

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 13 19 21 25

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, MOISTURE CONTENT: >100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 5.47$$

$$b = 8.5450E-02$$

CORRELATION COEFFICIENT

$$R = .3413$$

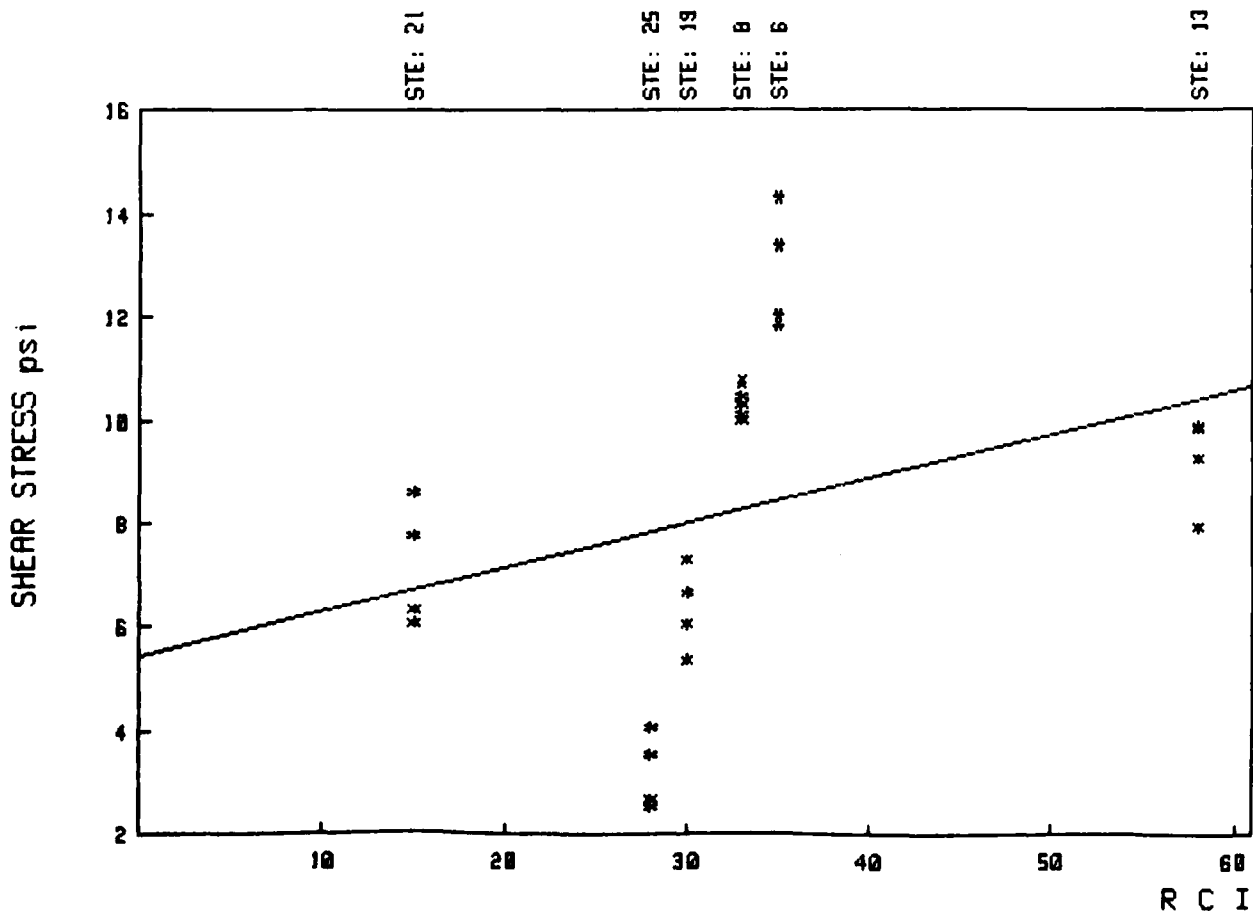


Fig.45

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 2 9 11 12 14 18 23 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, MOISTURE CONTENT: 20-50%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.04$$

$$b = 6.0610E-02$$

CORRELATION COEFFICIENT

$$R = .6070$$

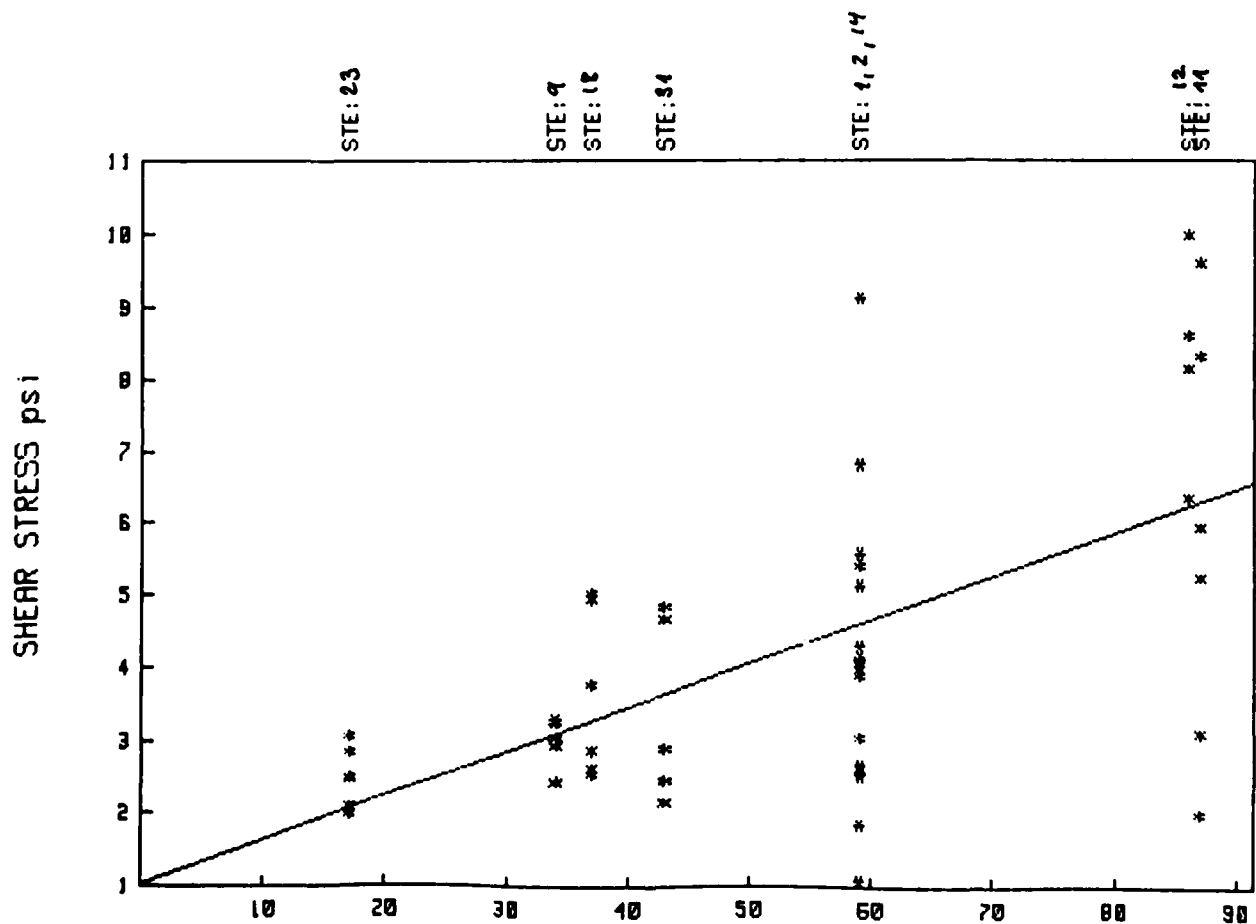


Fig.46

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

RAILROAD AND HIGHWAY CONSTRUCTION DIVISION

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 2 9 11 12 14 18 23 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, MOISTURE CONTENT: 20-50%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 3.08$$

$$b = 1.2408E-01$$

CORRELATION COEFFICIENT

$$R = .8137$$

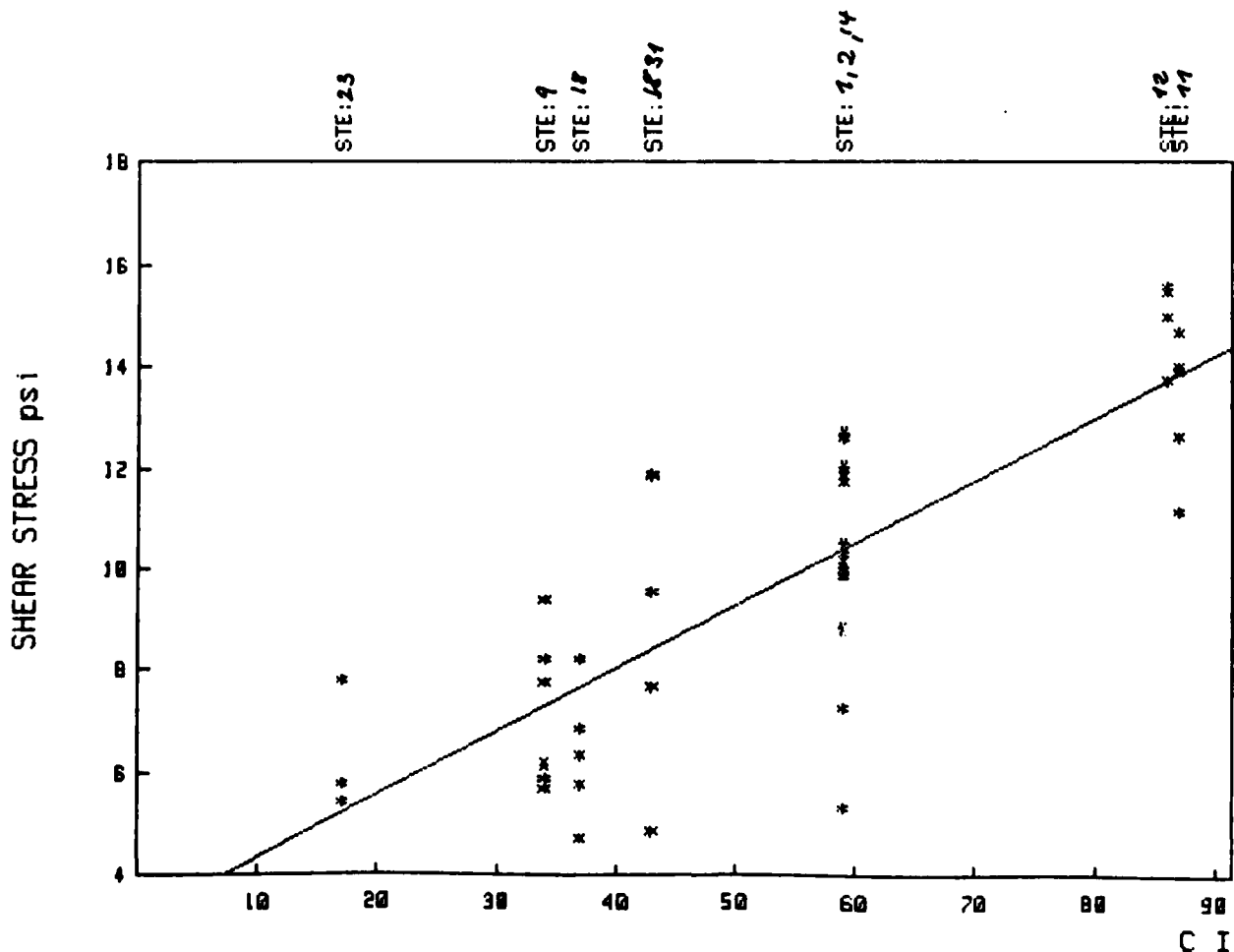


Fig.47

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

EXAMINED AND CORRELATED BY: [illegible]

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 2 9 11 12 14 18 23 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, MOISTURE CONTENT: 20-50%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 4.73$$

$$b = 1.3493E-01$$

CORRELATION COEFFICIENT

$$R = .7969$$

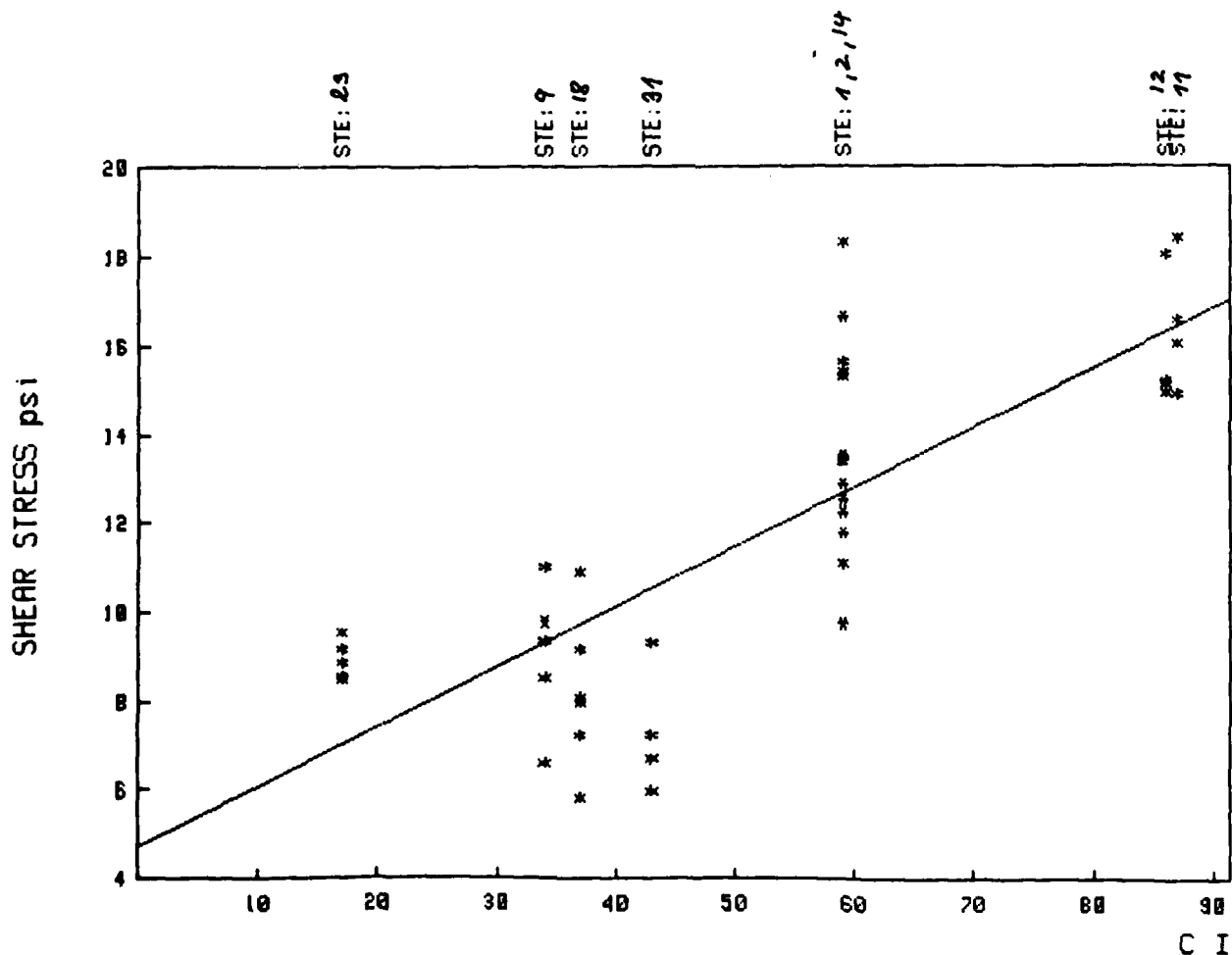


Fig.48

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 7 10 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, MOISTURE CONTENT: 50-70%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -5.23$$

$$b = 2.1029E-01$$

CORRELATION COEFFICIENT

$$R = .7369$$

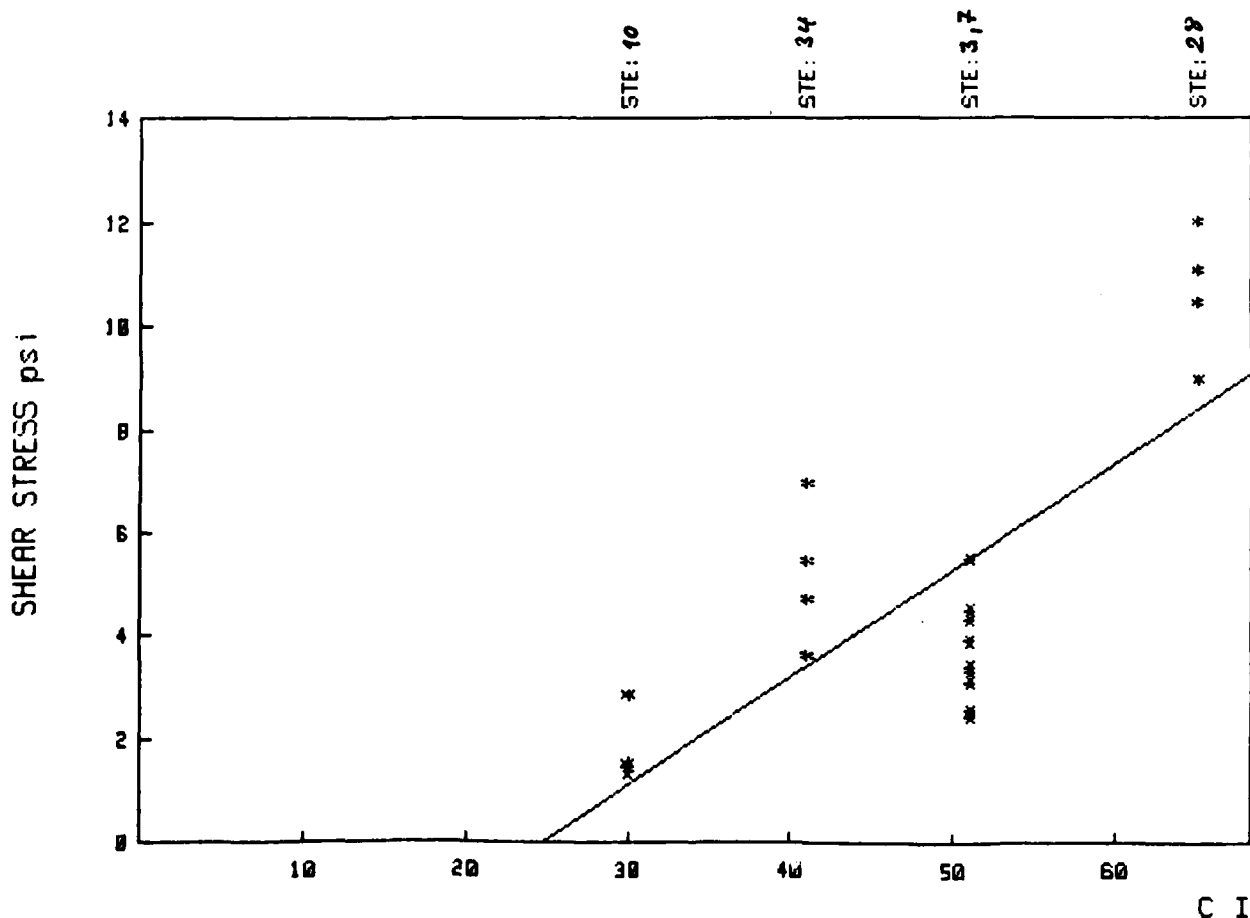


Fig.49

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 7 10 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, MOISTURE CONTENT: 50-70%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -2.89$$

$$b = 2.4797E-01$$

CORRELATION COEFFICIENT

$$R = .6963$$

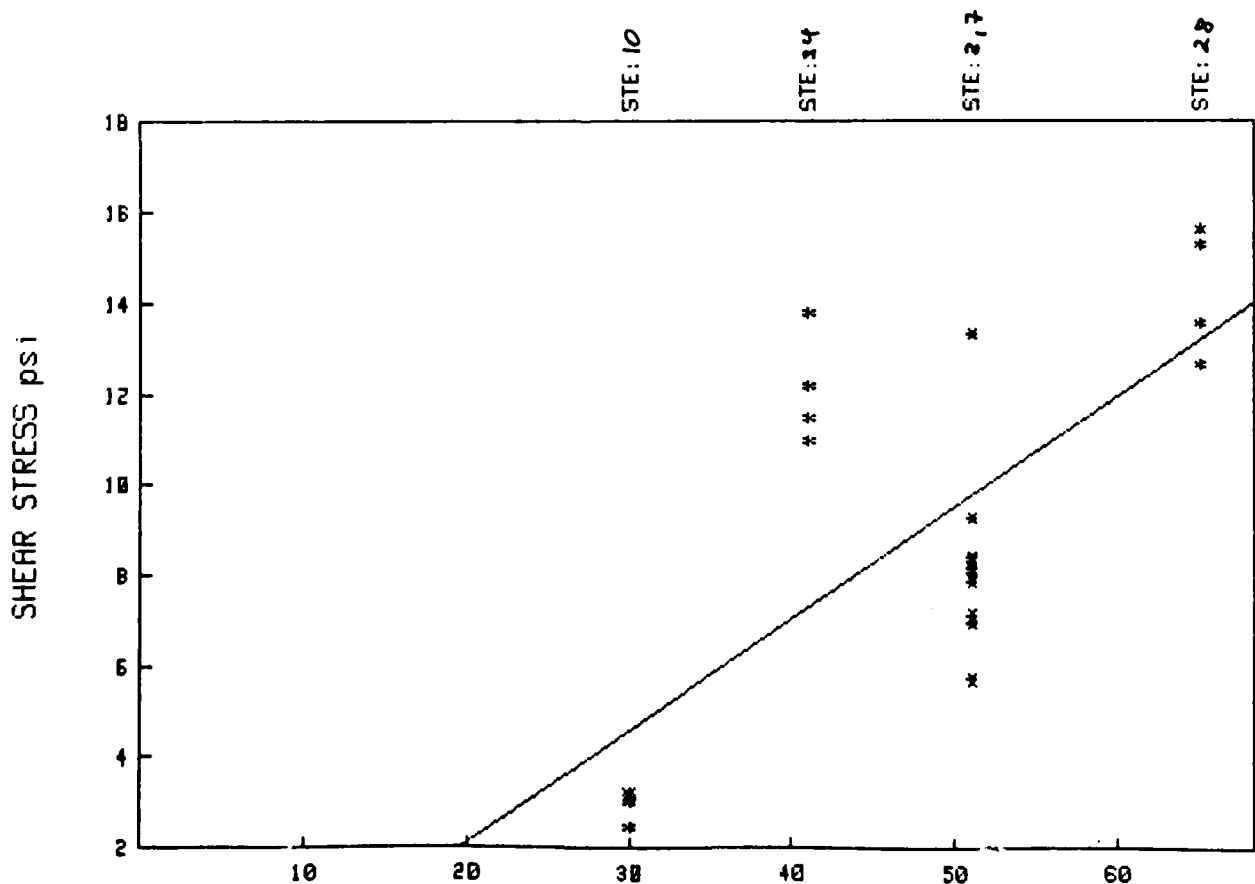


Fig.50

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

3 7 10 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, MOISTURE CONTENT: 50-70%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -4.91$$

$$b = 3.2030E-01$$

CORRELATION COEFFICIENT

$$R = .7759$$

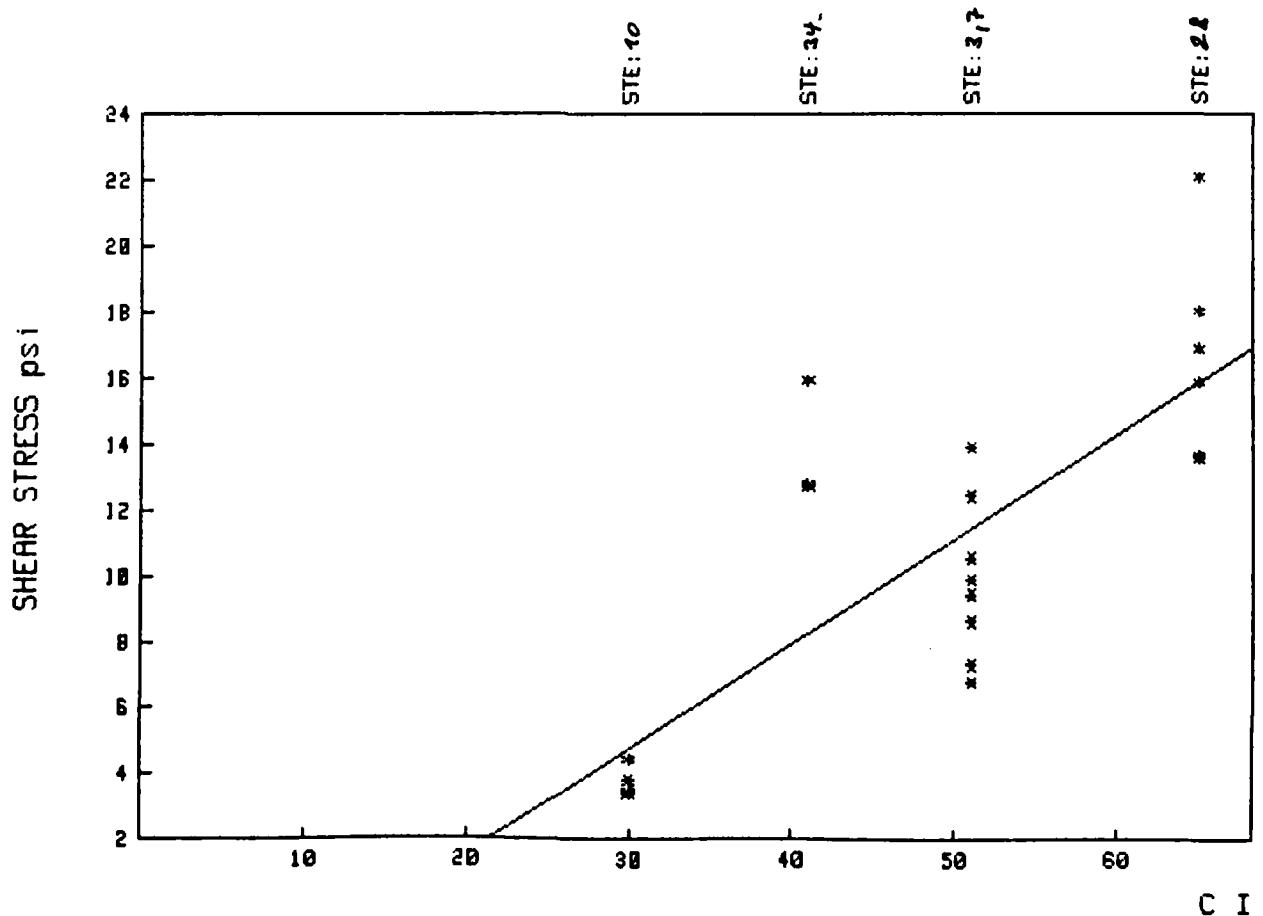


Fig.51

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

20 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, MOISTURE CONTENT: 70-100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -.09$$

$$b = 1.0003E-01$$

CORRELATION COEFFICIENT

$$R = .9133$$

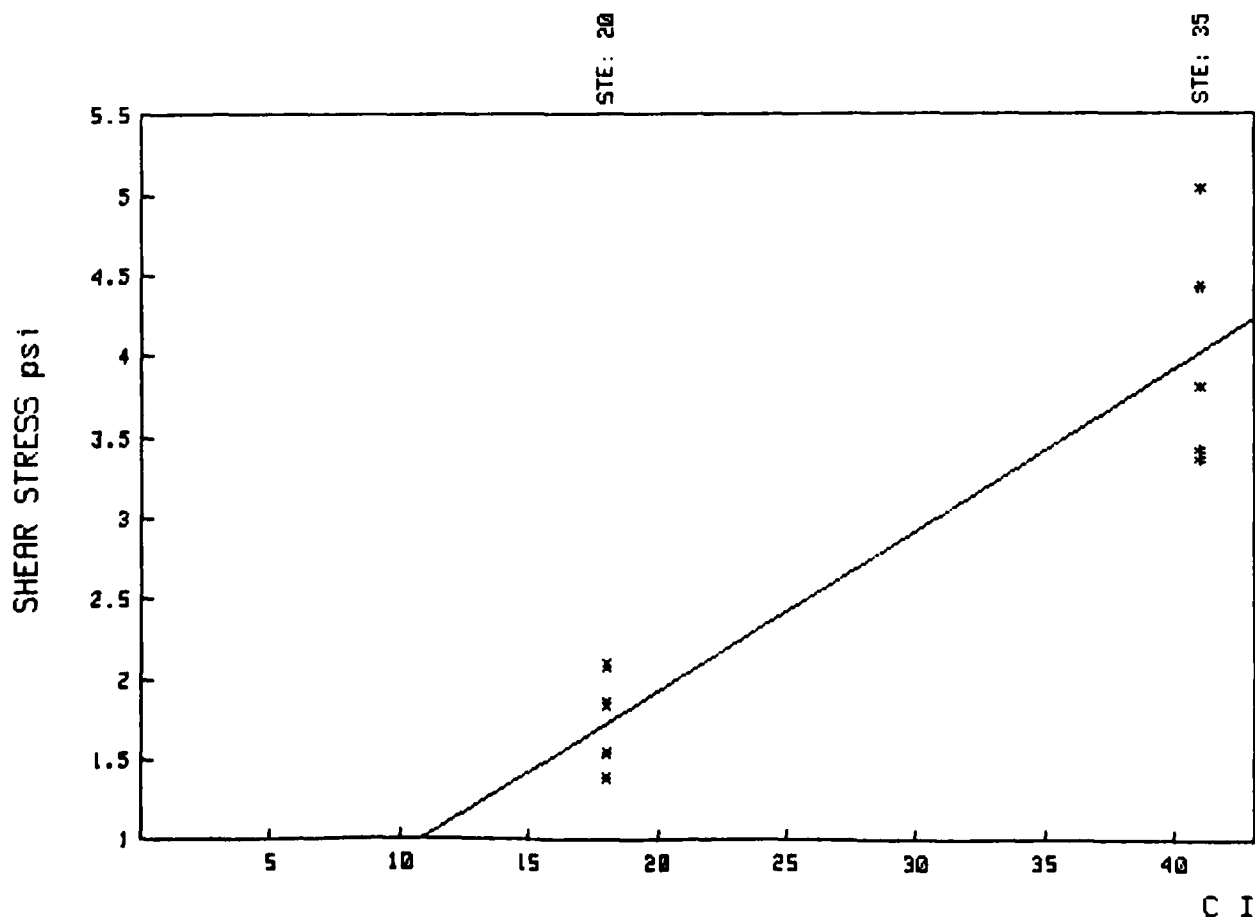


Fig.52

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

20 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, MOISTURE CONTENT: 70-100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.20$$

$$b = 1.1953E-01$$

CORRELATION COEFFICIENT

$$R = .7228$$

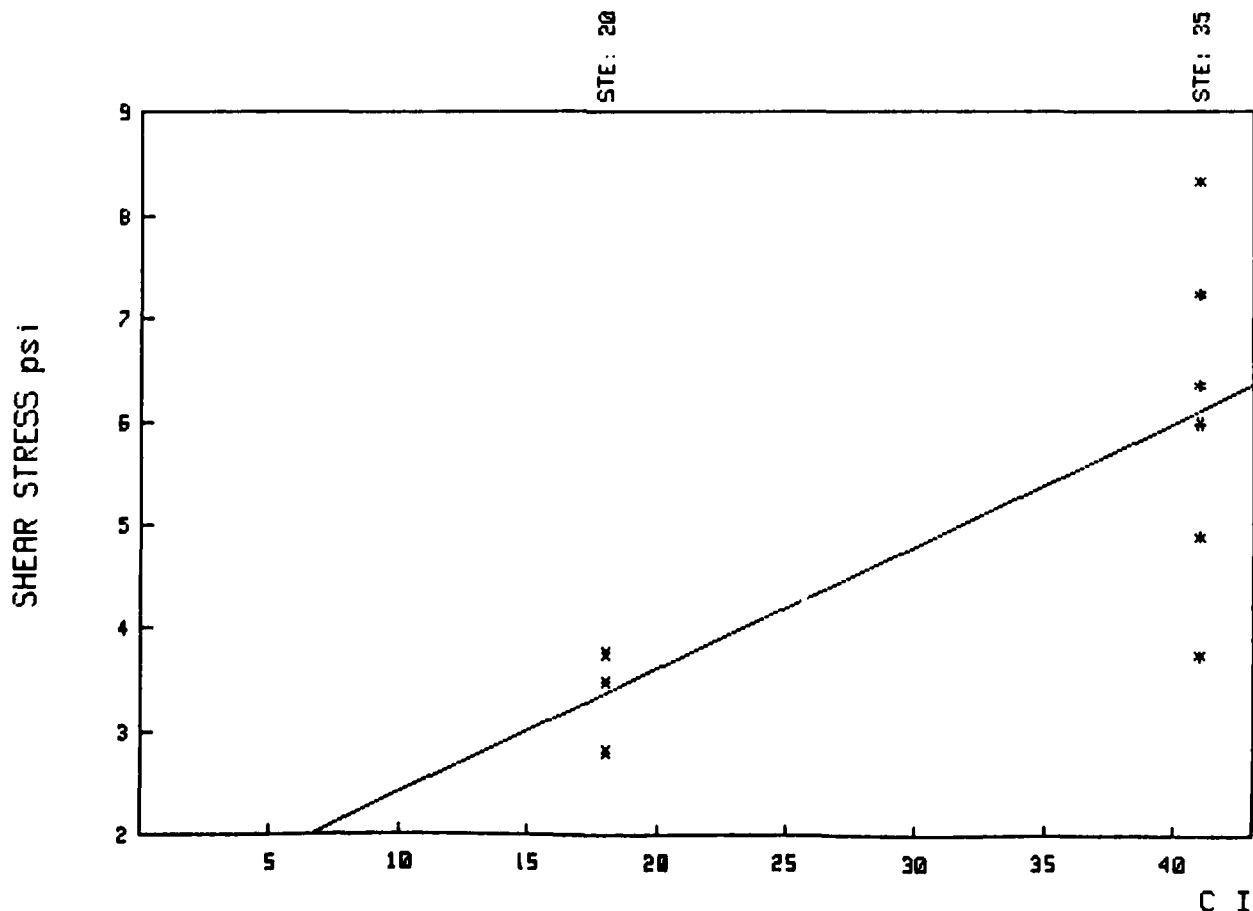


Fig.53

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

DATA FROM INSTITUTE FOR SOIL MECHANICS, CHICAGO, ILL.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

20 35

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, MOISTURE CONTENT: 70-100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.10$$

$$b = 1.0683E-01$$

CORRELATION COEFFICIENT

$$R = .5906$$

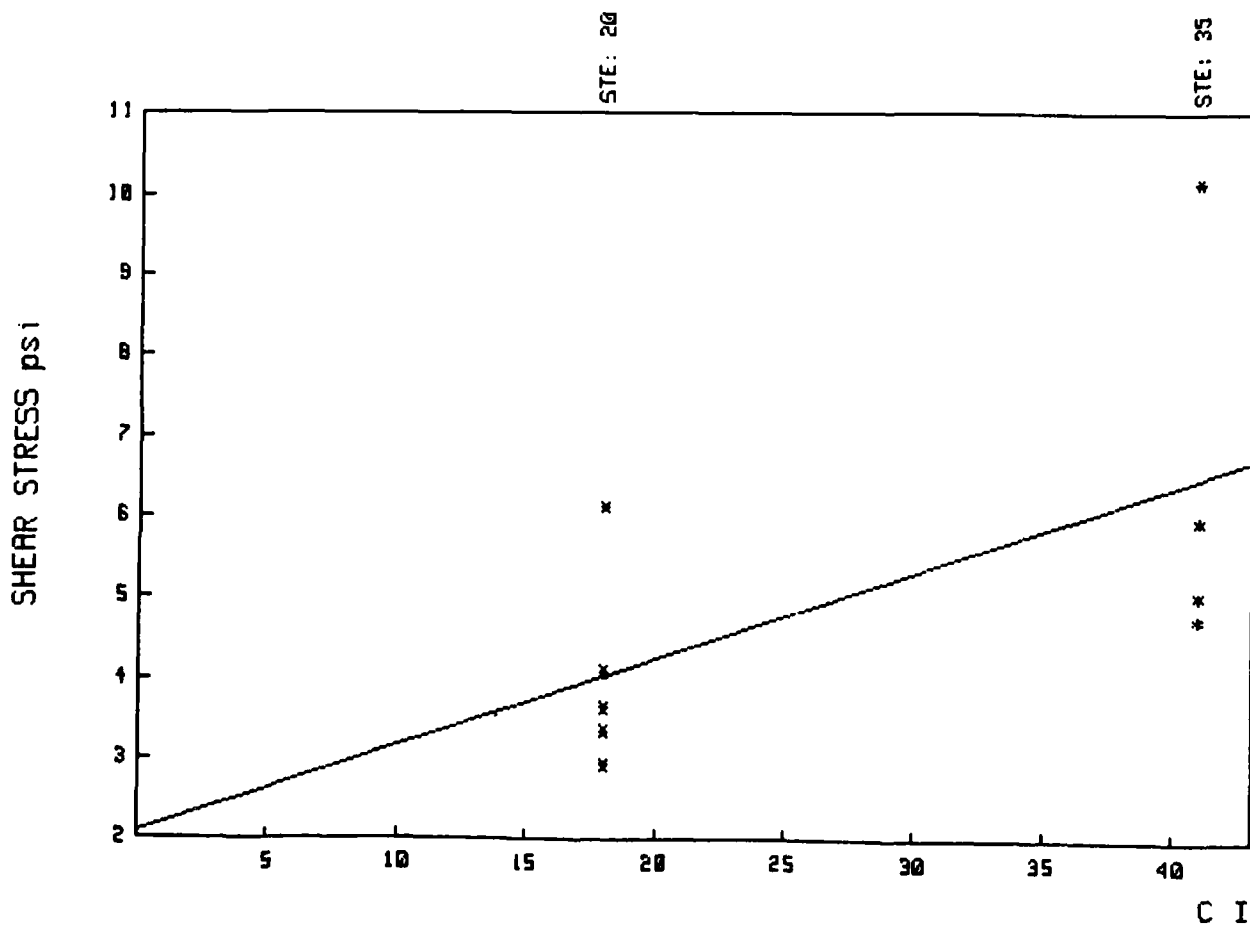


Fig.54

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 13 19 21 25

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, MOISTURE CONTENT: >100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.05$$

$$b = 3.2699E-02$$

CORRELATION COEFFICIENT

$$R = .5452$$

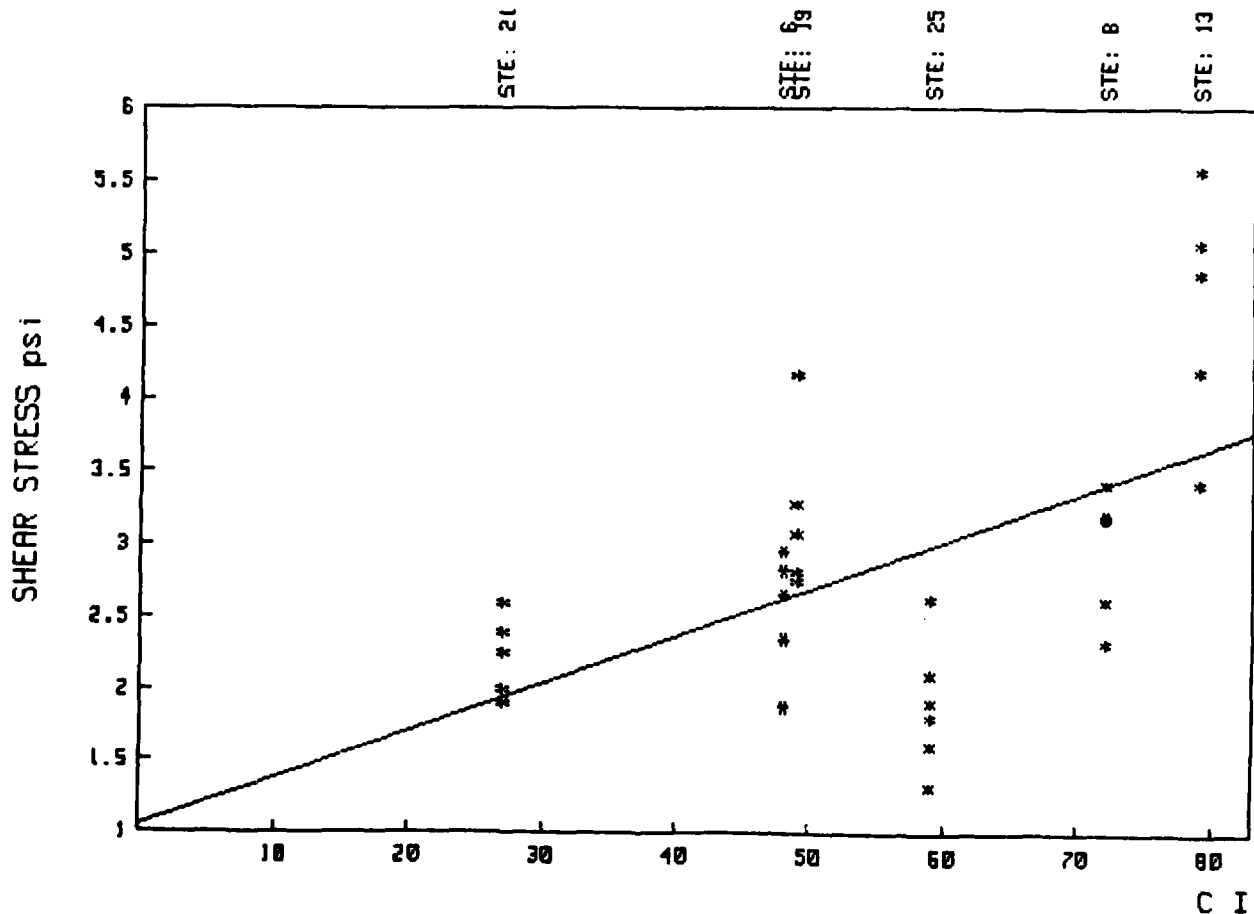


Fig.55

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Moisture Content = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 13 19 21 25

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, MOISTURE CONTENT: >100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.34$$

$$b = 7.6637E-02$$

CORRELATION COEFFICIENT

$$R = .4189$$

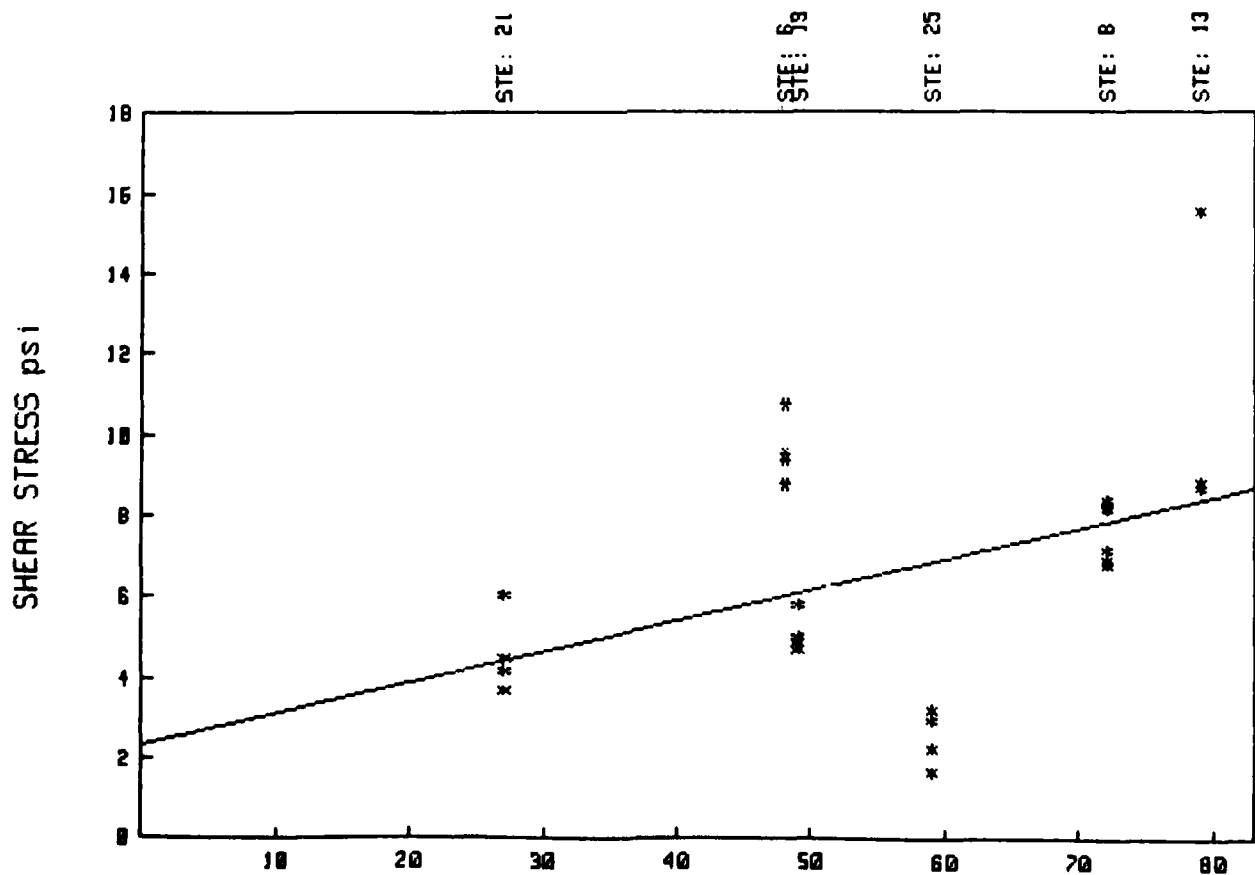


Fig.56

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

RAILROAD INSTITUTE OF TRANSPORTATION

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 13 19 21 25

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, MOISTURE CONTENT: >100%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 6.56$$

$$b = 3.0924E-02$$

CORRELATION COEFFICIENT

$$R = .1673$$

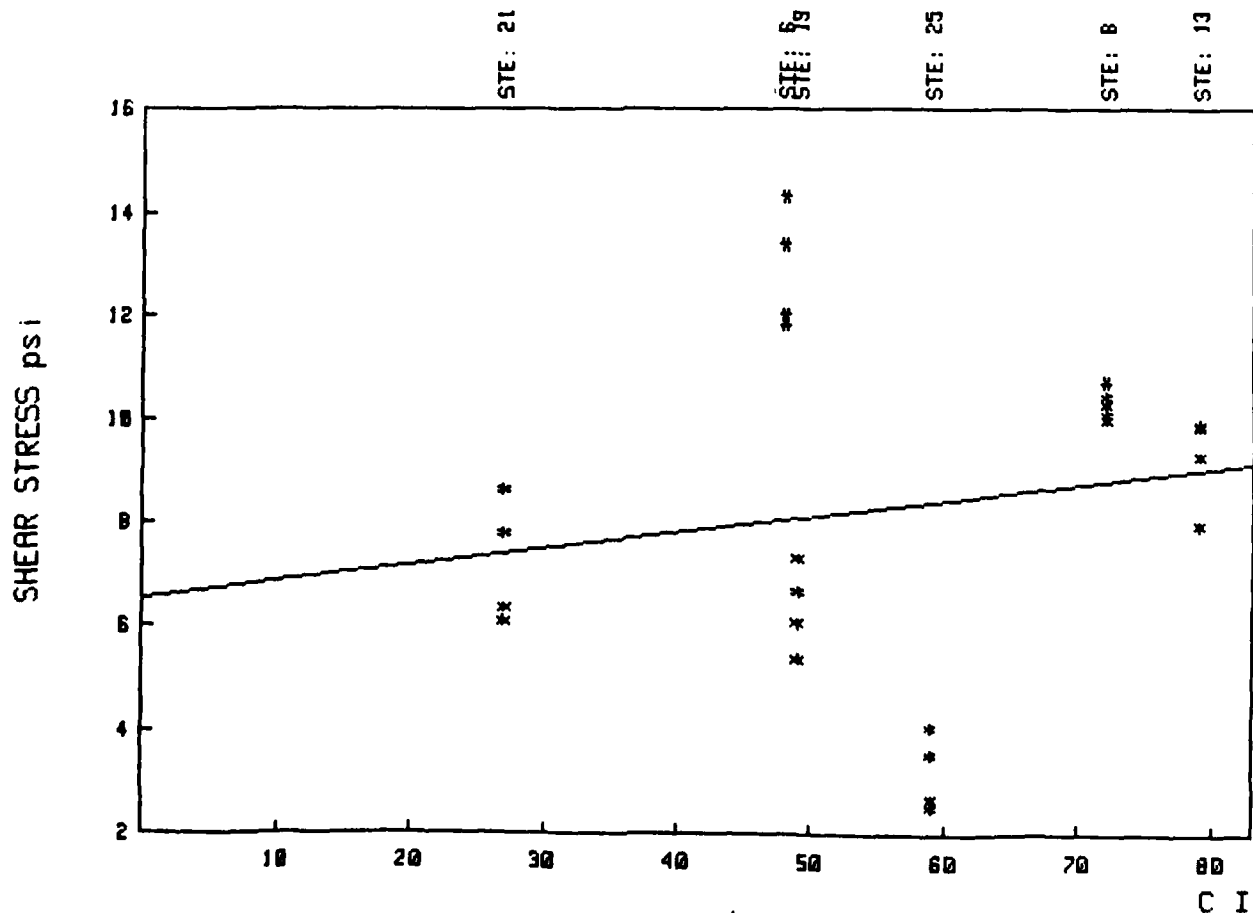


Fig.57

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Moisture Content = const.

DATA FROM INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 3 9 11 12 14 18 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: .5 psi, ORGAN. INGREDIENTS: 5-10%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.23$$

$$b = 5.2203E-02$$

CORRELATION COEFFICIENT

$$R = .5458$$

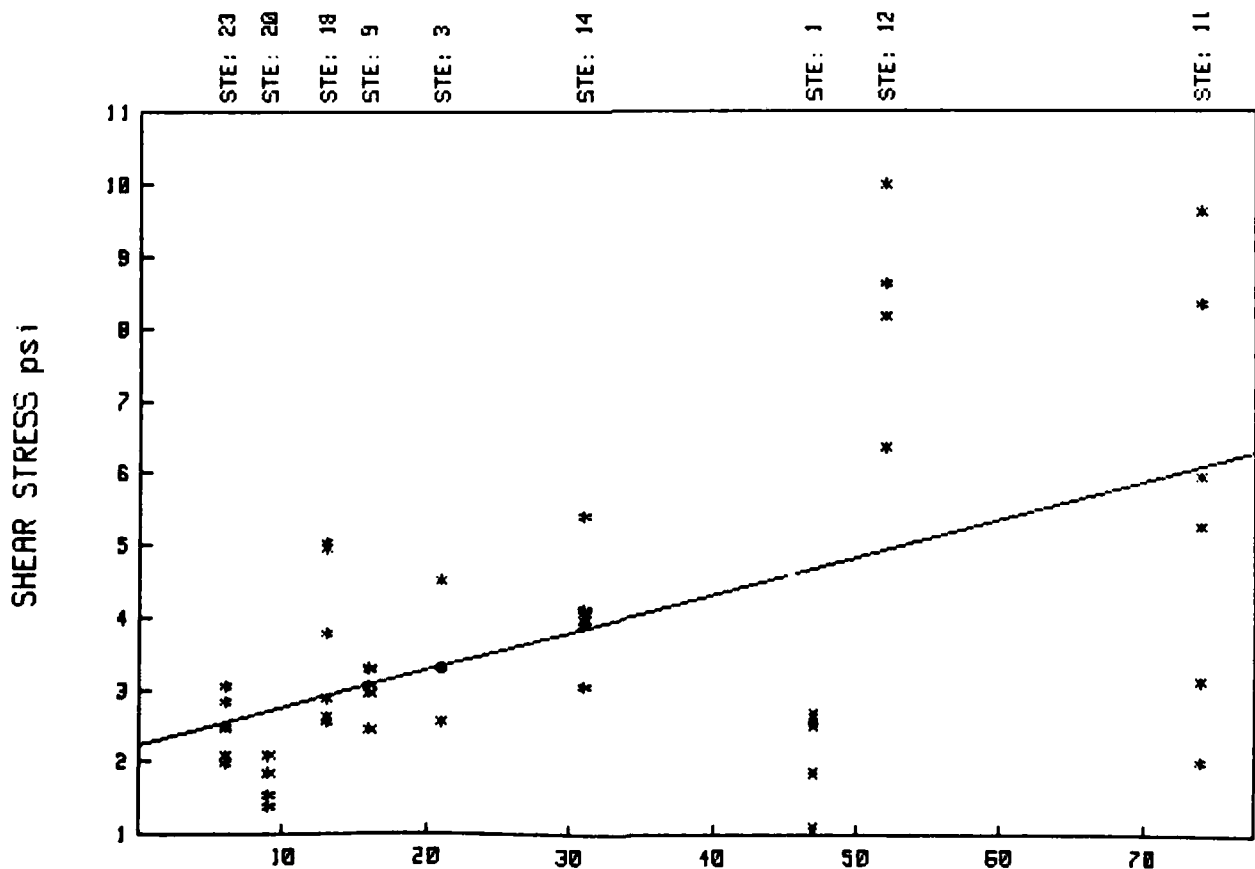


Fig.58

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 3 9 11 12 14 18 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 5.6 psi, ORGAN. INGREDIENTS: 5-10%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 5.07$$

$$b = 1.3041E-01$$

CORRELATION COEFFICIENT

$$R = .7954$$

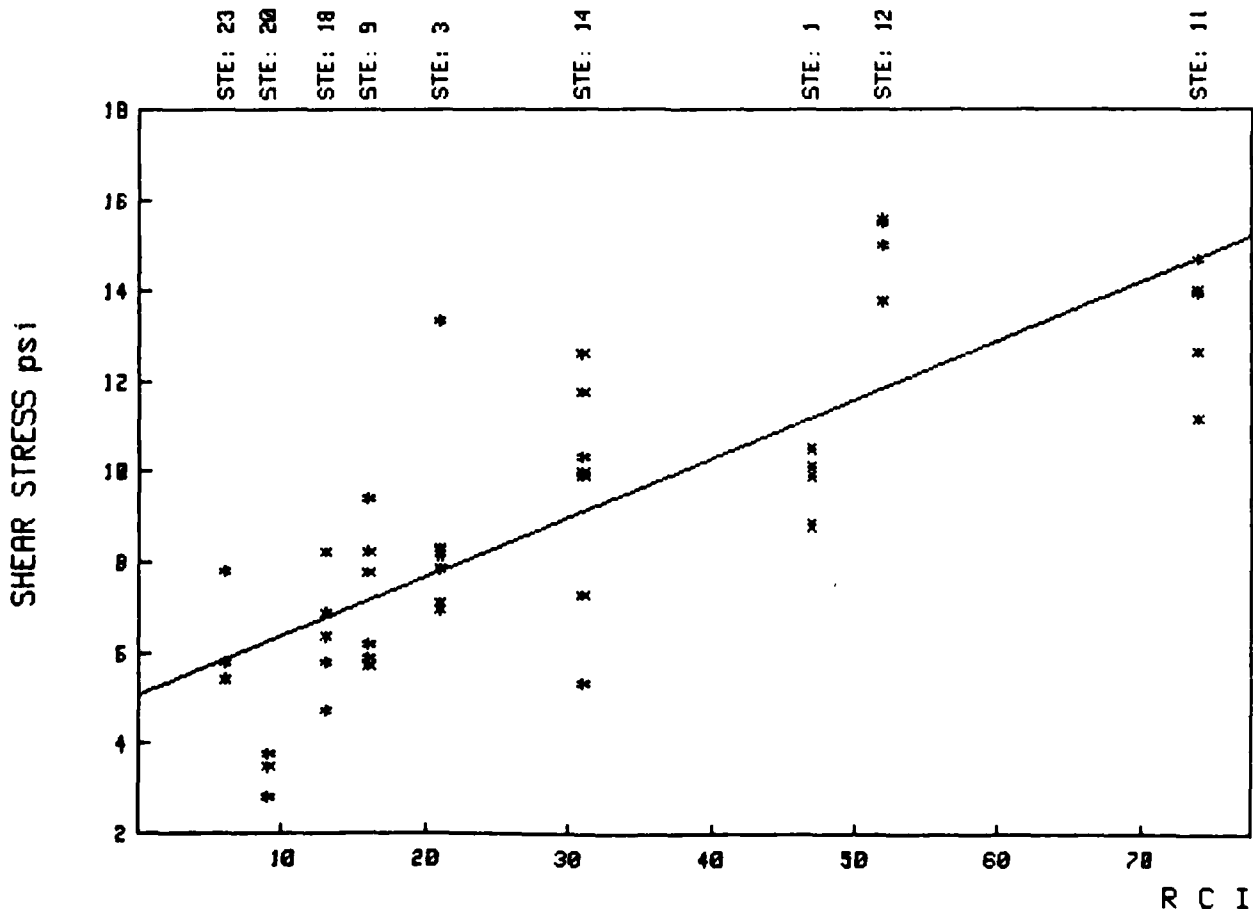


Fig.59

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 3 9 11 12 14 18 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 11.25 psi, ORGAN. INGREDIENTS: 5-10%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 6.31$$

$$b = 1.6426E-01$$

CORRELATION COEFFICIENT

$$R = .7942$$

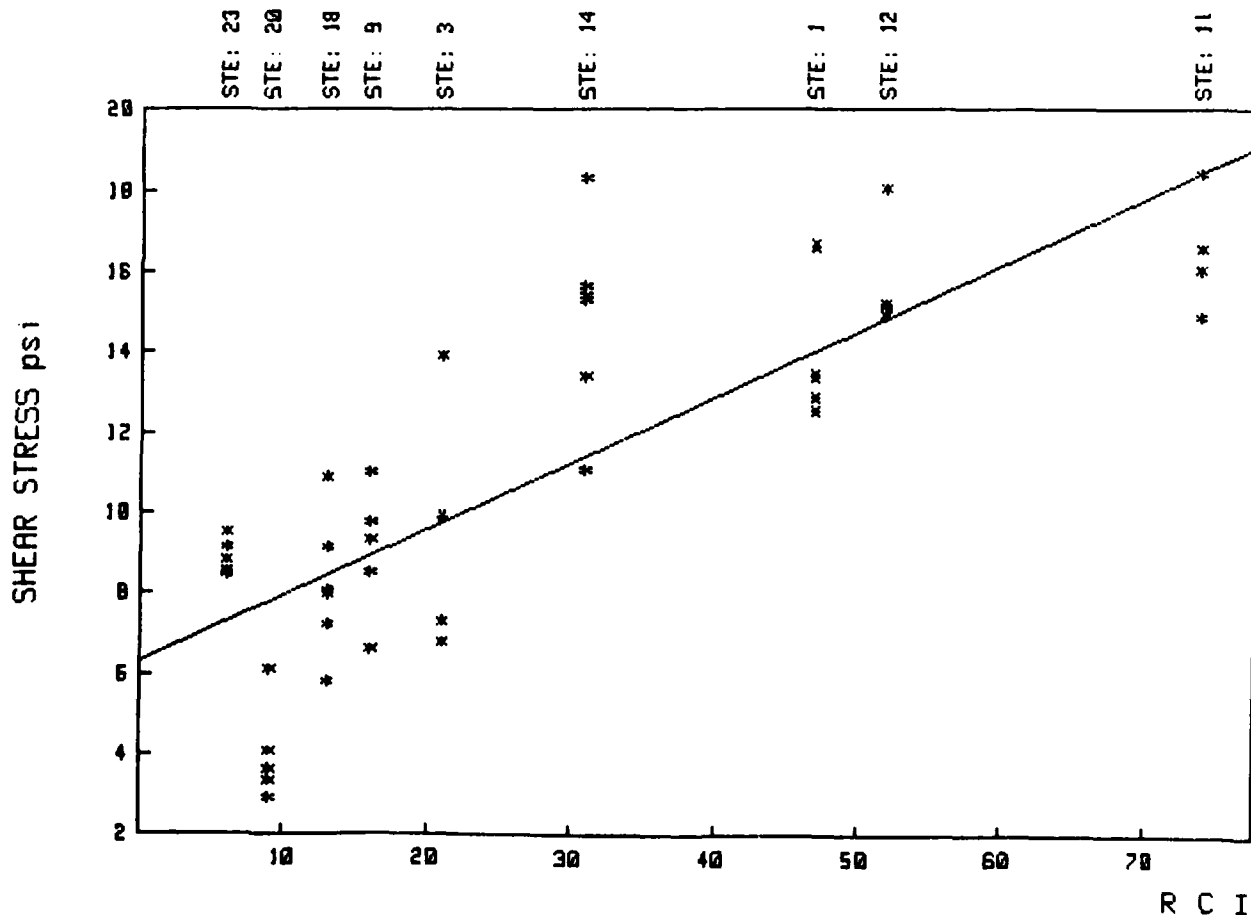


Fig. 60

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 28 31 34 35

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: .5 psi, ORGAN. INGREDIENTS: 10-20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -1.83$$

$$b = 2.3371E-01$$

CORRELATION COEFFICIENT

$$R = .4924$$

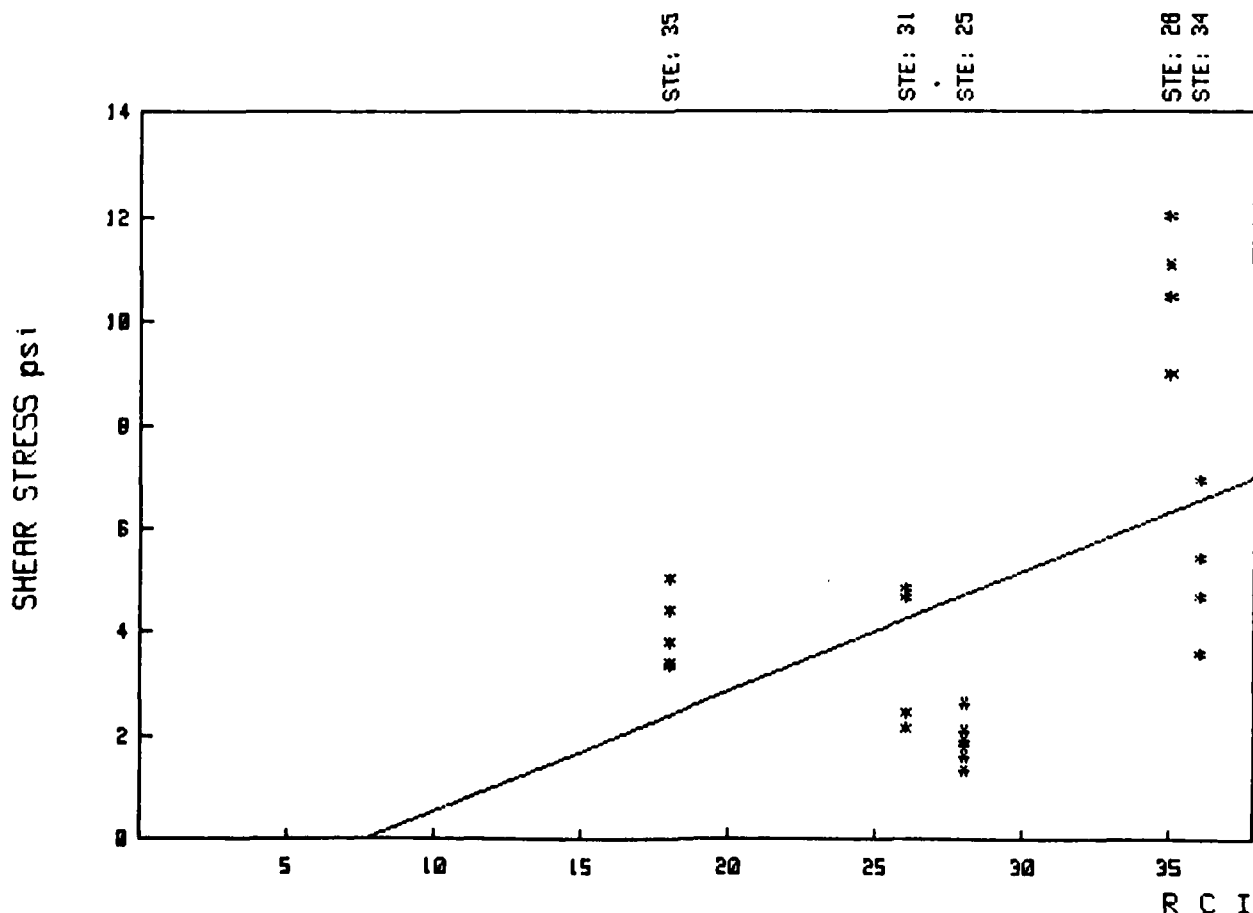


Fig.61

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 28 31 34 35

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 5.6 psi, ORGAN. INGREDIENTS: 10-20%

LINEAR REGRESSION:

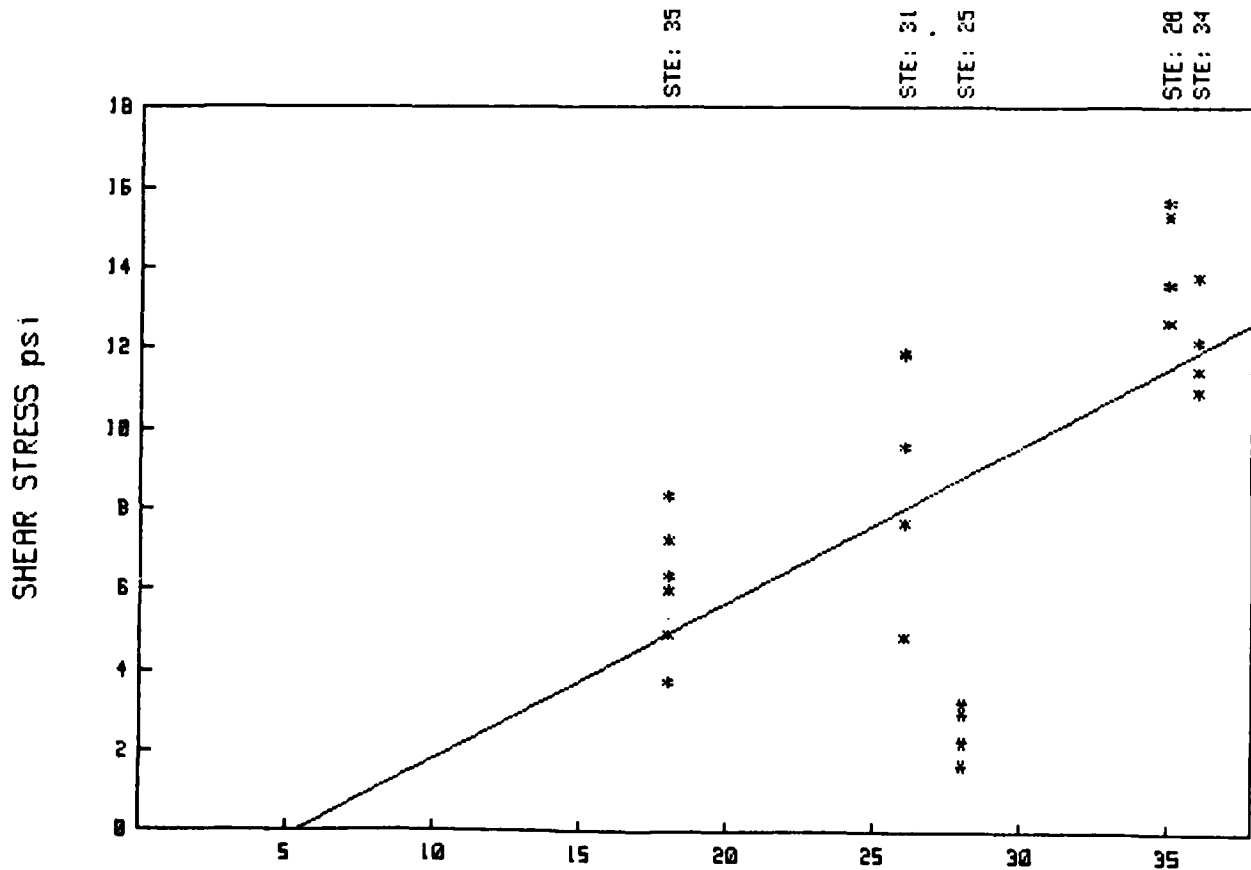
$$Y = a + b * X$$

$$a = -2.13$$

$$b = 3.8997E-01$$

CORRELATION COEFFICIENT

$$R = .6167$$



INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 28 31 34 35

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 11.25 psi, ORGAN. INGREDIENTS: 10-20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -7.49$$

$$b = 6.0586E-01$$

CORRELATION COEFFICIENT

$$R = .7007$$

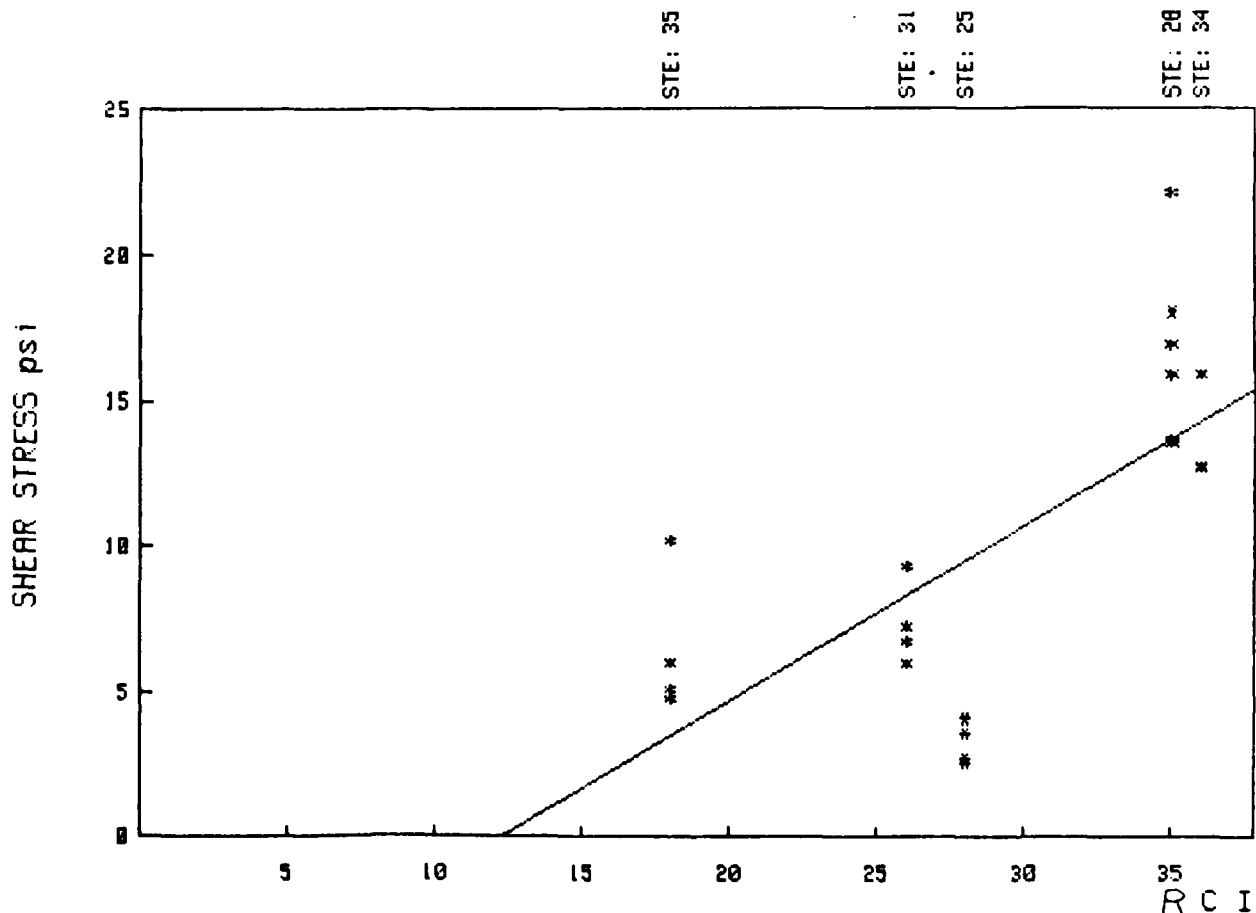


Fig.63

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 19 21 27

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: .5 psi, ORGAN. INGREDIENTS: > 20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.09$$

$$b = 3.2785E-02$$

CORRELATION COEFFICIENT

$$R = .2837$$

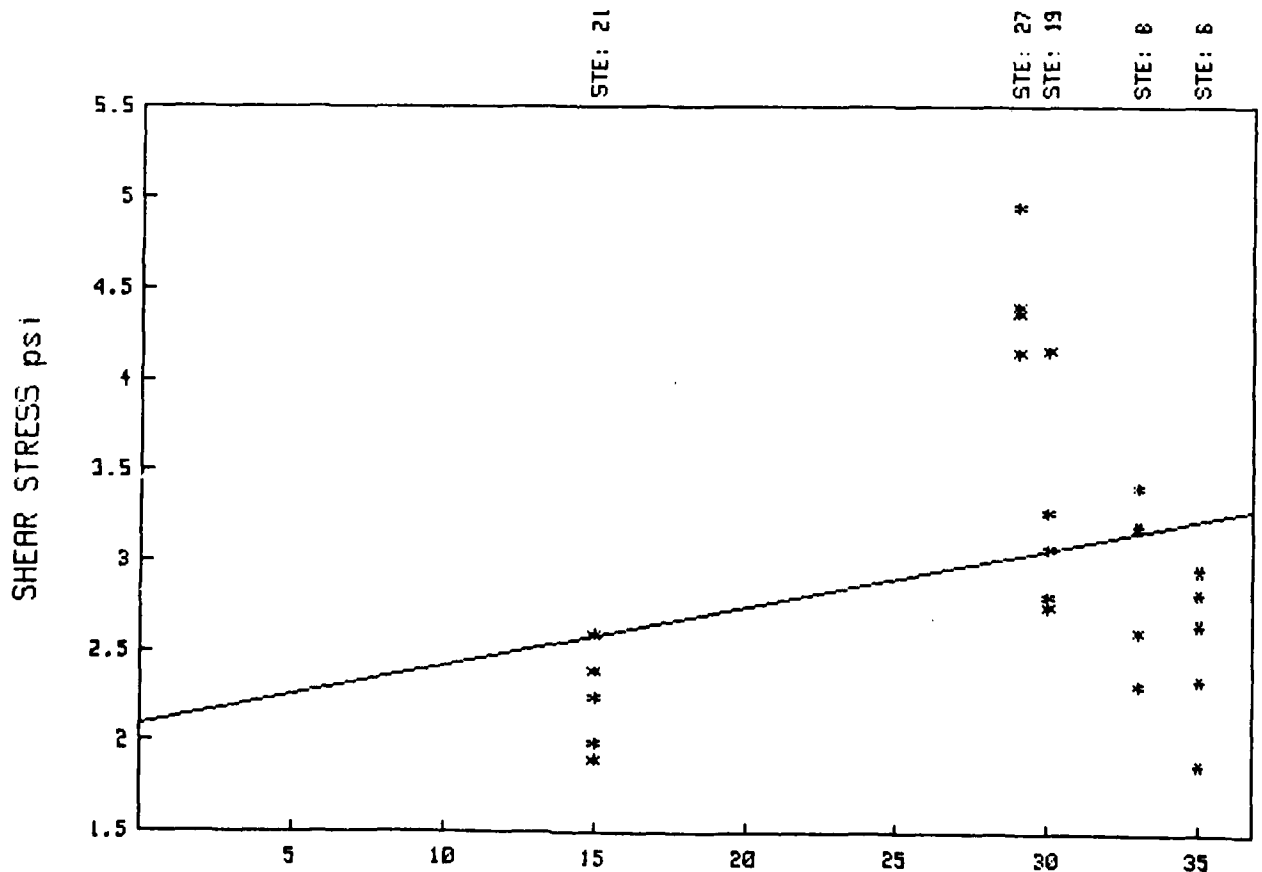


Fig.64

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 19 21 27

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 5.6 psi, ORGAN. INGREDIENTS: >20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.34$$

$$b = 2.0032E-01$$

CORRELATION COEFFICIENT

$$R = .6940$$

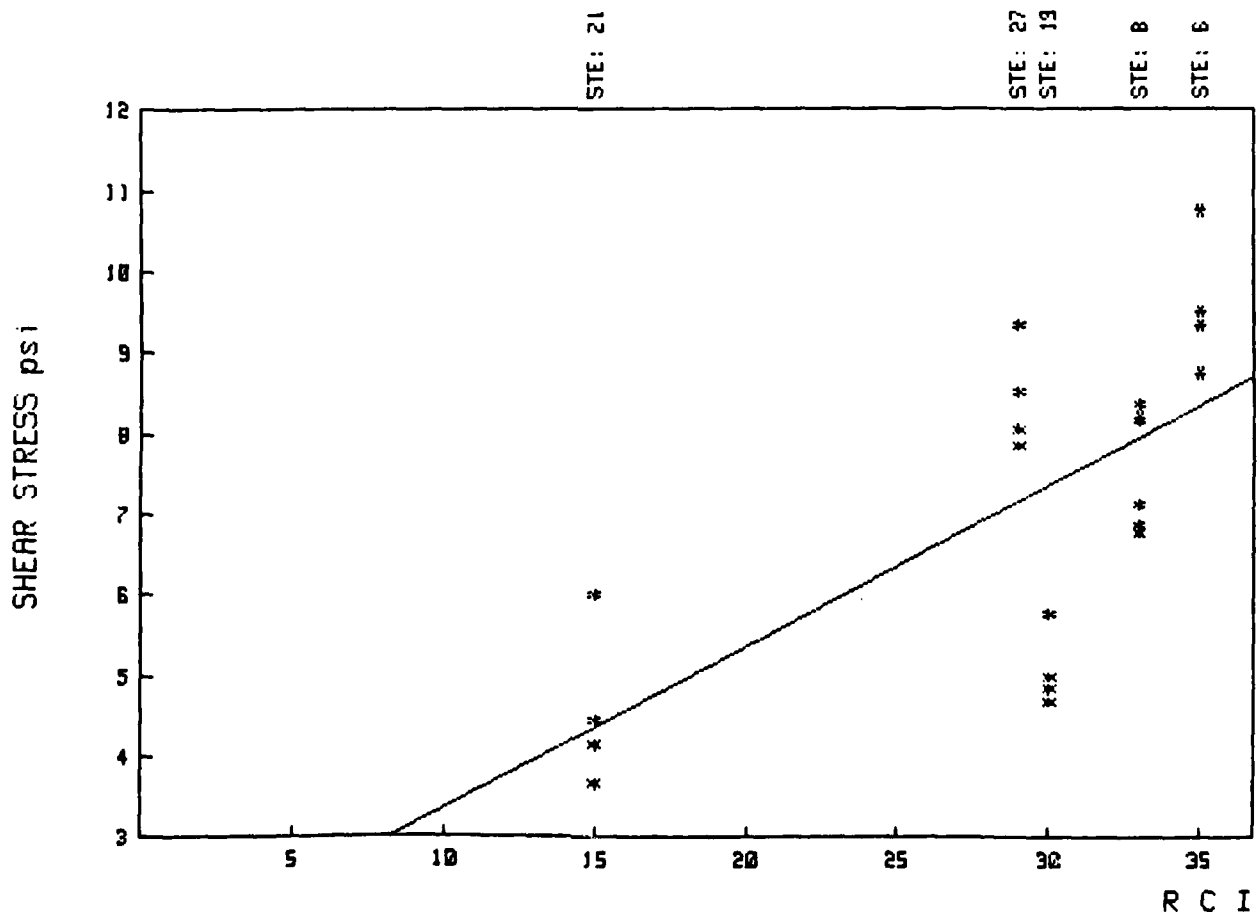


Fig.65

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 19 21 27

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 11.25 psi, ORGAN. INGREDIENTS: >20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 3.49$$

$$b = 2.1290E-01$$

CORRELATION COEFFICIENT

$$R = .5746$$

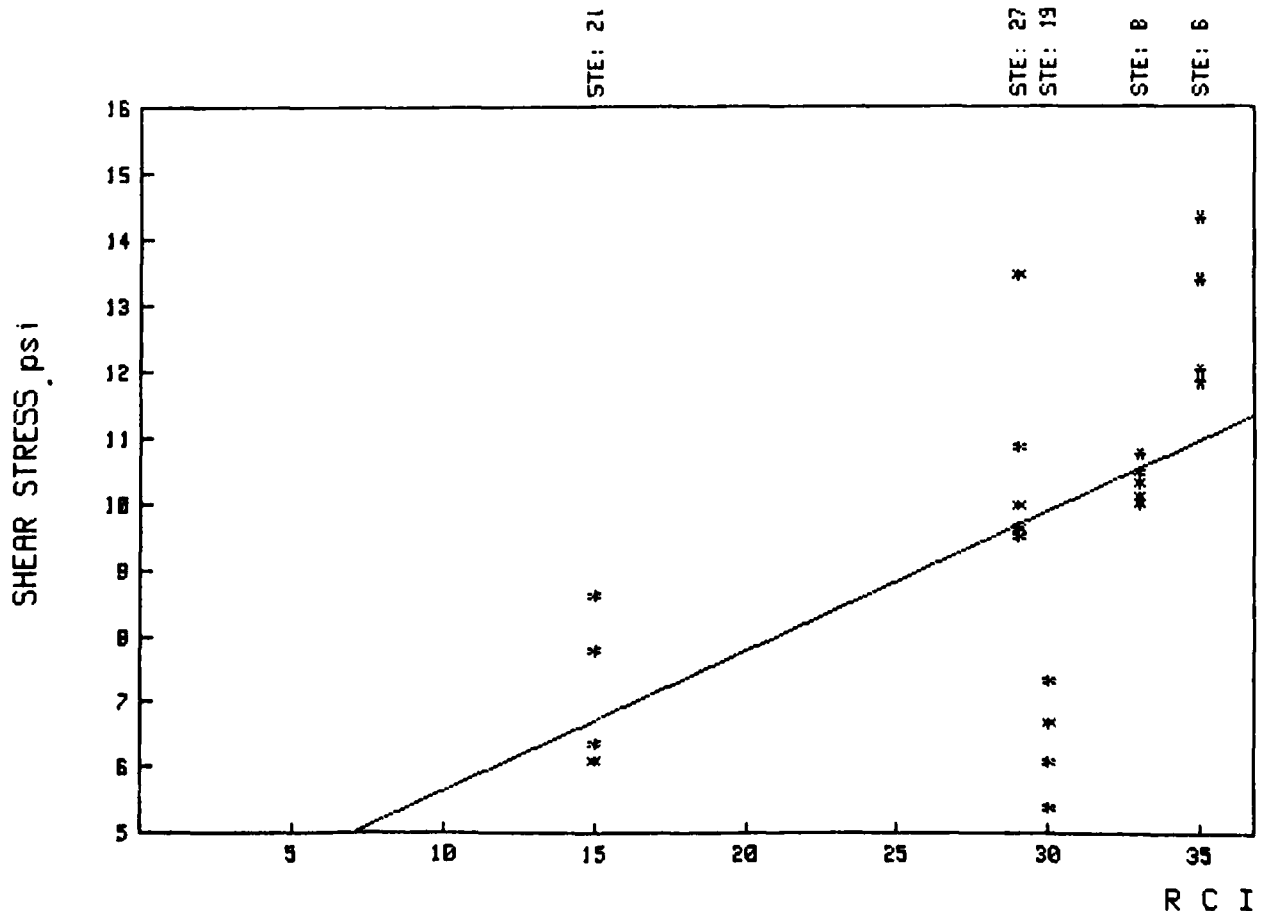


Fig.66

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 3 9 11 12 14 18 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: .5 psi, ORGAN. INGREDIENTS: 5-10%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .85$$

$$b = 5.9400E-02$$

CORRELATION COEFFICIENT

$$R = .6718$$

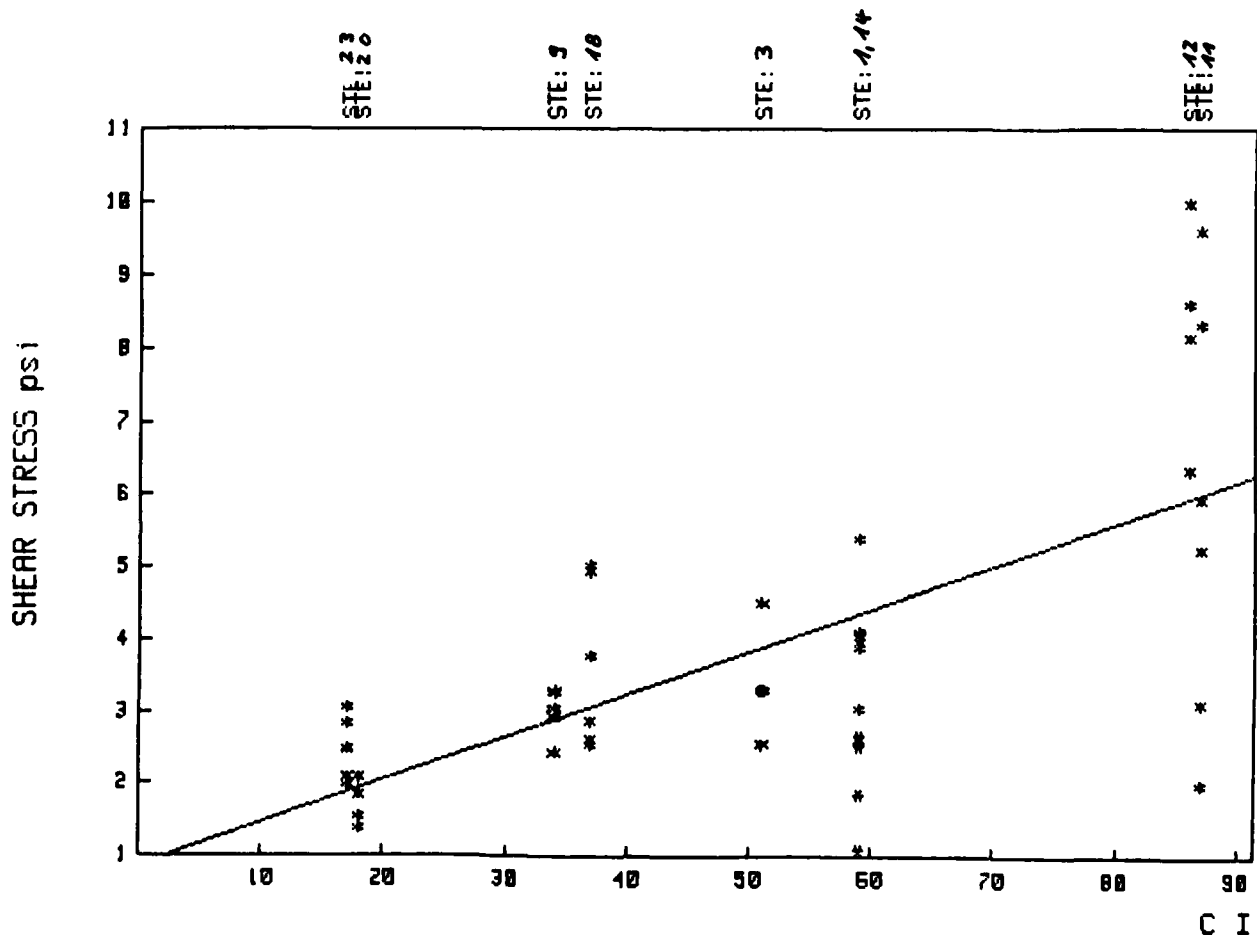


Fig.67

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 3 9 11 12 14 18 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 5.6 psi, ORGAN. INGREDIENTS: 5-10%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.13$$

$$b = 1.3325E-01$$

CORRELATION COEFFICIENT

$$R = .8644$$

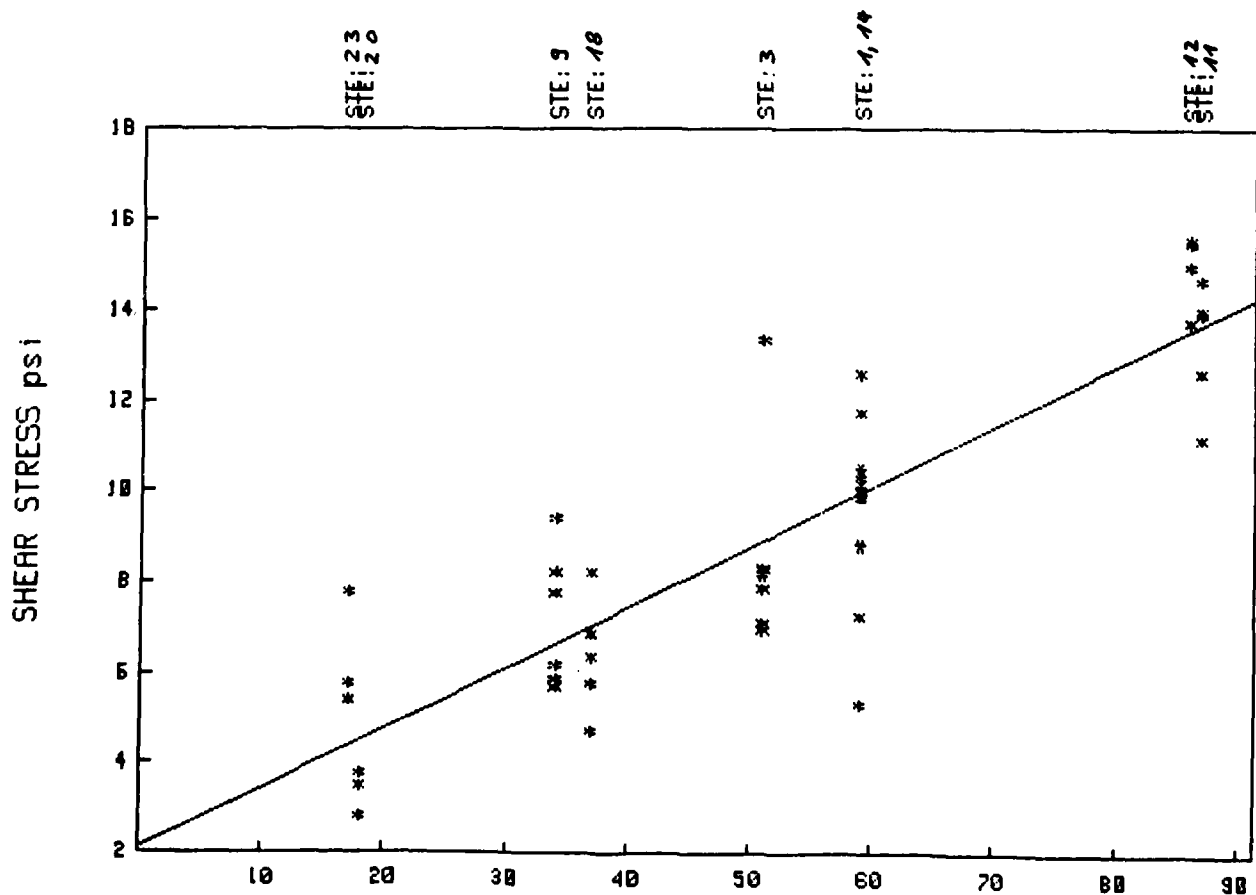


Fig.68

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 3 9 11 12 14 18 20 23

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 11.25 psi, ORGAN. INGREDIENTS: 5-10%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 3.65$$

$$b = 1.5128E-01$$

CORRELATION COEFFICIENT

$$R = .8227$$

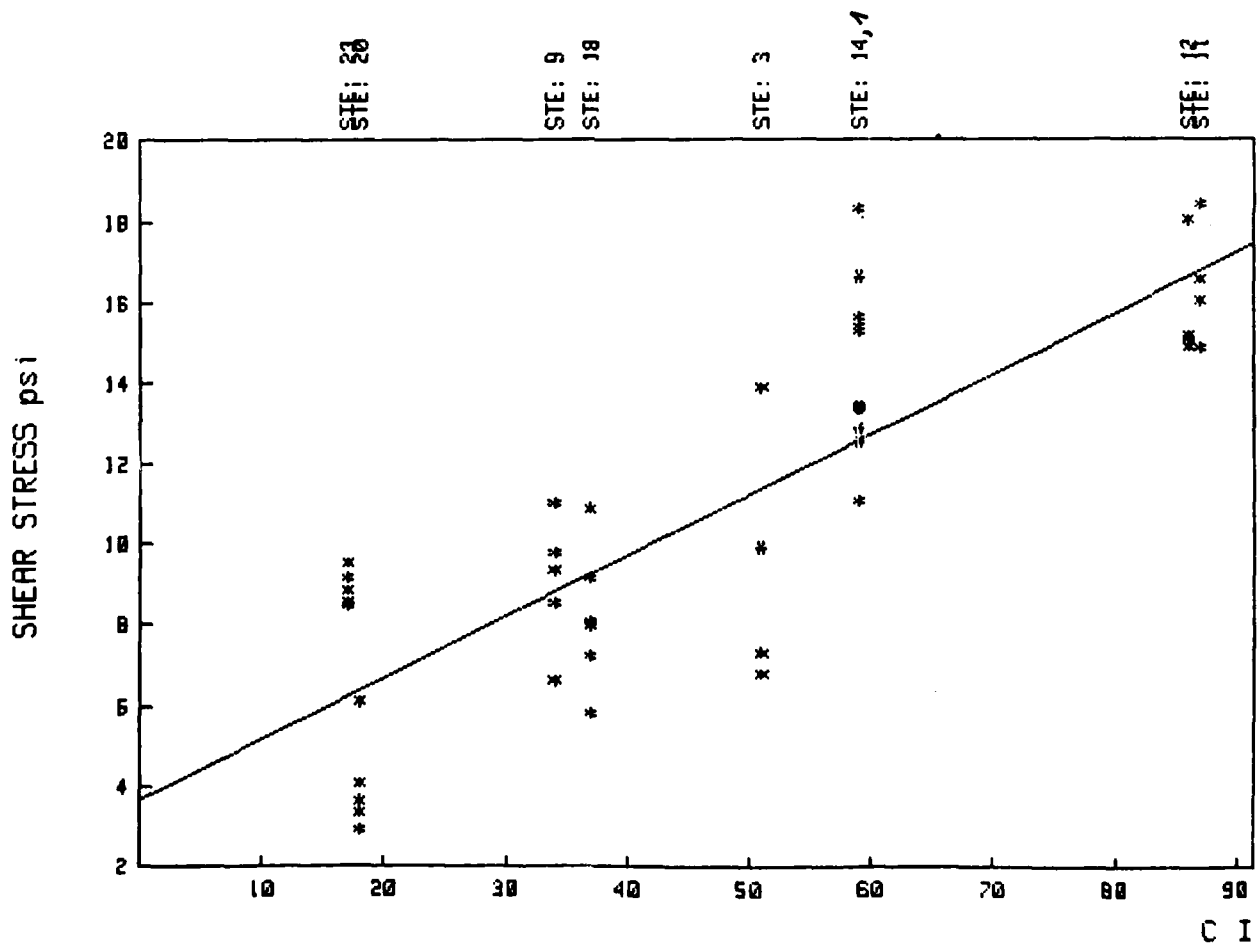


Fig.69

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 28 31 34 35

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: .5 psi, ORGAN. INGREDIENTS: 10-20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -.74$$

$$b = 1.0903E-01$$

CORRELATION COEFFICIENT

$$R = .3548$$

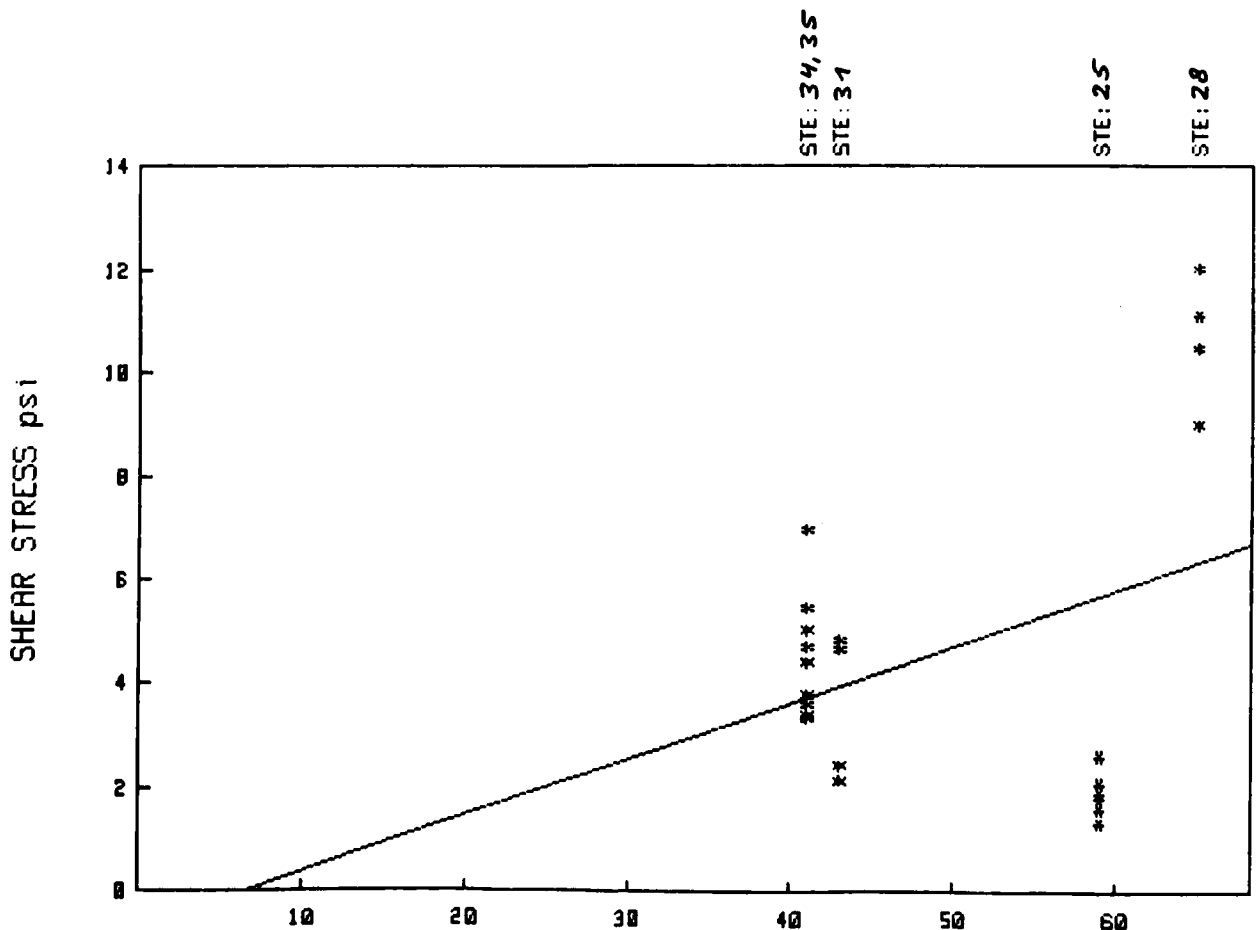


Fig.70

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Organic Ingredients = const.

BATTELLE INSTITUTE FOR ENVIRONMENTAL SCIENCES

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 28 31 34 35

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 5.6 psi, ORGAN. INGREDIENTS: 10-20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 6.17$$

$$b = 5.0287E-02$$

CORRELATION COEFFICIENT

$$R = .1152$$

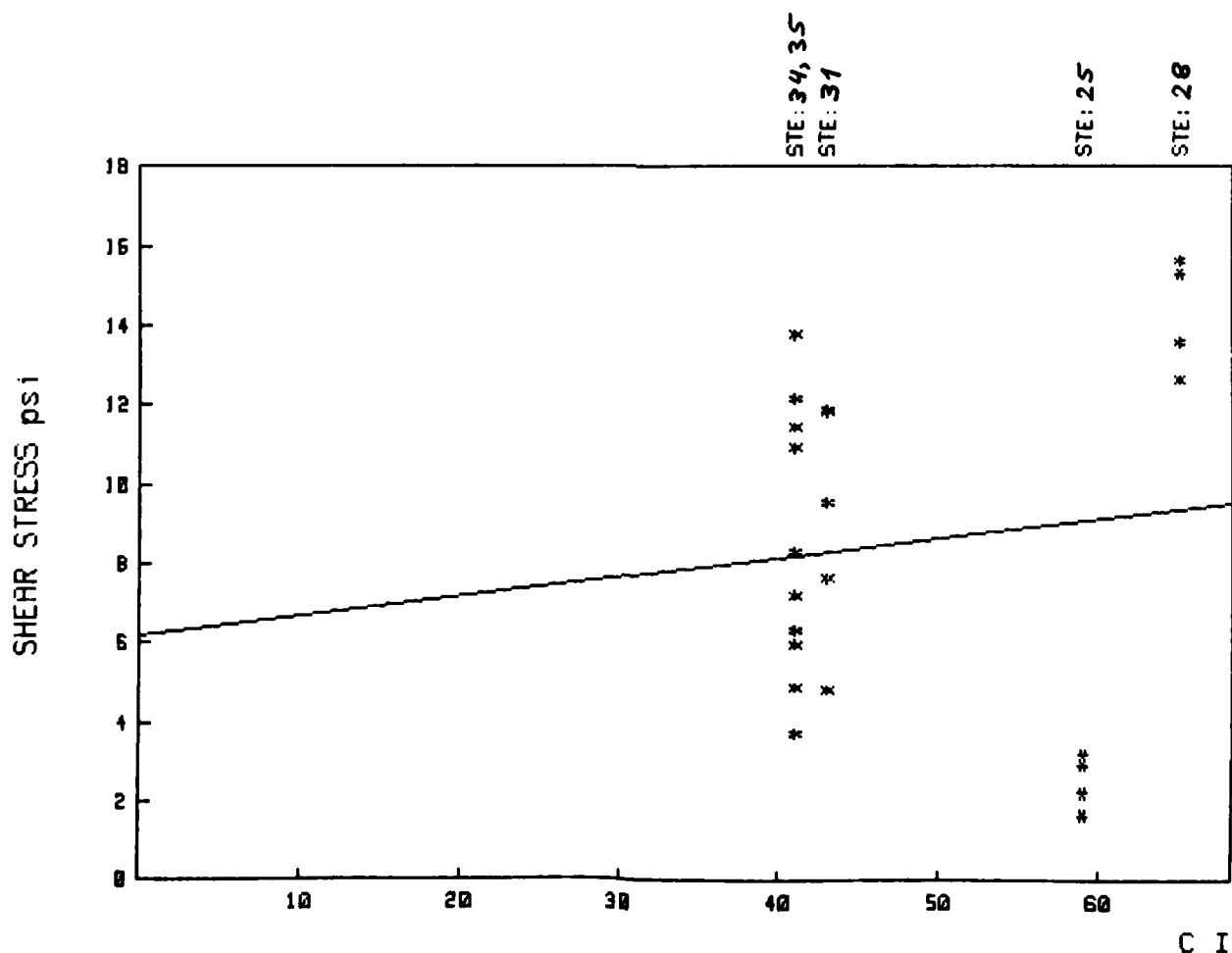


Fig.71

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 28 31 34 35

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 11.25 psi, ORGAN. INGREDIENTS: 10-20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -.02$$

$$b = 1.9382E-01$$

CORRELATION COEFFICIENT

$$R = .3672$$

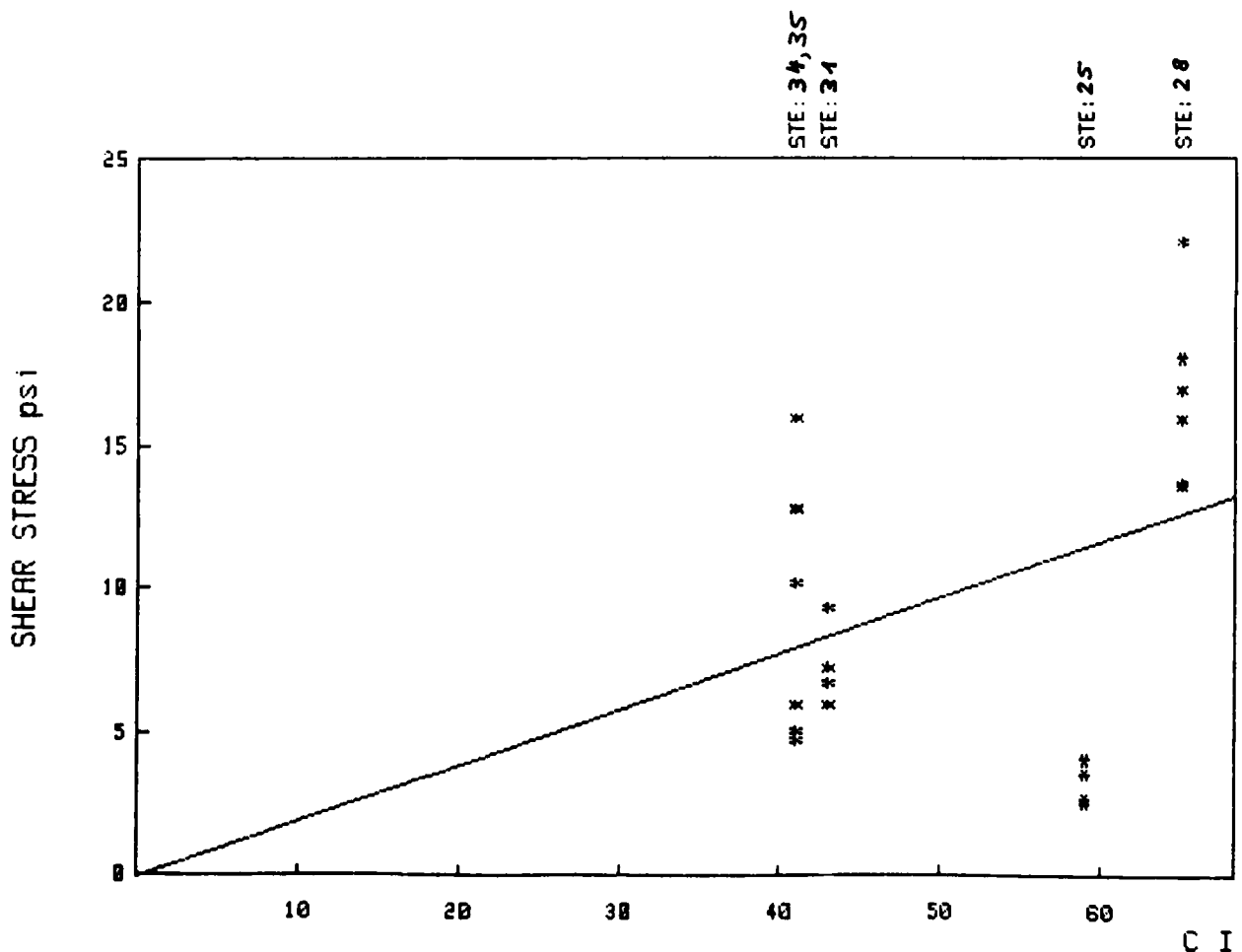


Fig.72

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 19 21 27

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: .5 psi, ORGAN. INGREDIENTS: > 20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.32$$

$$b = 3.1725E-02$$

CORRELATION COEFFICIENT

$$R = .6845$$

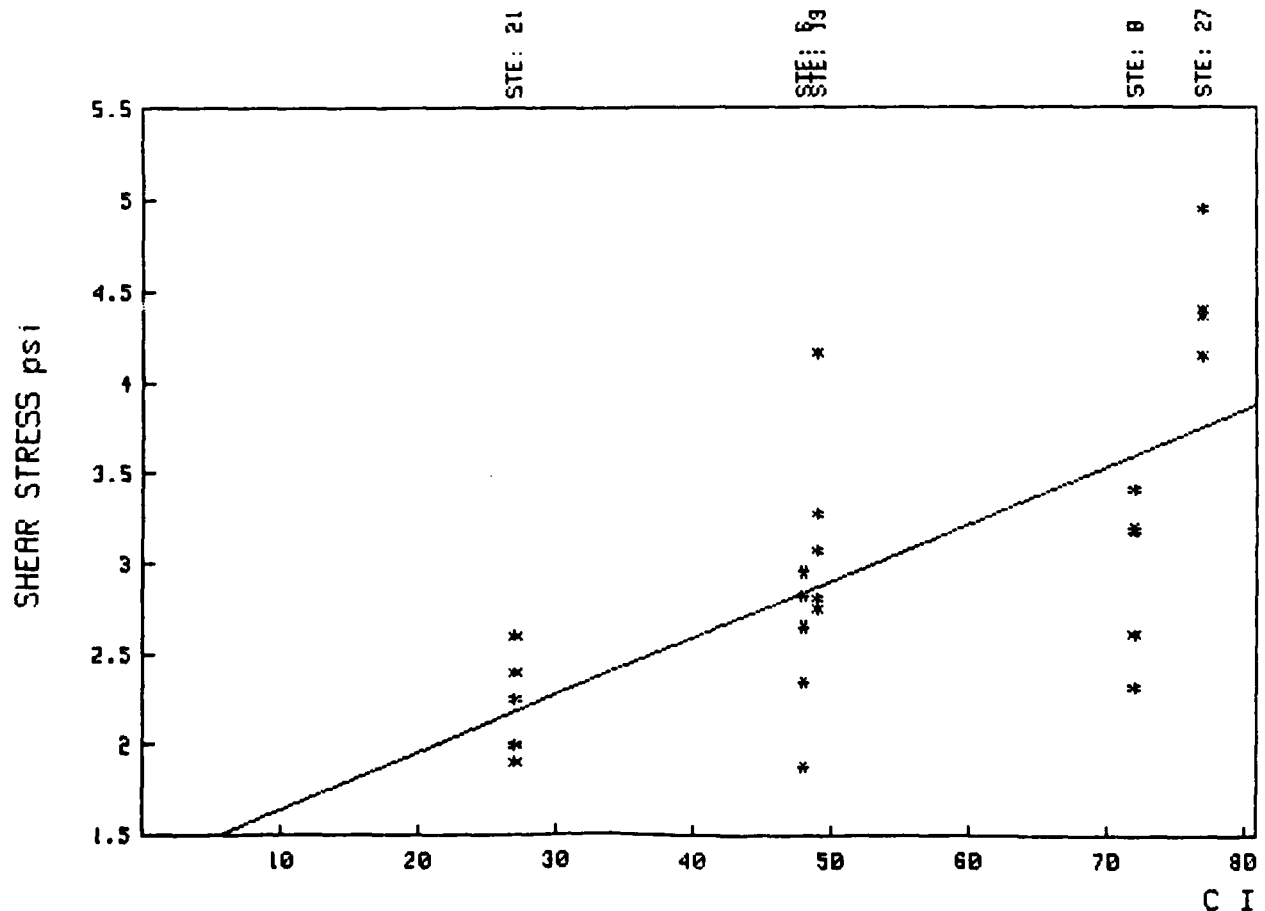


Fig.73

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Organic Ingredients = const.

BALFOUR INSTITUTE FOR TRANSPORTATION

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 19 21 27

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 5.6 psi, ORGAN. INGREDIENTS: > 20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 3.70$$

$$b = 6.0682E-02$$

CORRELATION COEFFICIENT

$$R = .5533$$

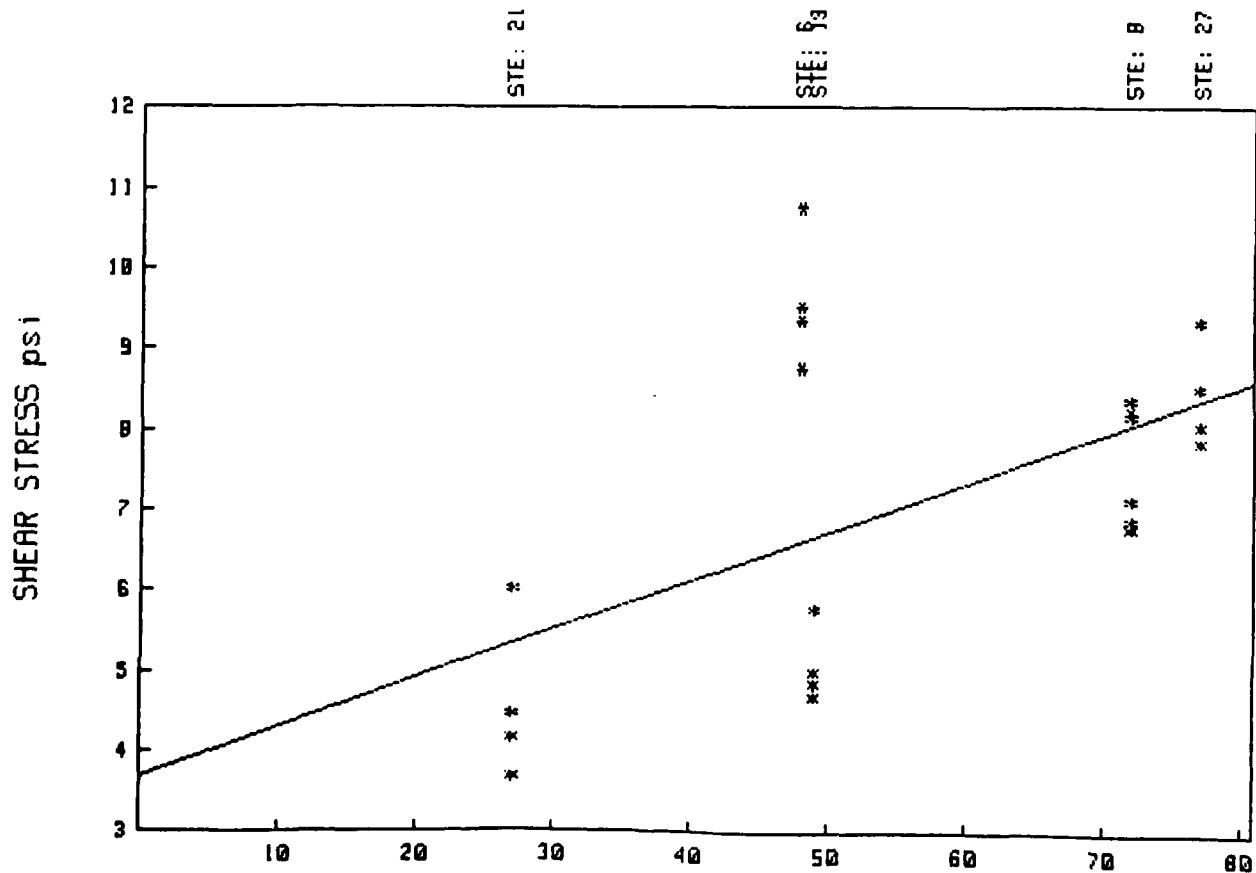


Fig.74

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Organic Ingredients = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

6 8 19 21 27

CORRELATION CONSTANTS :

SAMPLE DEPTH: 4 inch, NORMAL STRESS: 11.25 psi, ORGAN. INGREDIENTS: >20%

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 6.23$$

$$b = 5.9602E-02$$

CORRELATION COEFFICIENT

$$R = .4326$$

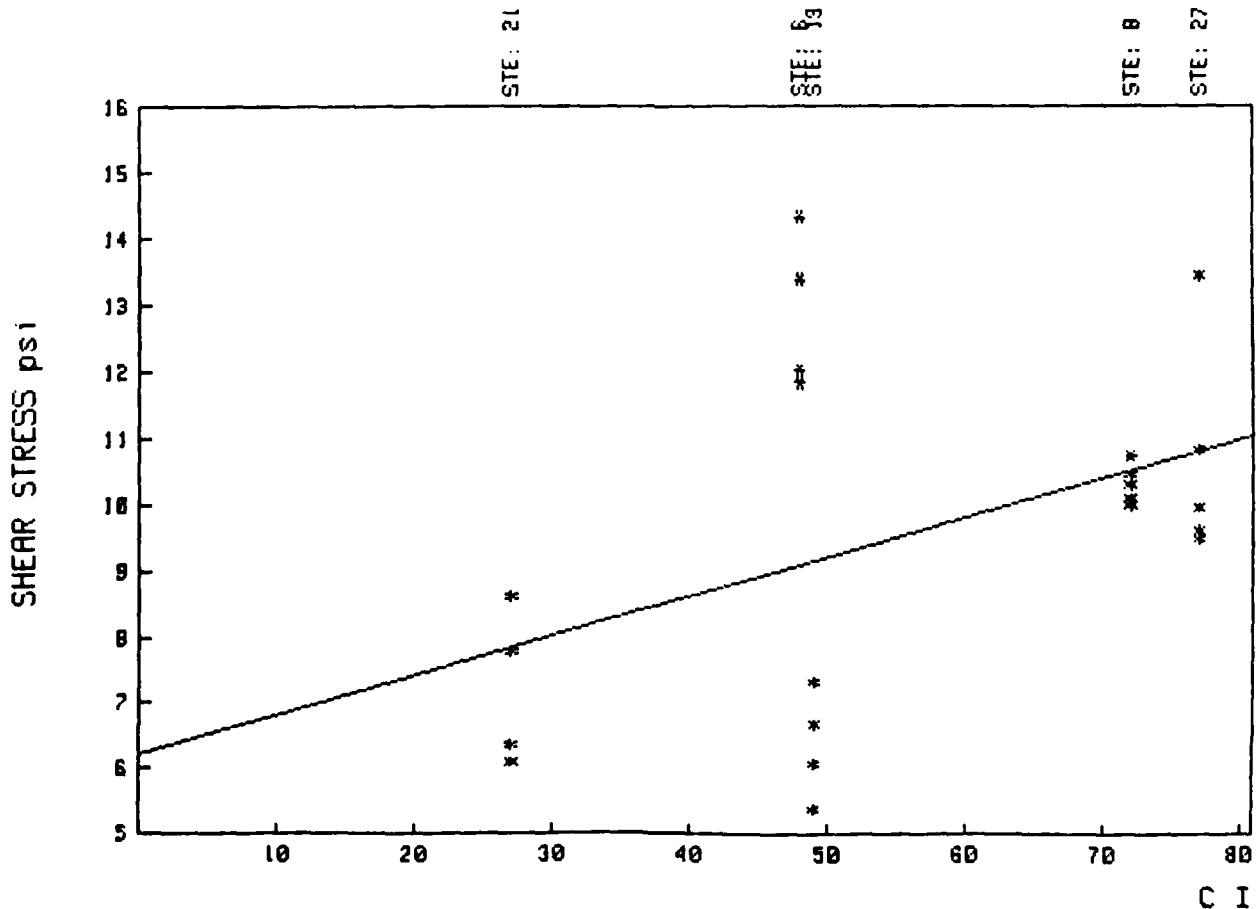


Fig.75

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Organic Ingredients = const.

DATA COLLECTED FROM FIELD TESTS AND LABORATORY TESTS

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 9 11 14 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, PLASTICITY : 0 - 20 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.94$$

$$b = 4.3902E-02$$

CORRELATION COEFFICIENT

$$R = .5085$$

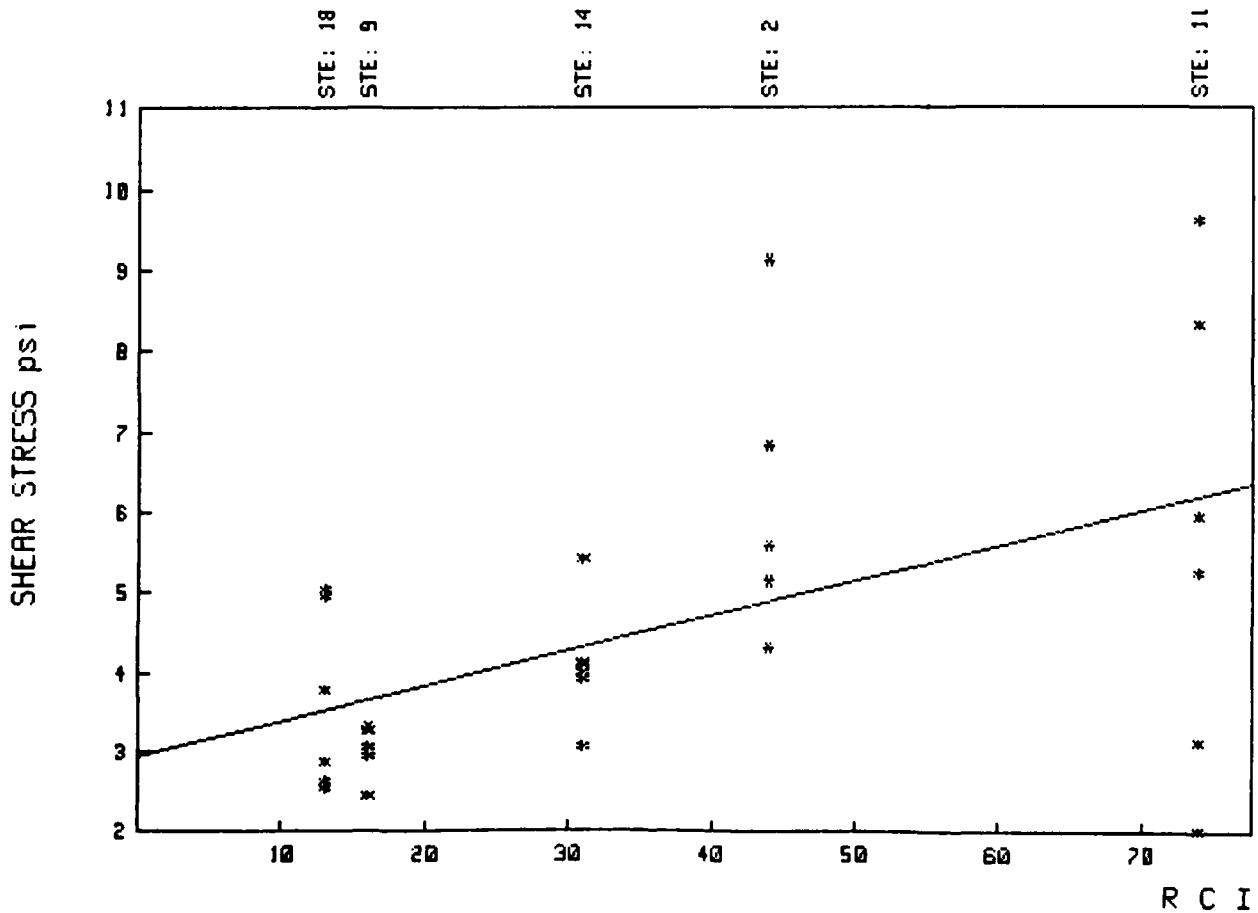


Fig.76

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 9 11 14 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, PLASTICITY : 0 - 20 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 5.62$$

$$b = 1.1305E-01$$

CORRELATION COEFFICIENT

$$R = .8188$$

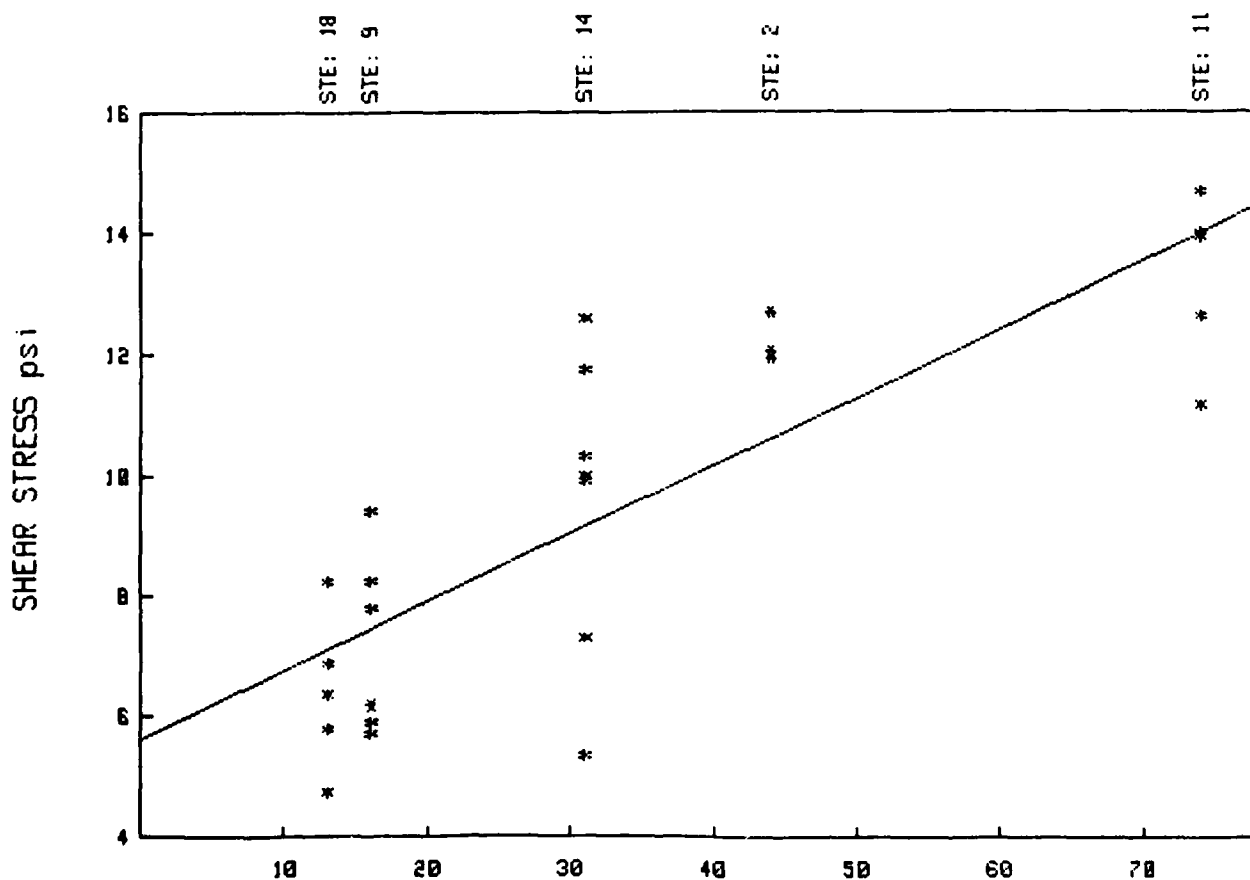


Fig.77

Correlation of Cone Index/Rating Cone Index and Shear R C I
Box Data for Plasticity = const.

AD-A171 697

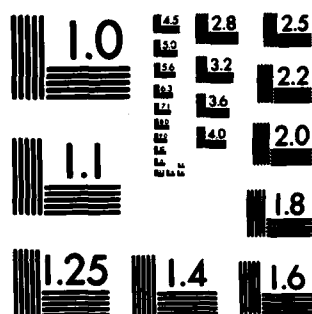
GENERALLY BASED MOBILITY-TERRAIN DATA BASES(U)
BATTLE-INSTITUT E U FRANKFURT AM MAIN (GERMANY F R)
P JESSL ET AL. MAR 86 BLEU-R-66.069-1 DAJA45-84-C-0839

2/3

UNCLASSIFIED

F/G 8/6

NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 9 11 14 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, PLASTICITY : 0 - 20 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 7.74$$

$$b = 1.2686E-01$$

CORRELATION COEFFICIENT

$$R = .7363$$

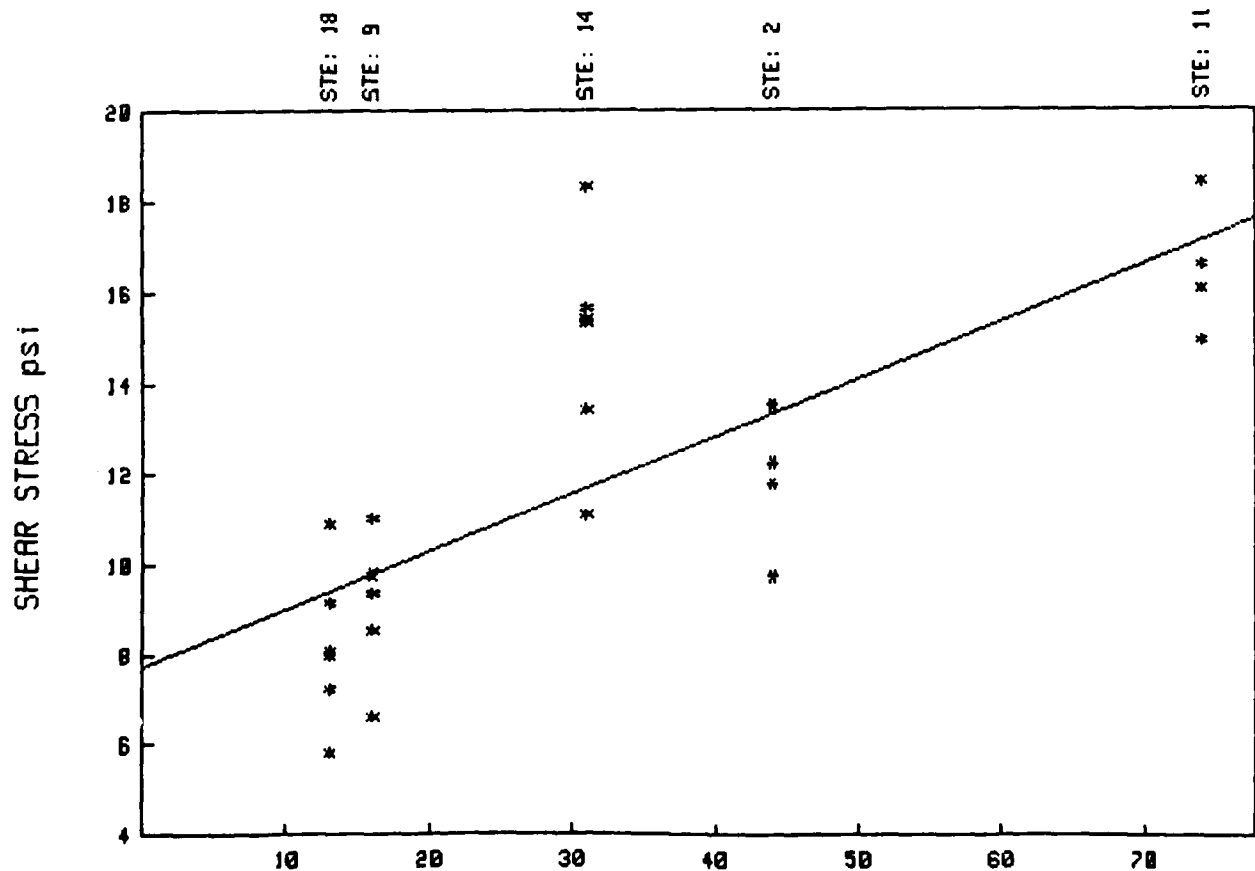


Fig.78

Correlation of Cone Index/Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, PLASTICITY : 20 - 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .48$$

$$b = 9.5005E-02$$

CORRELATION COEFFICIENT

$$R = .5154$$

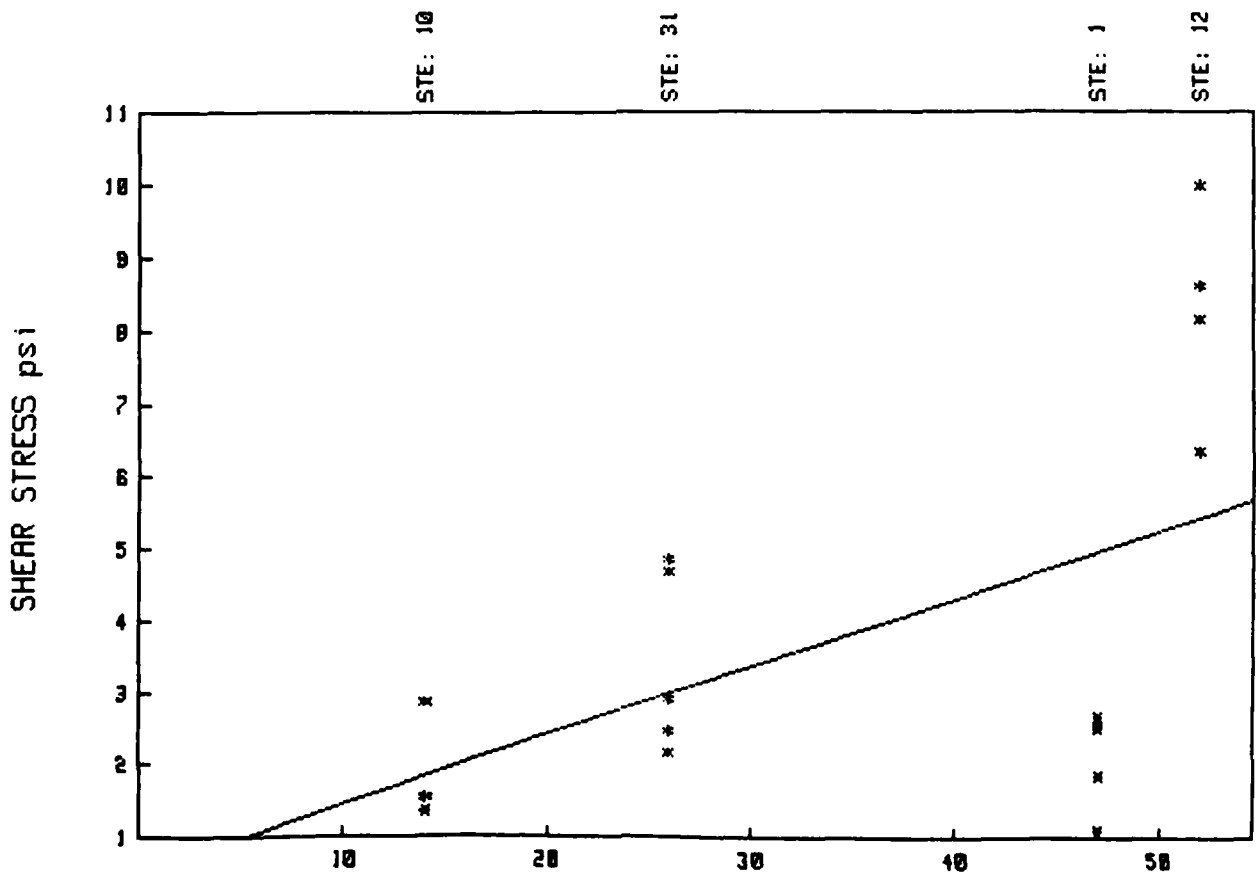


Fig.79

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Plasticity = const.

MAI 1985 - INVESTIGATION OF CRITICAL SOIL PARAMETERS

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, PLASTICITY : 20 - 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = .89$$

$$b = 2.4358E-01$$

CORRELATION COEFFICIENT

$$R = .8372$$

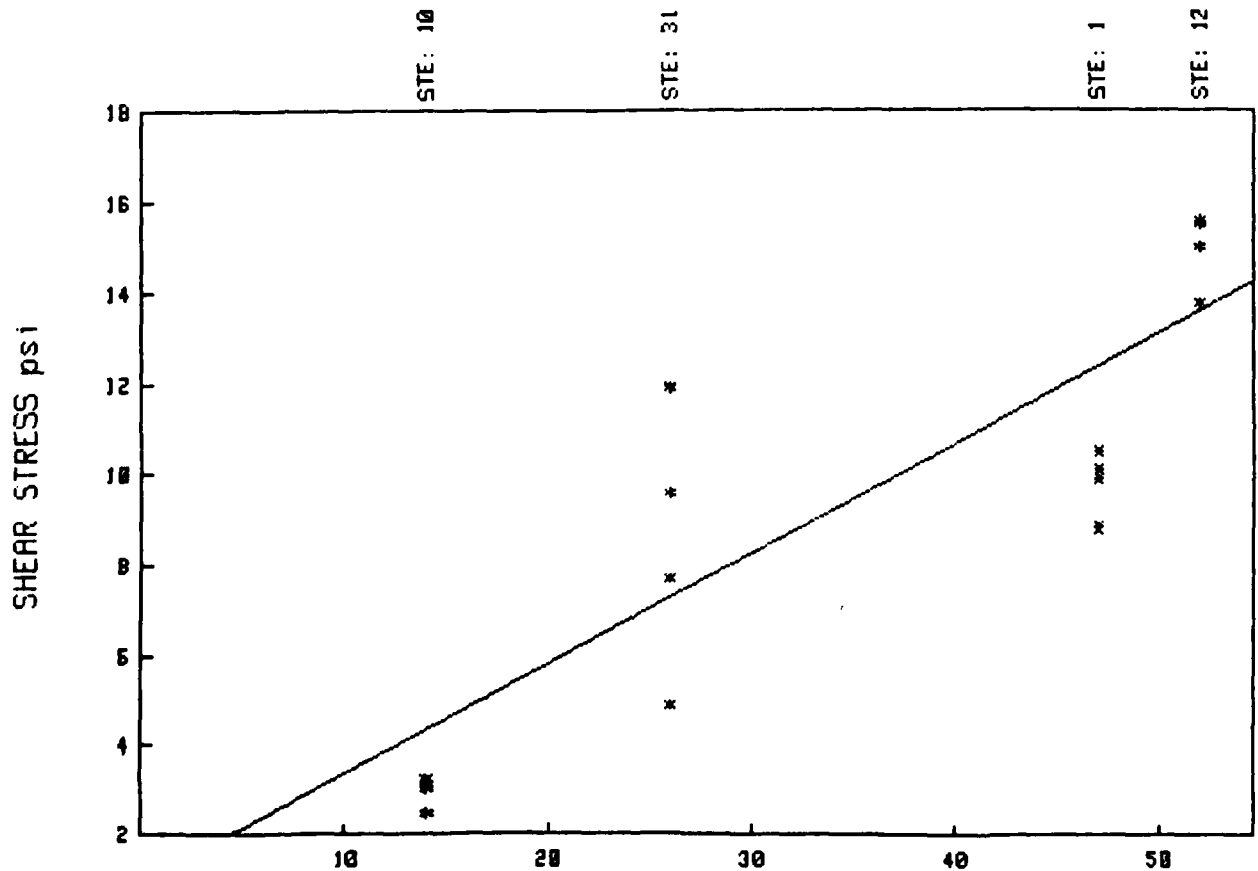


Fig.80

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, PLASTICITY : 20 - 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -.73$$

$$b = 3.1357E-01$$

CORRELATION COEFFICIENT

$$R = .9724$$

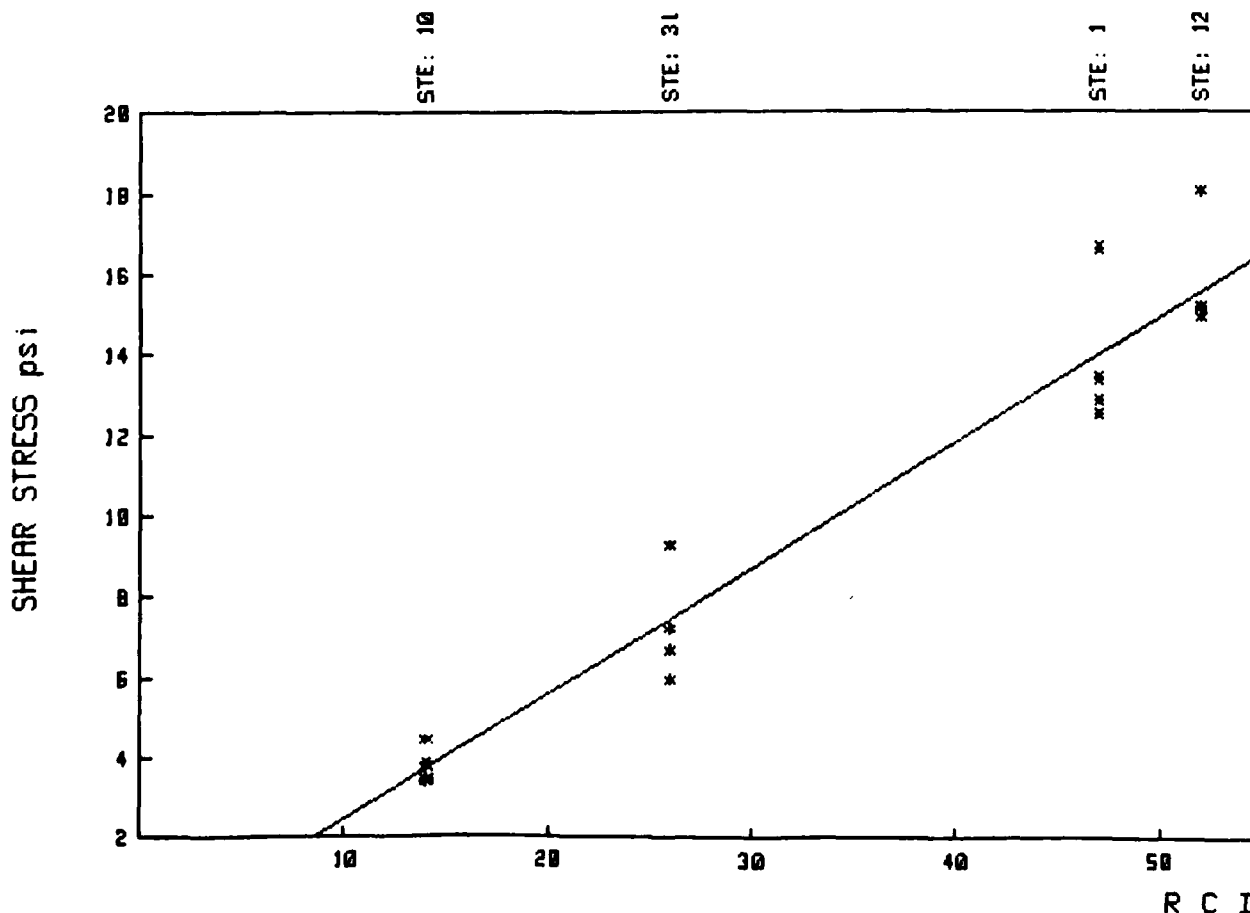


Fig.81

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 27 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, PLASTICITY : > 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -16.00$$

$$b = 6.7023E-01$$

CORRELATION COEFFICIENT

$$R = .7179$$

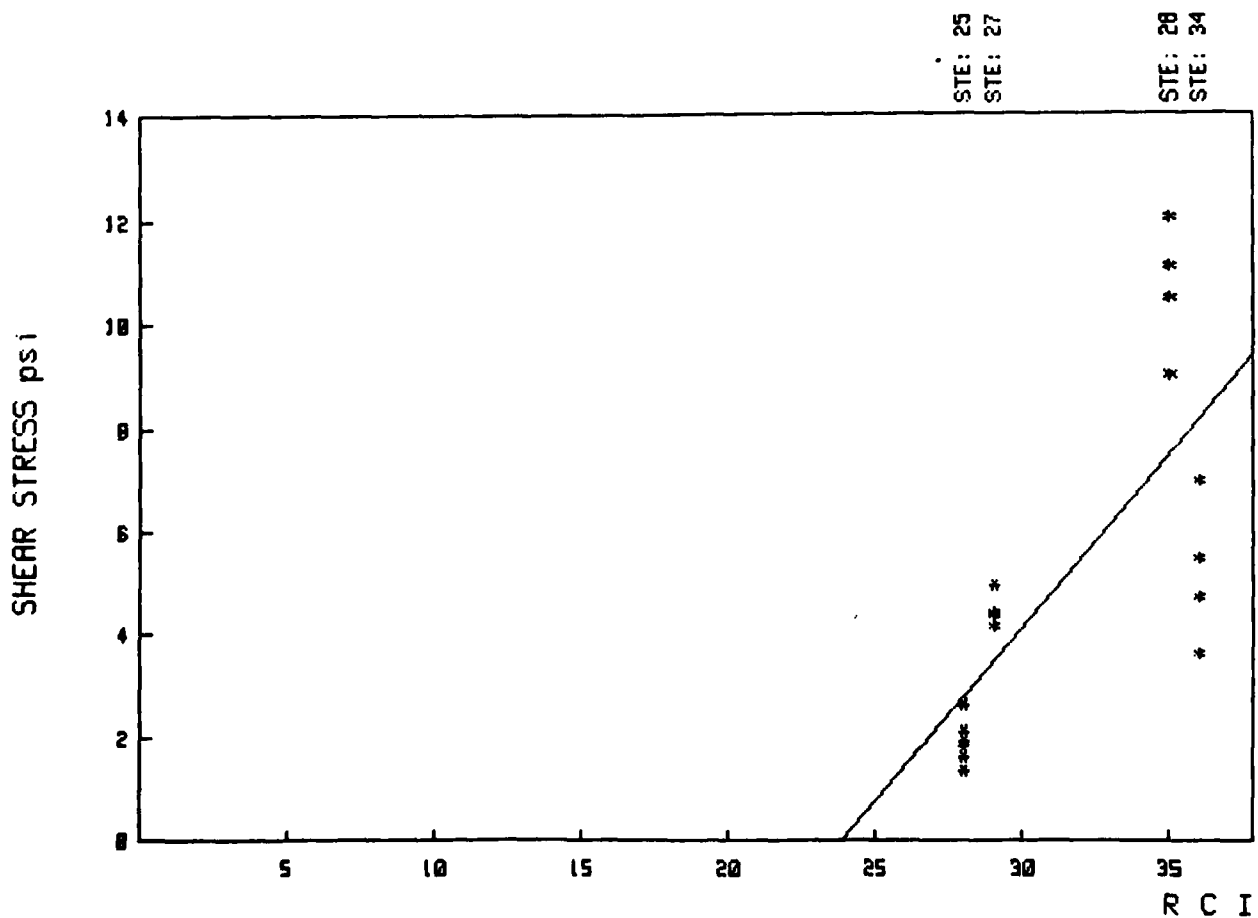


Fig.82

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 27 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, PLASTICITY : > 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -26.42$$

$$b = 1.1176E+00$$

CORRELATION COEFFICIENT

$$R = .8684$$

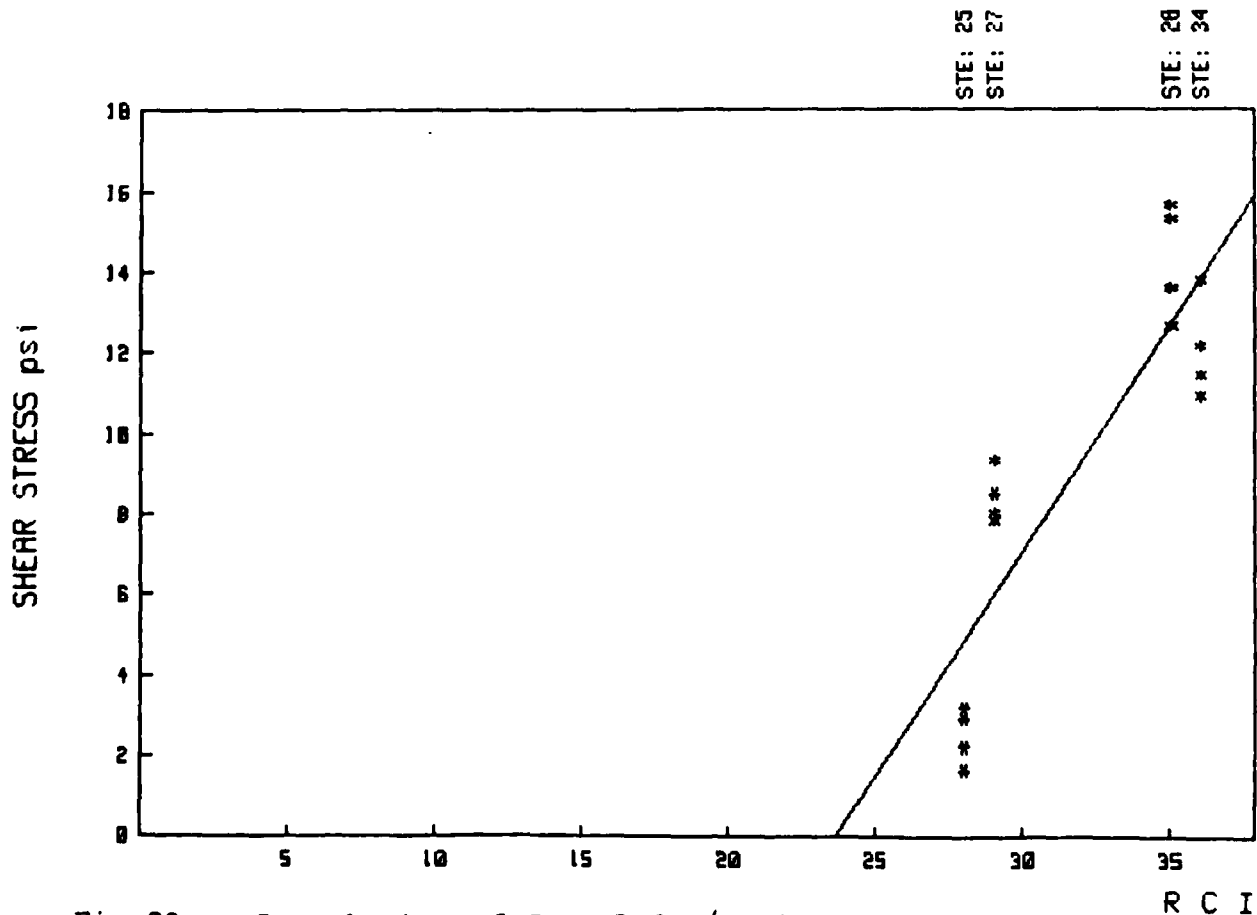


Fig.83

Correlation of Cone Index/Rating Cone Index and Shear
Box Data for Plasticity = const.

BALTIMORE INSTITUTE FOR FRANKFURT AM MAIN

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 27 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, PLASTICITY : > 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -28.86$$

$$b = 1.2655E+00$$

CORRELATION COEFFICIENT

$$R = .7999$$

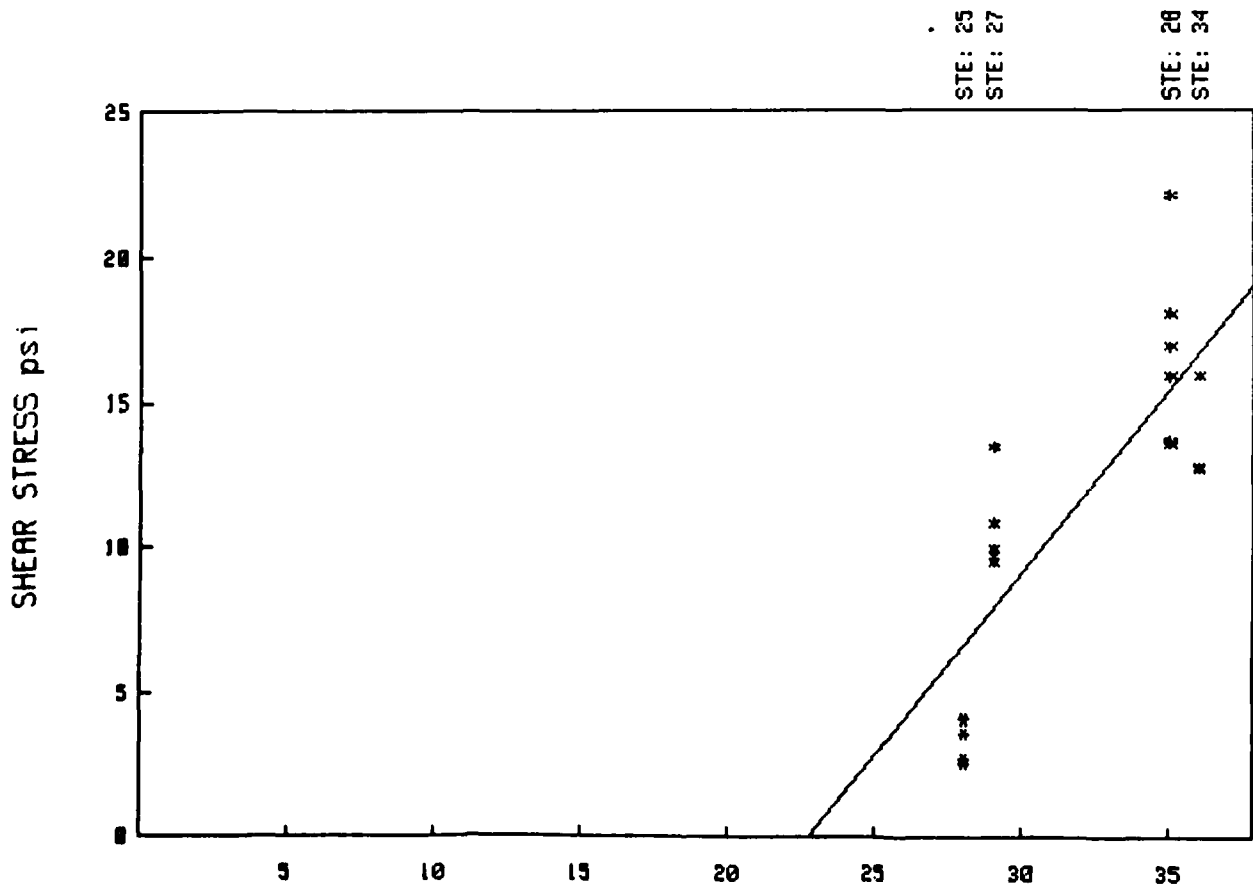


Fig.84

Correlation of Cone Index/Rating Cone Index and Shear^{R C I}
Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 9 11 14 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, PLASTICITY : 0 - 20 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 1.80$$

$$b = 4.8728E-02$$

CORRELATION COEFFICIENT

$$R = .4823$$

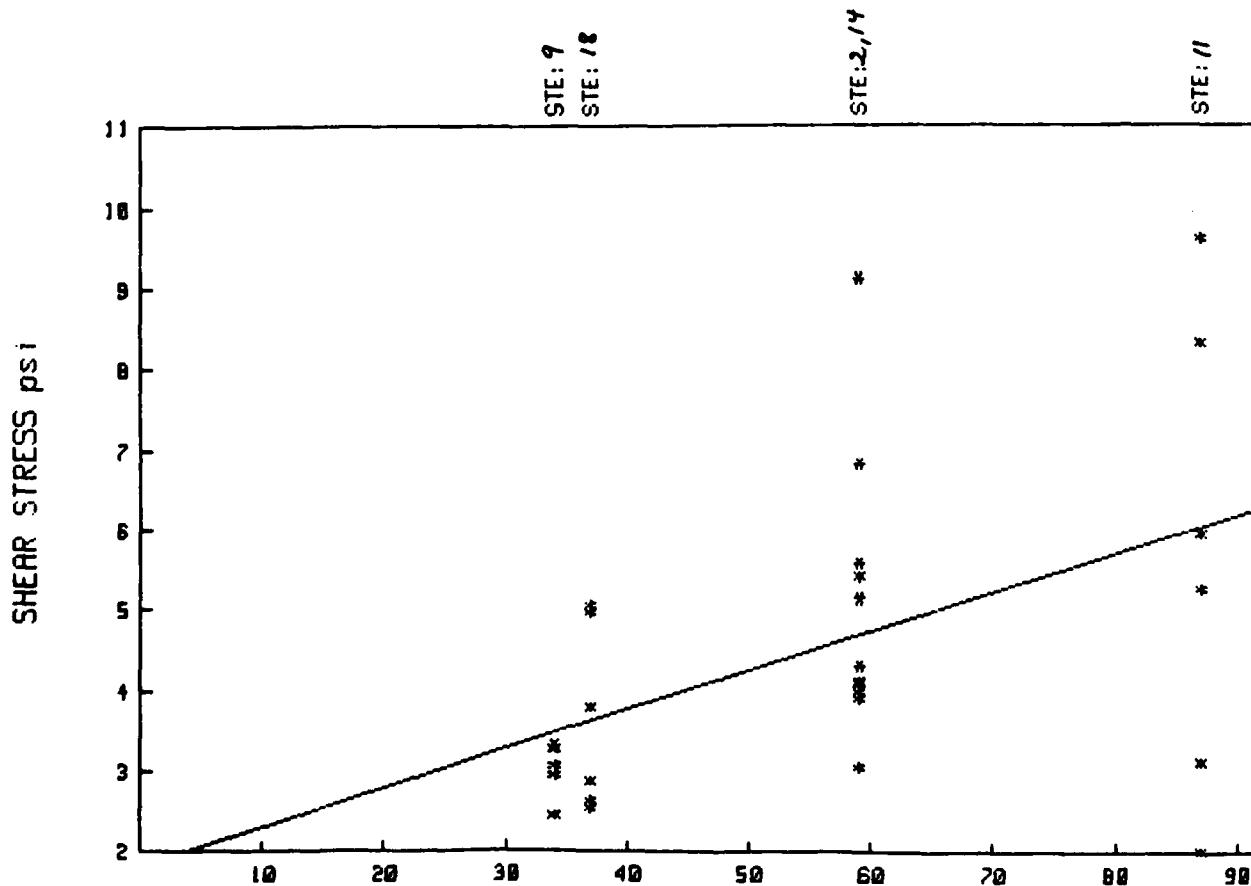


Fig.85

Correlation of Cone Index/Rating Cone Index and Shear C I
Box Data for Plasticity = const.

BATTELLE INSTITUTE FOR FRANKLIN COUNTY

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 9 11 14 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, PLASTICITY : 0 - 20 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 2.53$$

$$b = 1.2707E-01$$

CORRELATION COEFFICIENT

$$R = .8035$$

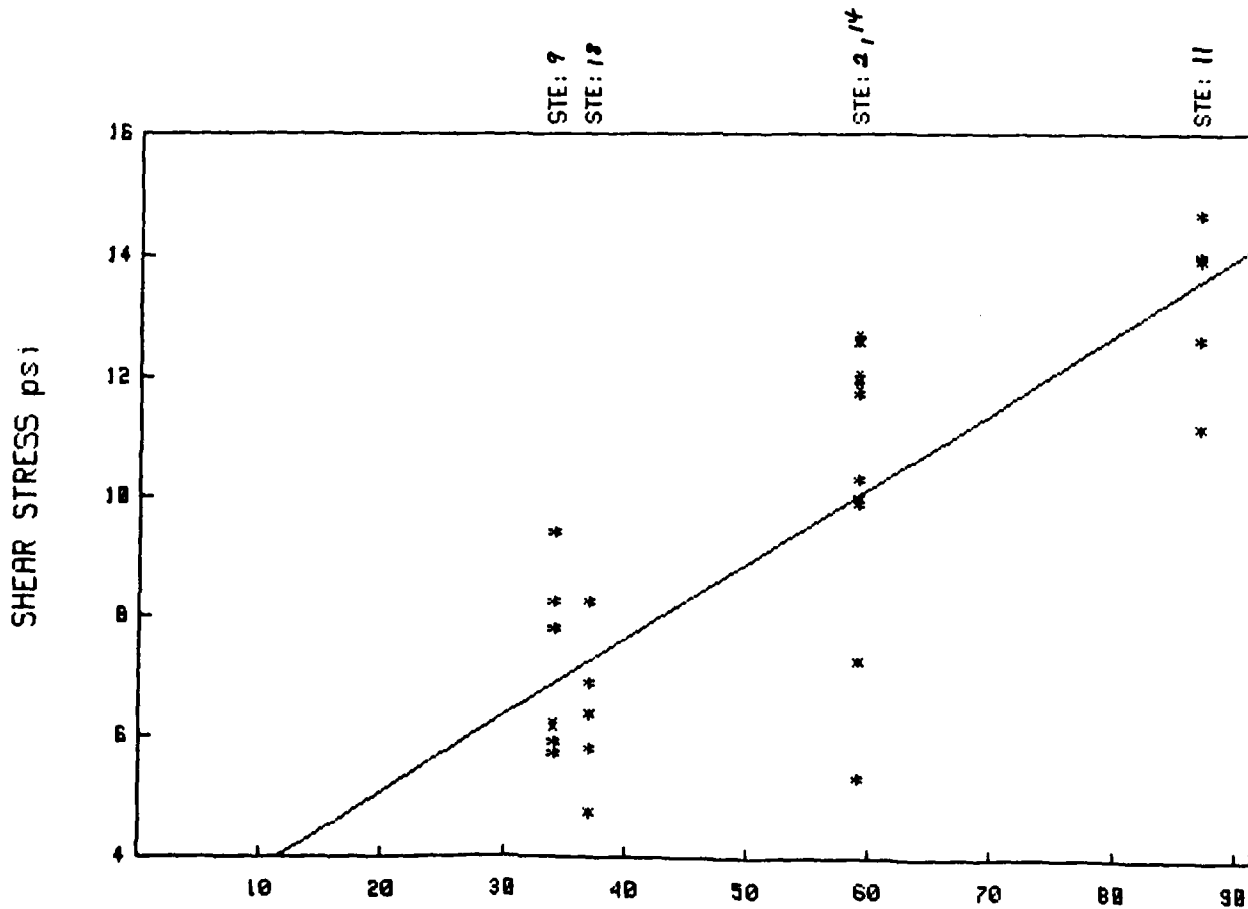


Fig.86

Correlation of Cone Index/Rating Cone Index and Shear C I
Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

2 9 11 14 18

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, PLASTICITY : 0 - 20 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 3.20$$

$$b = 1.6357E-01$$

CORRELATION COEFFICIENT

$$R = .8202$$

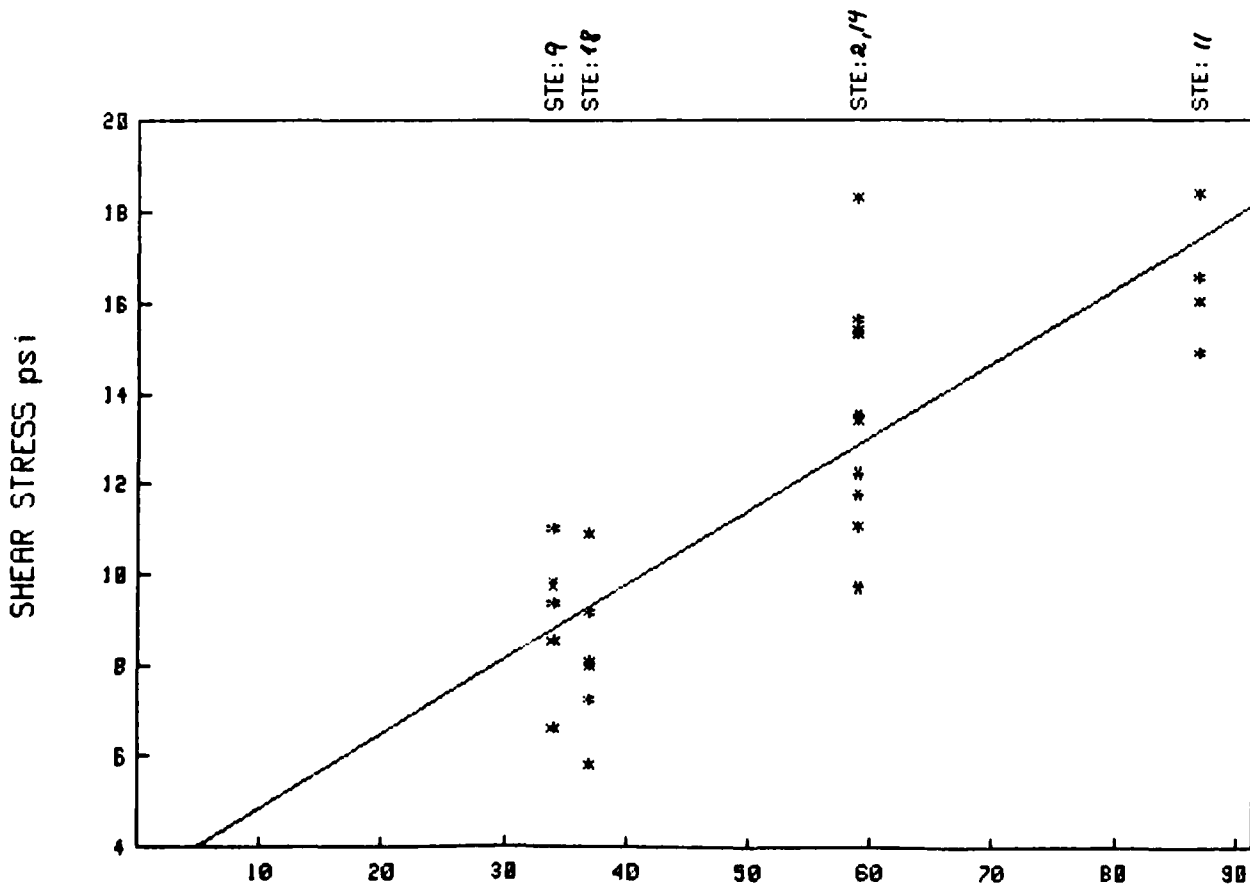


Fig. 87

Correlation of Cone Index/Rating Cone Index and Shear C I
Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, PLASTICITY : 20 - 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -1.94$$

$$b = 1.0551E-01$$

CORRELATION COEFFICIENT

$$R = .7721$$

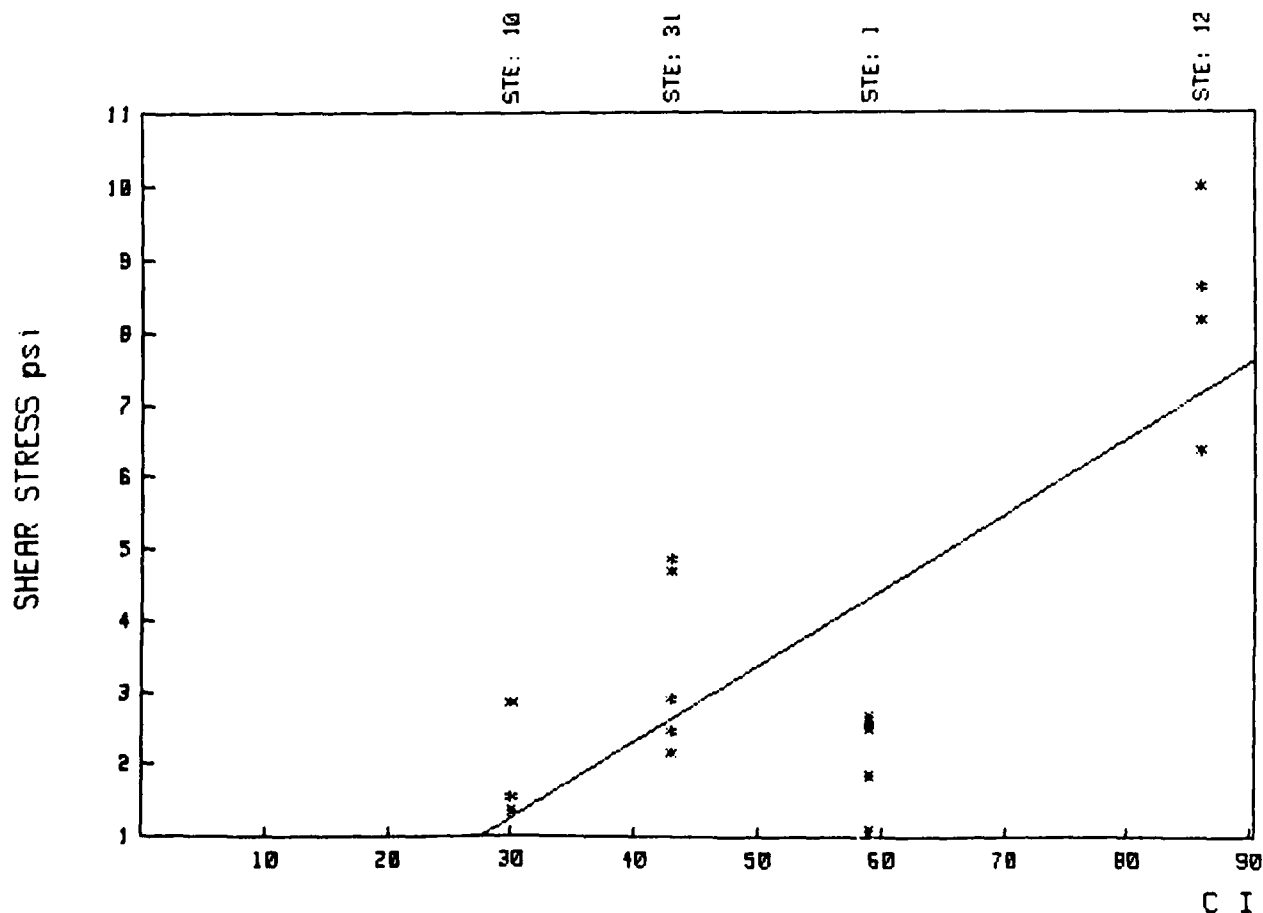


Fig.88

Correlation of Cone Index/Rating Cone Index and Shear Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, PLASTICITY : 20 - 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -.99$$

$$b = 1.9000E-01$$

CORRELATION COEFFICIENT

$$R = .8824$$

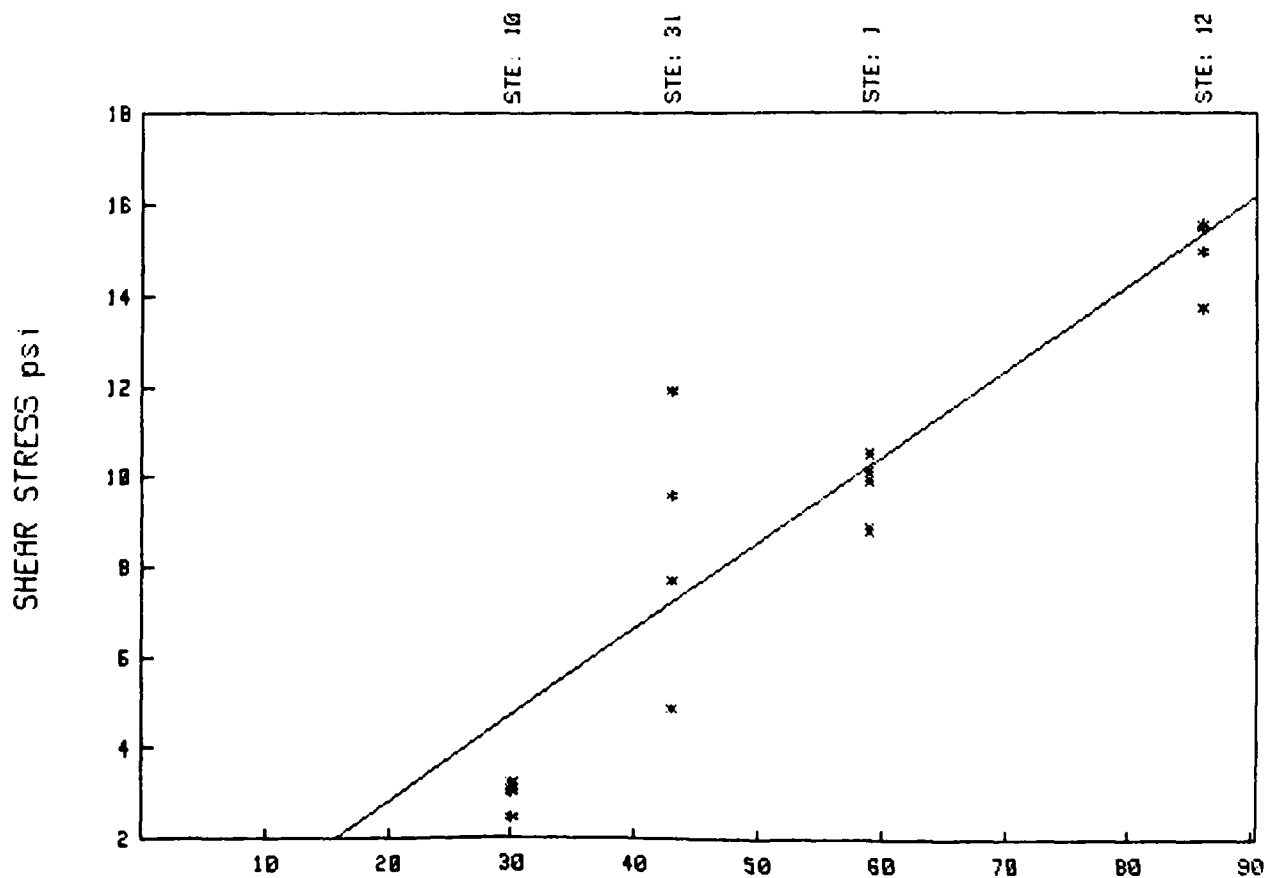


Fig.89

Correlation of Cone Index/Rating Cone Index and Shear C I
Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

1 10 12 31

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, PLASTICITY : 20 - 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = -2.05$$

$$b = 2.2597E-01$$

CORRELATION COEFFICIENT

$$R = .9201$$

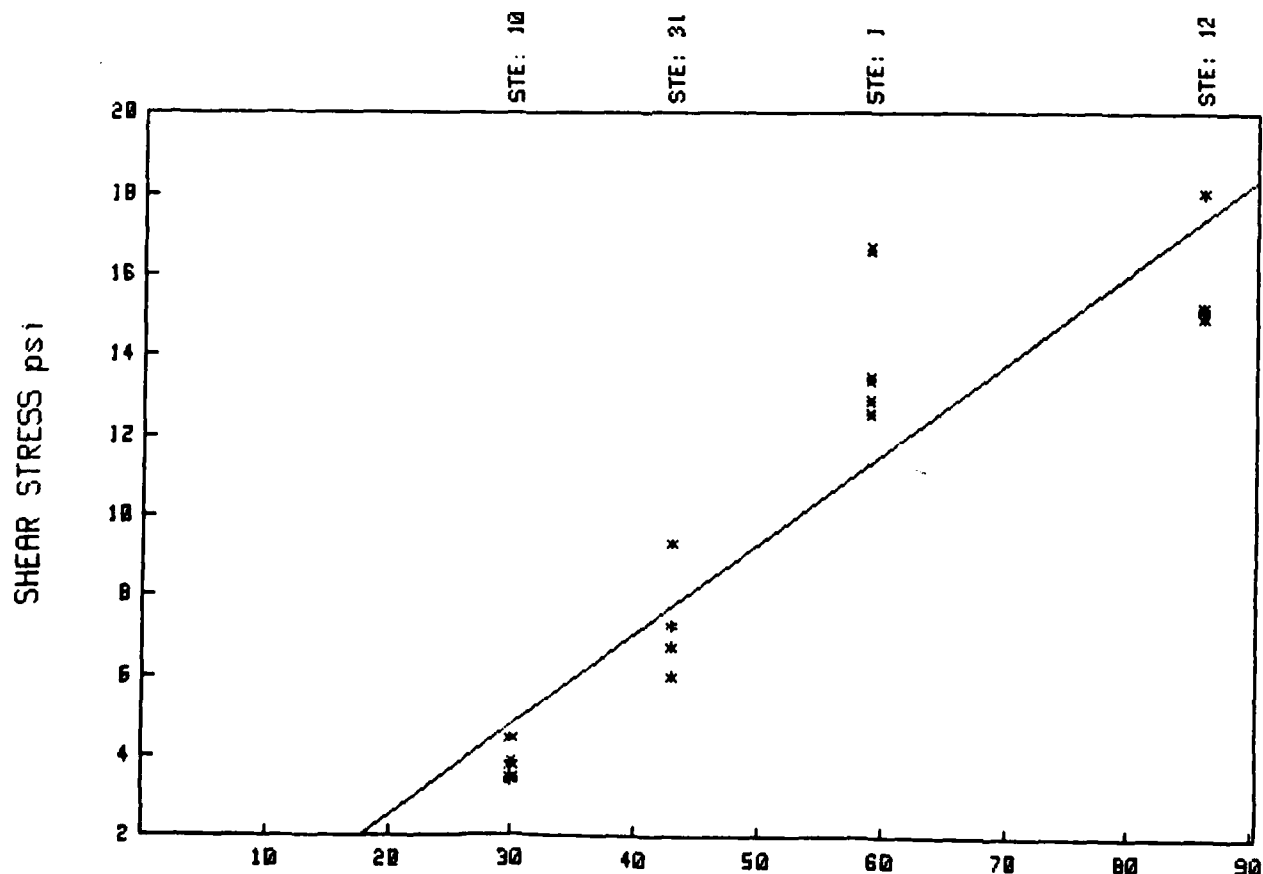


Fig.90

Correlation of Cone Index/Rating Cone Index and Shear C I
Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 27 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : .5 psi, PLASTICITY : > 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 3.36$$

$$b = 2.9663E-02$$

CORRELATION COEFFICIENT

$$R = .1093$$

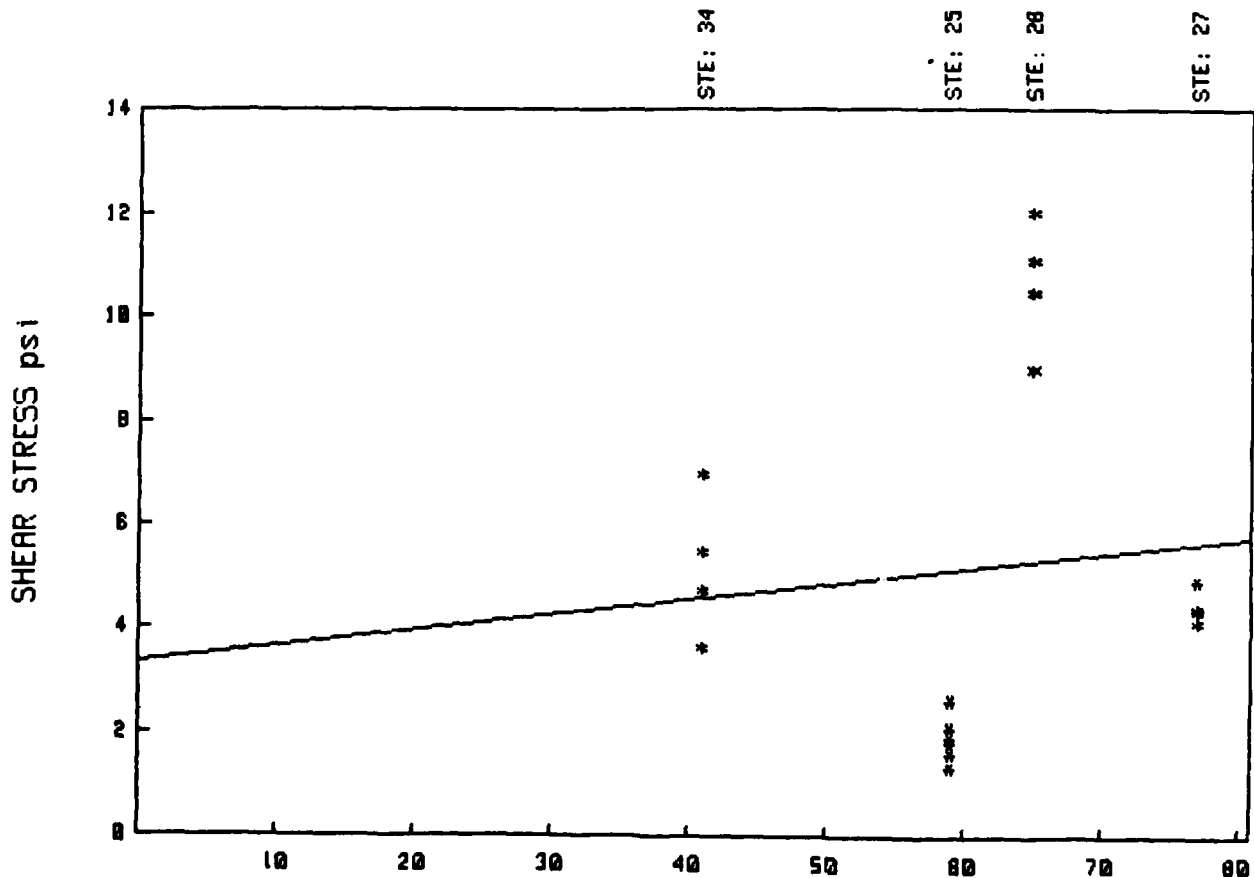


Fig.91

Correlation of Cone Index/Rating Cone Index and Shear C I
Box Data for Plasticity = const.

UNIVERSITY OF TEXAS AT AUSTIN

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 27 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 5.6 psi, PLASTICITY : > 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 12.58$$

$$b = -5.3480E-02$$

CORRELATION COEFFICIENT

$$R = -.1527$$

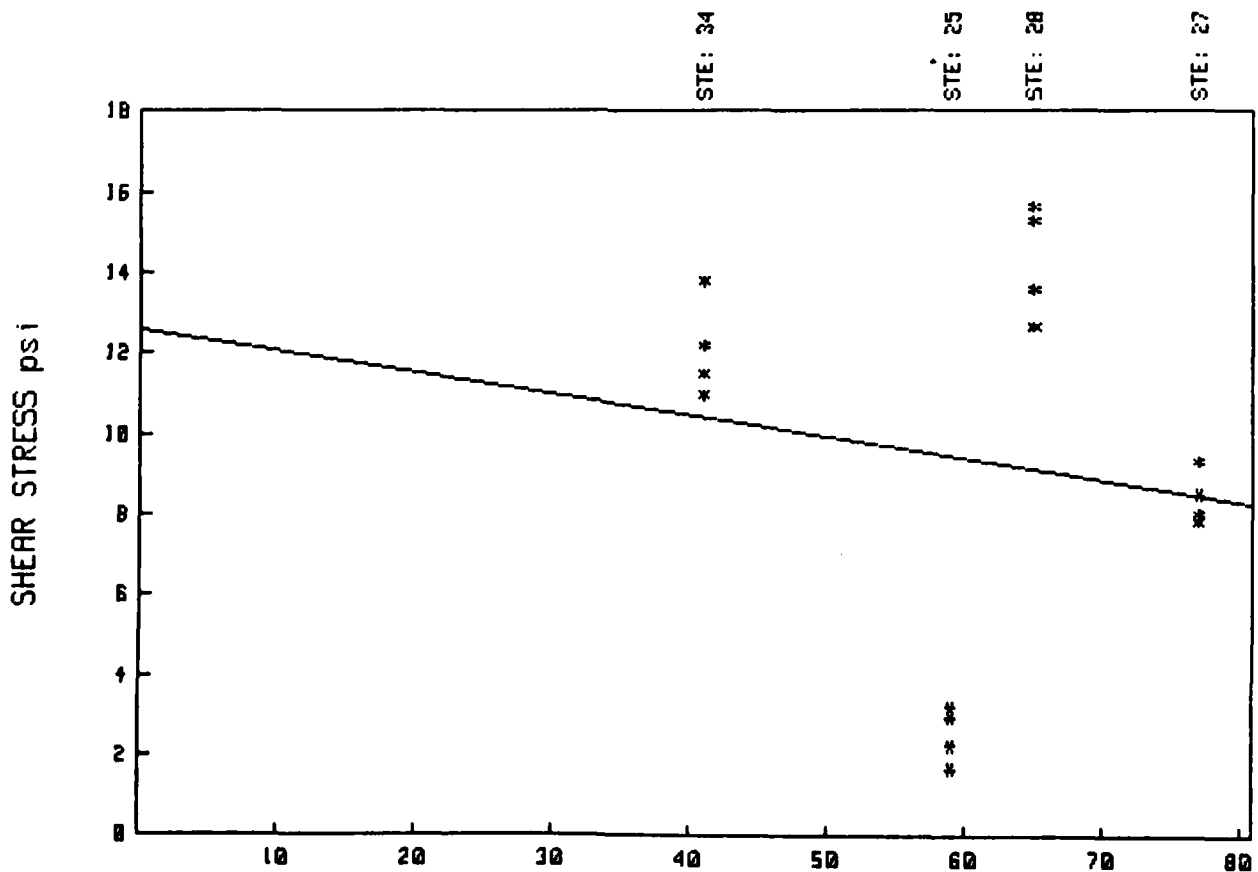


Fig.92

Correlation of Cone Index/Rating Cone Index and Shear C I Box Data for Plasticity = const.

INVESTIGATION OF CRITICAL SOIL PARAMETERS - MAI 1985 -

CORRELATION OF SOIL-DATA

SITE NO.:

25 27 28 34

CORRELATION CONSTANTS :

SAMPLE DEPTH : 4 inch, NORMAL STRESS : 11.25 psi, PLASTICITY : > 50 %

LINEAR REGRESSION:

$$Y = a + b * X$$

$$a = 11.93$$

$$b = -5.9113E-03$$

CORRELATION COEFFICIENT

$$R = -.0129$$

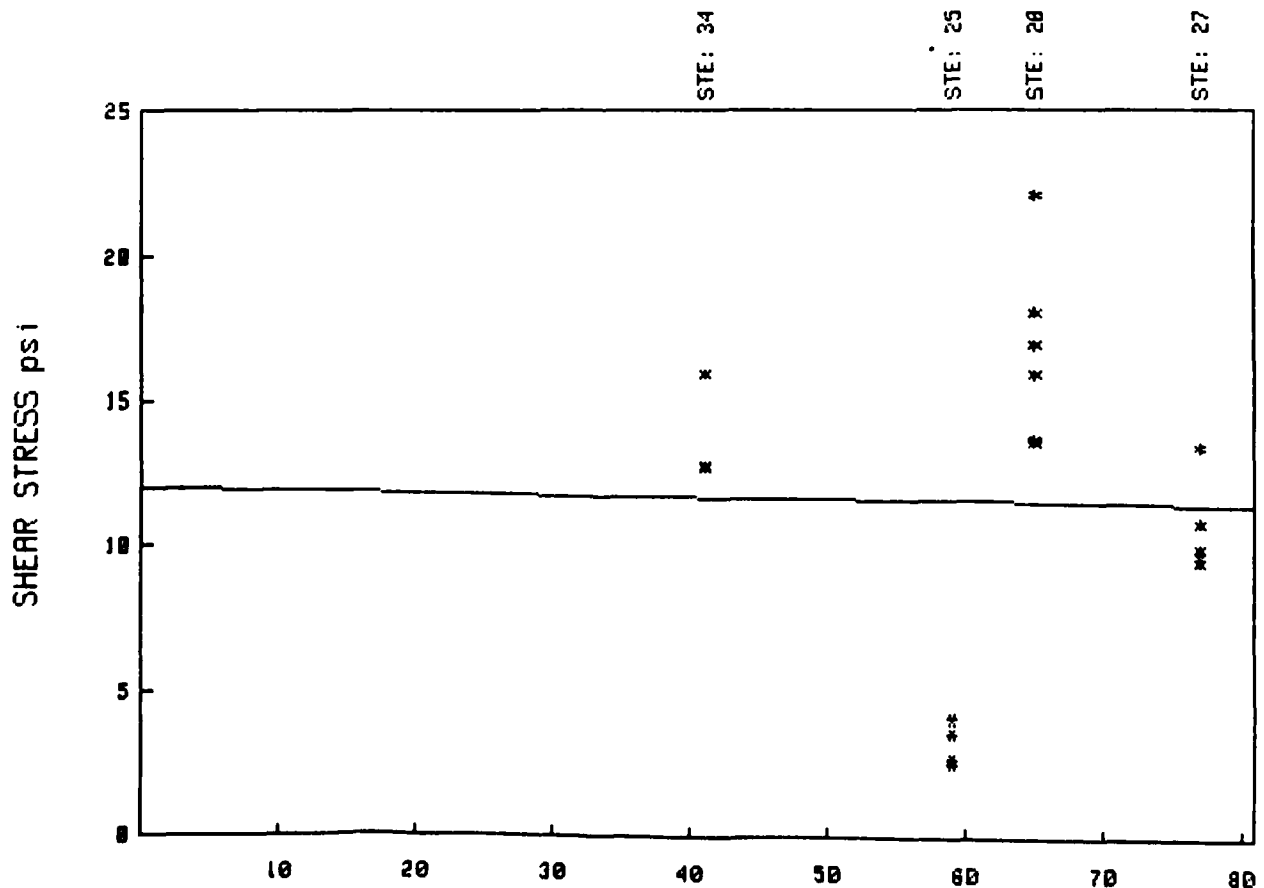
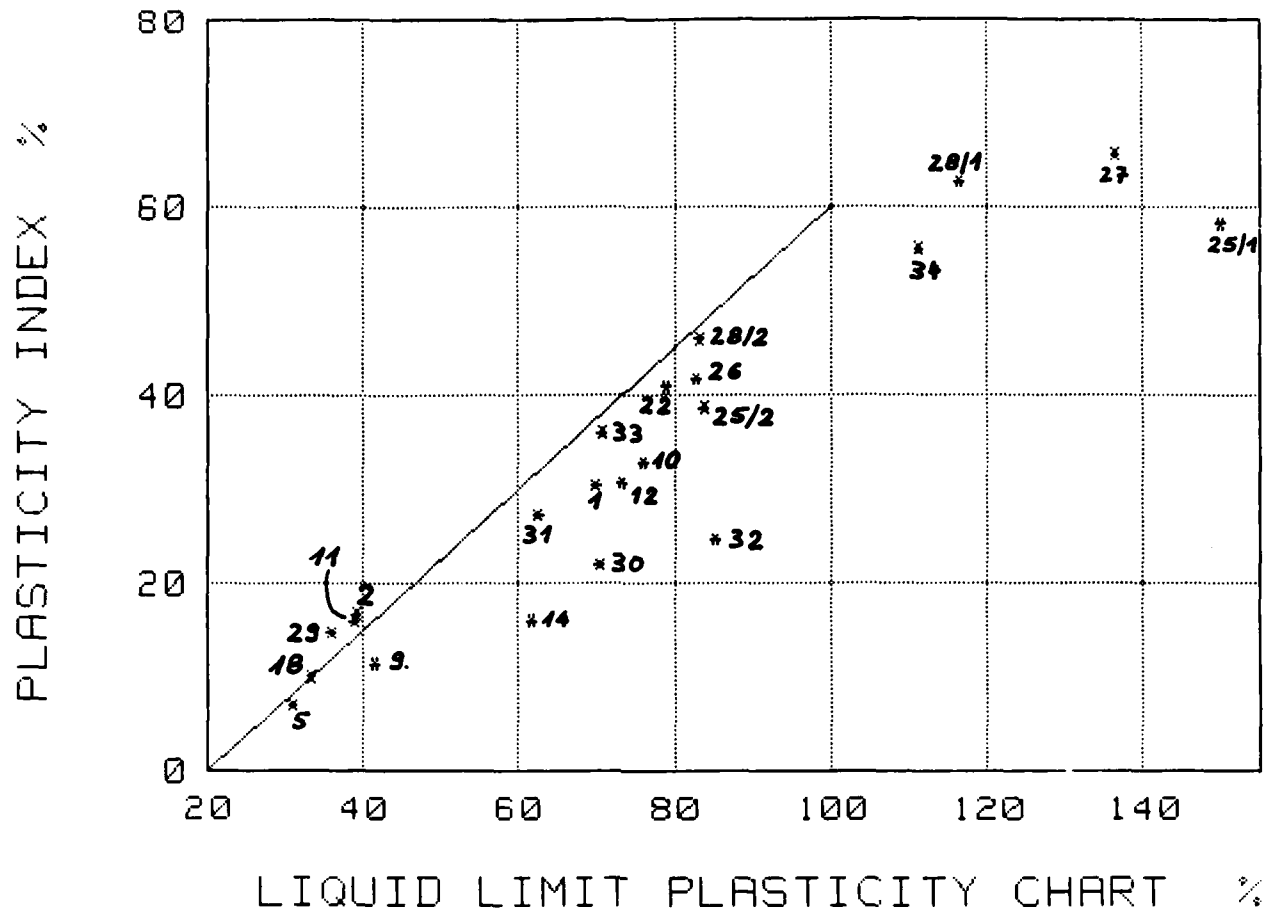


Fig. 93

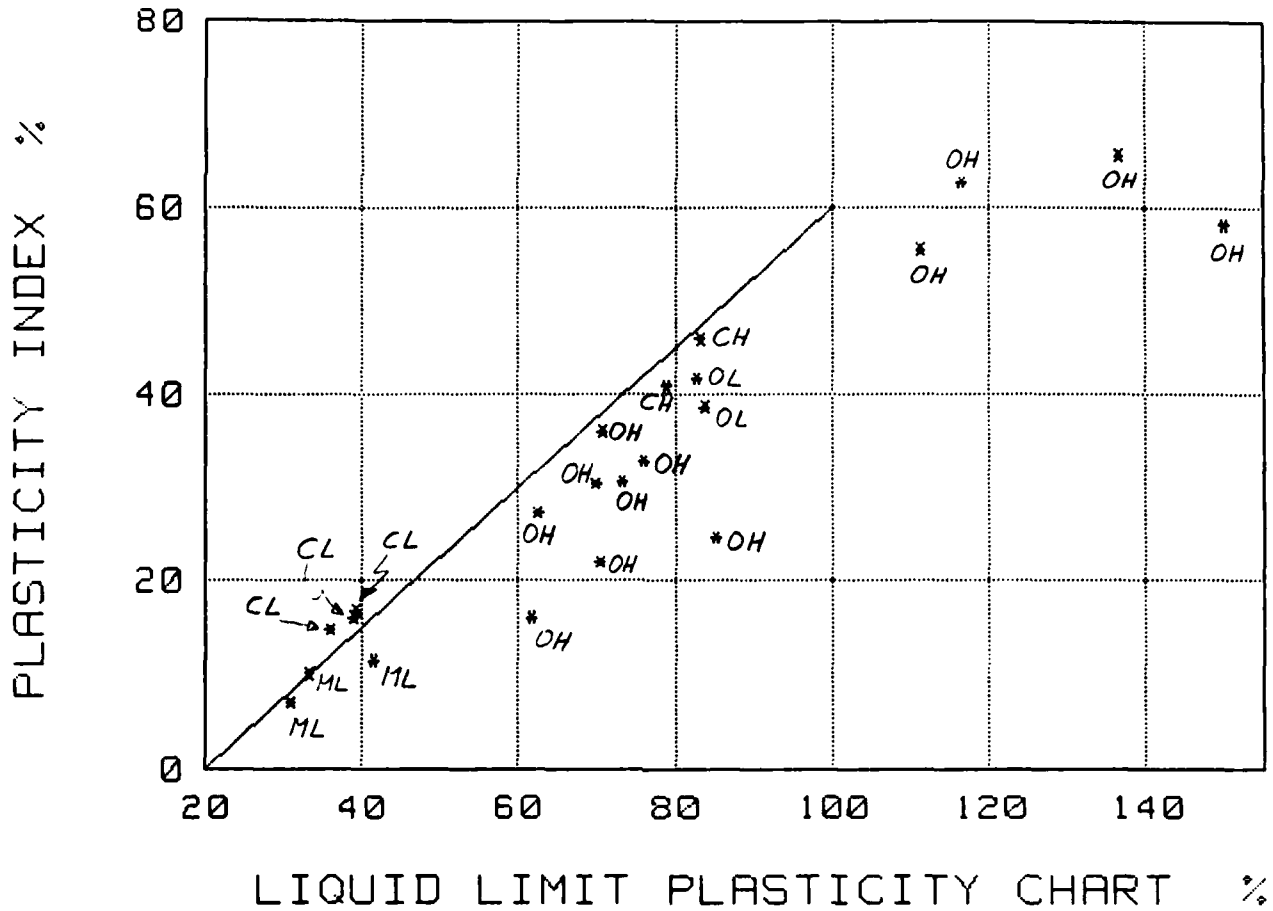
Correlation of Cone Index/Rating Cone Index and Shear $C I$
Box Data for Plasticity = const.



SITE NO.	LIQUID LIM. PLAS. CH. %	PLASTICITY I. %
1	69.9	30.4
2	39.2	16.7
5	30.9	7.0
9	41.4	11.4
10	75.9	32.8
11	38.9	16.0
12	73.3	30.6
14	61.7	16.0
18	33.3	10.0
22	78.9	40.9
25/1	150.0	58.3
25/2	83.8	38.7
26	82.8	41.7
27	136.5	65.7
28/1	116.4	62.7
28/2	83.2	46.0
29	35.9	14.7
30	70.4	21.9
31	62.5	27.2
32	85.2	24.6
33	70.7	36.0
34	111.2	55.6

Fig. 94

Summary of Sites Investigated for Prediction vs. Measurement of Cone Index with Respect to Soils Plasticity (Site Numbers)



SITE NO.	LIQUID LIM. PLAS. CH. %	PLASTICITY I. %
1	69.9	30.4
2	39.2	16.7
5	30.9	7.0
9	41.4	11.4
10	75.9	32.8
11	38.9	16.0
12	73.3	30.6
14	61.7	16.0
18	33.3	10.0
22	78.9	40.9
251	150.0	58.3
252	83.8	38.7
26	82.8	41.7
27	136.5	65.7
281	116.4	62.7
282	83.2	46.0
29	35.9	14.7
30	70.4	21.9
31	62.5	27.2
32	85.2	24.6
33	70.7	36.0
34	111.2	55.6

Fig. 95

Summary of Sites Investigated for Prediction vs. Measurement of Cone Index with Respect to Soils Plasticity (Soil Types)

SITE NO.	QUAD NO.	GRID COORD.
1	L5916	6050/4170

COHESION	FRICTION ANGLE	SHEAR MOD.	DENSITY
PSI	DEGREE	PSI	PCI
.90	18.00	490.00	.0585

Z [in]	CI-meas.[psi]
0.00	24.00
1.00	50.00
2.00	50.00
3.00	56.00
4.00	64.00
5.00	75.00
6.00	96.00

Z = 4 in -> CI-pred. = 66 psi

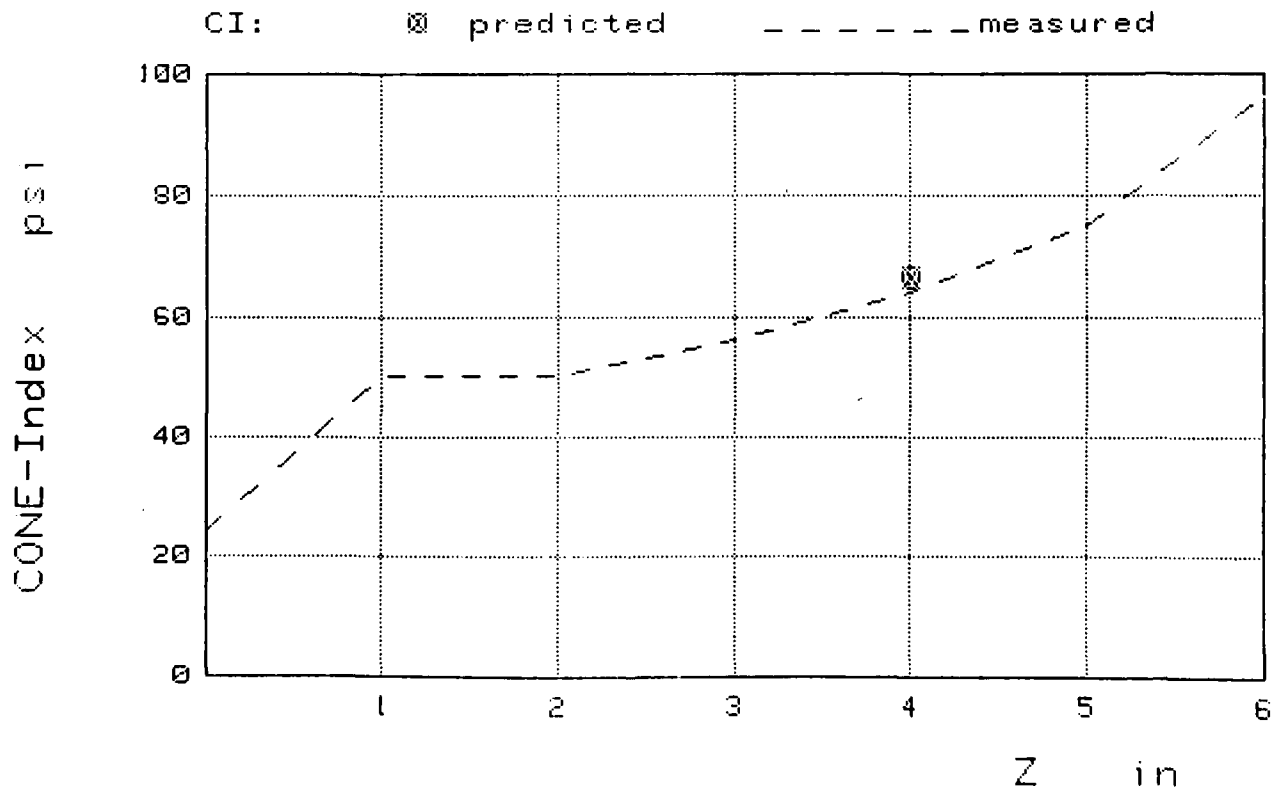


Fig.96

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO. 2 QUAD NO. L5916 GRID COORD. 6001/4565

COHESION PSI 5.00 FRICTION ANGLE DEGREE 9.00 SHEAR MOD. PSI 440.00 DENSITY PCI .0549

Z [in]	CI-meas.[psi]
0.00	7.00
1.00	47.00
2.00	66.00
3.00	71.00
4.00	72.00
5.00	74.00
6.00	78.00

Z = 4 in -> CI-pred. = 107 psi

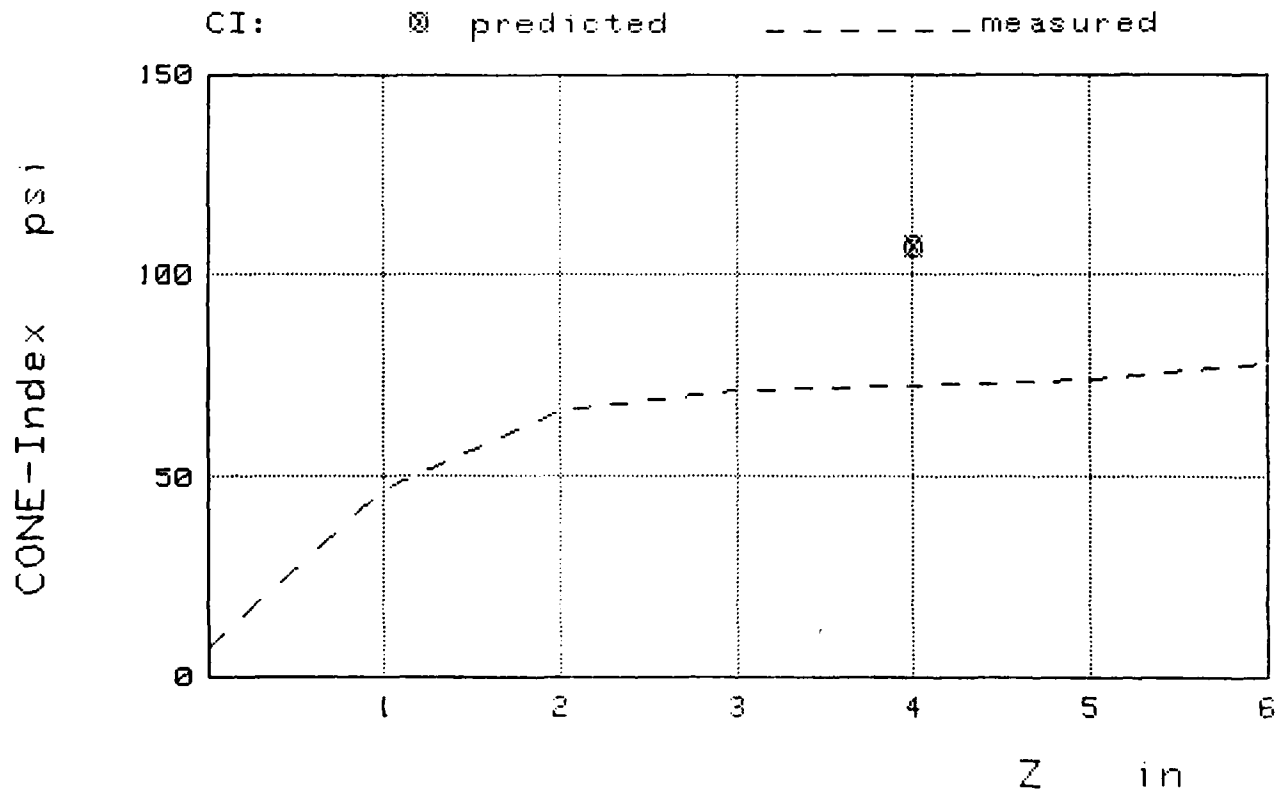


Fig.97

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.	QUAD NO.	GRID COORD.
3	L5918	8340/4665

COHESION	FRICTION ANGLE	SHEAR MOD.	DENSITY
PSI	DEGREE	PSI	PCI
3.00	8.00	380.00	.0376

Z [in]	CI-meas. [psi]
0.00	15.00
1.00	30.00
2.00	44.00
3.00	59.00
4.00	66.00
5.00	68.00
6.00	74.00

Z = 4 in -> CI-pred. = 65 psi

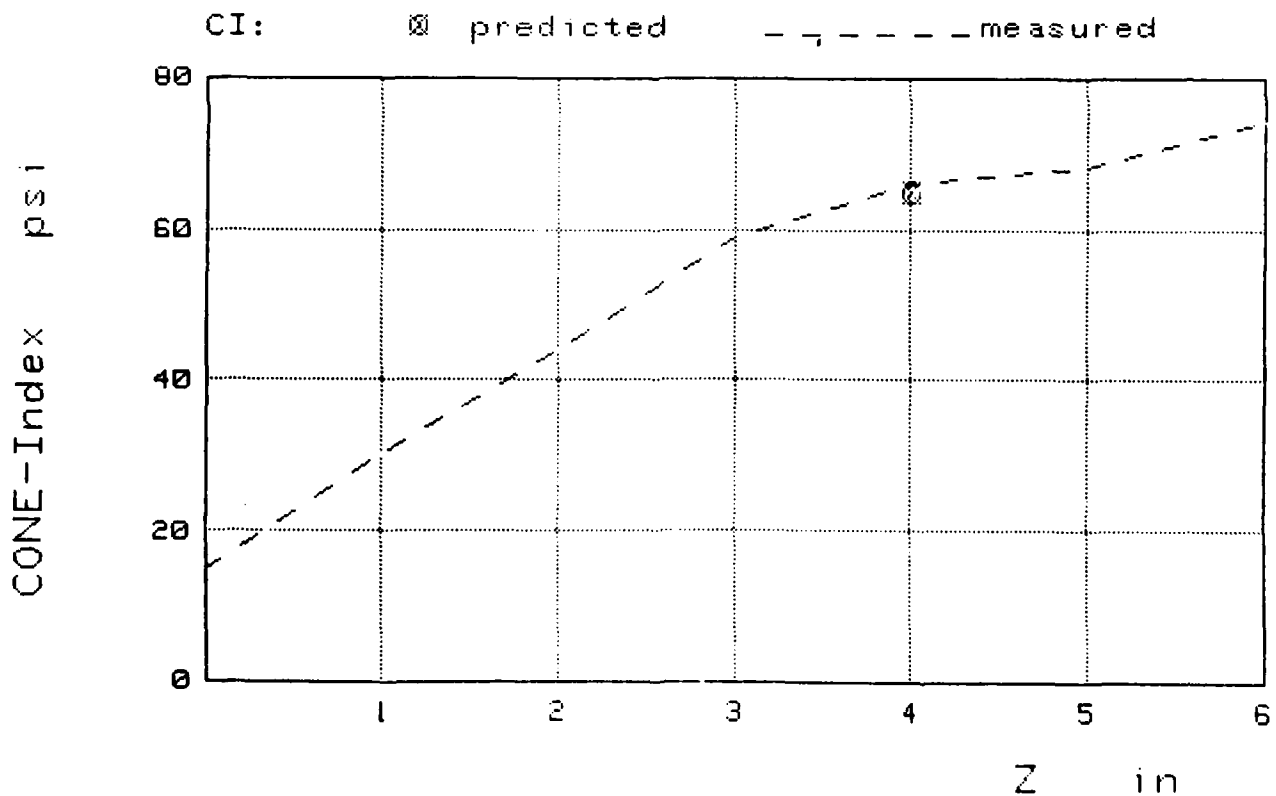


Fig.98

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO. 7 QUAD NO. L3528 GRID COORD. 0600/2325

COHESION PSI 3.00 FRICTION ANGLE DEGREE 12.00 SHEAR MOD. PSI 420.00 DENSITY PCI .0569

Z [in]	CI-meas.[psi]
0.00	20.00
1.00	37.00
2.00	43.00
3.00	47.00
4.00	58.00
5.00	70.00
6.00	82.00

Z = 4 in -> CI-pred. = 90 psi

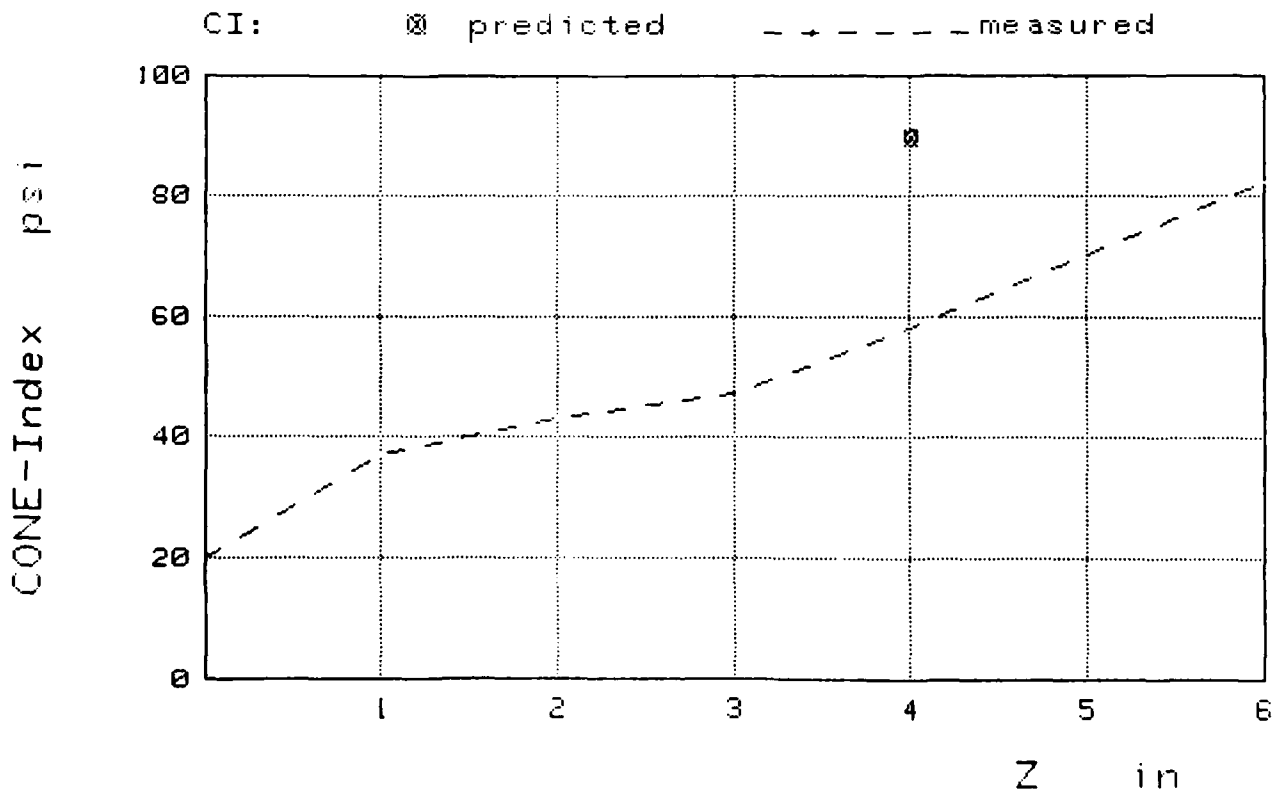


Fig.99

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.	QUAD NO.	GRID COORD.	
9	L3730	2720/8630	
COHESION	FRICTION ANGLE	SHEAR MOD.	DENSITY
PSI	DEGREE	PSI	PCI
2.10	7.00	430.00	.0676

Z [in]	CI-meas.[psi]
0.00	7.00
1.00	22.00
2.00	35.00
3.00	37.00
4.00	43.00
5.00	42.00
6.00	50.00

Z = 4 in -> CI-pred. = 47 psi

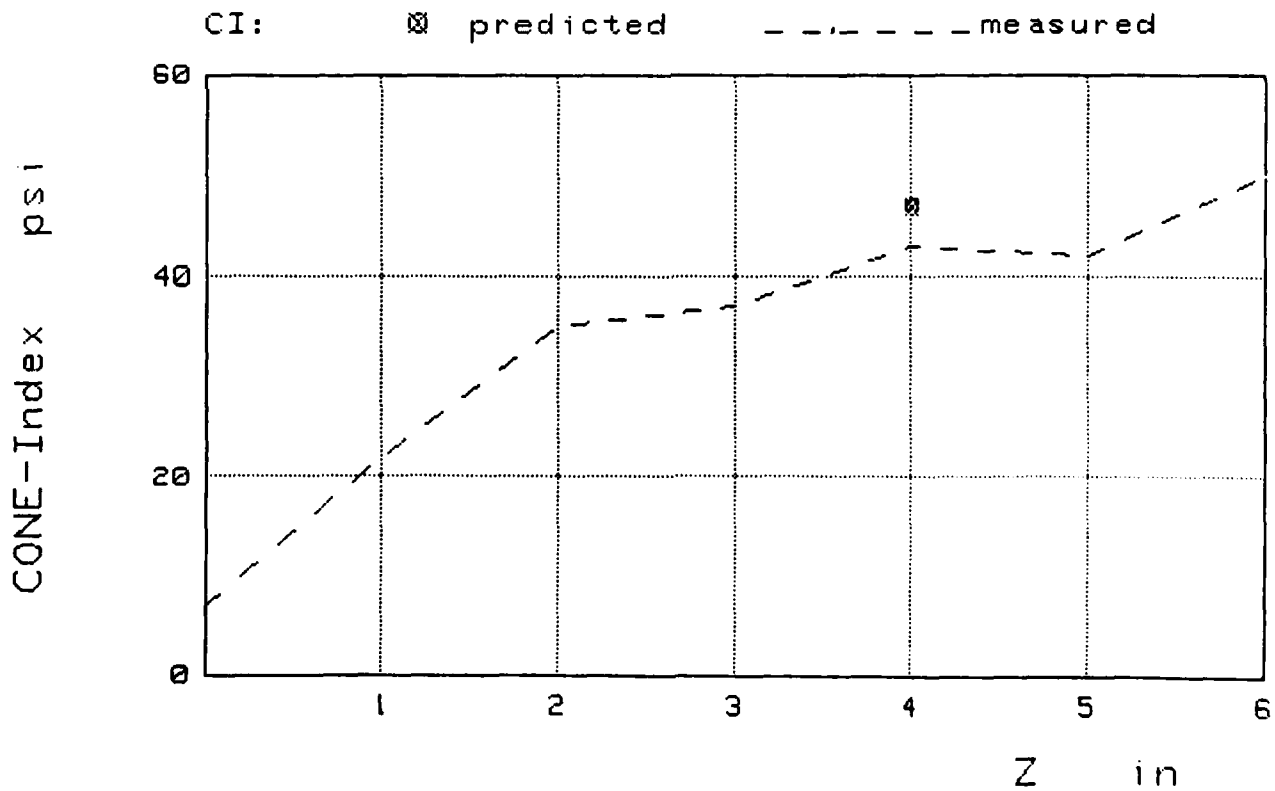


Fig.100

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.	QUAD NO.	GRID COORD.
10	L3730	3050/8775

COHESION	FRICTION ANGLE	SHEAR MOD.	DENSITY
PSI	DEGREE	PSI	PCI
1.50	12.00	150.00	.0607

Z [in]	CI-meas.[psi]
0.00	4.00
1.00	15.00
2.00	22.00
3.00	34.00
4.00	44.00
5.00	43.00
6.00	49.00

Z = 4 in -> CI-pred. = 42 psi

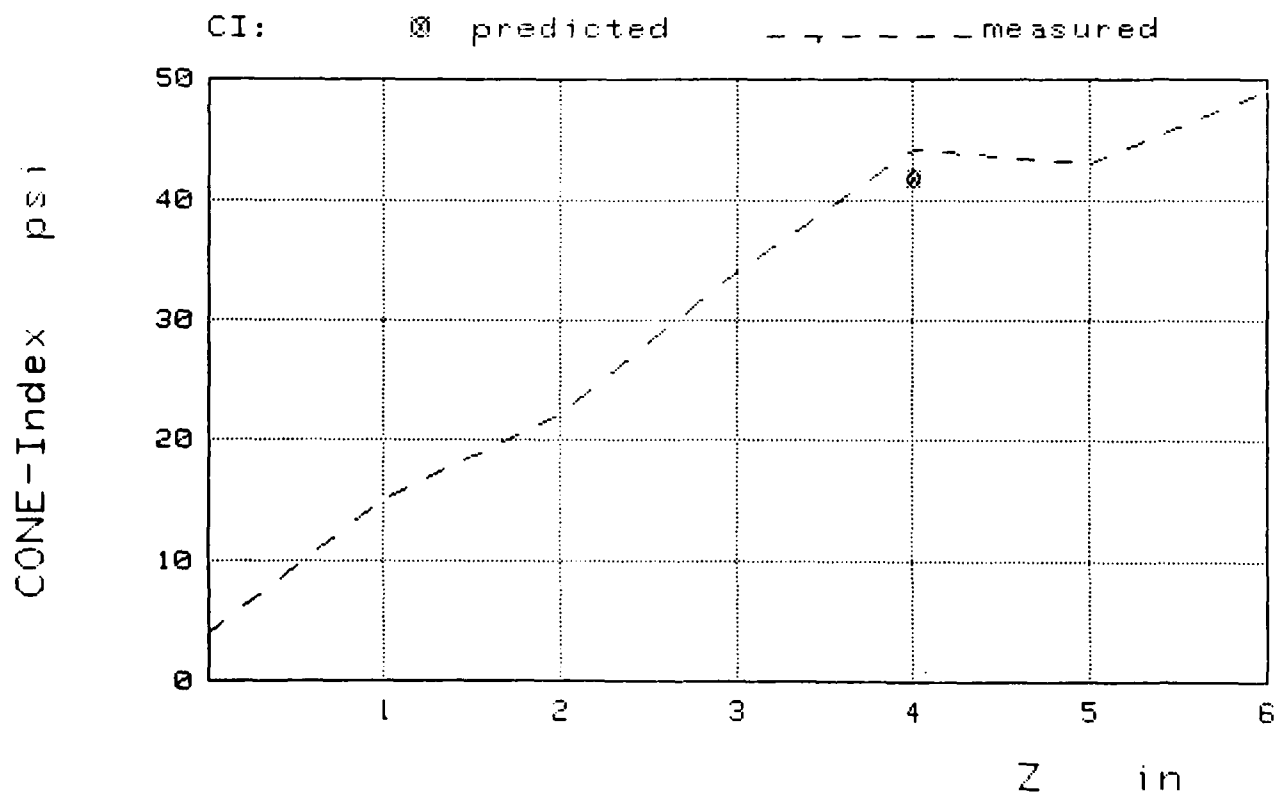


Fig.101

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.	QUAD NO.	GRID COORD.	
11	L4724	6630/7525	
COHESION	FRICTION ANGLE	SHEAR MOD.	DENSITY
PSI	DEGREE	PSI	PCI
6.00	8.00	600.00	.0531

Z [in]	CI-meas.[psi]
0.00	10.00
1.00	65.00
2.00	104.00
3.00	113.00
4.00	112.00
5.00	104.00
6.00	99.00

Z = 4 in -> CI-pred. = 123 psi

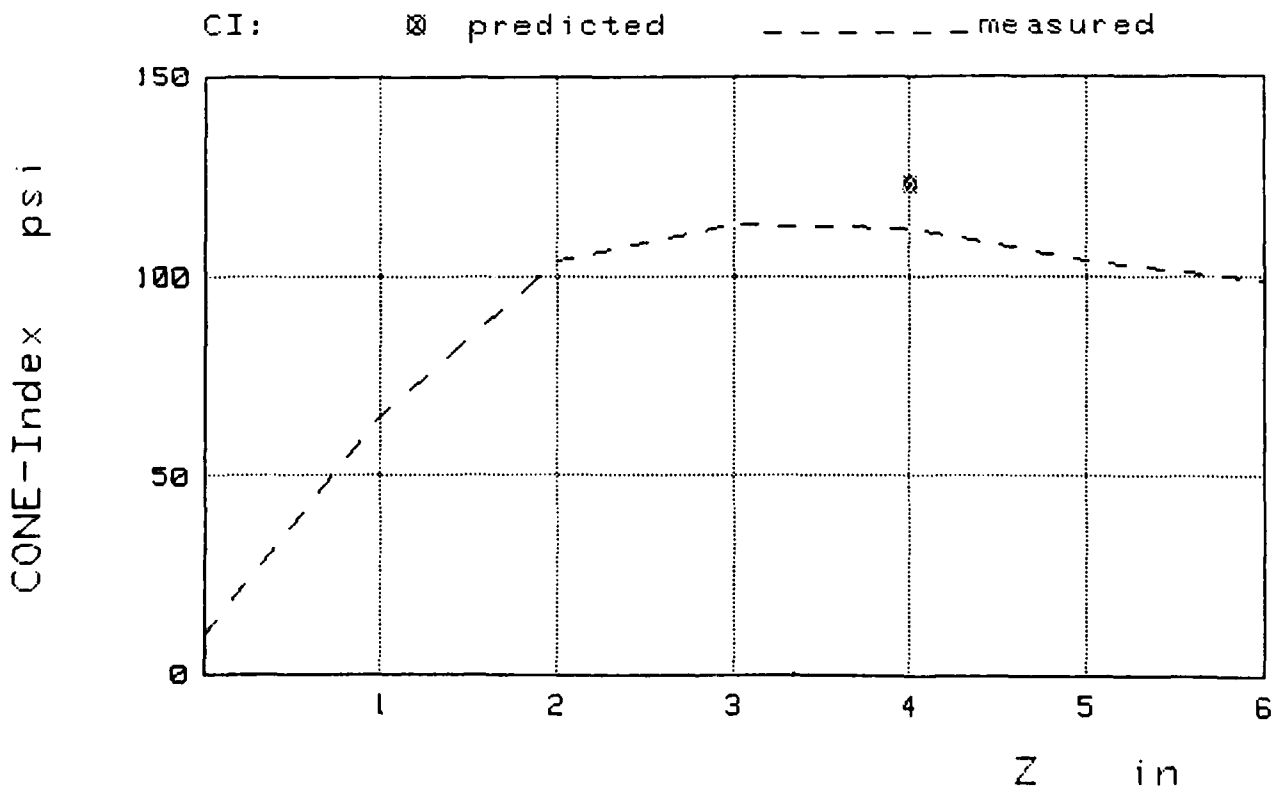


Fig.102

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.	QUAD NO.	GRID COORD.	
14	L1322	3480/6285	
COHESION	FRICTION ANGLE	SHEAR MOD.	DENSITY
PSI	DEGREE	PSI	PCI
3.00	18.00	360.00	.0679

Z [in]	CI-meas.[psi]
0.00	6.00
1.00	39.00
2.00	57.00
3.00	58.00
4.00	77.00
5.00	79.00
6.00	96.00

Z = 4 in -> CI-pred. = 129 psi

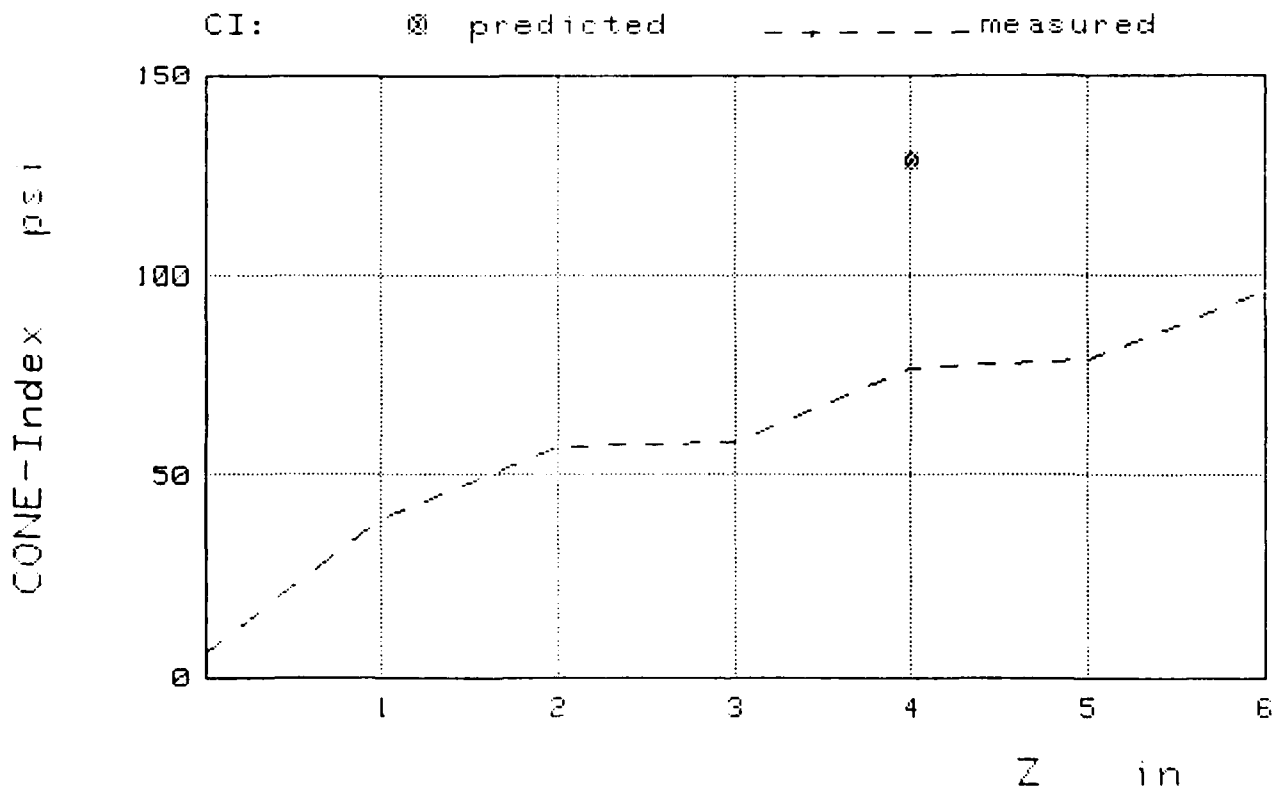


Fig.103

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.
20

QUAD NO.
L2724

GRID COORD.
5240/0345

COHESION
PSI
1.50

FRICTION ANGLE
DEGREE
5.00

SHEAR MOD.
PSI
250.00

DENSITY
PCI
.0549

Z [in]	CI-meas.[psi]
0.00	7.00
1.00	8.00
2.00	10.00
3.00	15.00
4.00	25.00
5.00	27.00
6.00	32.00

Z = 5 in -> CI-pred. = 28 psi

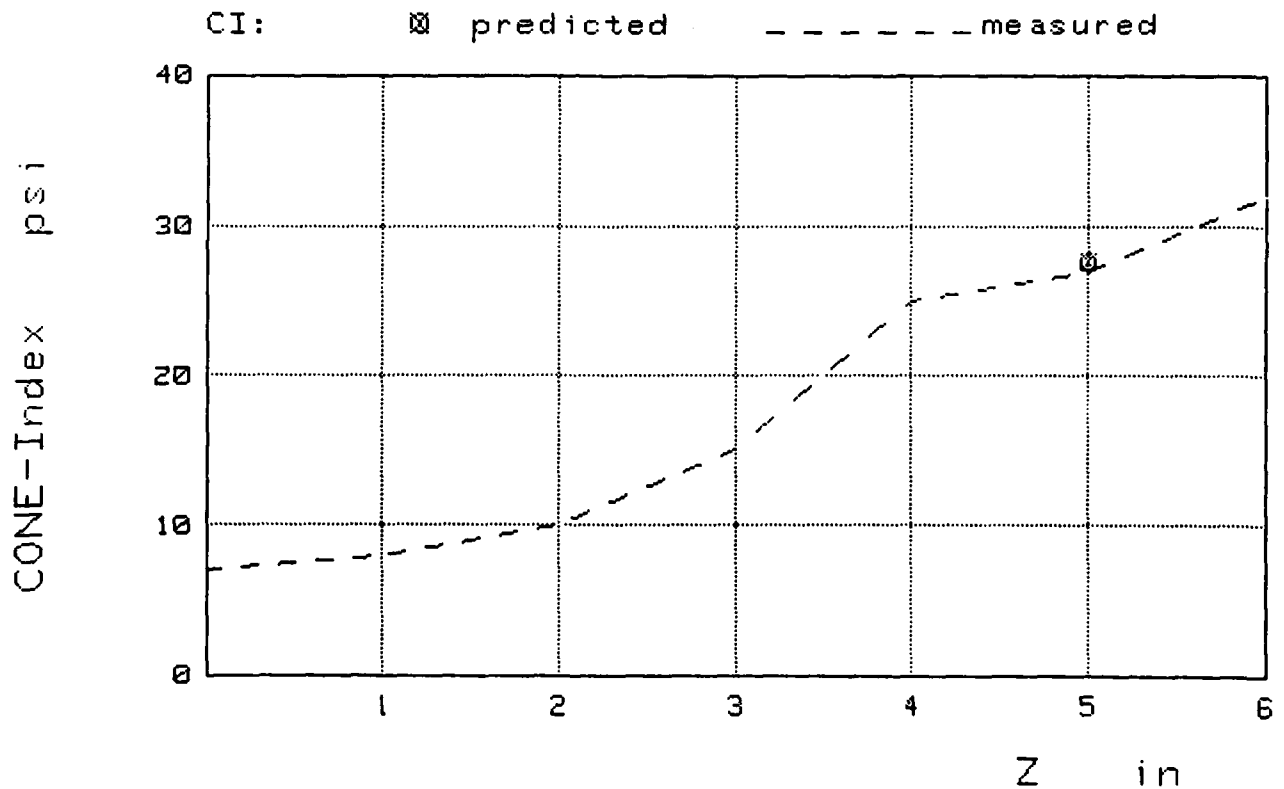


Fig.104

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO. 25	QUAD NO. L5734	GRID COORD. 6810/7780	
COHESION PSI 1.50	FRICTION ANGLE DEGREE 10.00	SHEAR MOD. PSI 140.00	DENSITY PCI .0549
Z [in]	CI-meas.[psi]		
0.00	31.00		
1.00	46.00		
2.00	42.00		
3.00	55.00		
4.00	67.00		
5.00	83.00		
6.00	92.00		

Z = 4 in -> CI-pred. = 36 psi

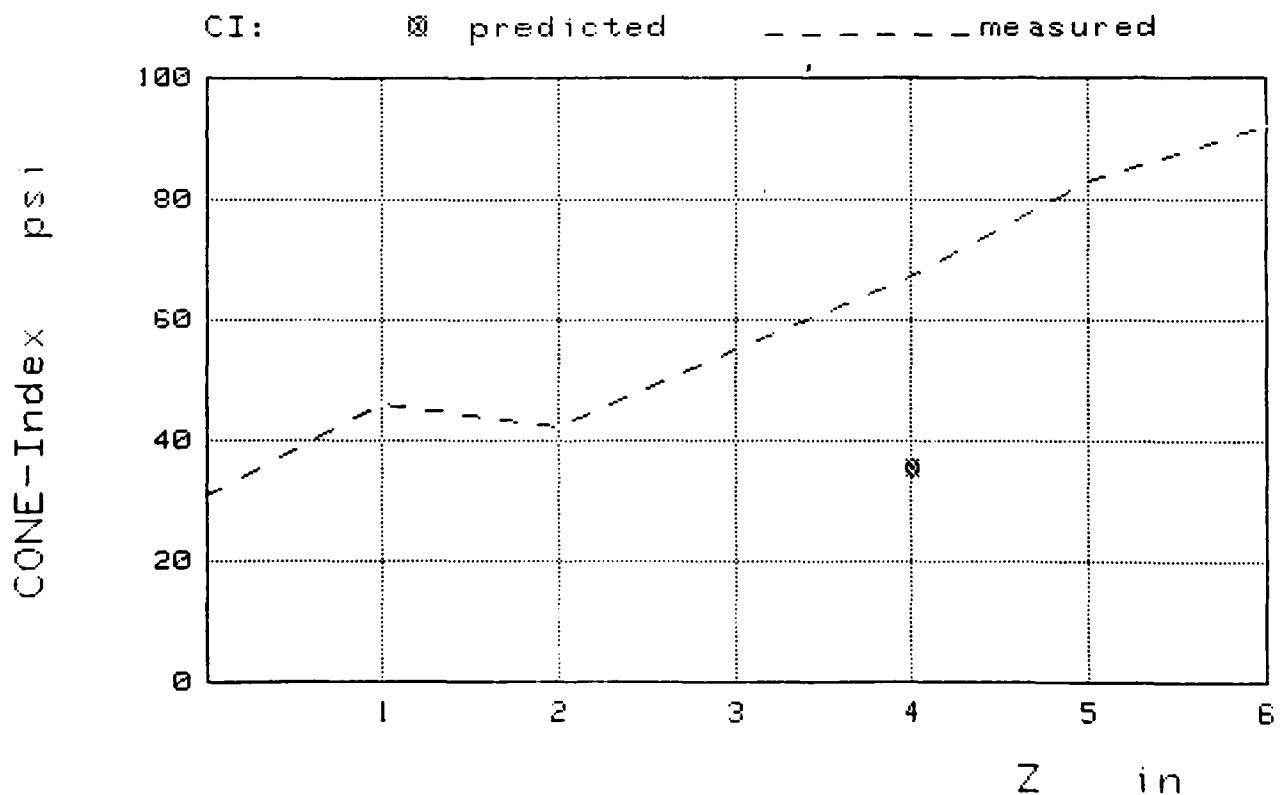


Fig.105

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.
27

QUAD NO.
L5934

GRID COORD.
8255/5535

COHESION
PSI
4.00

FRICTION ANGLE
DEGREE
7.00

SHEAR MOD.
PSI
560.00

DENSITY
PCI
.0524

Z [in]	CI-meas.[psi]
0.00	43.00
1.00	70.00
2.00	59.00
3.00	74.00
4.00	90.00
5.00	99.00
6.00	105.00

Z = 4 in -> CI-pred. = 82 psi

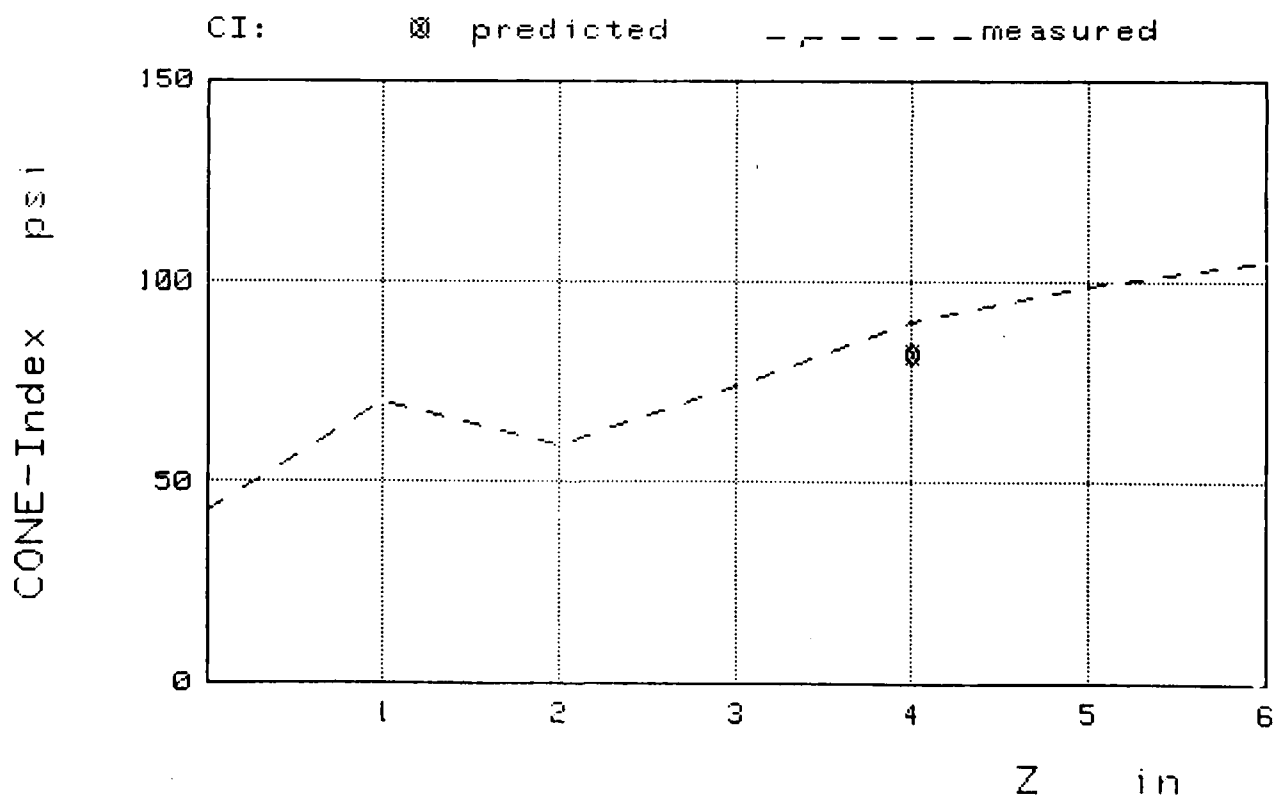


Fig.106

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.
28

QUAD NO.
L6334

GRID COORD.
3535/1800

COHESION
PSI
9.00

FRICTION ANGLE
DEGREE
0.00

SHEAR MOD.
PSI
970.00

DENSITY
PCI
.0574

Z [in]	CI-meas.[psi]
0.00	29.00
1.00	61.00
2.00	61.00
3.00	63.00
4.00	67.00
5.00	78.00
6.00	96.00

Z = 5 in -> CI-pred. = 102 psi

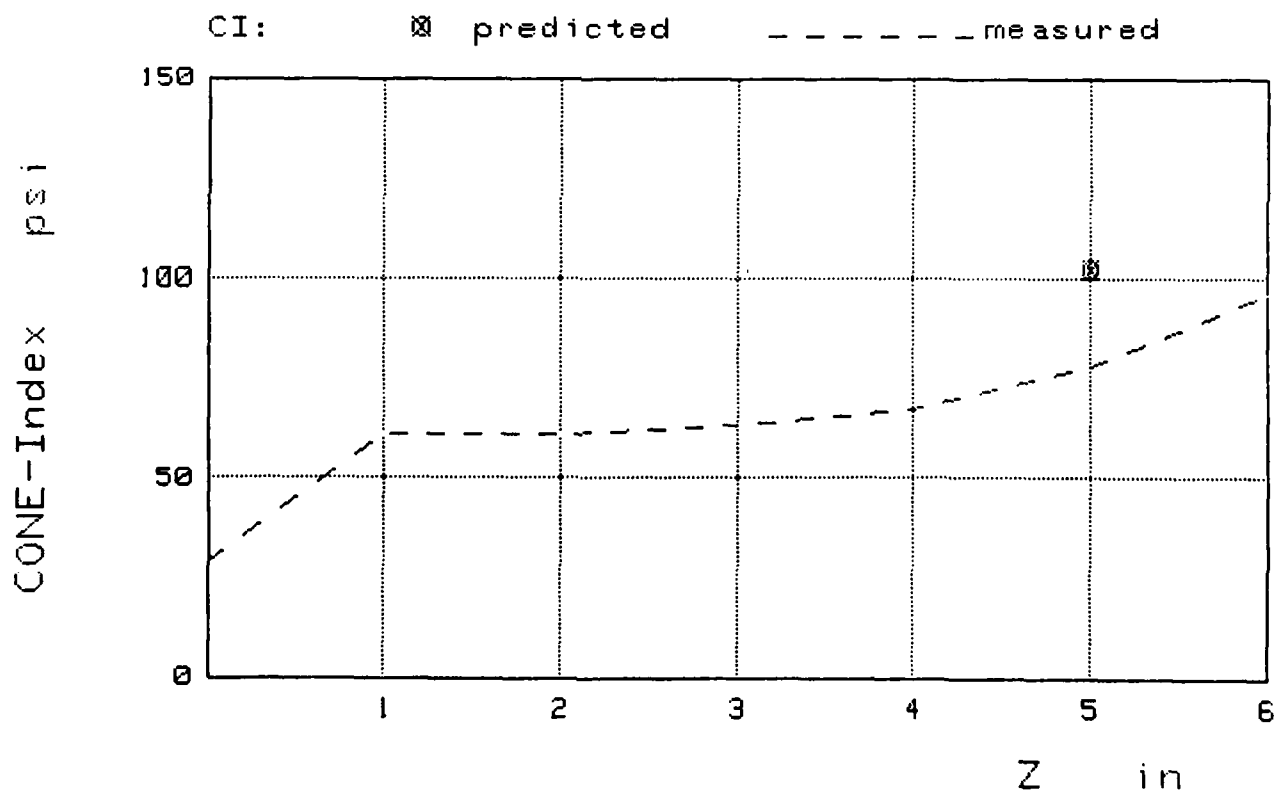


Fig.107

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO.
34

QUAD NO.
L8118

GRID COORD.
8045/9530

COHESION
PSI
4.00

FRICTION ANGLE
DEGREE
0.00

SHEAR MOD.
PSI
520.00

DENSITY
PCI
.0481

Z [in]	CI-meas.[psi]
0.00	6.00
1.00	27.00
2.00	38.00
3.00	48.00
4.00	53.00
5.00	57.00
6.00	62.00

Z = 4 in -> CI-pred. = 47 psi

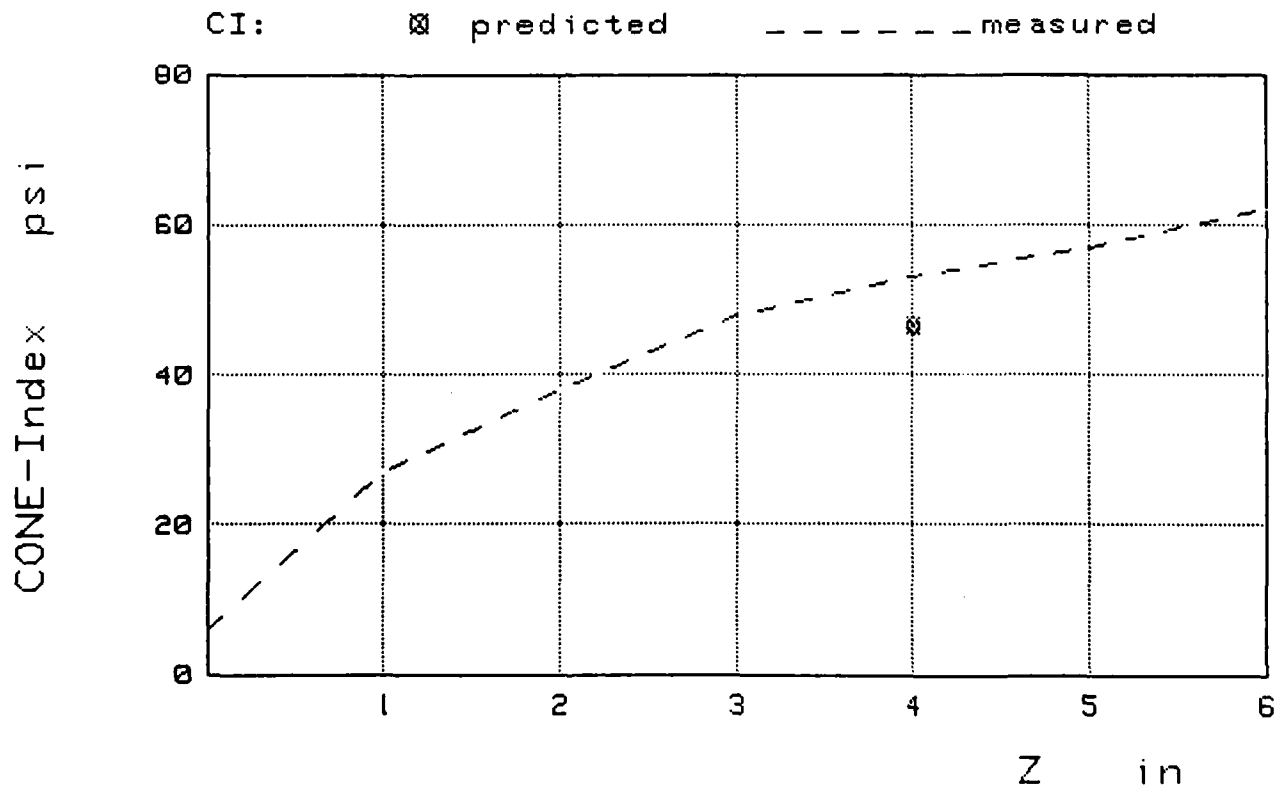


Fig.108

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO.
35

QUAD NO.
L6510

GRID COORD.
8480/7100

COHESION
PSI
4.00

FRICTION ANGLE
DEGREE
5.00

SHEAR MOD.
PSI
250.00

DENSITY
PCI
.0643

Z [in]	CI-meas.[psi]
0.00	17.00
1.00	32.00
2.00	40.00
3.00	43.00
4.00	43.00
5.00	53.00
6.00	61.00

Z = 6 in -> CI-pred. = 61 psi

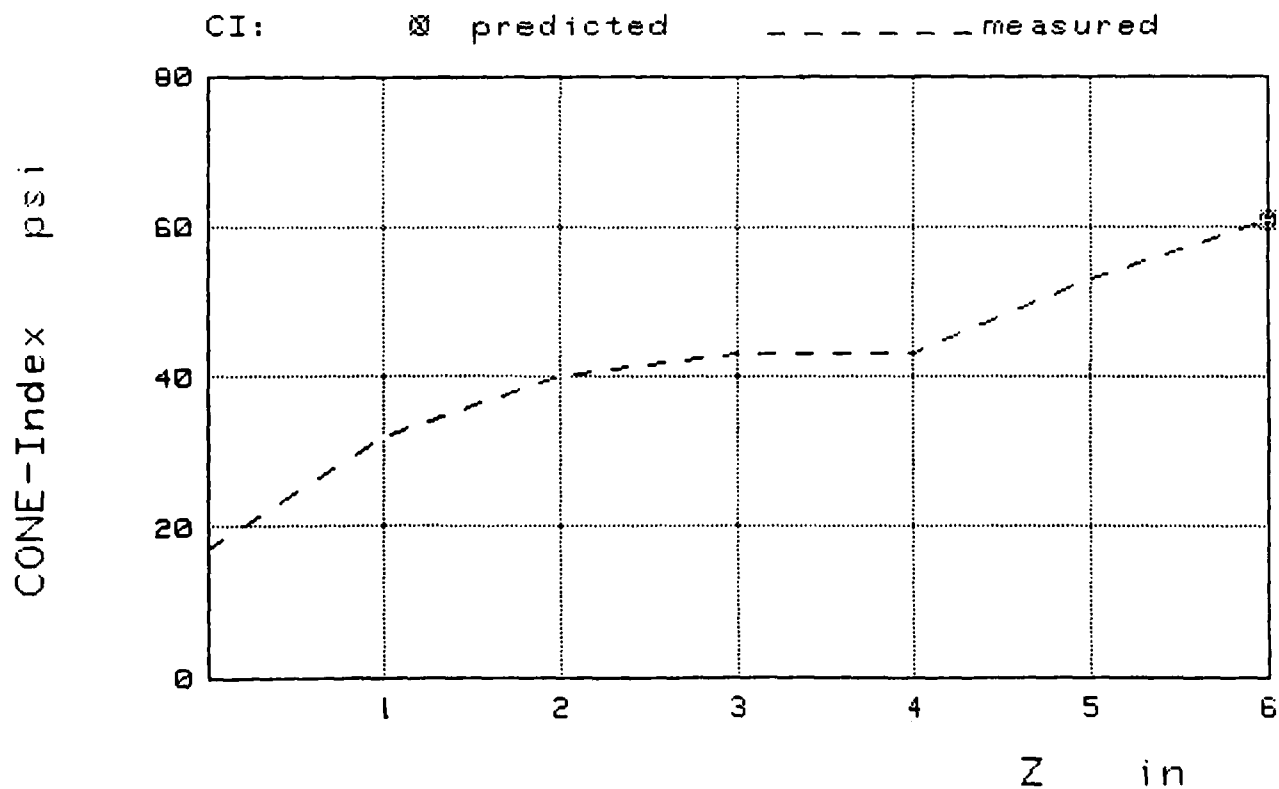


Fig.109

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO. 1 QUAD NO. L5916 GRID COORD. 6050/4170

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
.80	14.00	140.00	.0585	1.0 in
.80	14.00	300.00	.0585	4.0 in
1.00	18.00	500.00	.0585	6.0 in
1.50	18.00	600.00	.0585	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	32.88	24.00
1.00	38.67	50.00
2.00	39.20	50.00
3.00	48.63	56.00
4.00	73.93	64.00
5.00	82.24	75.00
6.00	100.39	96.00

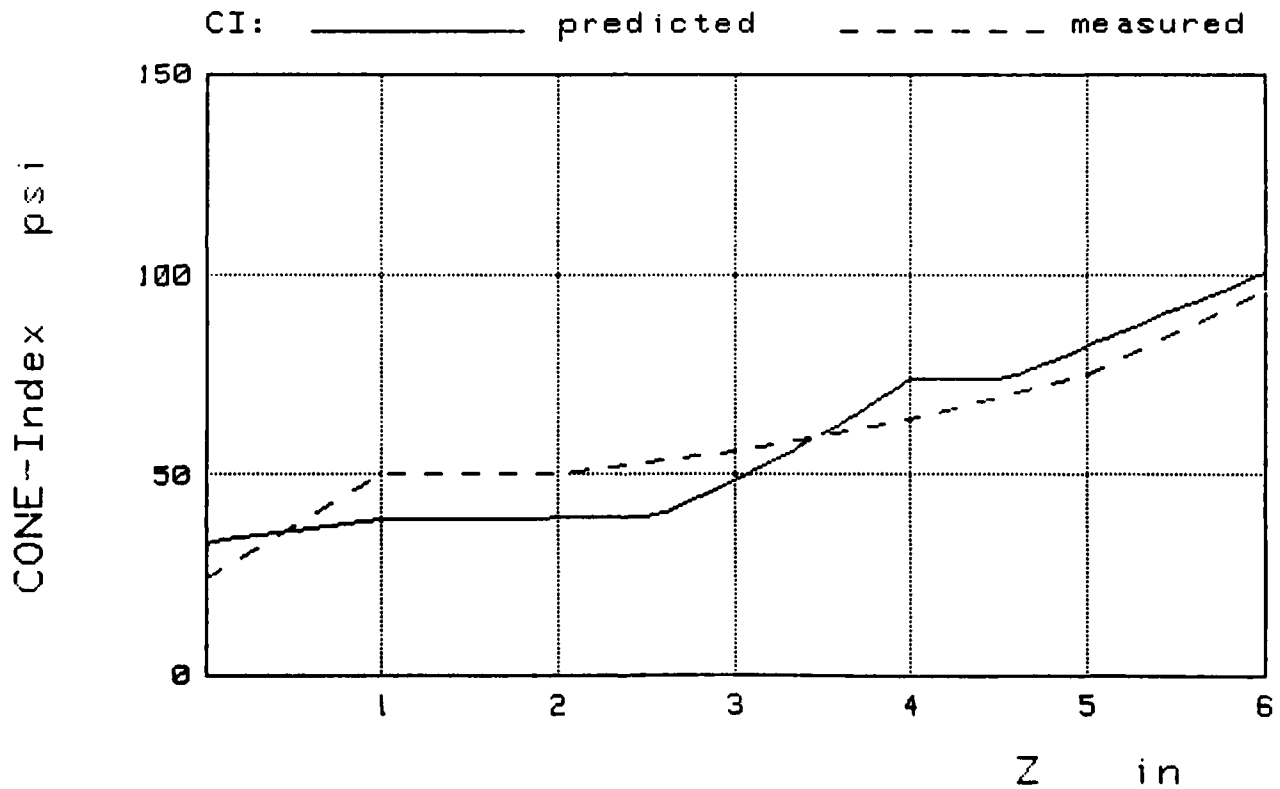


Fig.110

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.
3

QUAD NO.
L5918

GRID COORD.
8340/4665

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
1.00	4.00	180.00	.0376	1.5 in
2.00	6.00	300.00	.0376	3.5 in
3.00	8.00	400.00	.0376	6.0 in
3.50	8.00	450.00	.0376	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	16.95	15.00
1.00	30.68	30.00
2.00	38.68	44.00
3.00	55.95	59.00
4.00	65.91	66.00
5.00	69.20	68.00
6.00	76.20	74.00

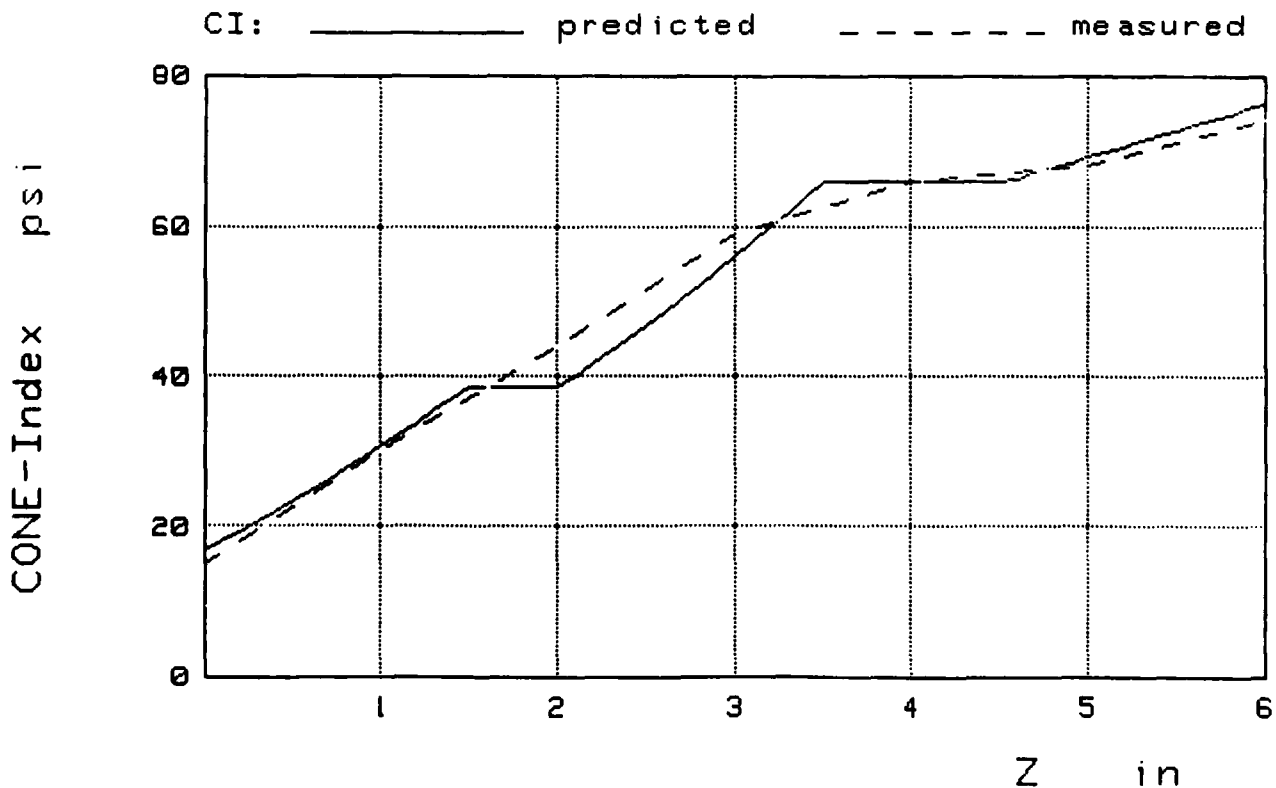


Fig.111

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO.
9

QUAD NO.
L3720

GRID COORD.
2720/8630

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
.50	0.00	100.00	.0676	1.0 in
.80	4.00	200.00	.0676	2.5 in
2.00	7.00	400.00	.0676	6.5 in
2.50	7.00	500.00	.0676	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	8.44	7.00
1.00	14.85	22.00
2.00	33.41	35.00
3.00	45.10	37.00
4.00	45.17	43.00
5.00	45.23	42.00
6.00	52.44	50.00

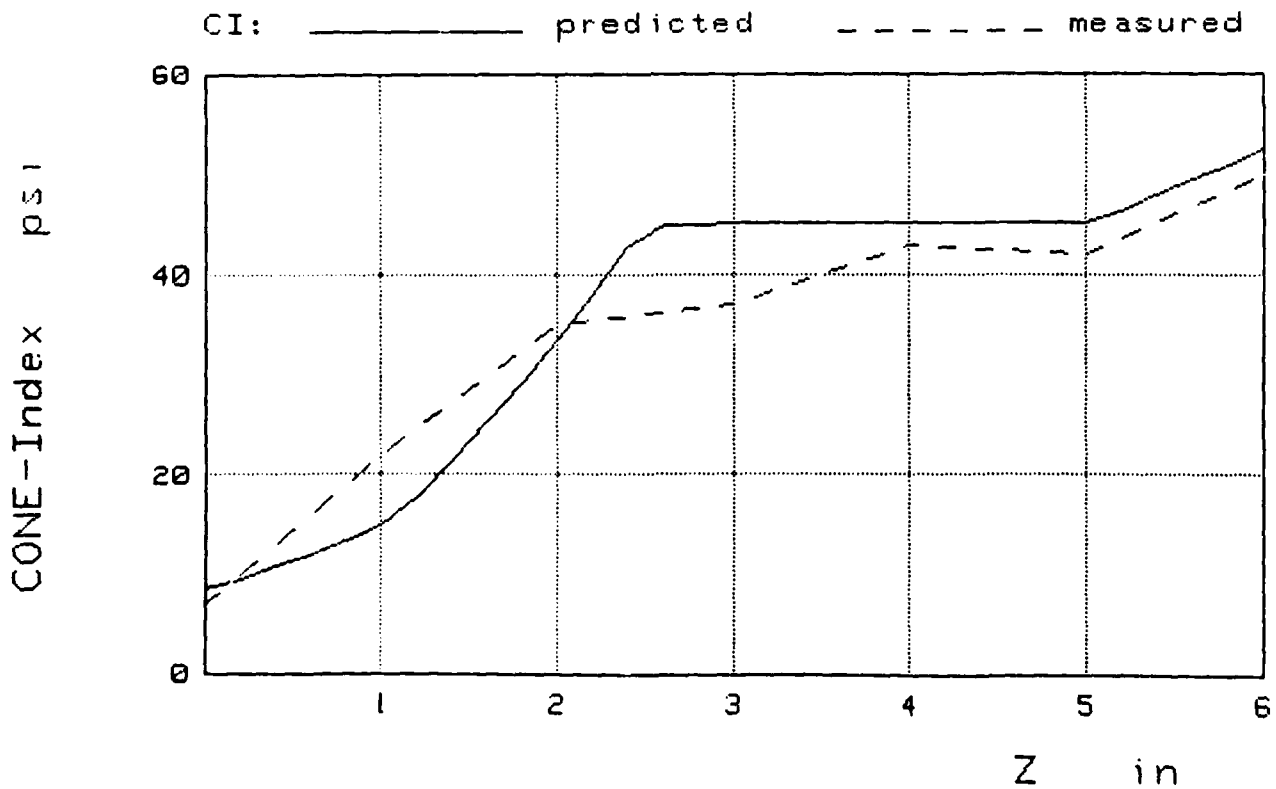


Fig.112

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.
10

QUAD NO.
L3730

GRID COORD.
3050/8775

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
.30	8.00	100.00	.0607	1.5 in
.80	10.00	100.00	.0607	3.5 in
1.50	12.00	200.00	.0607	6.0 in
1.50	12.00	250.00	.0607	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	8.56	4.00
1.00	16.94	15.00
2.00	21.36	22.00
3.00	36.77	34.00
4.00	45.82	44.00
5.00	46.68	43.00
6.00	48.74	49.00

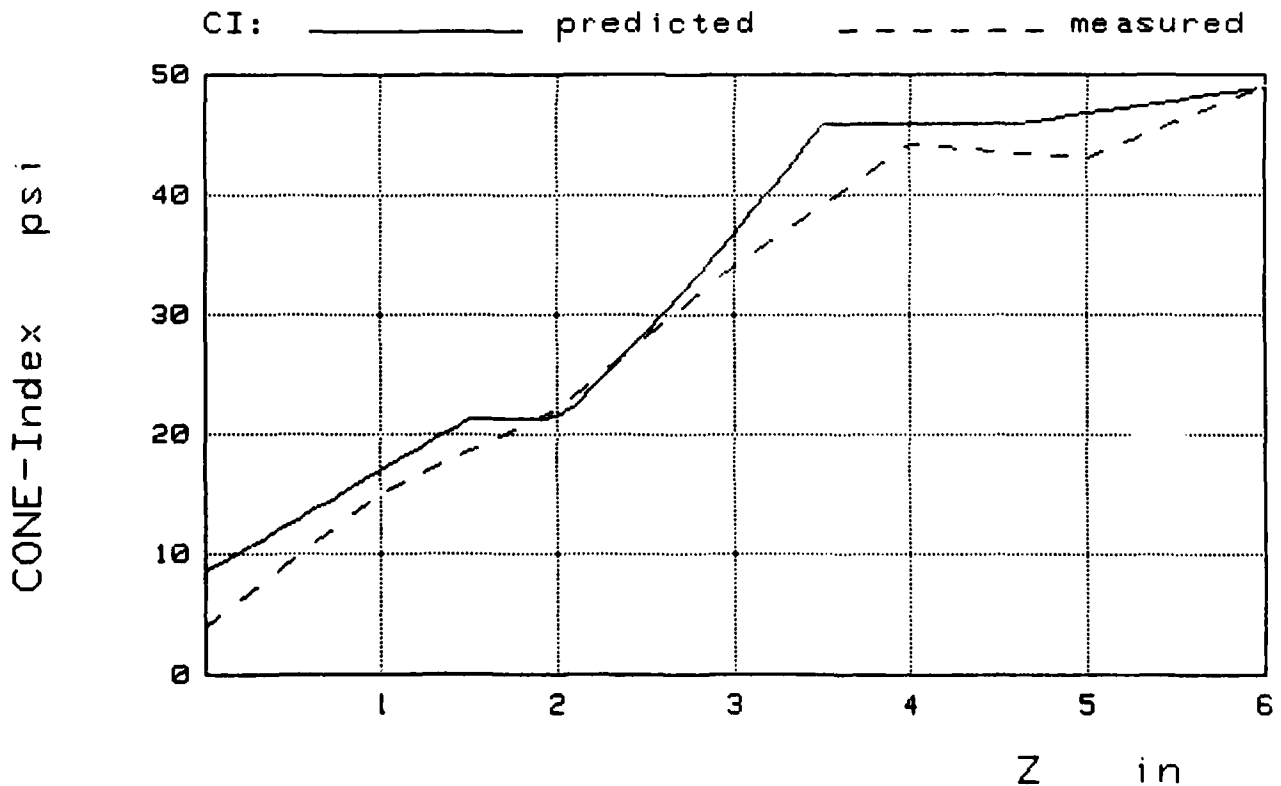


Fig.113

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO. 11 QUAD NO. L4724 GRID COORD. 6630/7525

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
1.00	0.00	200.00	.0531	1.0 in
3.00	4.00	700.00	.0531	2.0 in
6.00	8.00	500.00	.0531	4.0 in
6.00	8.00	400.00	.0531	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	22.81	10.00
1.00	73.06	65.00
2.00	118.32	104.00
3.00	116.66	113.00
4.00	112.71	112.00
5.00	112.75	104.00
6.00	112.78	99.00

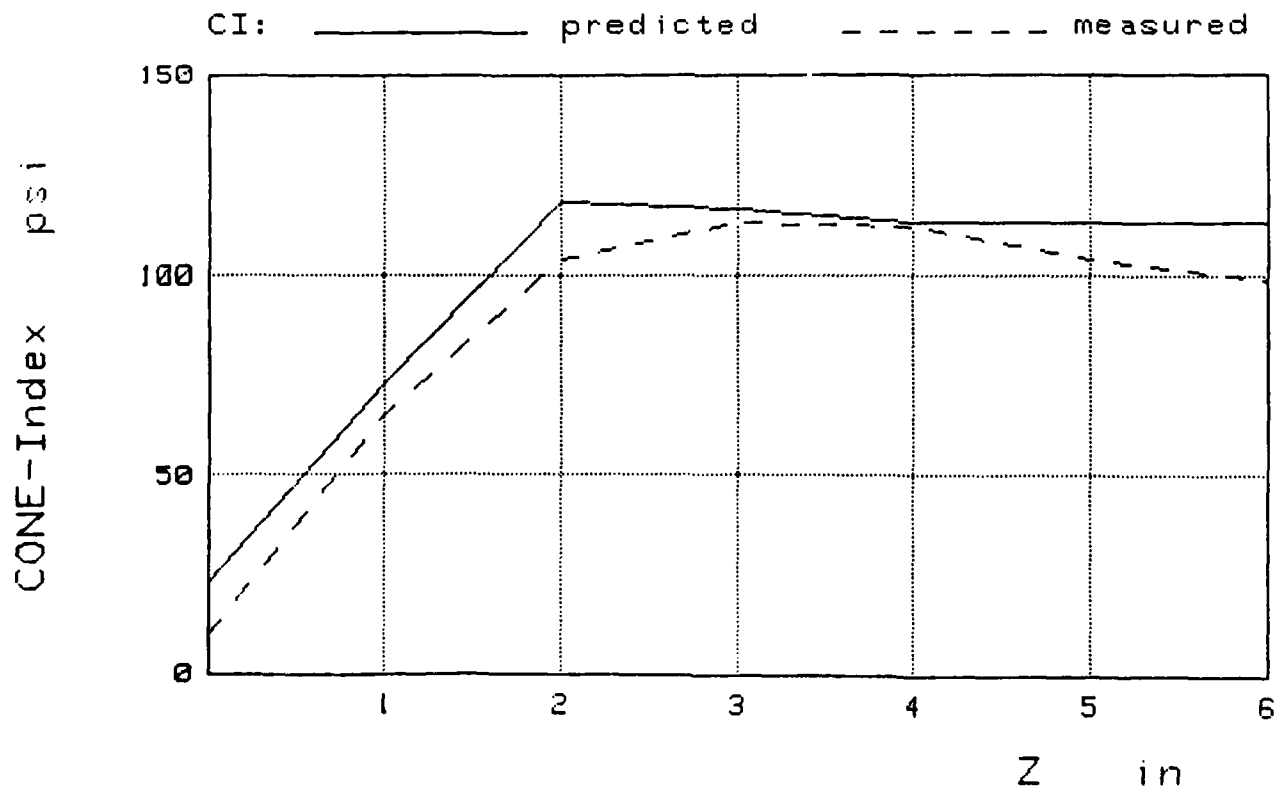


Fig.114 Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.
20

QUAD NO.
L2724

GRID COORD.
5240/0345

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
.60	2.00	120.00	.0550	2.0 in
.90	3.00	150.00	.0550	4.0 in
1.20	5.00	300.00	.0550	6.0 in
1.80	5.00	350.00	.0550	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	8.82	7.00
1.00	10.58	8.00
2.00	14.24	10.00
3.00	17.08	15.00
4.00	23.93	25.00
5.00	27.19	27.00
6.00	34.04	32.00

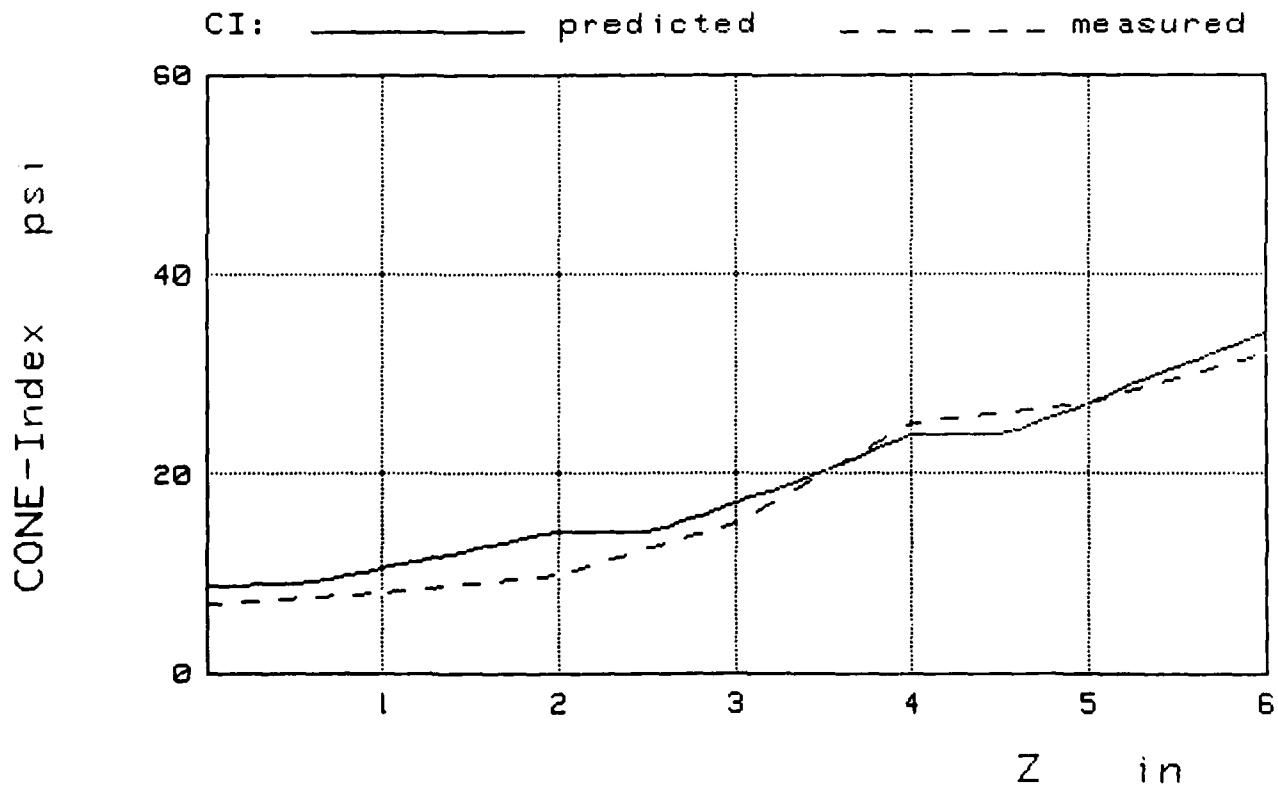


Fig.115

Plots of Predicted and Measured Cone Indices for the Sites Investigated

SITE NO.
27

QUAD NO.
L5934

GRID COORD.
8255/5535

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
2.50	5.00	200.00	.0524	1.0 in
3.50	6.00	400.00	.0524	4.0 in
4.00	7.00	600.00	.0524	6.0 in
5.00	7.00	800.00	.0524	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	47.12	43.00
1.00	64.00	70.00
2.00	64.13	59.00
3.00	70.16	74.00
4.00	83.51	90.00
5.00	90.59	99.00
6.00	105.52	105.00

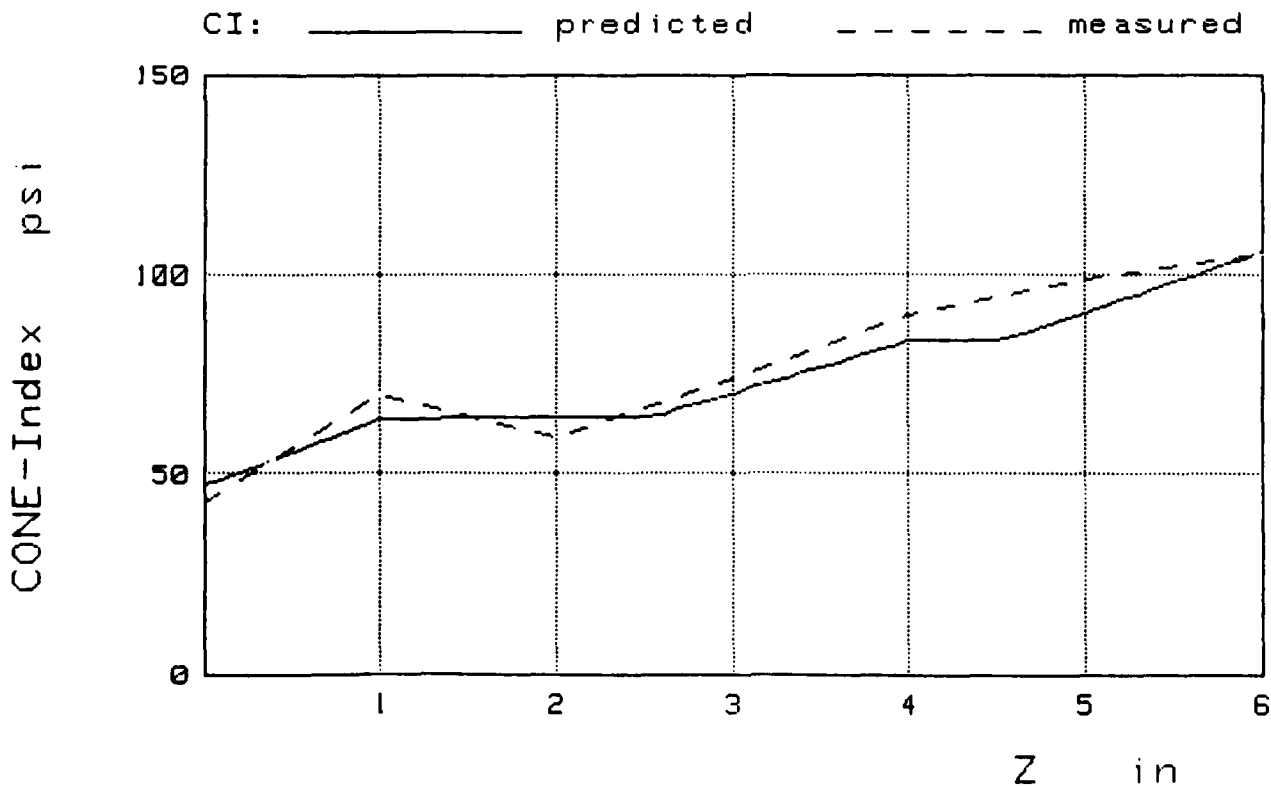


Fig.116

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO.
28

QUAD NO.
L6334

GRID COORD.
3535/1800

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
1.50	0.00	300.00	.0629	1.0 in
5.00	0.00	800.00	.0629	5.5 in
9.00	0.00	900.00	.0629	7.0 in
9.00	0.00	1200.00	.0629	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	31.72	29.00
1.00	59.57	61.00
2.00	59.64	62.00
3.00	59.67	63.00
4.00	59.70	67.00
5.00	87.55	78.00
6.00	102.67	96.00

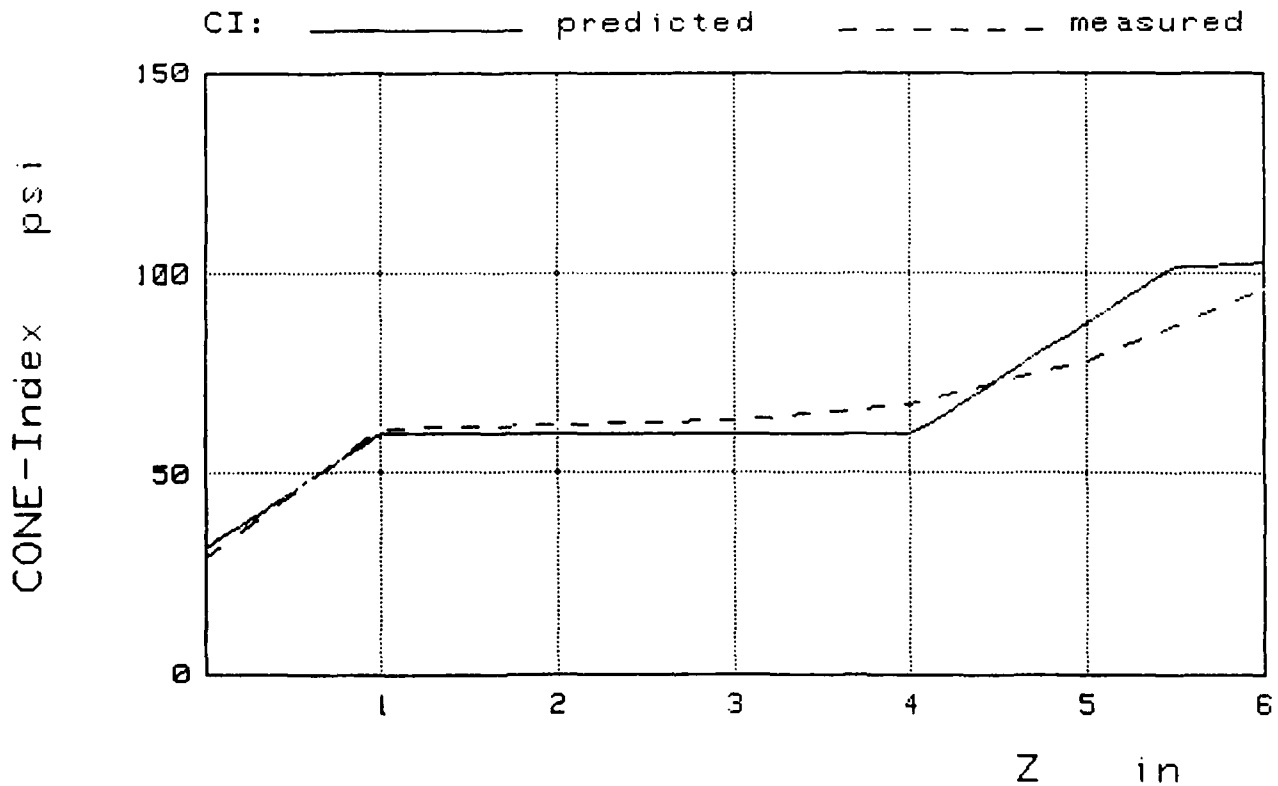


Fig.117

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO.
34

QUAD NO.
L8118

- 133 -

GRID COORD.
8045/9530

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
.80	0.00	250.00	.0481	1.5 in
4.00	0.00	400.00	.0481	4.0 in
4.50	0.00	600.00	.0481	6.0 in
5.00	0.00	800.00	.0481	9.0 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	10.32	6.00
1.00	33.69	27.00
2.00	45.16	38.00
3.00	47.61	48.00
4.00	52.53	53.00
5.00	54.84	57.00
6.00	59.56	62.00

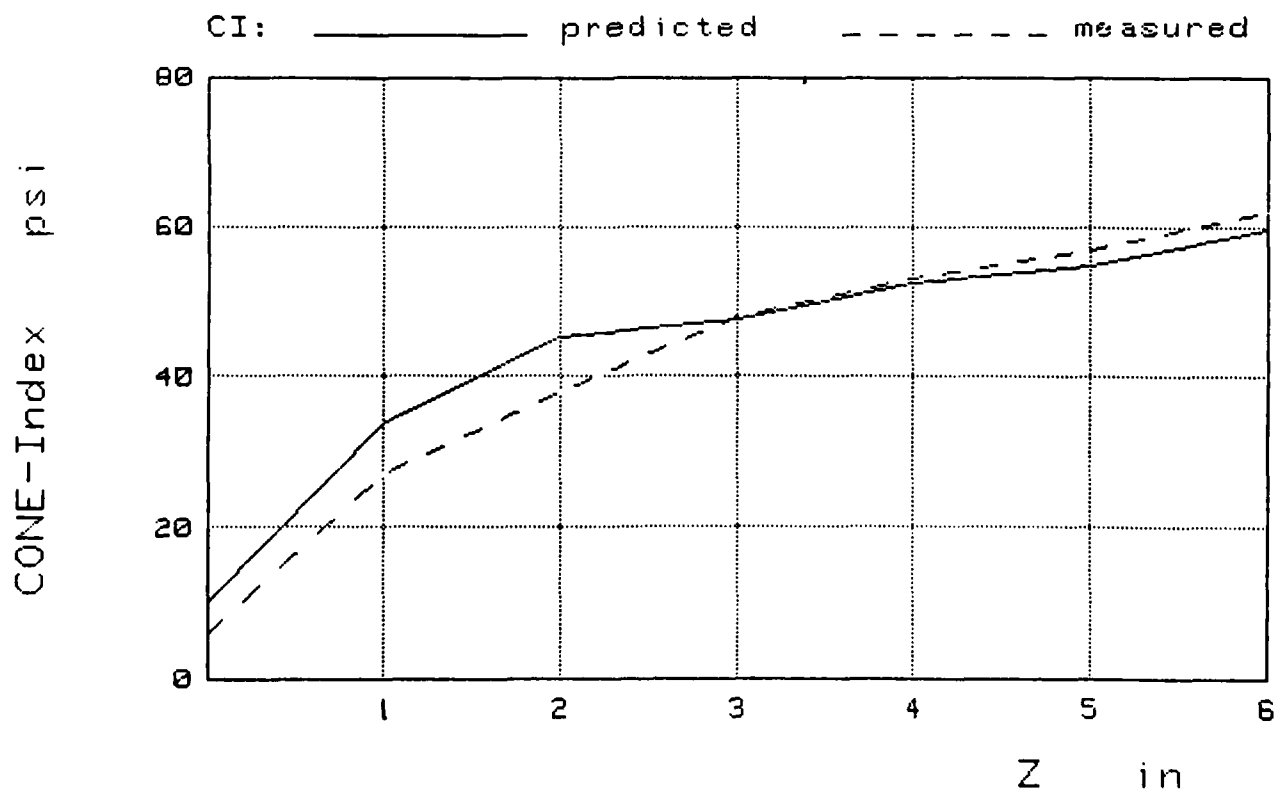


Fig.118

Plots of Predicted and Measured Cone Indices for the
Sites Investigated

SITE NO.
35

QUAD NO.
L6510

GRID COORD.
8480/7100

COHESION PSI	FRICTION ANGLE DEGREE	SHEAR MOD. PSI	DENSITY PCI	
2.00	0.00	200.00	.0643	2.0 in
4.00	0.00	240.00	.0643	4.0 in
4.00	0.00	260.00	.0643	6.0 in
5.50	0.00	300.00	.0643	7.5 in

Z [in]	CI [psi]	CI-meas.[psi]
0.00	22.58	17.00
1.00	29.17	32.00
2.00	42.45	40.00
3.00	42.59	43.00
4.00	42.92	43.00
5.00	47.69	53.00
6.00	57.63	61.00

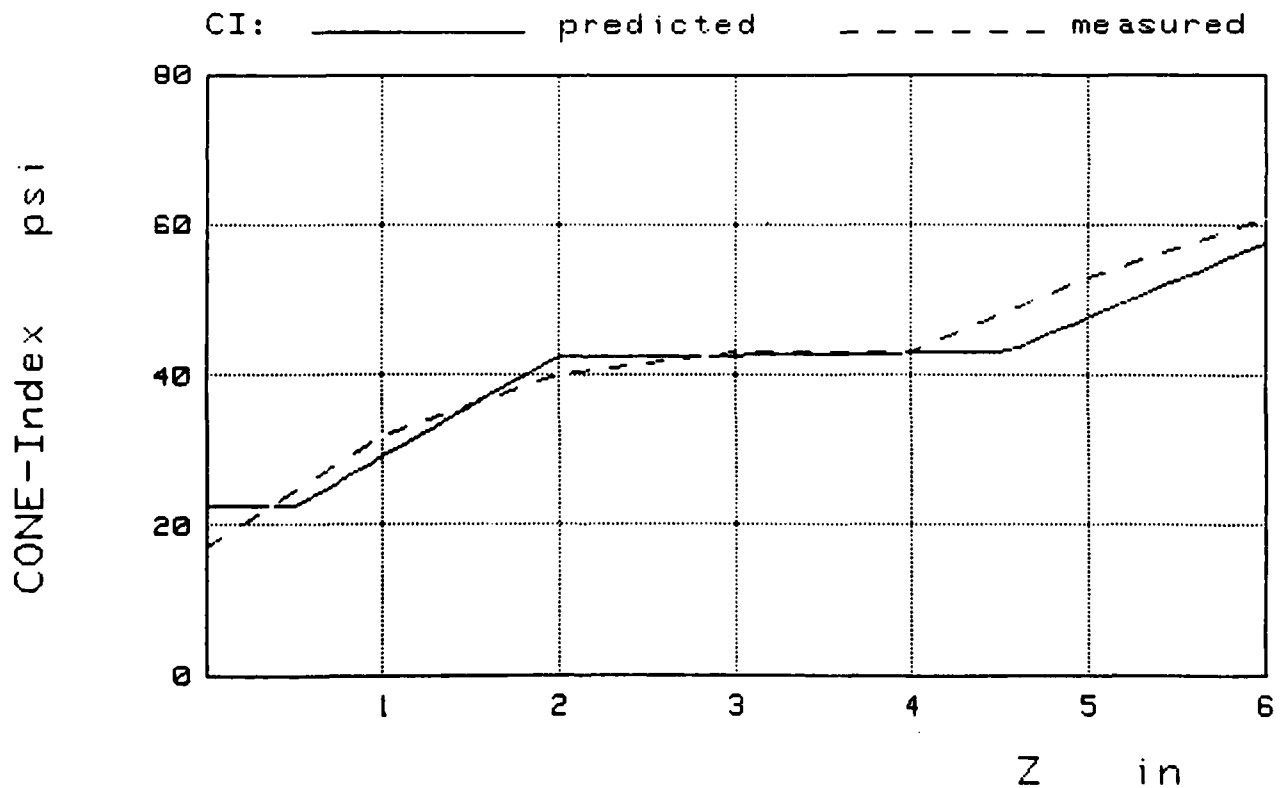


Fig.119

Plots of Predicted and Measured Cone Indices for the Sites Investigated

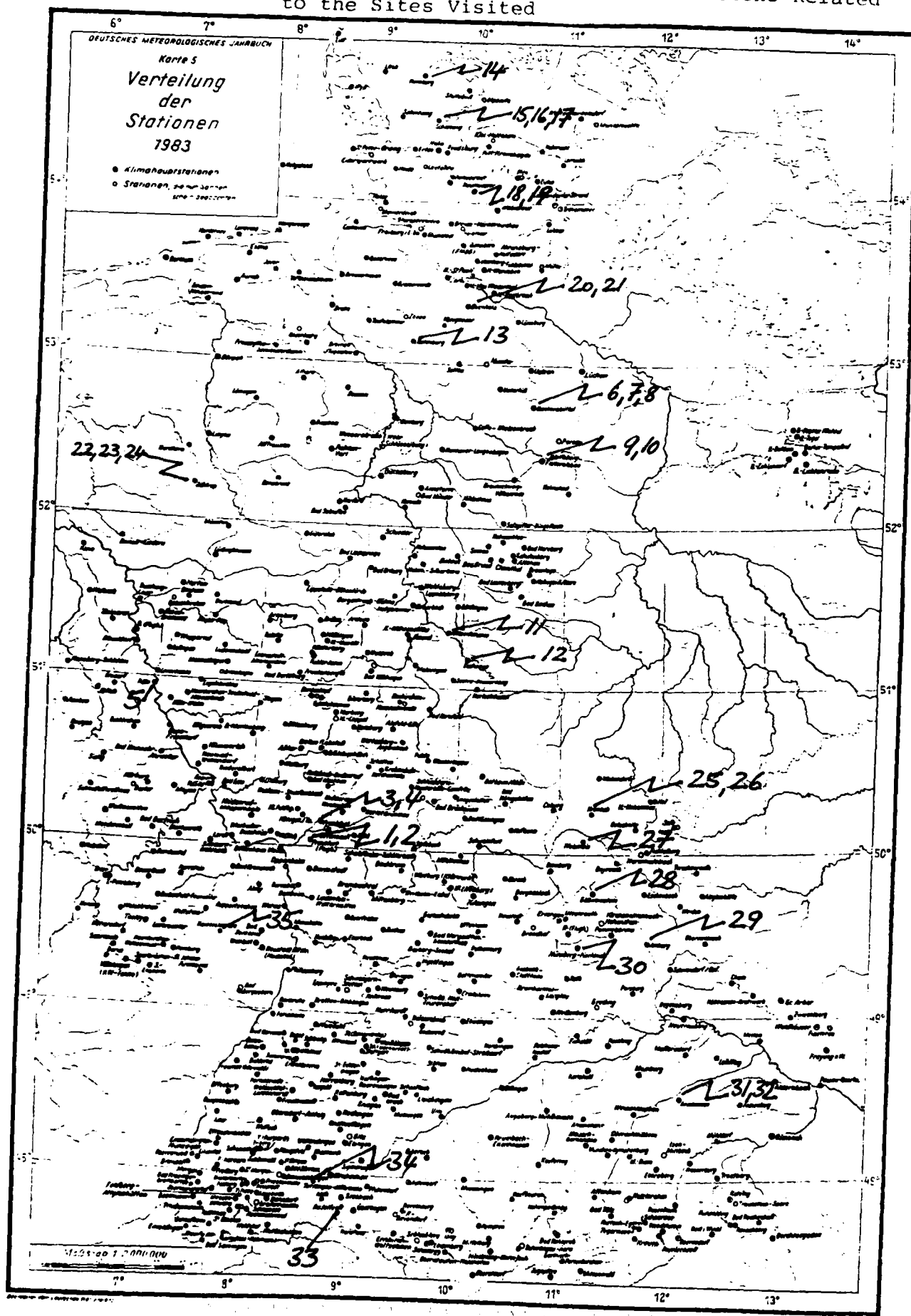
List of Tables

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Table 8	Summary of the Test Site Data Obtained
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Table 1 Site Characteristics and Locations Within FRG Terrain
(Critical Sites Shown by *)

Site No.	Quad Sheet (Generic Region)	Grid Coord. (UTM)	CI 0 - 6" (May 85)	RI 0 - 6" (May 85)	RCI 0 - 6" (May 85)	CI 0 - 6" (Oct. 84)	Weather Station
1*	L 5916	6050/4170	59	0.79	47	40	Frankfurt
2*	"	6001/4565	59	0.75	44	83	
3*	L 5918	8340/4665	51	0.41	21	77	Offenbach
4	" (1)	6930/1280	39	1	39	-	
5*	L 5106	3910/3595	61	1	61	48	Köln
6*	L 3528	0670/2725	48/(82)	0.79/(0.59)	38/(48)	106	Hankensbüttel
7*	"	0600/2325	51	0.43	22	110	
8*	"	0500/2526	72	0.46	33	69	Wolfsburg
9*	L 3730	2720/8630	34	0.48	16	52	
10	" (2)	3050/8775	30	0.45	14	-	Witzenhausen
11*	L 4724	6630/7525	87	0.85	74	114	
12*	L 4924 (21)	6425/7075	86	0.60	52	112	Eschwege
13*	L 3122 (6)	3560/6820	79/(104)	0.77/(0.47)	58/(49)	117	Rotenburg
14	L 1322 (1)	3480/6285	59	0.53	31	-	Flensburg
15	L 1522	2940/3740	14	1	14	-	Schleswig
16	"	3585/3440	124	0.93	115	148	
17*	" (2)	3600/3055	26	1	26	65	Neumünster
18	L 1924	6140/0185	37	0.34	13	-	
19*	"	6140/0280	49	0.60	30	48	Buchholz
20*	L 2724	5240/0345	18	0.52	9	38	
21*	"	5375/9960	27	0.56	15	57	Ochtrup
22*	L 3908 (6)	8200/6815	44	1	44	43	
23	"	8200/6815	17	0.37	6	-	Kronach
24	"	8160/6845	22	0.30	7	-	
25*	L 5734	6810/7780	59	0.48	28	109	Weismain
26	L 5934 (26)	8165/5470	127	-	-	89	
27*	L 5934	8255/5535	77	0.37	29	119	Gössweinstein
28*	L 6334	3535/1800	65/(109)	0.53/(0.68)	35/(74)	97	
29*	L 6536	9390/8950	82	1	82	64	Amberg
30*	L 6534 (48)	8920/8965	58	1	58	50	Nürnberg
31	L 7738	8480/4710	43	0.61	26	-	Kumhausen
32	"	8760/4350	101	0.95	96	99	
33	L 8318	8140/8950	62	1	62	-	Radolfzell
34*	L 8118 (48)	8045/9530	41	0.88	36	69	Tuttlingen
35*	L 6510 (21)	8480/7100	41/(70)	0.45/(0.38)	18/(27)	25	Kaiserslautern

Table 1 ctd. Distribution of Climatological Stations Related to the Sites Visited



Legend of Meteorological Data for Tables 2-6

Headings of columns 1 to 29

- 1 Station
- 2 Altitude above sea level
- 3 Mean temperature ($^{\circ}\text{C}$)
- 4 Deviation from mean value 1931-1960 ($^{\circ}\text{C}$)
- 5 Maximum temperature ($^{\circ}\text{C}$)
- 6 Maximum temperature at ... (date = day of current month)
- 7 Minimum temperature ($^{\circ}\text{C}$)
- 8 Minimum temperature at ... (date = day of current month)
- 9 Minimum temperature on ground level
- 10 Minimum temperature at ... (date = day of current month)
- 11 Relative humidity, %
- 12 Cloudiness
- 13 Precipitation (mm)
- 14 Precipitation in % of the 1931-1960 mean value
- 15 Number of days with precipitation above 0.1 mm
- 16 Number of days with precipitation above 1.0 mm
- 17 Number of days with precipitation above 10.0 mm
- 18 Number of days with snow fall above 0.1 mm
- 19 Number of days with snow cover
- 20 Number of foggy days
- 21 Number of thunderstorm days
- 22 Number of clear/fair days
- 23 Number of cloudy days
- 24 Number of hot days
- 25 Number of summer days
- 26 Number of frost days
- 27 Number of ice days
- 28 Sunshine period in hours
- 29 Sunshine period in % of the 1951-1960 mean

September 1984

Monatswerte

Table 2

Meteorological/Climatological Data for the Areas of Investigation (September 1984)

Station	Höhe über NN m	Lufttemperatur in °C					Luftfeuchtigkeit				Niederschlag				Schnee				Zahl der Tage				Sonnen- schein- dauer in %						
		Mittel	Abweichung 1)	höchste	Datum	tiefe	Datum	tiefe am Erd- boden	Datum	Bewölkung 0-8	Höhe in mm	in %	Niederschlag		Schnee		Nebel	Gewitter	heitere	Frosttage	Eisstage	in Std	in %						
													0-1 mm	1-10 mm	fall > 0.1 mm	decke > 10 cm													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Schleswig-Holstein																													
List auf Sylt (Wst)	26	13.0	-1.2	19.8	3.	3.	9.0	22.24.	4.5	28.	81	5.8	162	205	23	19	5	.	.	.	4	2	1	12	.	.	.	127	70
Leck (BW)	7	12.0	-0.8	20.4	3.	3.	3.2	28.	2.1	28.	84	4.8	130	173	24	16	6	.	.	.	4	4	1	6	.	.	.	105	50
Flensburg (Schäferhaus)	41	11.8	-1.2	20.2	3.	3.	3.2	28.	2.8	28.	84	5.4	137	173	22	15	5	.	.	.	4	2	1	10	.	.	.	86	50
Wyk/Föhr	1	12.9	.	21.0	3.	3.	4.3	5.	0.3	5.	85	5.9	151	184	22	22	3	.	.	.	4	1	.	15	.	.	.	114	.
Stoltebüll (I)	28	12.2	-1.0	21.3	3.	3.	4.8	8.	4.0	8.	84	5.7	86	130	20	14	2	.	.	.	2	1	1	10	.	.	.	108	66
Schleswig (WA)	43	12.3	-0.8	20.8	3.	3.	5.4	28.	3.5	28.	85	5.7	85	105	20	13	2	.	.	.	4	2	1	11	.	.	.	115	66
Westermarsdorf/Fehmarn (I)	1	13.0	-1.0	22.3	3.	3.	6.7	8.	3.2	8.	83	5.2	90	164	19	14	3	.	.	.	8	6	1	6	.	.	.	108	.
Schwesing (BW)	28	12.1	-0.9	20.5	3.	3.	4.2	6.	2.3	7.	89	5.2	82	92	21	14	3	.	.	.	2	1	1	10	.	.	.	102	58
Kiel-Kronshagen (Wst)	17	12.4	-0.9	22.8	3.	3.	5.0	28.	4.0	28.	85	5.4	91	132	20	14	2	.	.	.	2	1	1	10	.	.	.	106	58
Hohwacht	10	12.6	-1.1	22.8	3.	3.	6.7	8.25.	5.7	25.	86	5.1	106	125	20	16	4	.	.	.	3	.	8	.	.	.	.	111	.
Erkde (I)	18	12.2	-1.0	20.3	3.	3.	4.4	8.28.	4.0	8.	86	5.1	122	153	22	18	4	.	.	.	3	2	12	.	.	.	.	106	.
Sankt Peter-Ording	4	13.0	-1.2	20.5	3.	3.	4.6	8.	2.0	28.	81	6.0	97	129	21	14	5	.	.	.	2	2	11	.	.	.	.	.	.
Rendsburg	8	12.3	-0.8	21.3	3.	3.	4.3	28.	2.1	8.	83	5.6	97	129	21	14	5	.	.	.	2	2	19	.	.	.	.	.	.
Lensahn	14	12.5	-1.1	22.7	3.	3.	5.2	8.	3.0	8.	87	6.6	90	143	19	15	4	.	.	.	5	2	8	.	.	.	.	132	80
Heide/Holstein	12	12.4	-1.1	20.6	3.	3.	4.0	8.	3.2	8.	85	5.4	155	176	22	17	4	.	.	.	1	1	7	.	.	.	.	94	.
Helgoland (Wst)	4	14.2	-1.1	19.1	2.	2.	9.8	23.	6.3	24.	88	5.3	98	123	22	14	2	.	.	.	1	1	10	.	.	.	.	.	.
Plön (See (I))	24	12.5	-1.4	21.6	3.	3.	7.5	8.25.	6.6	25.	88	5.8	77	110	20	13	2	.	.	.	4	.	14	.	.	.	.	.	.
Eutin	50	12.3	-1.1	22.4	3.	3.	4.6	8.	3.6	8.	84	5.8	112	135	22	14	5	.	.	.	4	.	9	.	.	.	.	.	.
Hohenwerst	80	11.7	-1.3	20.5	3.	3.	5.0	24.	3.5	24.	87	5.9	112	135	22	14	5	.	.	.	2	1	9	.	.	.	.	120	.
Neumünster	21	12.3	-1.0	22.0	3.	3.	4.7	28.	3.3	25.	84	5.5	104	141	22	16	5	.	.	.	4	2	1	9	.	.	.	112	.
Heide, K.: Dithmarschen (I)	2	12.5	-1.2	20.6	3.	3.	5.9	8.	4.4	8.	82	5.2	150	188	21	16	5	.	.	.	4	2	4	13	.	.	.	.	.
Travemünde (I)	9	12.8	-1.2	23.0	3.	3.	6.5	28.	3.5	28.	84	5.2	72	150	15	13	3	.	.	.	2	.	23	.	.	.	.	102	54
Wahlstedt	45	12.1	-1.3	22.2	3.	3.	4.1	24.	1.5	28.	84	6.7	85	21	14	3	.	.	.	5	.	2	11	.	.	.	.	98	.
Lübeck (Wst)	8	12.7	-1.3	23.0	3.	3.	5.1	24.	4.4	24.	79	5.7	77	128	17	12	2	.	.	.	2	1	11	.	.	.	.	95	.
Brande-Hörnerkirchen (I)	9	12.0	-0.9	21.6	3.	3.	3.9	24.	2.4	8.	87	6.1	93	119	14	4	4	.	.	.	5	.	16	.	.	.	.	92	.
Glückstadt (I)	2	12.5	-1.5	21.5	3.	3.	4.0	8.	3.4	8.	80	5.8	69	96	22	13	3	.	.	.	3	.	11	.	.	.	.	92	.
Quickborn (FMG), K.: Pinnberg	13	12.4	-0.6	21.5	3.	3.	4.0	24.	2.0	8.	85	5.6	76	114	19	14	2	.	.	.	10	.	14	.	.	.	.	101	.
Ahrensburg-Wulfsdorf (ANBF)	46	12.2	-1.0	21.9	3.	3.	4.5	24.	1.7	8.	90	5.9	75	114	19	14	2	.	.	.	3	.	13	.	.	.	.	89	.
Mölln (I)	42	12.4	-0.8	22.0	3.	3.	4.1	24.	3.0	24.	87	5.9	83	148	22	15	2	.	.	.	2	.	2	13	.	.	.	.	.
Hamburg-Fuhlsbüttel (Flugh.)	13	12.6	-0.9	22.2	3.	3.	4.0	24.	1.5	28.	85	5.4	78	128	21	13	2	.	.	.	5	.	10	.	.	.	.	112	65
Bremerhaven (Wewa)	7	13.2	-1.0	22.3	2.	2.	5.1	24.	4.6	24.	84	5.6	75	109	22	16	4	.	.	.	5	2	12	.	.	.	.	105	63
Bremen (Flugh.)	4	12.8	-1.2	23.4	2.	2.	2.9	24.	2.1	13.	84	5.9	99	165	21	16	4	.	.	.	5	3	14	.	.	.	.	94	57
Niedersachsen																													
Cuxhaven (Wst)	5	13.3	-1.2	20.6	2.14.	2.14.	6.9	24.	5.0	24.	83	5.3	101	120	22	16	4	.	.	.	2	4	1	11	.	.	.	121	71
Wangerooge	6	13.4	-1.3	21.6	3.1	3.1	6.6	24.	5.7	24.	85	4.3	107	132	21	15	3	.	.	.	4	1	2	.	.	.	.	.	.
Langoog	5	13.5	-1.2	21.8	2.	2.	6.9	24.	5.3	8.	83	5.8	110	134	21	14	4	.	.	.	4	1	2	.	.	.	.	.	.
Norderney (Wst)	11	13.9	-1.0	21.5	2.	2.	7.7	24.	6.4	24.	81	5.7	116	145	21	17	5	.	.	.	3	1	8	.	.	.	.	10	70
Bederkesa	27	12.2	-1.5	21.5	3.	3.	3.0	24.	3.0	24.	86	5.8	95	128	20	16	2	.	.	.	4	1	12	.	.	.	.	.	.
Wilhelmshaven	1	12.9	-1.2	23.4	2.	2.	4.7	24.	3.8	24.	85	5.4	90	127	18	15	1	.	.	.	3	1	7	.	.	.	.	109	.
Jever (BW)	7	12.7	-1.0	23.3	2.	2.	4.2	24.	2.2	24.	82	5.5	90	122	22	15	3	.	.	.	11	3	8	.	.	.	.	98	.
Jork	1	12.1	-1.1	21.5	3.	3.	2.9	24.	2.6	24.	86	5.4	69	105	19	13	2	.	.	.	3	.	11	.	.	.	.	.	.
Bremervörde	5	12.1	-1.3	21.4	2.	2.	2.2	24.	2.5	24.	85	5.7	98	146	22	16	2	.	.	.	7	1	11	.	.	.	.	86	56
Aurich	4	12.5	-1.0	23.6	2.	2.	4.3	13.	0.9	13.	88	6.6	92	126	21	17	2	.	.	.	7	.	17	.	.	.	.	.	.
Emden-Neserland (Wst)	5	13.5	-0.7	24.3	2.	2.	6.1	24.	4.9	24.	82	5.7	99	138	20	16	3	.	.	.	5	.	9	.	.	.	.	90	56

1) Sonnenscheindauer nicht direkt am Standort der Station registriert. *) vom Mittel 1931-1960. **) vom Mittel 1951-1960
Abkürzungen: WA = Wetteramt, Wewa = Wetterwarte, Wst = Wetterstation, ANBF = Agrarmeteorologische Beratungs- und
Forschungsstelle, BW = Bundeswetter, Kbst = Klimastationsstelle, Nst = Niederschlagsstation

Table 2 ctd.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
20} Brake (Intersect)	5	12.8	-0.8	22.5	2	4.7	24.	4.0	24.	83	6.2	96	160	21	17	3	3	3	3	7	2	15	15	1	1	1	1	1	99
21} Buchholz (N. Nordh.)	77	11.5	-1.0	21.0	3	3.5	24.	1.0	8.	89	6.1	112	12	20	17	2	2	2	2	5	5	16	16	1	1	1	1	1	86
Feuchtwangen	6	12.4	-1.0	23.0	3	1.9	24.	4.0	24.29.	79	5.8	94	152	19	15	2	2	2	2	8	8	12	12	1	1	1	1	1	88
Feuchtwangen	11	12.4	-1.0	23.0	3	5.2	24.	4.0	24.29.	79	5.8	94	152	19	15	2	2	2	2	8	8	12	12	1	1	1	1	1	88
Feuchtwangen	5	12.6	-1.4	23.3	2	4.9	24.	1.8	24.	85	6.2	103	163	23	15	2	2	2	2	6	6	13	13	1	1	1	1	1	88
Feuchtwangen	24	11.8	-1.6	23.0	2	4.9	24.	3.1	29.	77	5.7	95	164	18	14	3	3	3	3	7	7	18	18	1	1	1	1	1	91
Feuchtwangen	8	12.5	-1.0	22.0	2	3.6	24.	1.1	13.	87	6.4	115	185	21	17	4	4	4	4	7	7	18	18	1	1	1	1	1	96
Feuchtwangen	77	12.3	-1.0	22.1	2	5.0	13.	2.7	13.	85	5.7	78	137	20	14	2	2	2	2	6	6	12	12	1	1	1	1	1	96
Feuchtwangen	6	12.9	-0.8	23.8	2	5.3	24.	1.5	24.	83	6.1	103	167	21	15	1	1	1	1	4	4	13	13	1	1	1	1	1	86
Feuchtwangen	45	12.6	-0.9	23.3	3	5.0	24.	3.5	24.	88	5.6	80	167	21	15	1	1	1	1	6	6	13	13	1	1	1	1	1	97
Feuchtwangen	17	12.6	-1.1	23.3	3	4.0	24.	4.0	24.	85	6.3	62	138	21	15	1	1	1	1	6	6	13	13	1	1	1	1	1	53
Feuchtwangen	48	12.6	-1.1	23.3	3	3.9	24.	1.9	24.	84	5.8	109	19	16	4	4	4	4	7	7	3	3	13	13	1	1	1	1	86
Feuchtwangen	53	12.6	-1.1	23.3	3	3.0	17.	3.5	13.	86	6.5	138	20	15	4	4	4	4	7	7	3	3	13	13	1	1	1	1	86
Feuchtwangen	98	11.9	-1.5	22.7	2	3.4	17.	2.3	17.	89	6.0	131	238	22	17	4	4	4	4	7	7	3	3	13	13	1	1	1	86
Feuchtwangen	36	13.0	-0.7	25.0	2	6.0	6.17.	5.0	6.13.	83	6.0	131	196	22	17	5	5	5	5	4	4	1	1	14	14	1	1	1	80
Feuchtwangen	84	12.1	-1.0	24.0	3	5.5	13.	2.5	13.	86	6.2	94	181	21	15	3	3	3	3	4	4	1	1	14	14	1	1	1	80
Feuchtwangen	26	13.0	-1.0	24.4	2	5.0	13.	4.0	13.	83	6.3	105	206	21	15	4	4	4	4	2	2	3	3	18	18	1	1	1	91
Feuchtwangen	21	13.5	-0.6	24.7	2	6.1	6.	5.2	6.	84	6.1	142	206	21	17	7	7	7	7	4	4	2	2	16	16	1	1	1	82
Feuchtwangen	48	12.8	-0.6	24.5	2	5.5	28.	3.8	28.	86	6.0	135	201	19	16	4	4	4	4	1	1	1	1	14	14	1	1	1	107
Feuchtwangen	53	13.1	-0.7	24.0	2	4.8	28.	3.4	28.	83	5.9	93	172	21	13	3	3	3	3	5	5	3	3	14	14	1	1	1	65
Feuchtwangen	24	13.1	-1.0	25.1	2	5.8	28.	5.2	28.	83	6.5	162	257	22	19	5	5	5	5	3	3	3	3	19	19	1	1	1	92
Feuchtwangen	74	13.1	-1.0	24.0	3	5.8	13.	4.8	13.	83	5.6	75	144	21	11	3	3	3	3	2	2	1	1	11	11	1	1	1	55
Feuchtwangen	81	13.0	-1.0	23.2	3	6.4	13.29.	3.0	28.	82	6.2	70	137	21	11	2	2	2	2	4	4	1	1	16	16	1	1	1	55
Feuchtwangen	95	12.9	-1.0	24.8	2	5.9	6.	2.7	6.	83	6.5	116	181	22	16	4	4	4	4	1	1	2	2	20	20	1	1	1	81
Feuchtwangen	395	11.1	-1.0	24.8	2	6.2	24.	3.2	28.	92	6.2	129	190	22	16	3	3	3	3	20	20	1	1	14	14	1	1	1	52
Feuchtwangen	144	14.8	0.9	25.7	3	6.9	25.	3.1	28.	82	6.6	73	155	17	14	3	3	3	3	2	2	1	1	19	19	2	2	2	78
Feuchtwangen	100	12.9	-0.9	24.0	2	3.5	28.	2.3	28.	83	6.0	97	183	21	17	2	2	2	2	2	2	1	1	14	14	1	1	1	93
Feuchtwangen	64	13.4	-1.0	24.7	2	4.4	13.	-0.5	13.	83	5.6	82	155	18	14	3	3	3	3	3	3	1	1	14	14	1	1	1	70
Feuchtwangen	130	12.2	-1.5	23.6	2	3.9	28.	2.9	28.	81	6.4	93	198	20	13	2	2	2	2	3	3	1	1	19	19	1	1	1	84
Feuchtwangen	260	12.2	-1.5	23.6	2	6.0	28.	0.1	28.	80	6.1	117	205	21	14	2	2	2	2	1	1	1	1	15	15	1	1	1	62
Feuchtwangen	553	9.9	-1.8	19.7	3	2.4	28.	-1.0	29.	90	6.0	227	239	246	22	17	7	7	7	12	12	1	1	14	14	1	1	1	78
Feuchtwangen	504	10.3	-1.0	20.0	3	5.9	29.	2.9	29.	75	6.5	146	256	20	16	4	4	4	4	8	8	1	1	19	19	1	1	1	93
Feuchtwangen	128	13.1	-0.9	24.2	2	4.4	29.	2.9	29.	79	6.8	114	215	19	17	4	4	4	4	5	5	1	1	20	20	1	1	1	70
Feuchtwangen	105	13.5	-0.3	24.9	2	3.3	13.	3.3	13.	89	6.6	146	183	20	16	7	7	7	7	7	7	1	1	18	18	1	1	1	84
Feuchtwangen	300	11.3	-1.8	19.5	3	2.6	28.	2.6	28.	90	6.5	212	204	21	17	8	8	8	8	10	10	1	1	19	19	1	1	1	62
Feuchtwangen	563	9.8	-1.8	19.5	3	3.3	13.	3.3	13.	88	6.4	183	238	20	15	7	7	7	7	8	8	1	1	19	19	1	1	1	83
Feuchtwangen	495	10.1	-1.0	20.1	3	1.5	28.	1.5	28.	88	6.4	183	238	20	15	7	7	7	7	8	8	1	1	20	20	1	1	1	77
Feuchtwangen	407	10.8	-1.0	21.0	2	4.5	6.	-1.1	28.	89	6.6	207	213	22	19	8	8	8	8	5	5	1	1	19	19	1	1	1	69
Feuchtwangen	607	9.6	-1.7	19.6	3	3.4	28.	3.4	28.	87	6.2	139	190	20	15	6	6	6	6	5	5	1	1	15	15	1	1	1	77
Feuchtwangen	317	11.3	-1.4	24.8	2	3.8	28.	3.8	28.	87	6.2	139	190	20	15	6	6	6	6	3	3	1	1	21	21	1	1	1	76
Feuchtwangen	175	12.9	-0.7	24.4	1	5.5	29.	3.0	28.	82	6.7	108	230	21	15	3	3	3	3	2	2	1	1	21	21	1	1	1	49
Feuchtwangen	51	12.8	-1.1	25.3	3	3.8	24.	2.0	24.	81	6.0	61	133	20	11	1	1	1	1	1	1	1	15	15	1	1	1	1	102
Feuchtwangen	22} Nordheim (Meteorol. Inst.)	51	12.8	-1.1	25.3	3	3.8	24.	2.0	24.	81	6.0	61	133	20	11	1	1	1	1	1	1	15	15	1	1	1	1	53
23} Nordheim (Westf.)	98	13.2	-0.9	25.0	2	5.9	28.	4.4	13.	81	6.6	99	165	21	13	3	3	3	3	3	3	19	19	1	1	1	1	1	79
24} Nordheim (Westf.)	62	13.3	-0.9	25.1	2	4.6	6.	4.6	6.	84	6.5	126	210	19	13	5	5	5	5	3	3	17	17	1	1	1	1	1	69
Feuchtwangen	72	13.3	-0.9	25.1	2	4.1	6.	4.1	6.	86	6.4	107	170	18	15	4	4	4	4	3	3	17	17	1	1	1	1	1	43
Feuchtwangen	21	13.1	-1.1	25.5	2	4.1	6.	3.1	28.	87	6.5	140	200	21	16	6	6	6	6	9	9	1	1	17	17	1	1	1	68
Feuchtwangen	157	13.1	-1.1	25.5	2	4.1	6.	3.1	28.	87	6.5	140	200	21	16	6	6	6	6	9	9	1	1	17	17	1	1	1	69
Feuchtwangen	45	13.4	-1.3	25.6	2	7.0	24.29.	6.0	29.	87	6.7	160	239	23	17	6	6	6	6	4	4	2	2	21	21	1	1	1	51
Feuchtwangen	92	13.5	-0.8	25.5	2	4.2	6.	4.2	6.	82	6.5	113	13	20	14	3	3	3	3	8	8	1	1	17	17	1	1	1	79
Feuchtwangen	240	12.4	-0.8	24.2	2	4.6	29.	3.3	6.	85	7.0	118	227	22	15	5	5	5	5	2	2	1	1	20	20	1	1	1	71
Feuchtwangen	154	13.2	-1.4	24.8	2	6.5	6.	6.5	6.	86	6.4	172	223	24	15	7	7	7	7	4	4	3	3	18	18	1	1	1	47
Feuchtwangen	100	13.3	-1.4	25.3	2	5.6	6.	5.6	6.	85	6.5	150	20	15	5	5	5	5	5	1	1	1	20	20	1	1	1	1	70
Feuchtwangen	216	12.1	-0.8	23.8	2	3.6	6.	3.6	6.	86	6.6	156	200	25	20	5	5	5	5	2	2	1	22	22	1	1	1	1	70

Table 2 ctd.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Rheinland Pfalz																													
Thüngen	290	12.1	-1.4	24.8	2.	5.0	28.	3.6	28.	89	6.4	192	256	20	16	7	.	.	2	1	.	17	.	.	.	.	49	31	
Bad Marienberg (Wst)	547	10.4	-1.6	22.3	1.	4.4	6.	0.9	6.	91	7.0	243	300	24	18	10	.	.	15	1	.	24	.	.	.	.	75	.	
Bad Neuenahr Altwieser	111	14.1	-0.3	29.0	2.	5.5	24.	4.5	24.	87	6.3	152	323	17	16	5	.	.	3	1	.	18	.	2	.	.	.	.	
Neuwied Wollendorf	121	13.6	.	27.5	2.	6.6	22.	4.7	22.	84	6.4	153	264	20	17	4	.	.	2	1	.	20	.	2	.	.	.	.	
Niedertshert	250	12.6	.	26.8	1.	5.0	28.	3.6	28.	85	6.5	198	283	19	16	5	.	.	4	1	.	21	.	2	.	.	.	.	
Konkenz (Nst)	72	14.3	-0.8	27.0	1.	8.0	28.	5.1	23.	85	6.9	140	298	19	16	5	.	.	17	1	.	21	.	2	.	.	70	.	
Nurburg (Wst)	627	10.3	-2.0	23.0	1.	4.2	24.	3.3	24.	90	6.9	191	324	22	18	6	.	.	2	1	.	23	.	2	.	.	.	.	
Alzen	270	12.9	-1.2	27.1	1.	5.4	28.	3.6	24.	84	6.1	88	196	21	16	2	.	.	2	1	.	15	.	2	.	.	.	.	
Bad Hms	77	13.9	-0.7	26.9	1.	7.9	25.	6.8	22.	88	6.8	182	331	19	19	6	.	.	2	1	.	23	.	2	.	.	.	.	
Schmetelhofshaus	657	10.0	-1.6	23.7	2.	4.2	24.	3.0	24.	91	6.9	275	340	24	19	10	.	.	14	2	.	23	.	.	.	.	58	.	
Wekenschen	530	10.6	-1.5	23.9	2.	5.0	24.	2.5	28.	89	7.4	189	274	23	16	9	.	.	15	1	.	25	.	.	.	.	67	.	
Manderscheid Tufel	403	11.6	-1.3	26.2	2.	4.2	28.	2.4	28.	84	6.4	179	284	20	16	7	.	.	7	1	.	17	.	2	.	.	.	.	
Blankenath	400	12.0	-1.1	25.5	2.	6.0	28.	3.6	28.	91	6.8	199	337	19	18	7	.	.	9	1	.	19	.	1	.	.	.	.	
Sunnern Wallbach	440	11.5	-1.6	25.2	2.	5.0	29.	2.5	28.	88	6.6	131	247	20	15	5	.	.	3	1	.	18	.	1	.	.	.	.	
Blanz	125	13.9	-0.9	28.2	1.	6.4	28.	5.0	23.	78	6.3	89	198	20	16	1	.	.	4	1	.	20	.	2	.	.	54	38	
Bernkastel	120	14.0	-0.9	27.5	2.	7.1	28.	5.5	28.	75	6.9	129	235	21	15	4	.	.	4	1	.	22	.	2	.	.	83	38	
Bad Krennach	159	13.6	-1.1	28.8	2.	7.0	28.	5.4	28.	80	6.8	84	195	18	9	3	.	.	2	1	.	22	.	2	.	.	.	.	
Bersheim	345	11.9	-0.7	27.0	2.	4.7	27.28.	3.2	24.	85	6.1	125	227	21	11	6	.	.	2	1	.	15	.	2	.	.	74	41	
Densbach (Wst)	480	11.5	-1.9	25.6	2.	5.1	24.	4.2	28.	86	6.8	156	236	22	18	6	.	.	2	1	.	23	.	1	.	.	61	.	
Trier Stadt	144	13.9	-0.8	28.0	2.	7.3	27.28.	6.0	24.	82	6.2	122	200	19	14	4	.	.	1	1	.	17	.	2	.	.	.	.	
Trier Petrusberg (WA)	265	12.9	-1.5	28.0	2.	6.3	28.	5.8	26.	84	6.6	137	236	21	13	4	.	.	9	1	.	20	.	2	.	.	70	45	
Alzey	395	11.5	-1.1	26.4	2.	4.7	27.28.	2.8	28.	86	6.7	186	270	18	14	7	.	.	2	1	.	20	.	1	.	.	.	.	
Birkenfeld Feckweiler	488	11.7	.	27.0	2.	5.2	24.	4.9	24.	84	6.3	142	268	21	13	6	.	.	3	1	.	18	.	2	.	.	80	52	
Ruppertschen	248	13.3	-1.3	28.8	2.	6.0	28.	4.0	28.	83	6.8	97	167	18	13	4	.	.	1	1	.	20	.	2	.	.	89	52	
Karlsbären	553	11.3	-2.0	26.8	2.	4.8	24.	4.4	23.27.	87	6.5	75	13	11	2	.	.	18	1	.	1	16	.	2	.	.	90	.	
Neulath War (Heinrich)	125	14.2	-0.6	28.0	1.	5.8	28.29.	2.9	28.	79	6.2	53	13	11	2	.	.	1	1	.	1	16	.	2	.	.	.	.	
Primsen	280	12.1	.	26.5	2.	4.5	29.	2.6	28.	88	6.1	136	186	21	13	5	.	.	4	1	.	2	17	.	2	.	.	100	
Bad Bergzabern I)	180	13.7	-1.2	28.0	2.	5.0	28.	5.0	28.	86	5.4	106	158	15	12	4	.	.	1	1	.	7	.	4	.	.	.	.	
Baden-Württemberg																													
Wertheim Fichel	140	12.6	-1.4	26.2	1.	5.9	28.	5.5	25.	81	5.2	100	164	19	17	2	.	.	6	1	.	5	.	3	.	.	.	.	
Lands Kongschoten (Gerlachshiem)	199	13.4	.	27.1	2.	3.9	28.	3.6	28.	81	6.1	81	153	20	16	3	.	.	5	1	.	16	.	4	.	.	92	51	
Manheim (Wewal)	96	14.2	-1.0	29.0	1.	6.4	23.	2.6	23.	81	6.2	99	174	19	14	4	.	.	3	1	.	16	.	4	.	.	88	50	
Baden Kr Neckar (Wst)	350	12.3	-0.8	26.0	1.	3.3	28.	2.6	28.	83	6.4	107	178	20	17	3	.	.	4	1	.	19	.	2	.	.	.	.	
Bad Mergheim-Neumarkten	250	12.8	-0.9	27.1	2.	4.4	28.	3.1	28.	83	6.0	96	185	21	15	3	.	.	4	1	.	2	16	.	4	.	.	.	
Herbach Neckar	176	12.8	-1.2	26.7	2.	6.4	28.	4.8	23.	84	6.9	181	248	19	18	3	.	.	1	1	.	25	.	2	.	.	76	45	
Herbach (Wst)	111	14.7	-1.1	28.4	1.	8.6	27.	8.4	26.	78	6.1	120	185	19	16	4	.	.	7	1	.	2	18	.	3	.	.	.	
Neudenau	210	13.3	-1.3	28.7	2.	6.2	28.	5.5	28.	87	5.7	143	231	19	16	4	.	.	7	1	.	12	.	4	.	.	.	.	
Ingeltingen	209	13.2	-0.5	28.7	2.	5.4	28.	4.6	28.	81	6.3	109	163	19	14	2	.	.	4	1	.	16	.	3	.	.	.	.	
Philippshurg	376	12.9	-1.4	26.5	2.	7.0	26.	4.6	19.	79	6.5	78	113	18	15	2	.	.	1	2	.	19	.	4	.	.	101	55	
Ohrenberg (Wst)	167	13.7	-1.4	27.7	2.	7.4	28.	6.2	27.	88	6.2	103	166	17	15	2	.	.	1	1	.	17	.	3	.	.	.	.	
Hellrom	210	13.5	-0.6	27.3	2.	6.1	27.	4.0	27.	85	6.0	132	210	20	16	5	.	.	5	2	.	15	.	3	.	.	.	.	
Epplingen	418	12.0	-1.1	26.5	4.	3.9	28.	3.1	28.	81	6.1	133	208	19	16	4	.	.	2	2	.	15	.	3	.	.	.	.	
Carlsheim	379	12.5	.	26.0	2.	5.7	28.	3.7	28.	85	6.4	153	19	16	6	.	.	6	3	.	18	.	2	.	.	.	109	57	
Schwarzbach Hall Feuershof	111	14.4	-0.8	30.0	2.	6.5	27.	3.4	27.	82	6.3	120	182	18	13	4	.	.	3	3	.	19	.	1	.	.	103	57	
Karlsbach (Wst)	116	14.5	-0.5	28.6	2.	7.1	28.	5.9	24.	88	6.9	158	226	17	15	6	.	.	12	.	.	22	.	5	.	.	.	.	
Forbach Kr Karlsbrue	344	12.1	-1.1	25.5	4.	5.2	27.	4.8	27.	85	5.8	160	195	18	18	8	.	.	4	2	.	14	.	2	.	.	115	66	
Morbach	443	12.1	-0.7	26.6	4.	5.9	28.	3.4	26.	82	6.3	96	141	19	16	2	.	.	2	.	.	16	.	3	.	.	.	.	
Ellwangen Jagst	492	11.6	-1.3	25.9	2.	4.4	27.	3.0	27.	83	6.0	151	180	19	17	7	.	.	7	2	.	19	.	2	.	.	.	.	
Goschwind Kr Ostalb	245	13.4	-0.2	28.9	2.	4.2	27.	2.0	27.	82	6.0	92	130	19	16	4	.	.	1	1	.	2	16	.	4	.	.	105	.
Pforzheim	245	13.4	-0.2	28.9	2.	4.2	27.	2.0	27.	82	6.0	92	130	19	16	4	.	.	1	1	.	2	16	.	4	.	.	.	.

Table 2 ctd.

Station	Höhe über NN in m	Lufttemperatur in °C					Luftfeuchtigkeit in %					Windrichtung und -geschwindigkeit					Niederschlag					Wetter					Sonnen- stunden						
		Mittel		Abweichung		höchste	Datum	tiefe	Datum	höchste	Datum	tiefe	Datum	höchste	Datum	tiefe	Datum	höchste	Datum	tiefe	Datum	höchste	Datum	tiefe	Datum	höchste	Datum	tiefe	Datum	höchste	Datum	tiefe	Datum
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29					
Stuttgart (Neumarktberg)	314	13.6	-1.2	27.3	2	6.3	27	2.6	27	78	6.2	62	100	18	12	1			4	1	1	19						117					
Bad Herrenalb	351	12.4	-0.7	27.2	2	5.4	26	3.0	28	85	6.6	106	166	21	16	10			13	2		19						73					
Dabiel	717	11.0	-1.8	23.5	2	4.0	24	3.0	27	86	6.4	217	195	21	18	10			4			19						93					
Schönberg, Kr. Calw	633	11.0	-1.7	25.5	2	3.5	24	2.5	27	86	6.3	158	184	20	16	8			5	1	1	20						101					
Schönberg, Gmund-Sträßdorf	415	12.7	-1.2	27.0	2	6.2	27	4.9	27	82	5.9	102	123	18	16	3			3	1	3	17						55					
Wildbad (Stadt)	417	12.0	-1.0	26.9	2	4.6	28	2.0	28	85	5.8	177	174	20	17	7			1	1	4	19											
Stuttgart (Wald)	216	13.7	-1.0	28.4	2	6.4	28	5.8	28	84	6.0	199	197	20	18	8			7	1	3	16						110					
Baden-Baden	740	10.9	-2.0	26.8	2	3.0	24	1.5	27	84	6.4	205	193	21	17	8			10			18											
Wildbad-Sommerberg	190	14.3	-1.3	29.4	2	7.5	28	4.8	28	73	6.0	226	202	18	17	9			1			18						88					
Rehlfeld	131	13.7	-0.8	29.2	2	6.3	28	5.5	28	86	6.2	186		19	17	8			3	1	2	18						93					
Freistett (Marwald)	606	10.8	-1.8	25.9	2	3.0	28	0.5	28	80	6.1	211	197	20	18	10			7	1	2	18						114					
Enns (Klosterle 1)	734	10.8	-1.8	25.9	2	3.2	27	1.9	27	85	6.1	133	148	19	18	4			15	1	1	17						66					
Stetten (Wald)	500	11.2	-1.6	25.7	2	2.0	27	1.2	27	87	6.2	109	154	21	17	3			7	1	1	17						101					
Hedenheim/Brenz	280	12.1	-1.8	29.0	2	3.0	28	2.5	28	77	6.0	87		19	14	3			4		1	18						86					
Nürtingen/Hebersingen	1122	8.0	-2.2	23.1	2	0.5	24	2.0	24	95	6.9	338	207	21	20	13			24	2	1	24						74					
Hornsgut	392	12.1	-1.3	28.0	2	5.0	25	3.0	25	87	5.4	126	183	19	17	3			2	5	17	2						133					
Naila	758	10.9	-1.7	28.2	2	4.0	24	3.0	24	81	6.4	115	128	19	17	2			6	1	3	16						121					
Lenningen-Schöplösch	747	10.9	-1.1	28.2	2	3.6	27	5.7	27	80	5.7	112	153	22	18	2			2			21						115					
Leichlingen	342	13.0	1.2	29.2	2	5.7	29	3.5	29	78	6.4	59		16	12	1			5	3	3	19						66					
Rottenburg	155	14.3	-0.8	29.4	2	7.9	28	2.5	28	83	6.4	155	176	21	18	5			1	1	2	19						130					
Offenburg	797	10.1	-1.8	29.4	2	3.0	24	2.3	28	87	6.3	241	208	21	18	8			3	3	2	19						75					
Freudenstadt (Wald)	185	13.8	-1.3	29.6	2	8.1	22	6.2	28	85	6.2	152	154	20	19	5			7	1	2	18						103					
Gengenbach	721	10.6	-1.2	28.6	2	2.9	27	1.8	27	80	6.1	122	156	20	16	3			4		2	16						96					
Manningen	522	12.1	-1.3	28.4	2	4.6	25	3.4	25	79	5.7	88	106	17	14	2			5	2	2	16						99					
Hechingen	522	12.0	-1.0	27.4	2	4.7	27	3.7	27	82	5.8	100	147	19	13	4			3	2	4	15						130					
Ulm (Wald)	158	14.6	-0.7	30.2	2	6.9	28	7.0	28	79	6.3	117	144	18	17	3			3	2	4	16						105					
Lauterbach	265	13.3	-1.1	29.2	2	7.8	26, 27	7.0	27	82	6.5	207	201	20	18	7			13	2	2	21						96					
Wollach	712	10.7	1.1	28.0	2	3.3	27	0.4	25	77	5.6	108	130	18	13	3			7	1	4	17						99					
Abstatt-Ehingen	442	12.8	28.9	2	6.6	25		6.1	22	84	5.9	162	169	18	16	8			9	3	4	17											
Ottoschwanen																																	
Wellendingen	201	13.5	30.0	2	5.5	28		3.9	28	63	6.2	149	177	18	16	8			1	2	4	19							110				
Emmendingen-Mundingen	904	9.8	23.0	2	3.4	24		1.0	25	88	6.1	274		20	18	11			3		4	18											
Schönach	683	10.6	-1.8	28.6	2	4.2	25	2.0	25	87	6.1	246	208	20	18	10			2		4	20							83				
Trüben	700	11.0	28.4	2	4.0	24, 25		2.0	25	83	5.6	228		13	17	10			1		7	17							110				
Freiburg (Kurpark)	767	10.5	-1.4	28.5	2	2.0	25	4.5	7, 25	86	5.9	104	116	19	15	2			4	1	3	16							99				
Königsfeld/Schw.	534	12.4	-0.7	28.9	2	5.8	27	4.0	24	82	5.8	154	208	17	16	7			8		4	19							122				
Biberach/Riß	1005	9.3	23.7	2	2.0	24		1.9	25	85	6.0	277		22	17	12			13	1	3	18							65				
Schönwald/Schw.	973	9.3	-1.1	28.3	2	2.4	24	4.0	27	88	5.9	112	144	19	14	3			1	1	3	12							112				
Kloppeneck (Wald)	423	14.2	-0.7	30.2	2	5.9	28	4.0	28	80	5.6	109	151	18	14	5			3	2	4	16							84				
Oberotter (1)	223	14.2	-0.7	30.2	2	5.9	28	4.0	28	80	5.6	109	151	18	14	5			3	2	4	16											
Seematingen	650	11.3	-1.5	28.4	2	2.5	25	5.0	28	81	6.0	91	126	19	14	2			9		3	19							111				
Villingen	284	12.9	-1.3	29.0	2	6.4	28	5.0	28	86	5.8	126	150	17	16	6			2		4	16							104				
Lienetal bei Illingen	698	10.7	-1.1	27.3	2	2.4	25	4.0	28	77	6.1	163	172	19	18	6			4	1	4	14											
Villingen	255	14.4	-1.2	30.2	2	6.7	28	3.0	25	77	6.1	86	126	17	15	3			2	2	3	19							111				
Freiburg i. Br.-Herdern	718	10.8	-1.0	28.0	2	7.5	28	6.5	28	75	6.1	166	193	18	16	6			15		3	19							104				
Bad Dürrenheim	269	14.7	-0.9	30.6	2	3.0	24, 26	3.0	24, 26	86	6.1	233		22	19	11			1		3	19											
Freiburg i. Br. (Wald)	900	10.1	-2.4	24.5	2	7.4	29	6.8	29	81	6.1	116	163	19	16	4			1		3	17							120				
Sankt Margen	215	14.5	-0.4	31.0	2	4.4	29	3.2	29	86	6.3	185	234	18	17	7			7	1	2	21							70				
Mengen i. Br.	571	11.9	-1.1	26.1	2	4.4	29	0.3	25	85	6.1	118	176	19	15	3			8	2	4	19							117				
Donauwuechingen (1)	677	11.0	-1.3	25.9	2	3.0	25	0.6	25	86	6.1	173	170	21	19	7			7	1	3	20							107				
Neustadt Schw. (1)	835	9.6	-1.7	24.2	2	2.4	29	0.6	25	86	6.1																						

Table 2 ctd.

Station	Höhe über NN m	Lufttemperatur in °C										Luftfeuchtigkeit %	Zahl der Tage										Sonnen- schein- dauer in %																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Abweichung °					Datum						Niederschlag					Gewitter						Frosttage	Sommer- tage	Eisige	in Std	in %																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		Mittel	3	4	5	6	7	8	9	10	tiefe am Erde boden		Datum	tiefe in mm	in %	0	1	2	3	4	5	6							7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Table 2 ctd. (air temperature in °C)

September 1984

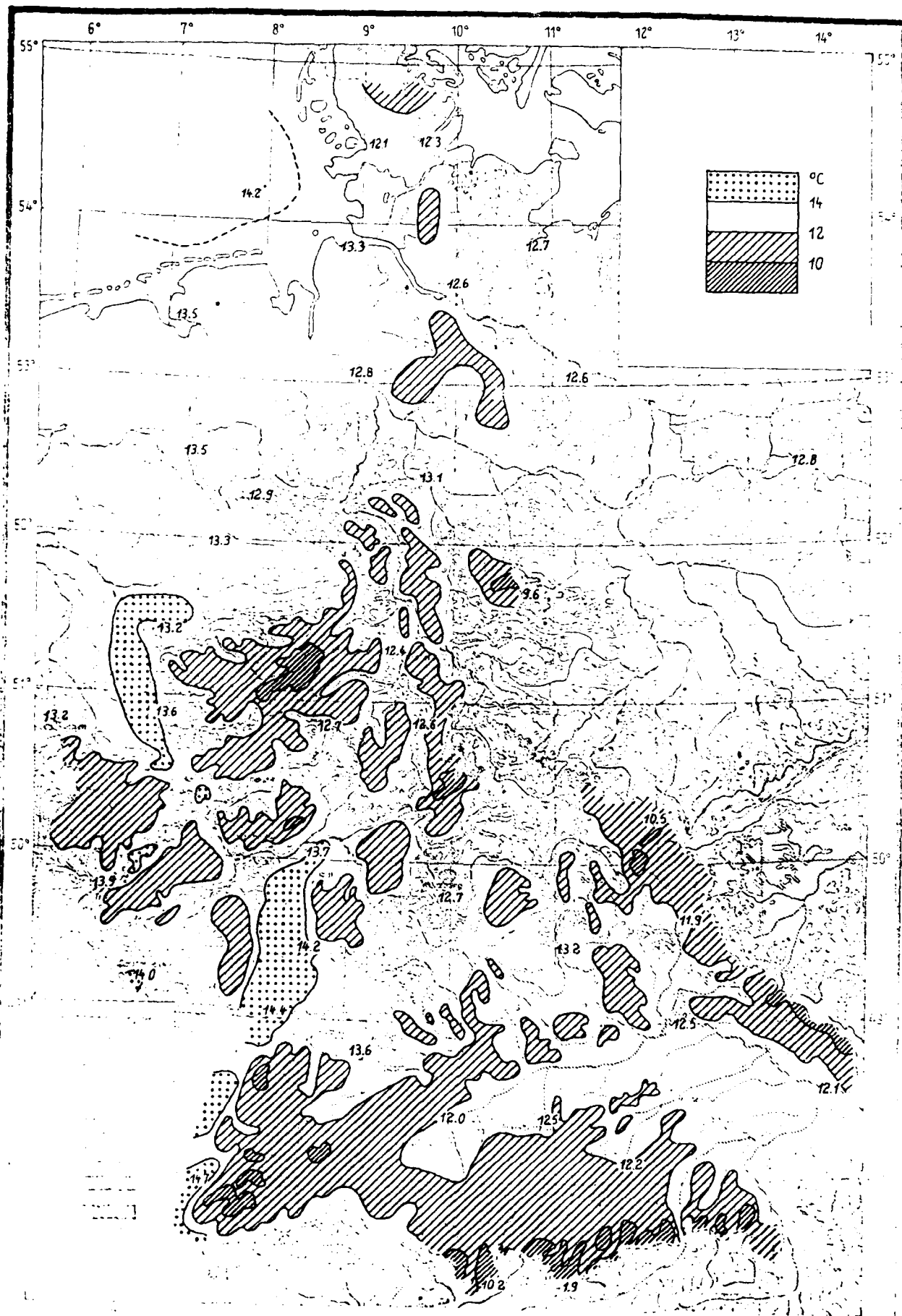


Table 2 ctd. (precipitation in mm)

September 1984

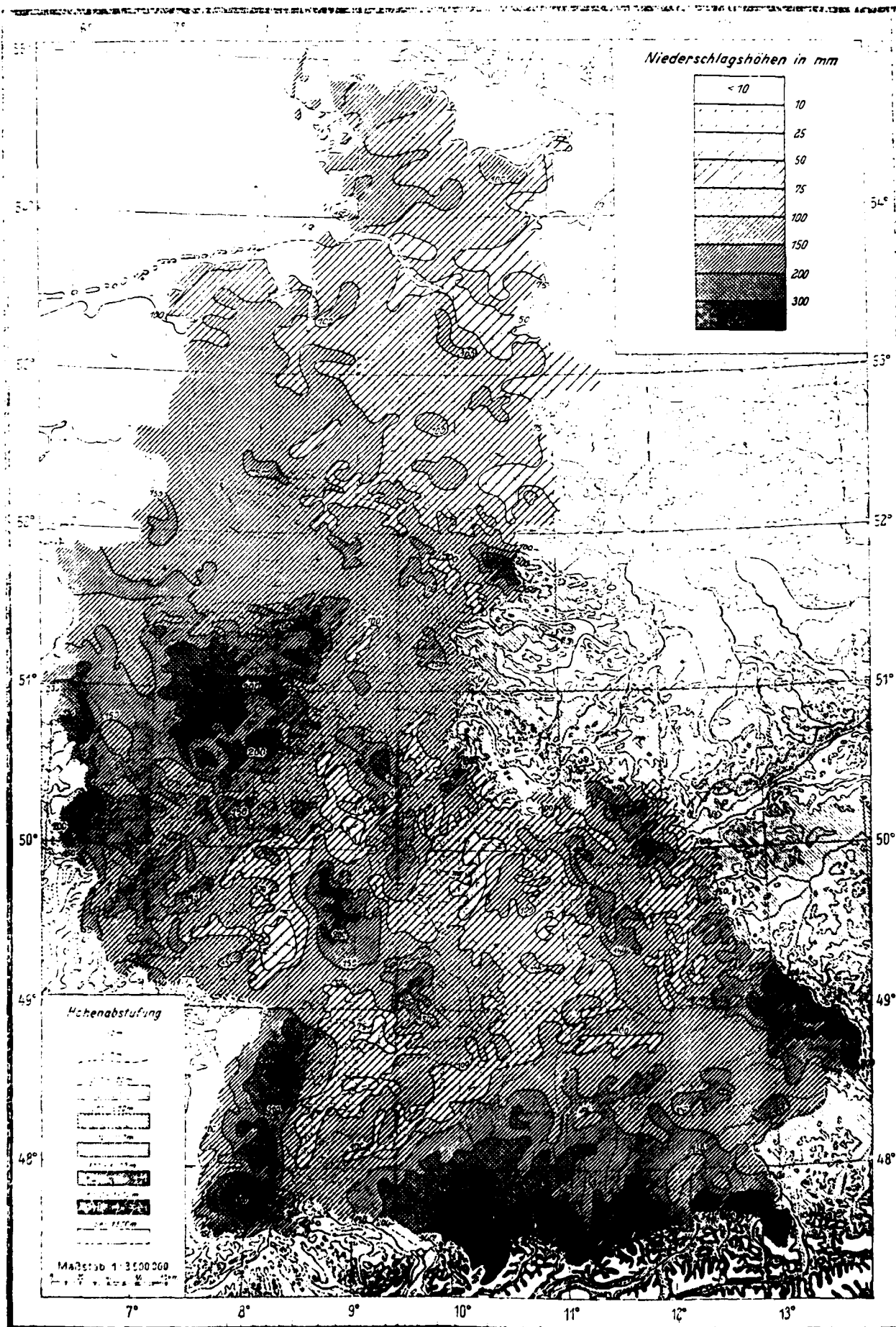


Table 2 ctd. (precipitation in % of 1931 - 1960 mean values)

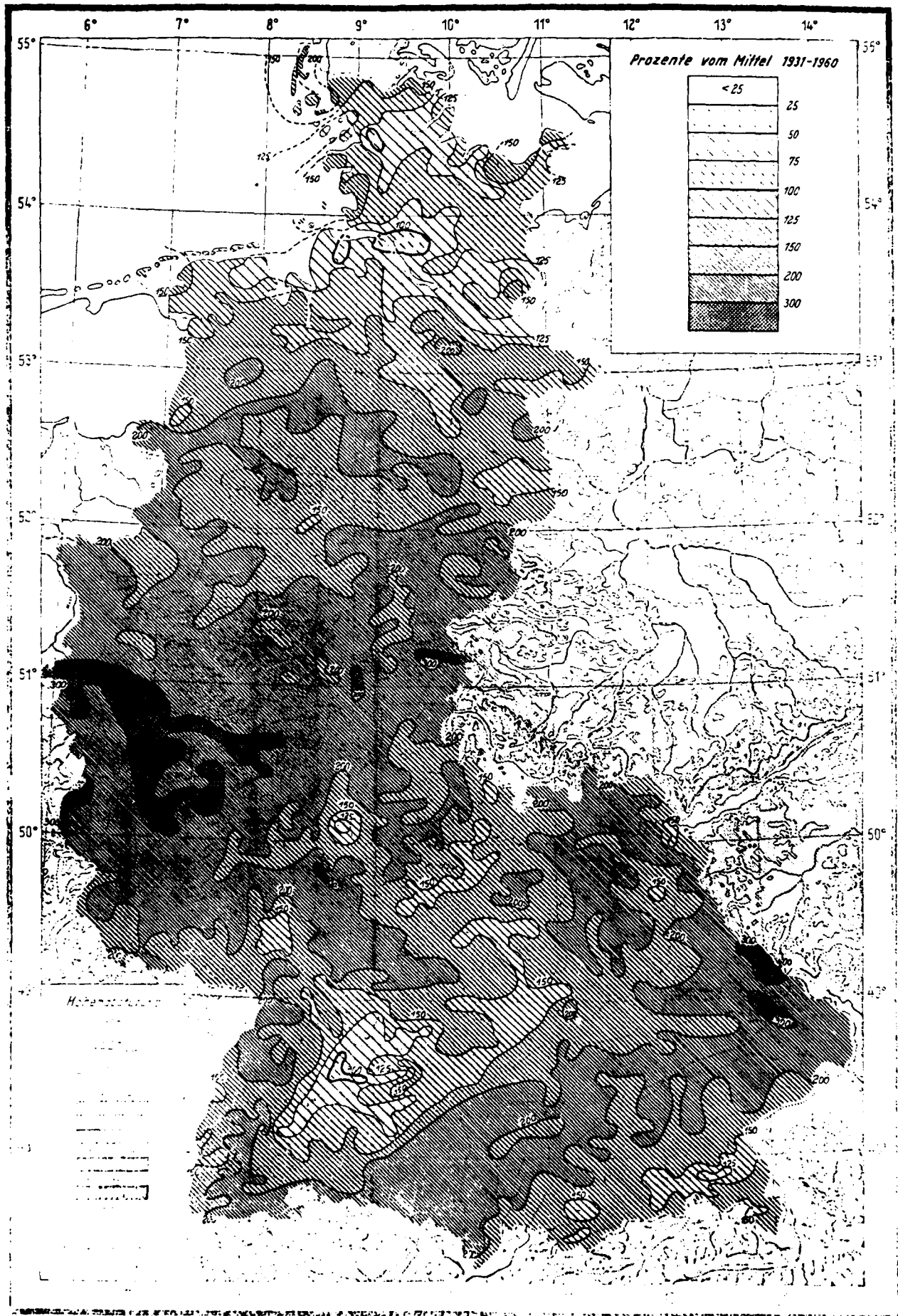


Table 2 ctd. (air temperature in % of 1931 - 1960 mean values)

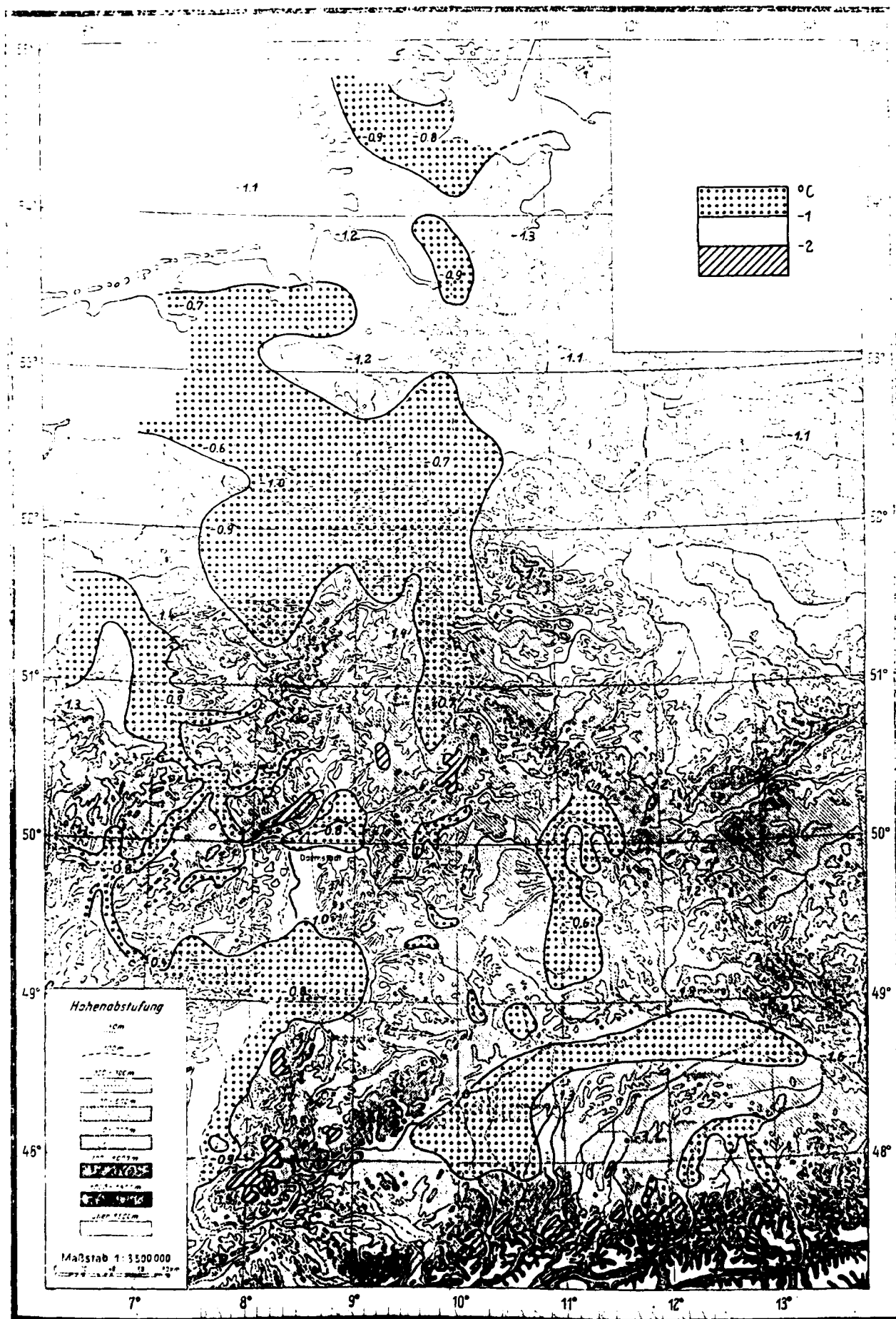


Table 3 Meteorological/Climatological Data for the Areas of Investigation (October 1984)

Oktober 1984

Monatswerte

Station	Höhe über NN m	Lufttemperatur in °C						Luftfeuchtigkeit %	Windrichtung °	Windgeschwindigkeit m/s	Windstärke B	Niederschlag			Schnee			Zahl der Tage				Sonnen- schein- dauer in Std	in m/s	in °)					
		Mittel	Abweichung	höchste	Datum	tiefe	Datum					in die am End boten	Datum	in mm	in mm	in mm	fall mm	fall mm	fall mm	Nebel	Gewitter				heitere	trübe	schneefreie Tage	Frosttage	Eisstage
Schwesweg-Holstein	26	11.9	1.9	15.0	10.	7.6	27.	5.3	16.	84	5.8	114	150	24	17	5	1	1	1	1	11	1	1	1	83	78			
Leck (BW)	7	10.9	2.1	15.9	4.	3.5	16.	0.8	28.	87	5.4	158	141	25	18	7	1	1	1	1	8	1	1	1	72	78			
Flensburg (S-Schalenhaus)	41	10.6	1.9	16.0	30.	2.7	28.	0.8	28.	90	6.1	141	178	21	17	6	1	1	1	1	14	1	1	1	68	69			
Wyk-Föhr	1	11.5	1.6	16.2	11.	5.9	15.	-1.1	28.	86	6.1	124	165	24	16	4	1	1	1	1	15	1	1	1	75	75			
Stoltebüll (I)	28	10.6	1.6	16.8	30.	3.0	28.	-2.4	28.	87	5.8	144	206	21	17	6	1	1	1	1	16	1	1	1	87	86			
Schwesweg (WA)	43	10.9	2.1	17.0	30.	3.2	28.	2.0	28.	87	6.3	135	163	26	17	4	1	1	1	1	14	1	1	1	102	102			
Westermarschdorf-Feldmarn (I)	1	11.6	2.0	17.0	30.	3.4	28.	5.3	28.	84	5.4	76	149	22	15	3	1	1	1	1	2	1	1	1	80	80			
Schwesweg (BW)	28	10.7	2.0	15.7	30.	2.0	28.	-0.2	28.	90	5.9	134	163	24	17	5	1	1	1	1	13	1	1	1	98	93			
Kiel-Kronshagen (Wst)	17	10.9	1.8	17.7	30.	2.2	28.	1.0	28.	87	5.6	107	155	24	15	2	1	1	1	1	12	1	1	1	100	100			
Holtenau (I)	10	11.1	1.7	17.2	30.	2.5	28.	1.0	28.	88	4.9	85	144	25	15	2	1	1	1	1	6	1	1	1	98	93			
Erdde (I)	18	11.1	2.3	17.4	30.	2.7	28.	1.3	28.	87	5.8	122	144	22	16	5	1	1	1	1	12	1	1	1	100	100			
Sankt Peter-Ording	4	11.7	1.9	16.5	4.	5.0	16.	1.0	16.	85	6.2	147	179	21	18	5	1	1	1	1	16	1	1	1	78	78			
Rendsburg	8	10.8	2.1	17.4	30.	0.8	28.	-2.4	28.	86	6.2	111	144	22	17	4	1	1	1	1	14	1	1	1	84	83			
Lensahn	14	11.0	2.0	17.5	30.	2.0	28.	-2.5	28.	87	5.4	98	161	21	16	5	1	1	1	1	11	1	1	1	84	83			
Heide-Holstein	12	11.2	2.2	17.5	4.	2.3	28.	1.0	28.	85	5.8	130	155	19	18	4	1	1	1	1	10	1	1	1	84	83			
Helgoland (Wst)	4	12.9	1.7	15.7	9.	8.2	30.	5.9	16.	84	6.0	99	121	21	14	4	1	1	1	1	13	1	1	1	84	83			
Phön (See I)	24	11.0	1.6	16.5	30.	3.9	28.	2.0	28.	88	5.4	92	146	27	17	2	1	1	1	1	10	1	1	1	84	83			
Eutin	50	10.8	2.0	17.2	30.	1.7	28.	-0.7	28.	85	5.5	103	158	25	18	4	1	1	1	1	8	1	1	1	84	83			
Holtenau (Wst)	80	10.5	1.7	16.5	30.	2.2	28.	0.0	28.	87	5.9	144	182	23	16	5	1	1	1	1	13	1	1	1	84	83			
Neumünster	21	10.9	2.1	17.5	30.	1.2	28.	-2.5	28.	85	5.3	134	189	23	19	6	1	1	1	1	18	1	1	1	100	100			
Heide-Kr. Dithmarschen (I)	2	11.1	1.9	17.2	30.	3.9	28.	1.7	28.	84	5.1	124	163	23	18	3	1	1	1	1	7	1	1	1	115	115			
Travemünde (I)	9	11.0	1.5	16.5	30.	2.1	28.	2.0	28.	85	5.0	72	147	19	16	1	1	1	1	1	18	1	1	1	100	100			
Wahlstedt	45	10.8	2.0	18.0	30.	1.3	28.	-1.8	28.	87	6.2	121	167	26	20	5	1	1	1	1	12	1	1	1	102	102			
Lubeck (Wst)	8	11.3	1.8	17.7	3.	2.0	28.	0.7	28.	80	5.7	76	129	24	14	1	1	1	1	1	12	1	1	1	102	102			
Brandenburger-Kirchen (I)	9	10.8	2.2	18.0	30.	0.6	28.	-1.4	28.	88	5.9	107	163	20	19	2	1	1	1	1	14	1	1	1	102	102			
Glückstadt (I)	2	11.2	1.8	17.6	30.	4.4	28.	3.0	16.28.	82	5.8	104	163	26	18	3	1	1	1	1	13	1	1	1	102	102			
Quicksborn (EMC), Kr. Pinneberg	13	11.0	2.1	17.8	30.	-0.5	28.	-3.0	28.	86	5.6	111	172	23	17	4	1	1	1	1	13	1	1	1	102	102			
Ahlensburg-Wulfsdorf (AMBF)	46	10.7	2.0	17.2	30.	1.8	28.	-1.7	28.	90	5.6	110	172	23	17	3	1	1	1	1	9	1	1	1	102	102			
Mölin (I)	27	10.6	1.8	17.4	10.	-1.1	28.	-2.5	28.	87	5.5	85	133	23	16	1	1	1	1	1	9	1	1	1	102	102			
Hamburg-Fuhlsbüttel (Flugh.)	13	11.1	2.0	17.9	30.	1.5	28.	-3.1	28.	86	5.3	116	197	23	15	3	1	1	1	1	9	1	1	1	108	108			
Bremerhaven (Wewa)	7	11.4	1.7	17.9	30.	3.4	28.	1.4	28.	88	5.7	76	121	21	14	1	1	1	1	1	12	1	1	1	99	99			
Bremen (Flugh.)	4	10.7	1.8	18.7	30.	-0.5	28.	-2.6	28.	87	5.3	90	155	19	18	2	1	1	1	1	10	1	1	1	106	102			
Niedersachsen	5	11.5	1.5	17.8	30.	3.0	28.	0.5	28.	87	6.0	109	149	21	16	2	1	1	1	1	13	1	1	1	104	103			
Cuxhaven (Wst)	3	11.6	1.2	17.1	30.	4.1	28.	2.8	28.	89	5.8	93	121	19	17	3	1	1	1	1	13	1	1	1	104	103			
Wangerooge	5	11.7	1.3	16.8	30.	3.2	28.	2.0	28.	86	6.1	95	119	22	15	4	1	1	1	1	15	1	1	1	93	89			
Langeoog	11	12.0	1.4	16.0	30.	4.4	28.	3.2	28.	86	5.8	77	99	22	14	2	1	1	1	1	11	1	1	1	93	89			
Norderney (Wst)	27	10.7	1.5	18.0	30.	2.2	28.	0.4	28.	88	5.5	107	157	22	15	2	1	1	1	1	12	1	1	1	93	89			
Breddekes	1	11.2	1.6	18.4	30.	1.6	28.	-1.4	28.	87	5.1	103	151	17	14	5	1	1	1	1	12	1	1	1	92	92			
Wilhelmshaven	7	11.0	1.6	18.1	30.	0.3	28.	-1.4	28.	84	5.3	93	124	24	12	4	1	1	1	1	10	1	1	1	110	110			
Jever (BW)	1	10.5	1.8	17.5	30.	-1.3	28.	-1.7	28.	87	5.4	87	150	21	17	2	1	1	1	1	9	1	1	1	110	110			
Jork	1	10.5	1.8	17.5	30.	-1.3	28.	-1.7	28.	87	5.4	87	150	21	17	2	1	1	1	1	9	1	1	1	110	110			
Bremervörde	5	10.6	1.7	17.6	30.	0.6	28.	-0.5	28.	85	5.3	100	149	20	18	1	1	1	1	1	9	1	1	1	110	110			
Bremerhaven	4	10.6	1.4	18.0	30.	0.6	28.	-2.5	28.	90	5.6	105	138	20	13	6	1	1	1	1	17	1	1	1	110	110			
Emden-Neserland (Wst)	5	11.6	1.8	16.7	30.	4.1	28.	2.5	28.	85	5.9	92	133	22	12	5	1	1	1	1	14	1	1	1	110	110			

1) Sonnenscheindauer nicht direkt am Standort der Station registriert. *) vom Mittel 1931-1960. **) vom Mittel 1951-1960
Abkürzungen: WA = Wetteramt, Wewa = Wetteramt, Wst = Wetterstation, AMBF = Agrarmeteorologische Beratungs- und
Forschungsstelle, BW = Bundeswehr, Khd = Kilmalstation, Nst = Niederschlagsstation

Table 3 ctd.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Bake (Unterweser)		5	11.1	1.9	18.2	30.	3.2	28.	-2.0	28.	88	6.1	101	166	19	17	2				7	2	1	17					100	
Buchholz (n.d. Nordheide)		77	10.1		16.5	30.	-0.7	28.	-2.5	27.	91	5.6	90		21	19	1				3	1	2	11					94	
Leuchthaus		6	10.5	1.7	16.9	30.	-2.1	28.	-3.5	28.	86	6.1	77	122	19	15	1				3	1	1	14						
Leuchthaus		11	11.3	2.1	17.6	1.	-0.1	28.	-1.9	28.	81	5.3	62	124	23	14	1				4	2	1	9					111	
Oldenburg (I)		5	10.9	1.4	19.2	30.	0.0	28.	-2.5	28.	87	5.7	81	147	22	15	2				4	2	1	13					99	
Oldenburg (Wunmet)		24	10.1	1.2	17.9	30.	-0.4	28.	-1.2	28.	77	5.3	83	138	20	18	1				4	2	1	11					86	
Freysing (Wunmet)		8	10.9	1.8	18.1	30.	0.3	28.	-1.7	28.	87	5.7	87	132	19	16	1				6	2	1	13					108	
Freysing (Wunmet)		77	10.5	1.7	18.2	30.	-1.5	28.	-3.0	28.	87	5.3	96	157	20	18	2				5	2	1	13					106	
Sollau (W-F)		6	11.0	1.6	19.3	30.	-2.4	28.	-3.7	28.	84	5.5	110		21	17	3				5	2	1	13						
Dapen		45	10.9	2.1	18.3	25.	-2.0	28.	-3.0	28.	80	5.0	55	110	20	15	1				5	2	1	8					103	
Leiden		17	11.0	2.2	18.0	1.	-0.6	28.	-1.9	28.	86	5.9	44	96	21	12					5	1	1	13					112	
Leiden (W-F)		48	10.8		17.9	30.	0.7	28.	-2.8	28.	85	5.4	100		23	17	2				5	2	1	12					104	
Reinisch (Wunmet)		53	10.9		17.9	30.	2.5	28.	-1.0	28.	87	5.7	67		22	16	1				1	1	1	13						
Reinisch (Wunmet)		98	10.3	1.6	17.0	17.	-1.4	28.	-2.0	28.	88	5.6	78	134	21	15	2				3	1	1	12	1	1	1	1	86	
Leiden		36	11.1	1.8	20.0	30.	1.5	28.	-1.0	28.	86	6.0	126	200	23	18	5				3	1	1	15						
Leiden		84	10.3	1.8	17.0	17.	0.0	28.	-3.9	28.	87	5.4	73	135	23	15	2				3	1	1	10					93	
Leiden		26	10.8	1.4	19.2	30.	-0.4	28.	-1.3	28.	86	5.5	87	161	21	17	2				3	1	1	13					90	
Leiden		21	11.4	1.6	18.7	30.	2.6	28.	-2.0	28.	84	5.5	107	165	20	16	4				4	2	1	11					92	
Leiden		48	11.0	2.0	19.0	30.	1.3	28.	-1.5	28.	85	5.8	108	171	18	15	2				7	1	1	16					107	
Leiden		53	11.2	2.1	18.1	17.	0.5	28.	-1.9	28.	85	5.5	78	131	21	15	2				7	1	1	11					101	
Leiden		24	11.3	1.6	19.5	30.	1.5	28.	-1.8	28.	83	5.8	104	168	19	14	5				3	1	1	14						
Leiden		74	11.0		18.1	1.	1.5	28.	-0.6	28.	87	4.7	57	100	22	15	1				4	1	1	8					98	
Leiden		81	11.3	2.1	19.1	1.	2.0	28.	-0.6	28.	85	5.6	66	120	21	15	1				4	1	1	14					86	
Leiden		95	11.1	1.7	19.6	30.	0.6	28.	-2.8	28.	83	5.6	116	187	22	17	4				4	1	1	13					92	
Leiden		395	9.1		17.4	30.	2.2	28.	-0.7	28.	92	5.7	99	130	21	16	3				14	1	1	13					90	
Leiden		144	10.7	1.7	19.6	1.	0.9	28.	-0.9	28.	82	5.6	46	82	15	10	2				2	2	1	12						
Leiden		100	11.1	1.9	17.9	1.30.	-0.5	28.	-2.6	28.	84	5.2	77	131	19	16	2				2	2	1	12						
Leiden		64	11.5		18.4	1.17.	1.6	28.	-1.0	28.	85	5.3	69	121	19	15	2				5	1	1	9						
Leiden		130	11.3	1.9	17.7	1.	-0.6	28.	-2.6	28.	81	5.5	69	121	19	15	2				1	1	1	10						
Leiden		260	11.0	2.1	20.7	1.	0.5	28.	0.0	28.	78	5.1	66	90	20	13	1				13		1	10						
Leiden		553	8.6	1.6	17.1	30.	0.4	28.	-2.0	28.	89	5.4	118	109	20	19	3				5		2	13					75	
Leiden		504	8.9		17.5	1.	-2.5	28.	-5.5	28.	82	5.4	73	109	19	14	2				4		2	13					87	
Leiden		123	11.2	1.6	18.8	1.	0.6	28.	-1.0	28.	82	5.4	54	95	20	15	2				4		2	17					86	
Leiden		105	11.2	2.2	19.4	1.	0.5	28.	-1.0	28.	89	5.7	110	120	20	17	2				5		3	16					78	
Leiden		300	9.4		17.8	1.	-0.8	28.	-1.3	28.	90	6.1	149	126	20	18	4				7		1	17					71	
Leiden		563	8.2	1.3	15.8	1.	-3.0	28.	-3.0	28.	91	5.7	144	127	21	19	4				7		1	16					80	
Leiden		495	8.5		17.5	1.	-3.0	28.	-3.0	28.	91	5.7	144	127	21	19	4				7		1	16					80	
Leiden		440	9.1		16.5	1.	1.5	27.28.	-7.3	28.	88	5.9	100	112	20	15	3				5		1	18					78	
Leiden		607	8.1	1.5	17.0	30.	-0.8	28.	-7.3	28.	87	5.9	136	139	21	19	3				5		1	18					86	
Leiden		317	9.5		19.2	1.	-0.3	28.	-0.3	28.	87	5.8	136	143	21	17	4				1		1	16					89	
Leiden		175	10.9	2.0	19.2	1.	-0.6	28.	-2.6	28.	82	5.6	57	114	19	12	2				2		1	13					88	
Leiden		51	10.4	1.5	21.0	1.	0.0	28.	-1.2	28.	85	5.3	48	102	17	9	2				5		1	8					102	
Leiden		98	11.4	1.8	19.2	17.	0.7	28.	-0.6	28.	83	5.8	100	151	15	15	3				5		1	1					83	
Leiden		62	11.3	1.6	19.2	30.	0.8	28.	-1.5	28.	84	5.9	101	174	22	16	3				3		1	13					80	
Leiden		72	11.0		18.4	30.	0.0	28.	-0.7	28.	87	5.7	88	144	22	15	2				4		1	2	14					85
Leiden		21	11.3	1.6	19.2	30.	1.8	28.	-1.0	28.	87	6.0	102	157	19	15	3				6		1	14					94	
Leiden		157	11.2	1.6	19.0	30.	-0.2	28.	-0.2	28.	84	6.0	100	131	21	15	2				6		1	14					73	
Leiden		45	11.6	1.3	18.0	30.	-1.4	28.	0.5	28.	87	6.2	109	168	21	15	3				2		1	17					82	
Leiden		92	11.7		19.8	30.	-1.1	28.	0.0	28.	83	5.5	75	19	15	1				2		1	14						84	
Leiden		240	10.3	1.9	18.8	1.	-1.9	28.	-2.1	28.	85	6.0	74	130	21	16	1				3		1	14					98	
Leiden		154	11.5	1.5	19.4	30.	5.2	28.	-2.2	28.	84	5.8	164	219	21	16	5				10		2	15					100	
Leiden		100	11.8		21.5	30.	-1.9	28.	-1.9	28.	84	5.7	107	18	16	4				1		1	1	15					86	
Leiden		218	10.4	1.8	19.8	30.	-2.0	28.	-2.5	28.	84	5.7	117	141	24	19	4				1		1	16						

Nordrhein-Westfalen

Bad Salzig (W-F)

Münster (W-F)

Gut (W-F)

Bochum (W-F)

Bochum (W-F)

Klee

Appelhof (W-F)

Bentrich (W-F)

Lützen (W-F)

Hagen (W-F)

Arensberg

Table 3 ctd.

Station	Höhe über NN m	Lufttemperatur in °C					Windrichtung in Grad	Windgeschwindigkeit in m/s	Zeit in Tag										Gesamt Windst. in m/s									
		Mittel	Abweichung	höchste	tiefste	Datum			Nebel	Gewitter	Regen	Tage	Sommerfrost	Frosttag	Eisfrost													
						0-6										6-12	12-18	18-24	24-20									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Hessen																												
Lonsdorf	39	11.6	1.5	18.0	16.18.	3.1 26.	2.5 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Wuppertal-Buchenholz	128	11.4	1.9	19.4	16.	0.2 28.	0.0 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Ludenscheid	444	9.7	1.4	18.5	30.	3.7 22.	1.8 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Düsseldorf (Südfröhen)	337	12.0	1.6	18.7	18.	3.0 28.	-0.5 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Kaiser Asten (Wst)	839	7.0	1.5	16.2	31.	0.4 22.	-0.3 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Köln (Bot. Garten)	45	11.8	1.3	18.0	18.	2.6 28.	-0.6 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Köln-Wahn (Flugh.)	73	11.7	1.9	18.4	18.	0.7 28.	-0.6 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Sege	263	10.4	1.9	17.0	1.18.	-1.2 28.	-1.1 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Aachen (Wst)	202	11.7	1.6	19.3	30.	4.5 28.	1.2 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Euskirchen	176	11.8	2.0	18.4	17.	1.3 28.	0.3 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Rodgen	440	10.0	1.7	18.5	30.	2.8 27.	-0.5 27.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Sistig	505	9.6		18.0	30.	1.0 28.	-1.5 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Arden																												
Witzenhausen	580	9.0	1.9	20.0	31.	-1.5 28.	-3.1 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Wittgen/Upland	231	10.2	1.2	19.2	1.	-0.9 28.	-2.9 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Kassel (Wst)																												
Waldeck																												
Eschwege																												
Melungen																												
Frankenberg/Edel																												
Biedenkopf I)	290	9.7	1.5	18.4	15.	-1.7 28.	-1.9 22.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Neukirchen-Hauptschwenda I)	500	9.2	2.1	17.5	1.	1.5 28.	-0.5 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Bad Hersfeld (Wst)	212	10.5	2.2	21.6	1.	0.4 28.	-0.2 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Marburg I)	195	10.7	1.7	18.9	1.	-0.5 28.	-2.4 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Dillenburg	262	9.8	1.2	18.1	1.	-0.4 28.	-2.5 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Wartenberg-Angersbach	276	9.8	1.7	20.2	1.	0.4 28.	-1.9 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Gießen-Liebigshöhe (Wst)	186	10.7	1.7	18.1	1.	0.4 28.	-2.7 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Fulda	255	10.1	1.8	20.5	1.	-0.2 28.	-0.9 31.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Schöten	315	10.0	1.1	19.4	1.	0.4 28.	-3.6 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Wasserkuppe (Wst)	921	6.9	1.6	15.0	1.	2.7 28.31.	-1.2 31.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Grehenham-Herchenham	608	8.4	1.4	17.2	1.	2.7 28.31.	-1.2 31.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Lunburg-Lahn	118	11.2	2.3	19.9	10.	1.1 22.28.	0.3 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Bad Nauheim	160	10.4	1.4	19.2	1.	-0.4 28.	-2.0 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Mittelgrundau	155	10.8		21.9	1.	0.6 28.	-0.1 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Kf. Feldberg (K. Wst)	805	7.4	1.3	15.0	31.	2.5 21.22.	0.0 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Frankfurt a. M. (Stadt)																												
Wiesbaden (Stadt)	145	11.0	1.6	19.2	18.	2.0 28.	-0.6 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Frankfurt a. M. (Flugh.)	112	11.1	1.9	20.2	1.	0.7 28.	-0.8 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Griesheim (AMH)	118	11.2	1.5	20.0	1.	2.5 28.	-0.8 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Darmstadt (Wst)	108	11.2	1.0	21.1	1.	1.6 28.	-0.7 17.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Lindels-Winterkasten	445	10.0		18.8	1.	2.9 28.	0.6 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Beerfelden	450	9.8	1.4	18.4	1.	1.8 29.31.	-0.7 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Saarland																												
Weiskirchen/Saar	368	10.2		17.4	18.	3.6 7.	0.7 31.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Nennig	153	11.4	1.8	19.9	18.	2.5 28.31.	0.0 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Letersweiler	420	10.0		17.9	14.18.	3.0 7.29.	1.0 22.28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Tholey (Wst)	396	10.0		17.2	18.	2.7 28.	0.4 31.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Illertsdorf	223	10.3	1.6	18.9	18.	0.6 31.	-1.0 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Neunkirchen-Wellesweiler	236	10.5		18.2	18.	0.5 28.	-0.3 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Homburg/Saar	235	10.3	1.5	19.0	18.	0.0 31.	-1.4 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Berms (Wst)	363	10.2	1.2	17.8	18.	2.3 31.	1.3 31.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Völklingen (KW-Fenne)	187	11.2		19.5	18.	1.3 31.	1.3 31.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Saarbrücken St. Johann	193	11.0	1.6	19.6	18.	0.0 31.	-1.2 28.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Saarbrücken-Ensdorf (Flugh.)	323	10.2	1.2	17.6	18.	2.0 31.	-1.6 31.	8.6 5.5	106 196	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

Table 3 ctd.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Rheinland-Pfalz																														
Baden-Württemberg (b) (d)	590	17.3	1.4	14.6	16.		0.6	28.	-0.6	28.	88	5.7	84	102	19	14	2				4	1	2	13						
Baden-Württemberg (b) (d)	547	8.8	1.1	15.9	16.		2.1	28.	-2.6	28.	89	6.0	96	110	23	16	3				18	1	3	21					88	71
Baden-Württemberg (b) (d)	111	12.2	2.4	20.5	10.		2.0	28.31.	-1.0	31.	86	5.6	40	88	12	11	1				7			8					87	
Baden-Württemberg (b) (d)	124	11.4		19.3	10.		2.2	28.	-0.5	28.	84	5.8	41	76	17	11	1				7			11						
Baden-Württemberg (b) (d)	250	10.5		19.0	10.		-1.0	28.	-3.5	28.	84	6.0	76	104	18	15	1				7	1	1	14						
Baden-Württemberg (b) (d)	72	12.1	2.1	20.2	10.		3.5	28.	3.2	28.	85	6.5	59	134	15	13	1							16						
Baden-Württemberg (b) (d)	527	8.9	1.6	15.3	31.		2.6	28.	0.8	28.	85	6.0	75	127	20	14	3				17	1	2	17						88
Baden-Württemberg (b) (d)	270	11.0	2.0	18.8	10.		0.0	28.	-1.2	28.	83	5.2	33	77	15	13	2				4		3	14						
Baden-Württemberg (b) (d)	657	8.4	1.4	15.3	30.		1.2	27.	-1.6	28.	85	6.8	71	131	14	13	2				7	1	21							
Baden-Württemberg (b) (d)	530	8.7	1.2	15.3	30.		1.6	28.	-0.1	28.	90	6.5	127	174	21	15	3				22	1	3	20						84
Baden-Württemberg (b) (d)	403	9.2	1.2	16.9	18.30.		-0.1	28.	-2.2	28.	88	5.7	89	139	17	15	3				13	1	2	14						63
Baden-Württemberg (b) (d)	400	9.9	1.7	17.0	18.		-1.0	28.	-1.2	28.	91	6.3	77	140	17	13	2				13	1	1	18						
Baden-Württemberg (b) (d)	440	9.8	1.6	16.2	18.		-1.0	31.	-1.0	31.	87	5.8	57	106	21	17	1				7	1	1	13						
Baden-Württemberg (b) (d)	125	11.3	1.6	19.5	1.		1.5	28.	0.0	28.	81	5.4	33	79	17	11	1				7	1	1	13						
Baden-Württemberg (b) (d)	120	11.5	1.6	19.6	18.		3.8	28.	-1.6	28.	86	5.1	65	130	17	12	2				7	1	1	14						60
Baden-Württemberg (b) (d)	155	11.1	1.6	19.5	1.		1.0	28.	-1.6	28.	82	6.2	23	62	21	17	1				4		1	14						81
Baden-Württemberg (b) (d)	345	9.6	2.0	17.5	18.		0.1	31.	-0.4	31.	86	5.8	52	102	17	12	1				9	1	1	12						95
Baden-Württemberg (b) (d)	480	9.8	1.2	18.0	30.		3.6	18.	-1.4	31.	86	5.9	69	113	18	12	2				5	1	3	15						72
Baden-Württemberg (b) (d)	144	11.3	1.6	19.7	18.		-2.9	28.	0.8	28.	85	6.1	94	171	16	13	3				6	1	1	16						41
Baden-Württemberg (b) (d)	265	10.5	1.1	18.9	18.		2.0	28.	1.4	28.	88	6.2	101	187	20	13	4				13	1	1	18						64
Baden-Württemberg (b) (d)	166	11.1	1.9	19.7	1.		0.0	28.	-2.0	28.	87	5.7	25	71	17	8	1				10		1	12						76
Baden-Württemberg (b) (d)	395	9.1	1.3	16.6	18.		-1.6	31.	-2.6	31.	87	5.5	107	151	16	15	5				5	1	3	12						
Baden-Württemberg (b) (d)	485	10.0		18.0	1.		4.4	29.	1.5	7.	83	5.1	36	72	14	11	1				6		5	15						90
Baden-Württemberg (b) (d)	248	10.9	1.3	20.1	1.		0.0	31.	-0.2	31.	84	5.4	32	59	15	9	1				7		18							94
Baden-Württemberg (b) (d)	553	9.7	1.5	17.4	1.		3.8	30.	1.5	31.	84	5.3	30	15	8	1					12		2	10						122
Baden-Württemberg (b) (d)	145	11.1	1.5	20.0	19.		0.8	28.	-1.9	28.	85	5.8	23	17	7	1					5		12							91
Baden-Württemberg (b) (d)	280	9.4		18.8	1.		-1.4	31.	-2.4	31.	88	6.1	52	80	17	14	1				17		1	17						
Baden-Württemberg (b) (d)	180	10.7	1.0	20.7	1.		2.0	30.	-1.5	30.	90	5.1	60	105	12	9	3				5			4						93
Baden-Württemberg																														
Walden-Elbe	140	11.1	2.3	21.4	1.		2.0	22.	2.0	22.	80	4.8	34	61	17	8	1				15			3						
Walden-Elbe	199	10.7		23.2	1.		0.4	29.	0.0	31.	82	5.3	42	93	17	8	1				12			7						
Walden-Elbe	96	11.4	1.8	20.8	1.		1.6	28.	-0.7	28.	85	5.7	39	83	16	10	1				9	1		11						106
Walden-Elbe	250	10.2	1.7	22.1	1.		-0.1	31.	-2.3	31.	85	5.8	41	68	15	8	1				5		1	12						89
Walden-Elbe	176	10.7	1.6	19.7	1.		2.3	31.	0.7	28.	84	6.6	59	77	13	11	1				8	1	1	11						106
Walden-Elbe	111	12.2	1.5	21.0	1.		2.8	28.	2.5	28.	75	5.2	46	74	14	10	1				5	1		18						
Walden-Elbe	210	10.6	1.4	23.0	1.		0.0	31.	-0.6	31.	88	5.1	44	71	16	9	1				16		1	4						93
Walden-Elbe	209	10.6	1.2	22.4	1.		0.5	31.	-0.1	31.	87	5.5	45	73	15	8	1				10		1	10						
Walden-Elbe	160	11.4	1.8	21.0	19.		3.0	30.	0.5	28.	83	6.3	47	80	20	10	1				7		16							
Walden-Elbe	276	10.6	1.4	22.5	1.		0.2	31.	-3.0	31.	83	4.9	41	67	21	8	1				6	2	5	11						123
Walden-Elbe	167	11.0	1.2	23.5	1.		1.2	30.	0.5	30.	84	5.0	41	60	19	8	1				6	1	2	7						
Walden-Elbe	210	10.8	1.7	21.7	1.		0.5	31.	-0.4	29.	86	4.9	42	75	14	8	1				14	2	1	7						
Walden-Elbe	518	9.3	1.2	20.7	19.		-1.6	31.	-1.8	29.	80	5.0	28	46	12	8	1				7			7						
Walden-Elbe	379	10.2		21.4	1.		-1.2	31.	-2.3	30.	86	5.7	38	18	8	1	1				8	2		10						109
Walden-Elbe	112	11.3	1.5	22.4	1.		3.1	17.	0.6	17.	85	5.6	45	80	14	9	1				10	1	2	14						103
Walden-Elbe	116	11.4	1.8	21.5	19.		2.2	28.	1.5	29.	89	6.9	47	84	12	9	1				16		19							84
Walden-Elbe	354	9.5	1.2	21.8	1.		-0.2	31.	-1.2	31.	85	4.3	50	65	10	9	1				13	1	8	9						69
Walden-Elbe	443	9.3	1.7	21.7	19.		-1.8	29.	-2.3	31.	82	4.8	29	50	11	5	1				7		3	8						112
Walden-Elbe	492	9.1	1.3	21.1	1.		-1.0	29.	-3.0	31.	82	4.7	37	47	11	7	1				14		7	9						87
Walden-Elbe	245	10.7	2.0	22.4	1.		0.4	31.	-1.0	29.31.	79	4.5	27	46	11	8	1				5		6	7						128

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Table 3 ctd.

Station	Höhe über NN m	Mittel	Anmerkung	Lufttemperatur in °C				Lufthumidität in %	Tagesmittelwerte										Summe in Grad Celsius
				max	min	Datum	max		1	2	3	4	5	6	7	8	9	10	
Stuttgart (Schwanenbergr)	314	11.3	1.7	21.6	1.	1.6	29.	0.1	28.	78	4.9	30	64	12	6	1	9	1	129
Bad Herrnhals	351	10.0	1.7	21.6	1.	-0.1	30.	-2.2	31.	83	5.3	86	84	15	13	2	3	1	83
Darbel	717	9.7	1.8	19.9	1.	4.0	22.28.	-0.1	29.	79	5.3	82	76	15	12	4	3	1	103
Schwabsc. Kr. Gals	633	9.2	1.3	18.0	1.	1.5	26.29.	-1.0	28.	81	4.7	51	67	15	12	1	1	7	114
Schwabsc. Grund-Strasbort	415	10.5	1.8	21.6	1.	-1.0	31.	-1.4	31.	80	5.1	49	41	9	7	1	9	2	81
Wildbad (Stadt)	417	9.5	1.3	21.5	1.	-0.1	31.	-2.5	31.	82	4.9	54	57	15	10	1	1	5	12
Stuttgart (WA)																			
Baden-Baden	218	10.9	1.2	22.0	1.	0.2	31.	-0.4	31.	82	5.3	77	93	12	10	3	9	1	137
Wildbad-Sommerberg	740	9.4	1.5	19.5	17.18.	2.4	28.	-0.4	29.	76	4.8	65	66	15	12	2	6	1	137
Bühlertal	190	11.5	1.2	21.3	19.	1.7	31.	-0.1	31.	73	5.0	109	118	15	12	4	5	1	91
Freistett (Mauwald)	131	11.0	1.8	21.4	10.	3.4	31.	-2.9	17.	87	6.3	57	12	10	2	14	1	17	91
Enzklösterle (I)	606	8.5	1.5	19.0	1.	-0.5	28.	-3.0	28.30.	70	4.6	59	59	14	11	2	7	6	124
Stuten (Wald)	734	8.8	1.3	18.6	19.	0.4	30.	-1.6	31.	83	5.0	40	52	11	6	2	17	3	94
Hradenheim Brenz	500	7.9	0.4	18.6	19.	-1.7	22.	-3.4	22.	88	6.0	20	46	14	6	1	15	1	13
Nürtingen-Überlingen	280	10.0	1.3	22.9	1.	-1.1	31.	-1.5	31.	81	5.3	28	22	6	1	1	13	1	12
Hornseimühle	1122	6.9	1.2	15.6	14.	0.6	28.	-2.3	28.	86	5.5	147	95	14	10	5	22	1	127
Nagold	392	9.1	0.7	20.0	1.17.	-1.5	31.	-2.5	31.	88	3.7	41	87	15	12	1	10	1	11
Lenningen-Schöplisch	758	9.2	1.5	19.5	1.	2.1	28.	-0.2	29.	76	4.8	34	45	11	7	1	5	6	10
Lärchingen	747	8.4	1.5	18.5	1.	-2.0	29.30.	-2.4	30.	78	4.4	28	47	14	7	1	9	7	136
Rottentburg	362	9.8	1.5	23.0	1.	-2.9	31.	-4.9	31.	80	5.6	29	11	7	1	1	9	1	111
Offenbourg	155	11.3	1.5	22.0	19.	2.7	29.	-0.3	31.	83	5.2	51	76	15	9	1	9	3	14
Freudenstadt (Wald)	797	8.6	1.4	18.0	14.	0.5	28.	-1.8	28.	82	5.2	87	80	15	12	2	8	5	127
Gengenbach	185	11.0	1.1	21.3	19.	1.6	30.	0.2	30.	85	5.2	77	103	15	12	4	7	1	93
Münzingen	721	7.9	1.1	19.5	1.	-2.8	31.	-3.6	31.	81	5.6	35	54	11	6	1	9	1	10
Hechingen	520	9.8	1.4	21.8	1.	-1.3	29.	-1.6	29.	78	4.5	41	72	12	8	2	7	4	110
Ulm (Wald)	522	8.9	1.5	21.3	19.	-0.4	31.	-1.6	31.	84	5.6	31	60	9	4	1	12	1	11
Lahr-Schw.	158	11.6	1.6	22.4	19.	1.4	31.	0.0	31.	81	5.5	59	67	12	8	2	8	3	117
Wonnach	265	11.0	1.6	21.5	10.	0.7	31.	0.0	30.	82	5.6	68	71	12	11	2	11	2	118
Albstadt-Flögeln	712	7.9	1.6	18.3	19.	-1.6	31.	-5.4	31.	78	4.7	32	52	13	6	1	9	5	9
Ottoschwanden	442	10.6	20.0	1.	3.1	28.		1.4	28.	83	4.3	72	59	11	9	2	6	5	125
Wellendingen																			
Emmendingen-Mundlingen	201	10.4	22.6	19.	0.5	31.		-0.7	17.	84	5.6	60	94	11	10	2	7	1	137
Schönach	904	6.6	17.5	1.	1.0	28.				80	4.5	108	14	11	4			6	10
Tübingen	683	8.7	1.2	19.4	1.	0.2	29.	-2.5	29.30.	84	4.4	98	86	14	12	3		8	10
Tübingen (Karpark)	700	8.7	1.2	19.4	1.	-0.8	28.			78	4.2	85	15	10	2			8	9
Königsfeld-Schw.	767	8.2	1.5	18.7	14.	-2.1	30.			84	4.5	48	62	13	9	2		5	7
Bietrach-Rohr	534	9.7	2.0	20.7	19.	0.0	30.	-0.6	31.	81	5.7	36	67	10	7	1	13	1	133
Schönwald-Schw.	1005	8.1	1.5	18.0	1.	1.5	22.			81	5.7	36	67	10	7	1	13	1	133
Kippensack (Wald)	973	8.3	1.5	16.3	1.	0.7	28.	-1.6	22.	74	4.3	63	73	15	12	3		3	8
Oberrotweil (I)	223	11.3	1.6	21.9	19.	0.3	31.	-1.2	31.	81	4.9	37	77	12	8	1		7	5
Sigmaringen	650	8.4	1.0	20.3	19.	-2.0	31.	-5.3	31.	81	5.6	27	54	16	4	1		10	2
Ulm (Hof) u. Barmen	284	9.7	1.3	20.5	19.	0.9	31.	-0.6	31.	86	5.2	51	89	12	9	1		8	10
Villingen	678	7.8	1.2	19.1	1.	-3.4	30.	-8.0	30.	84	4.7	36	59	12	6	1		13	2
Freiburg (Br. Heiden)	255	11.4	1.3	22.9	19.	1.6	31.	-1.7	29.30.	81	5.0	88	18	10	5	3		6	8
Bad Dürrenberg	718	8.6	2.0	19.0	14.	-2.6	30.			81	4.7	31	58	12	5	1		4	10
Freiburg (Br. Wald)	269	11.9	1.9	23.0	19.	2.6	31.	0.4	30.	78	5.2	103	166	10	9	3		7	5
Sankt Martin	900	8.9	0.9	19.0	1.	2.0	28.29.			79	4.1	100	16	11	3			8	1
Mengen (Br.)	215	11.2	1.7	22.1	19.	1.0	29.	0.5	29.	83	5.7	61	117	9	9	1		8	1
Adenforst	571	9.3	1.7	20.0	19.	-2.0	31.	-3.6	31.	85	5.7	37	41	15	7	2		11	1
Dornschuppen (I)	677	8.3	1.4	19.2	1.	-3.3	31.	-5.4	31.	84	5.0	37	70	8	4	1		14	3
Neustadt (Schw. I)	835	7.0	0.8	17.6	1.	-4.1	30.	-5.0	30.	83	4.9	56	62	14	9	1		6	10

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Station	Höhe über NN m	Lufttemperatur in °C.										Bewölkung in %	Windgeschwindigkeit in m/sec										Zahl der Tage										Sonnen- schein- dauer in Std.
		Mittel	Abweichung	höchste	Datum	tiefe	Datum	auf der Föhn- seite	Datum	Luftdruck in mm	Richtungswind				Schauer (Fall des H.) in mm				Nebel	Gewitter	Feuchter Tag	Sommerzeit	Posttage	Eisstage									
											E		O	N	A	E	O	N							A	E	O	N	A	V	S	W	
Uttenthal	340	10.1	1-6	20.9	1.	0.1 28.	-0.5 28.	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29					
Nürnberg-Krautlosh (Haupt)	310	10.2	1.6	21.0	19.	-1.6 28.	-2.5 29.			80	5.1	20	43	13	3	.	.	.	6	1	2	10	.	.	.	3	.	123 98					
Pommelsbrunn	368	9.5	1.7	20.2	19.	-1.4 29.	-1.4 29.			81	5.1	16	35	14	5	.	.	.	12	1	3	8	.	.	.	3	.	123 98					
Obereichstätt	498	8.6	1.3	19.6	11.	-2.9 29.	-5.4 29.			85	4.9	28	44	11	6	.	.	.	4	.	7	11	.	.	.	6	.	123 98					
Amberg	386	9.4	1.5	18.0	19.	-0.8 31.	-2.0 31.			82	5.6	16	34	12	6	.	.	.	11	.	1	11	.	.	.	2	.	123 98					
Rothenburg o.d. Tauber	406	9.7	1.5	21.1	1.	-1.2 28.	-1.9 28.			84	5.1	19	38	15	4	.	.	.	6	1	2	8	.	.	.	2	.	123 98					
Schwandorf	372	9.0	1.3	18.9	11.	-0.7 31.	-2.1 31.			84	4.5	13	25	12	4	.	.	.	11	.	2	8	.	.	.	2	.	123 98					
Ansbach-Cathem	481	9.0	1.3	19.5	19.	-1.4 30.	-3.0 30.			86	5.5	17	33	4	.	.	.	6	1	1	5	.	.	.	2	.	123 98						
Kötzting	340	9.7	1.5	22.0	19.	-3.0 29.	-6.7 29.			81	4.7	14	32	11	5	.	.	.	7	.	2	7	.	.	.	1	.	123 98					
Roth b. Nürnberg	420	9.8	1.7	19.5	19.	-0.1 29.	-0.9 29.			81	4.7	22	44	10	4	.	.	.	7	.	2	7	.	.	.	1	.	123 98					
Cham	542	9.1	1.3	18.2	19.	0.7 29.31.	0.0 29.			84	4.4	13	21	8	6	.	.	.	7	.	2	7	.	.	.	1	.	123 98					
Hollensheim-Kraftwerk	403	8.0	1.0	17.1	20.	-1.5 29.	-3.4 29.			90	4.7	30	48	12	5	.	.	.	12	.	3	7	.	.	.	5	.	123 98					
Großer Albet (Wst)	1437	5.4	1.5	15.8	1.	-0.6 16.22.	-0.6 29.			77	4.9	51	17	39	12	5	.	.	14	.	3	13	.	.	.	5	.	123 98					
Regensburg (Wst)	366	9.3	1.0	18.5	11.	-1.0 29.	-3.4 31.			87	5.2	17	39	12	5	.	.	.	14	.	3	13	.	.	.	5	.	123 98					
Weidenburg (Bay. Wst)	422	9.8	1.6	20.9	19.	-1.0 29.	-0.8 29.			81	4.7	12	34	8	3	.	.	.	8	.	4	10	.	.	.	2	.	123 98					
Fischlathausen	397	8.9	1.9	19.8	19.	-1.0 29.	-1.9 29.			85	5.6	19	37	9	4	.	.	.	14	.	2	11	.	.	.	1	.	123 98					
Nordlingen	425	9.6	1.9	20.8	19.	-1.0 29.	-1.9 29.			85	5.6	20	44	12	5	.	.	.	10	.	1	12	.	.	.	1	.	123 98					
Mertten	417	8.9	0.7	19.2	10.	-1.2 31.	-3.2 29.30.			87	5.4	33	47	7	6	.	.	.	12	.	2	13	.	.	.	3	.	123 98					
Koching v. Wald	645	8.4	0.9	21.5	1.19.	-1.9 29.	-2.1 29.			84	4.3	63	82	9	7	1	.	.	13	.	8	9	.	.	.	1	.	123 98					
Freysing v. Wald	410	9.9	1.9	20.1	10.	-1.7 29.	-1.7 29.			84	4.6	22	42	8	4	.	.	.	11	.	3	7	.	.	.	1	.	123 98					
Mallersdorf-Nöb	516	8.7	1.0	19.4	19.	-1.1 29.	-2.6 29.			82	5.2	24	41	15	6	.	.	.	12	.	1	11	.	.	.	3	.	123 98					
Karlsruhe-Neuhof	374	8.9	1.5	20.0	19.	-2.2 29.	-3.5 22.			84	5.4	16	31	11	3	.	.	.	10	.	2	10	.	.	.	4	.	123 98					
Karlsbad	450	9.7	1.5	20.2	5.	-2.0 29.	-3.4 29.			75	5.0	12	20	6	3	.	.	.	6	.	2	10	.	.	.	4	.	123 98					
Münchberg	435	9.3	1.3	21.6	19.	0.5 29.	-1.4 29.			78	5.9	21	40	9	5	1	.	.	13	.	15	1	.	.	.	1	.	137 112					
Dillingen, Donau	409	9.4	1.0	20.2	19.	-0.3 29.	-1.0 29.			86	5.3	40	60	9	5	1	.	.	19	.	1	12	.	.	.	3	.	134					
Passau-Oberhaus (Wst)	439	9.4	1.3	20.2	19.	-1.3 31.	-2.0 29.			82	4.5	26	43	8	3	1	.	.	10	.	2	6	.	.	.	3	.	134					
Kunihausen	436	9.4	1.3	20.2	19.	-1.3 31.	-2.0 29.			82	4.5	26	43	8	3	1	.	.	10	.	2	6	.	.	.	3	.	134					
Falkenberg, Kr. Rottal-Inn	490	9.7	1.4	19.5	19.	-0.9 31.	-1.0 30.			81	4.2	48	84	9	4	2	.	.	10	.	4	7	.	.	.	3	.	134 103					
Augsburg-Mühlhausen (Wst)	461	9.3	1.1	20.1	19.	-1.3 29.	-1.6 29.			82	4.9	15	26	5	4	.	.	.	13	.	3	6	.	.	.	3	.	134 103					
Weiherstephan (AMBF)	467	9.0	1.4	20.0	10.	-1.5 31.	-2.2 29.			85	4.6	27	47	8	5	1	.	.	9	.	4	7	.	.	.	3	.	134 103					
Simbach Inn	310	9.3	1.3	19.1	10.	-2.2 29.	-3.5 29.			84	5.4	22	35	6	3	1	.	.	12	.	2	12	.	.	.	3	.	134 103					
Krumbach-Edenhausen	520	9.0	1.4	21.1	18.	-2.6 31.	-5.2 31.			81	4.1	26	40	16	5	1	.	.	11	.	3	11	.	.	.	2	.	134 103					
Mühldorf-Inn (Wst)	401	9.1	0.9	19.8	10.	-1.0 29.	-2.4 29.			85	5.0	29	47	7	3	1	.	.	11	.	3	11	.	.	.	2	.	134 103					
München-Neumünchberg	515	9.6	1.7	21.3	19.	-1.0 31.	-2.4 31.			80	4.9	26	42	6	5	1	.	.	8	.	3	9	.	.	.	1	.	145 113					
München-Riem (Haupt)	527	9.4	1.6	19.8	19.	-2.2 31.	-5.3 29.			81	4.5	25	37	8	4	.	.	.	10	.	5	6	.	.	.	3	.	147 107					
Kaufmrig	585	9.1	1.6	19.8	19.	-0.6 29.	-2.1 29.			85	4.7	17	37	7	1	.	.	.	7	.	1	8	.	.	.	1	.	147 107					
Eiersberg	573	9.2	1.6	18.9	10.	-0.9 29.	-2.2 31.			85	4.4	26	36	8	3	2	.	.	10	.	2	8	.	.	.	3	.	147 107					
Trostberg	487	9.7	1.6	20.5	18.25.	-1.5 30.	-3.0 31.			80	5.0	29	43	3	3	.	.	.	7	.	2	8	.	.	.	3	.	147 107					
Münchmünchen	595	9.2	1.7	20.5	1.	-0.5 31.	-4.0 31.			81	4.9	28	41	3	6	1	.	.	7	.	2	8	.	.	.	3	.	147 107					
Konigsreuth	720	9.1	1.5	20.4	19.	-2.2 30.	-5.5 29.			79	5.1	16	21	8	6	1	.	.	3	.	3	5	.	.	.	2	.	147 107					
Attenkam	665	9.3	1.5	19.5	1.	-0.5 29.	-3.5 29.			78	4.4	31	41	9	5	1	.	.	8	.	8	5	.	.	.	1	.	147 107					
Kötzting	611	9.8	1.8	20.0	1.	0.5 30.	-0.2 30.			80	4.4	29	38	6	3	1	.	.	2	.	2	8	.	.	.	2	.	147 107					
Kötzting	611	9.8	1.8	20.0	1.	0.5 30.	-0.2 30.			80	4.4	29	38	6	3	1	.	.	2	.	2	8	.	.	.	2	.	147 107					
Rosenheim	446	10.3	2.0	23.2	19.	-2.5 31.	-3.1 31.			84	4.4	29	38	6	3	1	.	.	5	.	5	9	.	.	.	3	.	147 107					
Hollensheim (Observatorium)	977	9.0	2.0	18.2	19.	-2.8 31.	-1.6 29.			75	4.5	43	54	9	6	2	.	.	12	.	7	4	.	.	.	2	.	147 107					
Kempten (Wst)	705	8.7	1.6	21.7	1.	-2.8 30.	-4.8 30.			82	4.6	23	26	11	7	2	.	.	19	.	5	7	.	.	.	2	.	147 107					
Wendheim (Wst)	1832	5.2	1.5	13.9	1.	-2.0 30.	-3.6 31.			69	4.6	46	46	9	7	2	.	.	5	.	2	8	.	.	.	2	.	147 107					
Reh im Winkel	695	8.6	1.4	22.2	1.	-1.8 30.	-3.6 30.			84	4.2	55	47	9	6	2	.	.	5	.	5	6	.	.	.	3	.	147 107					
Reh im Winkel	796	9.0	2.2	20.5	17.19.	-1.2 29.	-1.9 29.			77	3.9	40	45	8	8	3	.	.	3	.	3	8	.	.	.	4	.	147 107					
Garmisch-Partenkirchen (Wst)	719	8.4	1.8	23.6	1.	-1.6 29.30.	-4.5 29.			82	4.3	48	55	10	6	3	.	.	9	.	31	18	.	.	.	4	.	147 107					
Zugspitze (Wst)	2960	-1.6	1.6	9.0	31.	-9.5 21.	-3.3 29.			70	4.1	60	45	11	6	3	.	.	9	.	31	18	.	.	.	4	.	147 107					
Oberschleißheim (Wst)	810	8.3	1.7	21.6	17.	-3.3 29.	-6.1 29.			76	4.3	44	38	9	8	.	.	.	.	.	.	.	.	.	.	4	.	147 107					

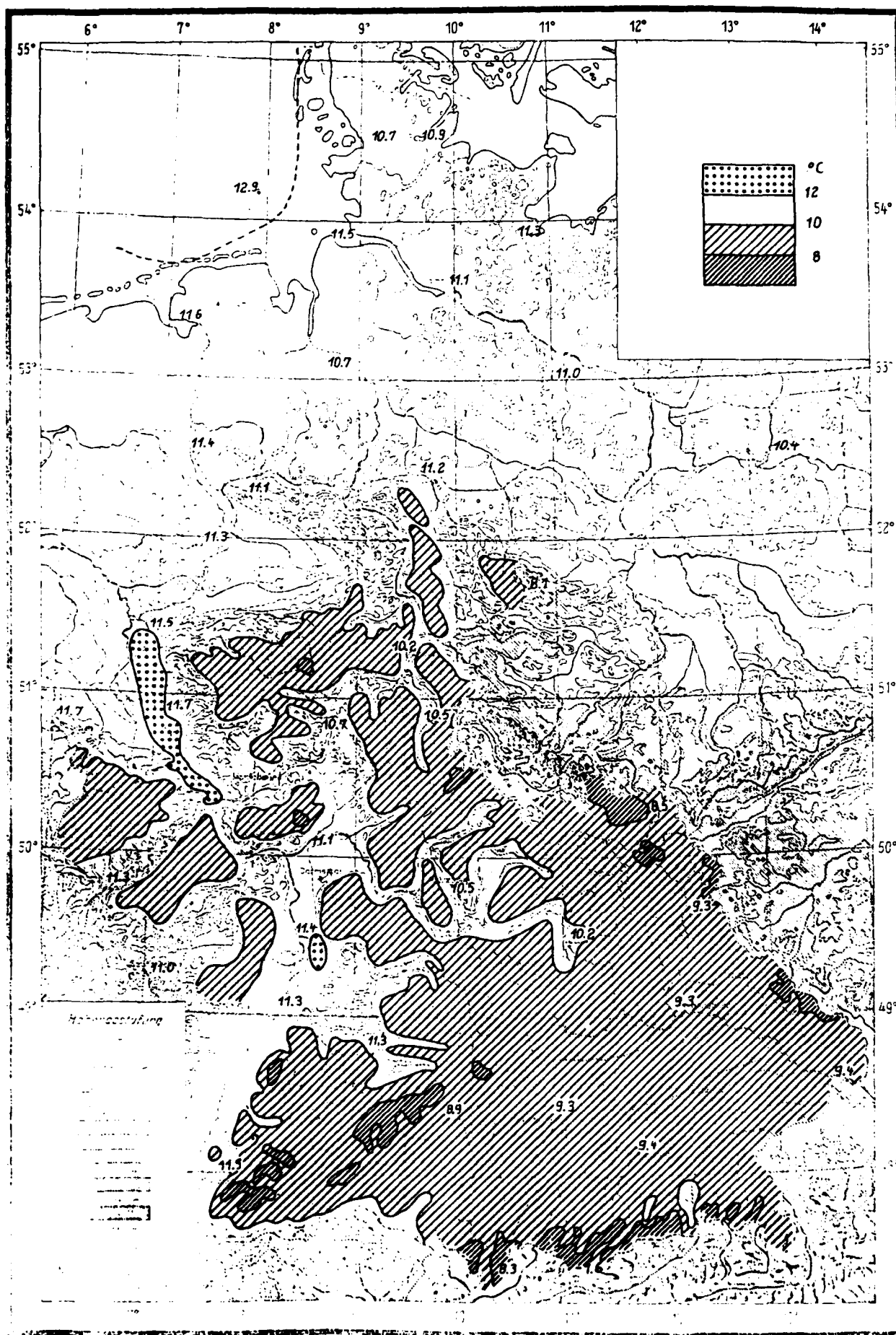


Table 3 ctd. (precipitation in mm)

Oktober 1984

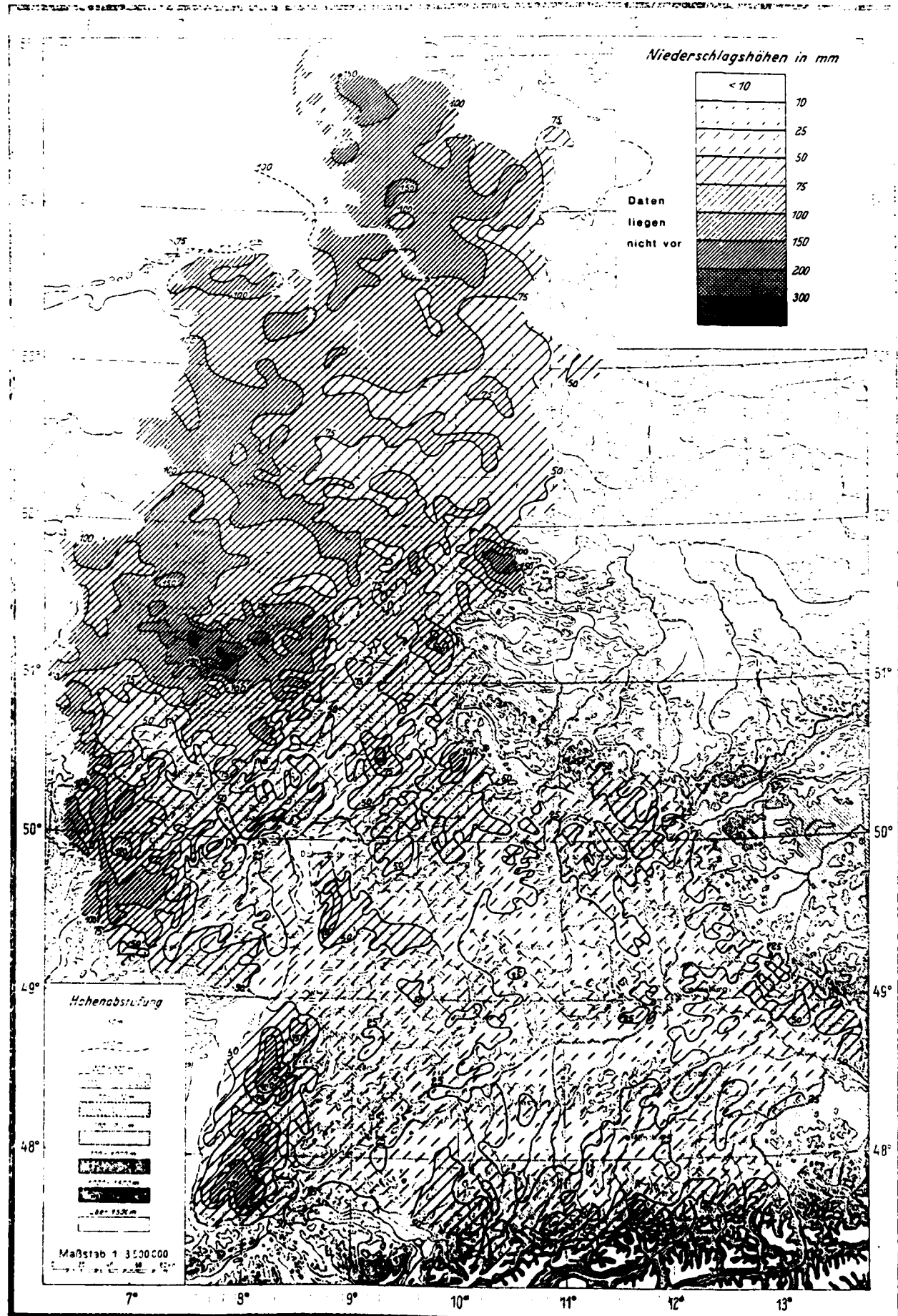


Table 3 ctd. (precipitation in % of 1931 - 1960 mean values) *Oktober 1984*

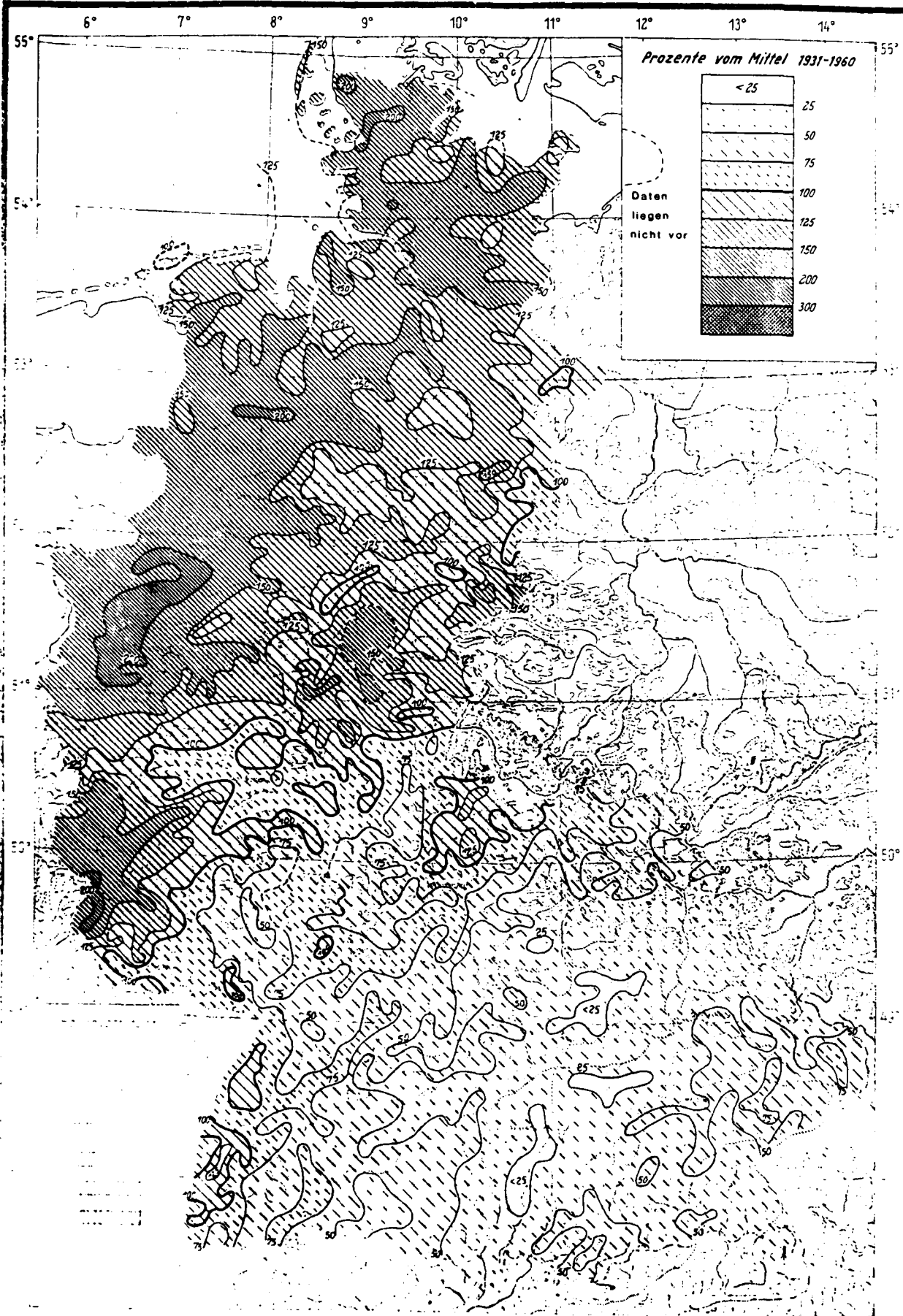


Table 3 ctd. (air temperature in % of 1931 - 1960 mean values)

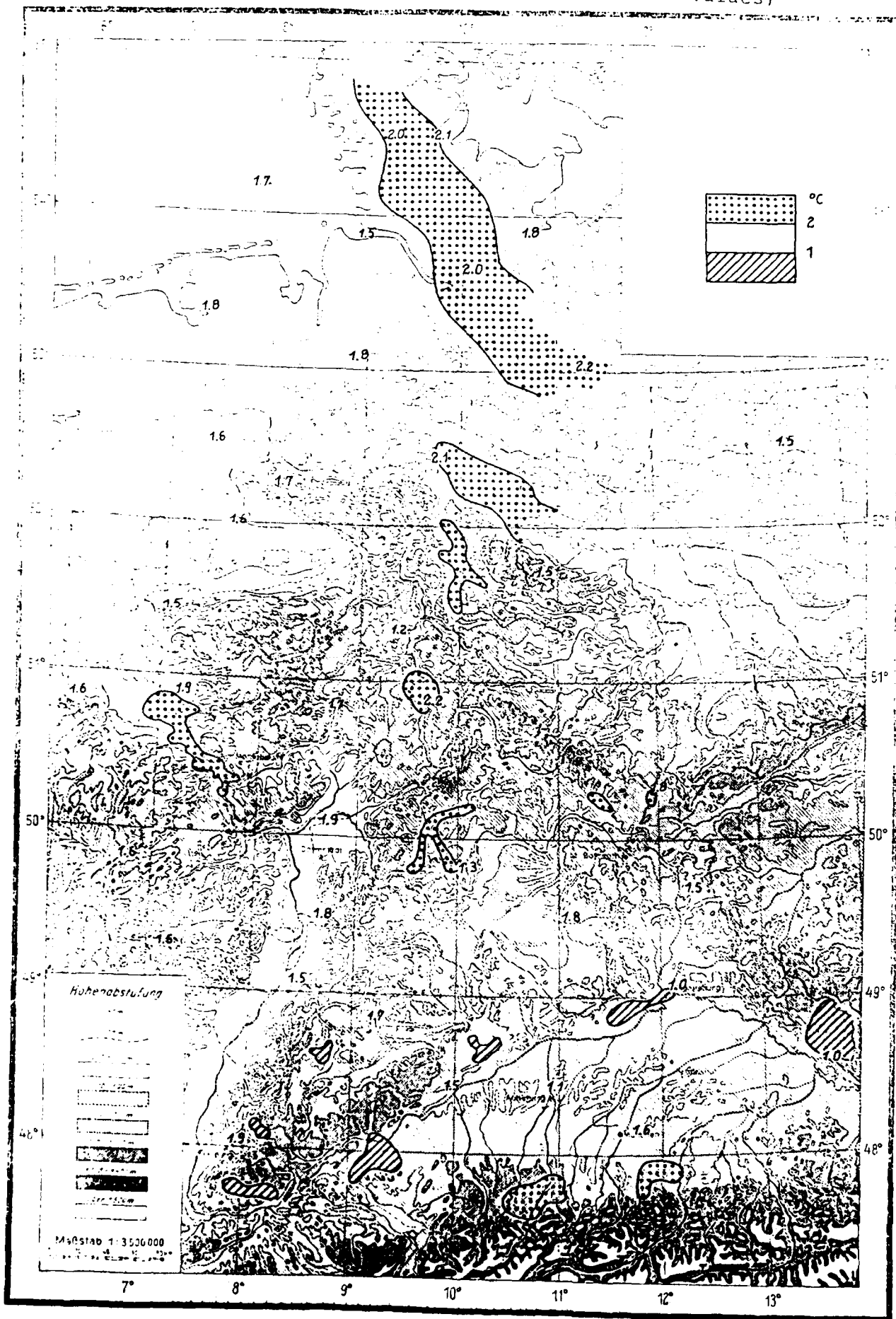


Table 4 Meteorological/Climatological Data for the Areas of Investigation (November 1984)

November 1984

Monatswerte

Station	Höhe über NN m	Lufttemperatur in °C								Luftfeuchtigkeit			Niederschlag					Zahl der Tage										Sonnen- schein- dauer in Std	in %
		Abweichung	Mittel	höchste	Datum	tiefe	Datum	tiefe am End- boden	Datum	Luftfeuchtigkeit	Bewölkung	Höhe in mm	Höhe in mm	Höhe in mm	Wetter	Nebel	Gewitter	Regen	Schnee	Schnee- fall in mm	Schnee- decke in cm	Eis- schicht in cm	Eis- schicht in cm	Eis- schicht in cm	Eis- schicht in cm	Eis- schicht in cm			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Schleswig-Holstein																													
List auf Sylt (Wst)	26	6.3	0.4	12.6	1.	0.4	16.19.	-1.5	20.	87	5.7	80	133	16	11	3	1	1	7	3	3	14	1	1	1	1	54	113	
Leck (BW)	7	5.7	0.7	14.8	2.	-0.4	20.	-3.0	27.	87	5.4	84	105	17	12	2	2	1	9	2	3	14	1	1	1	1	56	106	
Flensburg (Schäferhaus)	41	5.5	0.6	14.5	2.	-1.0	27.	-3.4	27.	88	5.8	83	126	16	9	3	1	1	6	1	3	18	1	1	1	1	48	106	
Wyk/Fohr	1	6.1	0.7	14.9	2.	-0.4	16.	-4.6	27.	89	5.9	83	126	14	9	3	1	1	4	1	3	19	1	1	1	1	49	129	
Stoltebüll I)	28	5.7	0.7	14.5	1.	-0.1	18.19.	-0.5	20.27.	86	5.5	70	127	11	7	2	1	1	4	2	4	16	1	1	1	1	59	129	
Schleswig (WA)	43	5.5	0.6	15.0	2.	-1.7	16.	-2.9	20.	86	5.5	69	101	16	8	3	2	2	8	1	3	16	1	1	1	1	59	129	
Westmarkelsdorf-Fehmarn I)	1	5.3	0.3	14.0	1.	-1.2	18.19.	-2.1	14.	85	5.6	55	128	9	8	3	2	2	8	1	3	15	1	1	1	1	59	129	
Schleswig (BW)	28	5.0	0.2	14.2	1.	-1.7	16.	-2.6	20.	88	5.3	61	94	17	7	3	2	2	8	1	3	15	1	1	1	1	59	129	
Kiel-Kronsdagen (Wst)	17	5.4	0.3	15.0	1.	-1.8	16.	-1.8	27.	83	5.6	75	136	13	6	3	2	2	5	1	4	16	1	1	1	1	57	125	
Hohwacht	10	5.3	0.0	14.2	1.	-1.0	16.17.	-1.8	20.	86	5.0	78	147	12	7	3	2	1	6	1	3	13	1	1	1	1	67	125	
Erkde I)	18	5.2	0.4	15.4	1.	-3.6	20.	-3.9	20.	87	5.2	72	104	13	8	3	2	1	7	1	3	13	1	1	1	1	67	125	
Sankt Peter-Ording	4	5.7	0.1	14.1	2.	-2.0	16.	-3.5	15.	87	6.0	72	114	18	9	3	2	1	6	1	3	15	1	1	1	1	56	125	
Rendsburg	8	5.2	0.3	15.0	1.	-1.7	16.	-4.8	14.	85	5.5	75	121	14	7	3	2	2	7	1	3	15	1	1	1	1	67	125	
Lemshorn	14	5.2	0.2	14.0	1.	-2.4	17.	-4.5	14.17.	86	5.4	84	150	9	6	3	2	2	5	1	4	15	1	1	1	1	67	125	
Holtenau	12	5.3	0.3	15.5	1.	-2.1	20.	-2.3	14.15.	85	5.1	73	106	13	5	3	2	1	7	1	3	12	1	1	1	1	63	134	
Heldland (Wst)	4	8.0	0.5	13.8	1.	0.0	16.	-0.3	16.	87	5.2	63	100	16	8	3	2	1	7	1	3	12	1	1	1	1	48	125	
Plön (Seet I)	24	5.1	0.1	13.9	1.	-2.5	16.	-2.0	17.	85	5.8	78	137	12	6	3	3	3	7	1	3	16	1	1	1	1	67	125	
Enn	50	4.9	0.3	14.9	1.	-2.6	16.	-4.7	14.	86	6.0	90	130	12	7	4	2	3	7	1	3	16	1	1	1	1	67	125	
Hohenwestedt	80	4.5	0.2	14.0	1.	-2.9	16.	-4.7	14.	86	6.0	90	130	12	7	4	2	3	7	1	3	16	1	1	1	1	67	125	
Neumünster	21	5.1	0.3	15.2	1.	-3.0	16.	-5.8	17.	83	4.6	74	119	14	9	3	2	2	7	1	3	16	1	1	1	1	67	125	
Holte, Kr. Dithmarschen I)	2	5.0	0.1	14.5	1.	-2.1	16.	-2.5	14.15.	85	4.5	65	97	11	6	2	2	2	6	1	3	13	1	1	1	1	67	125	
Travemünde I)	9	4.9	0.2	14.1	1.	-2.7	19.	-3.5	20.	82	5.3	51	119	7	6	2	2	2	6	1	3	13	1	1	1	1	49	125	
Wahlstedt	45	4.9	0.3	15.5	1.	-3.1	16.	-3.3	15.	83	6.3	72	121	15	7	3	2	2	6	1	3	13	1	1	1	1	67	125	
Lubeck (Wst)	8	5.0	0.2	15.6	1.	-3.2	16.	-3.9	20.	79	5.4	55	102	10	6	2	2	2	6	1	3	13	1	1	1	1	57	126	
Brande-Hornkirchen I)	9	5.1	0.5	16.0	1.	-4.5	14.	-4.5	14.	86	6.1	67	102	9	5	2	3	3	9	1	2	15	1	1	1	1	64	126	
Glücksstadt I)	2	5.3	0.1	16.0	1.	-2.8	16.	-2.5	15.16.	88	5.7	63	102	9	5	2	3	3	9	1	2	15	1	1	1	1	64	126	
Quicksborn I) Alt- u. Kr. Pinnberg	13	5.5	0.9	15.9	1.	-2.1	16.	-2.9	14.	82	5.3	66	105	10	5	2	3	3	9	1	2	15	1	1	1	1	68	126	
Ahlensburg-Wulsdorf (AMBF)	46	5.0	0.4	15.0	1.	-2.4	16.	-4.1	15.	87	5.3	65	105	11	4	2	3	3	9	1	2	15	1	1	1	1	62	126	
Mölln I)	27	4.6	0.1	15.1	1.	-2.7	16.	-4.4	14.	86	5.3	56	112	9	4	2	3	3	9	1	2	15	1	1	1	1	62	126	
Niedersachsen																													
Hamburg-Fuhlsbüttel (Flugh.)	13	5.4	0.5	15.5	1.	-2.8	16.	-3.7	20.	84	4.9	64	112	9	4	3	1	1	5	1	5	12	1	1	1	1	68	154	
Bremerhaven (Wewal)	7	6.1	0.6	15.6	1.	-2.0	16.	-2.2	15.	86	5.1	69	108	11	4	2	2	2	3	1	4	11	1	1	1	1	77	153	
Bremen (Flugh.)	4	5.7	0.8	15.6	1.	-1.9	16.	-2.6	15.	86	5.3	56	93	10	6	2	2	2	5	1	4	9	1	1	1	1	72	144	
Niedersachsen																													
Cuxhaven (Wst)	5	5.9	0.2	16.4	1.	-1.1	17.	-1.6	17.	88	5.0	64	98	11	8	2	2	2	5	1	7	11	1	1	1	1	71	141	
Wangerooge	3	6.2	0.1	15.7	1.	-1.6	16.17.	-2.9	16.	91	6.3	65	93	13	7	2	1	1	2	1	1	16	1	1	1	1	71	141	
Langeoog	5	6.2	0.1	15.2	1.	-1.5	17.	-1.5	17.	89	5.5	70	96	12	6	2	1	1	2	1	1	13	1	1	1	1	71	141	
Norderney (Wst)	11	6.4	0.1	15.8	2.	-1.1	16.17.	-1.7	15.	87	5.2	76	106	12	8	2	1	1	2	1	1	13	1	1	1	1	71	141	
Borkum	27	5.3	0.2	15.0	1.	-2.1	16.	-3.0	14.	86	5.1	77	122	11	7	2	2	2	5	1	1	11	1	1	1	1	71	141	
Wilhelmshaven	1	6.2	0.7	15.7	1.	-1.5	16.	-1.5	16.	86	4.8	82	124	14	6	2	2	2	5	1	1	11	1	1	1	1	71	141	
Jever (BW)	7	6.0	0.6	15.6	1.	-2.0	16.	-2.2	16.	83	5.0	71	100	14	6	3	2	2	5	1	1	11	1	1	1	1	71	141	
Jork	1	5.1	0.3	15.3	1.	-2.9	20.	-3.2	20.	83	5.1	50	86	9	5	2	2	2	5	1	1	11	1	1	1	1	69	126	
Bremerhaven	5	5.3	0.4	15.3	1.	-3.7	14.	-3.7	14.	83	5.0	69	105	8	6	2	2	2	5	1	1	11	1	1	1	1	69	126	
Aurich	4	5.8	0.5	16.3	1.	-1.9	16.	-2.9	27.	88	6.1	76	103	14	6	3	2	2	5	1	1	11	1	1	1	1	69	126	
Emden-Neerland (Wst)	5	6.5	0.9	16.0	2.	-2.0	15.	-2.9	15.	85	5.1	67	94	11	6	2	1	1	2	1	1	11	1	1	1	1	69	126	

1) Sonnenscheindauer nicht direkt am Standort der Station festgestellt *) vom Mittel 1931-1960 **) vom Mittel 1951-1960
Abkürzungen: WA = Wetteramt, Wewal = Wetterwarte, Wst = Wetterstation, AMBF = Aerometeorologische Beobachtungs- und
Forschungsstelle, BW = Bundeswehr, Kbst = Klimabestimmung, Nst = Niederschlagsstation

Table 4 ctd.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Brake (Unterwerst)	5	6.2	1.0	15.5	1.	-1.5 16.	-1.5 16.	-1.5 17.	89 5.8	50 82	11	5 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Buchholz (d Nordheide)	77	4.6	4.6	16.1	1.	-3.4 20.	-3.4 20.	-4.5 20.	90 5.6	62	9	5 2	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3
Funkelmann	6	5.2	0.4	14.4	1.	-2.1 15.	-2.1 15.	-3.3 15.	86 6.1	67 103	8	6 2	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1
Funkburg	11	5.3	0.3	14.4	1.	-2.3 16.	-2.3 16.	-5.5 14.	79 4.9	51 98	9	4 2	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1
Obelung (1)	5	5.9	0.5	16.1	1.	-2.5 15.	-2.5 15.	-3.2 15.	84 5.5	61 92	13	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Rotenburg (Wunne)	24	5.0	0.0	15.9	1.	-2.9 16.	-2.9 16.	-2.5 17.	76 5.3	54 87	10	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Einwoythe (Lewschendamm)	8	6.2	1.2	16.2	1.	-1.2 16.	-1.2 16.	-2.0 14.15.	85 5.2	61 94	9	5 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3
Sollau (Wst)	77	5.1	0.5	15.8	1.	-2.7 16.	-2.7 16.	-3.4 14.	85 5.3	64 100	9	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Dorpen	6	6.8	1.4	16.9	1.	-1.1 17.	-1.1 17.	-2.6 14.	85 5.1	69 130	8	5 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3
Uelzen	45	4.8	0.3	16.1	1.	-2.8 16.	-2.8 16.	-3.7 15.	90 5.4	65 130	8	7 3	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Enchow (Wst)	17	4.5	-0.1	15.6	1.	-2.4 16.	-2.4 16.	-3.3 14.	86 5.9	49 114	11	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Althorn (Wst)	48	6.2	0.2	15.4	1.	-1.7 17.	-1.7 17.	-2.6 17.	84 5.2	58	10	4 2	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1
Bassum (d. n. Warnum)	53	5.8	0.7	15.3	1.	-2.0 17.	-2.0 17.	-2.6 15.	86 5.2	55	10	5 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Entelab	98	5.0	0.7	16.3	1.	-3.1 16.	-3.1 16.	-3.5 14.	84 5.4	64 102	9	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Loungen	36	6.8	1.5	17.6	1.	-1.5 17.	-1.5 17.	-2.0 15.	83 5.8	54 81	10	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Hankensbüdel	84	4.3	0.0	15.6	1.	-3.0 16.	-3.0 16.	-7.5 14.	87 5.7	59 105	8	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Nienburg	26	5.8	0.6	16.5	1.	-1.5 16.	-1.5 16.	-2.6 15.	83 4.7	59 107	10	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Lingen (Wst)	21	7.4	1.7	17.3	1.	-0.4 17.	-0.4 17.	-1.3 15.	80 4.9	68 100	8	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Althausen	48	6.6	1.5	17.0	1.	-0.8 15.17.	-0.8 15.17.	-2.8 14.	84 5.3	44 66	6	5 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Hannover (angesaugen d. High)	53	5.8	0.7	15.9	1.	-0.7 14.17.	-0.7 14.17.	-3.6 14.	85 5.1	54 104	9	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Nordhorn	24	7.0	1.3	17.5	1.	-0.4 17.	-0.4 17.	-2.1 19.	82 5.1	69 103	12	7 3	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Wolfsburg-Falkenberg	74	5.2	0.6	15.7	1.	-0.5 15.16.	-0.5 15.16.	-2.5 15.	84 4.2	53 100	11	6 3	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Brannschweide-Valkenrode (Wst)	81	5.6	0.6	17.6	1.	-2.2 14.	-2.2 14.	-6.2 14.	82 5.0	56 112	11	8 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Osahnbeck (Wst)	95	7.0	1.6	17.1	1.	-1.1 15.	-1.1 15.	-3.1 14.	80 5.3	63 98	11	6 3	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Ansturm	395	4.6	0.6	16.0	8.	-5.0 15.	-5.0 15.	-4.4 15.	87 5.7	71 96	12	6 3	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Helmsdorf	144	4.9	0.2	17.9	1.	-2.6 15.	-2.6 15.	-3.7 16.	81 5.7	51 98	9	6 3	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Hildesheim	100	5.8	0.6	16.6	2.	-2.6 14.	-2.6 14.	-4.6 14.	84 5.5	38 78	9	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Hann	64	6.6	0.6	15.7	24.	-1.4 15.	-1.4 15.	-3.2 15.	83 4.9	47 81	9	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Salzgeber Ringheim	130	5.4	0.5	17.1	1.	-3.3 14.	-3.3 14.	-5.9 14.	83 4.9	31 61	7	5 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Bad Harzburg	260	5.3	0.5	17.7	1.	-6.8 15.	-6.8 15.	-5.8 15.	83 4.9	32 50	9	5 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Helmke	583	4.9	2.4	17.0	2.	-5.4 15.	-5.4 15.	-6.8 15.	83	59 57	9	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Schneiberg	504	4.8	1.0	19.2	2.	-4.2 15.	-4.2 15.	-7.4 15.	84 4.2	66	9	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Bohmstedt	128	6.4	1.0	16.8	24.	-1.2 14.	-1.2 14.	-4.9 14.	79 5.6	56 90	8	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Einbeck	105	5.9	1.1	16.9	24.	-3.1 15.	-3.1 15.	-3.8 15.	83 6.2	31 57	7	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Bad Grund	300	4.3	1.2	16.2	24.	-5.1 15.	-5.1 15.	-3.8 15.	90 5.2	46 53	8	5 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Carlsfeld	563	4.5	2.0	15.0	2.	-3.3 15.	-3.3 15.	-3.8 15.	81 5.0	67 61	10	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Altenau	495	4.4	1.7	15.5	2.	-5.2 15.	-5.2 15.	-4.4 15.	84 4.6	75 68	9	5 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Holzhausen Silberborn	440	4.7	1.5	15.0	2.	-3.4 15.	-3.4 15.	-8.8 14.	82 5.4	57 63	8	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Brandlage (Wst)	607	4.1	2.0	18.3	2.	-6.7 15.	-6.7 15.	-8.8 14.	82 5.6	124 107	10	6 3	4 3	10	2 4	13	10	2 4	13	10	2 4	13	10	2 4	13	10	2 4	13
Bad Lutterberg	317	5.2	1.6	16.1	1.	-2.4 14.	-2.4 14.	-5.4 15.	82 5.3	50 54	8	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Grottingen (Wst)	175	5.9	0.9	15.4	1.	-3.0 15.	-3.0 15.	-5.4 15.	82 5.9	44 92	8	4 2	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1
Berlin-Dahlem (Meteorol. Inst.)	51	4.3	-0.2	12.5	24.	-3.2 16.	-3.2 16.	-3.2 14.16.	82 5.3	46 100	11	6 2	4 4	6 2	4 4	6 2	4 4	6 2	4 4	6 2	4 4	6 2	4 4	6 2	4 4	6 2	4 4	6 2
Nordrhein-Westfalen	98	7.2	1.6	14.7	23.24.	-0.6 15.	-0.6 15.	-2.5 15.	78 5.6	44 66	11	6 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Bad Salzkotten (Wst)	62	7.4	1.7	18.9	1.	0.4 14.	0.4 14.	-1.4 14.	81 5.3	54 87	10	5 2	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1	2 1
Münster (Wst)	72	7.1	1.7	17.2	1.	0.0 5.	0.0 5.	-2.1 15.	81 4.8	58 91	12	8 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Gütersloh	21	7.8	2.2	17.2	2.	1.2 15.	1.2 15.	-0.7 15.	85 5.2	50 78	15	7 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Bielefeld (Wst)	157	7.5	2.1	17.0	1.	-0.3 15.	-0.3 15.	-2.0 15.	77 5.2	58 78	9	8 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2	2 2
Bad Lipppringe (Wst)	45	8.0	2.0	16.8	1.	1.5 27.	1.5 27.	0.3 14.27.	83 5.6	50 75	14	7 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
Kleve	92	7.7	1.																									

Table 4 ctd.

November 1984

Station	Lufttemperatur in °C										Höhenwind										Zahl der Tage										Sonnen- schein- dauer in Std																																																																																																																																																																																																																																																																																																																		
	Mittel		Abweichung %		höchste	Datum	tiefe	Datum	höchste mit End- loggen	Datum	Luftdruck in hPa	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- 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°	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw. in m/s	Wind- richtung in °	Wind- geschw.

Table 4 ctd.

(air temperature in °C)

November 1984

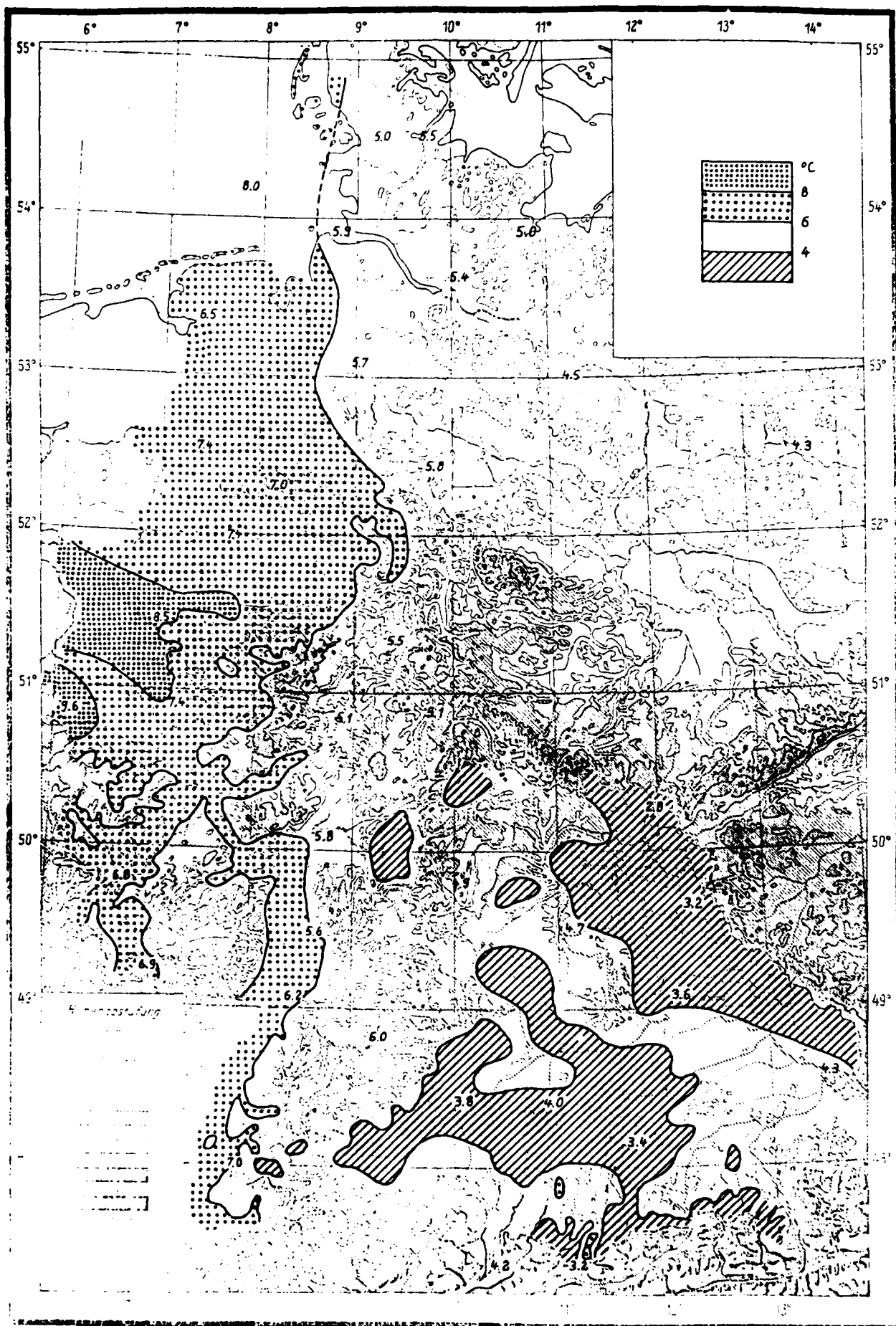


Table 4 ctd. (precipitation in % of 1931 - 1960 mean values)

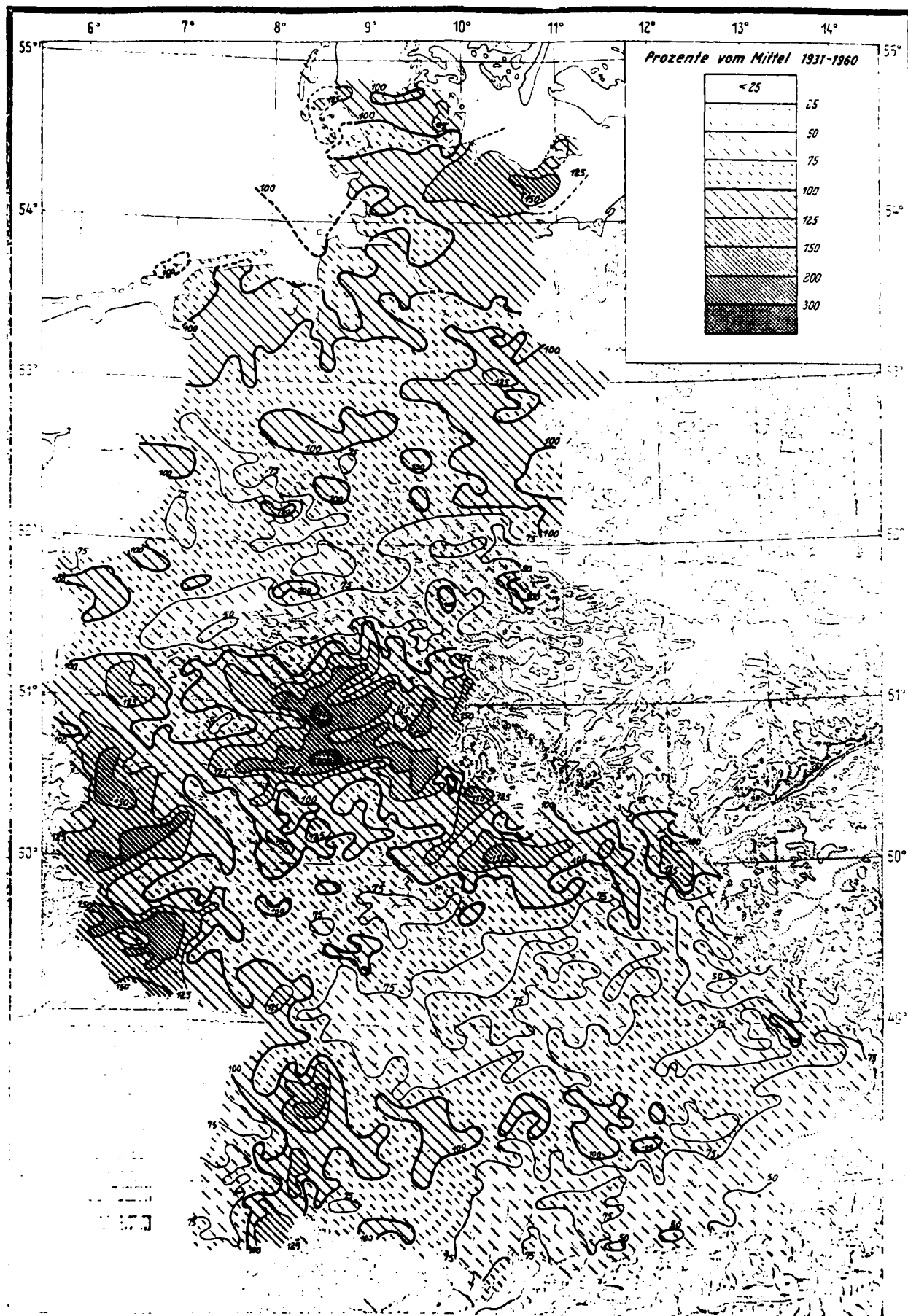


Table 4 ctd. (precipitation in mm)

November 1984

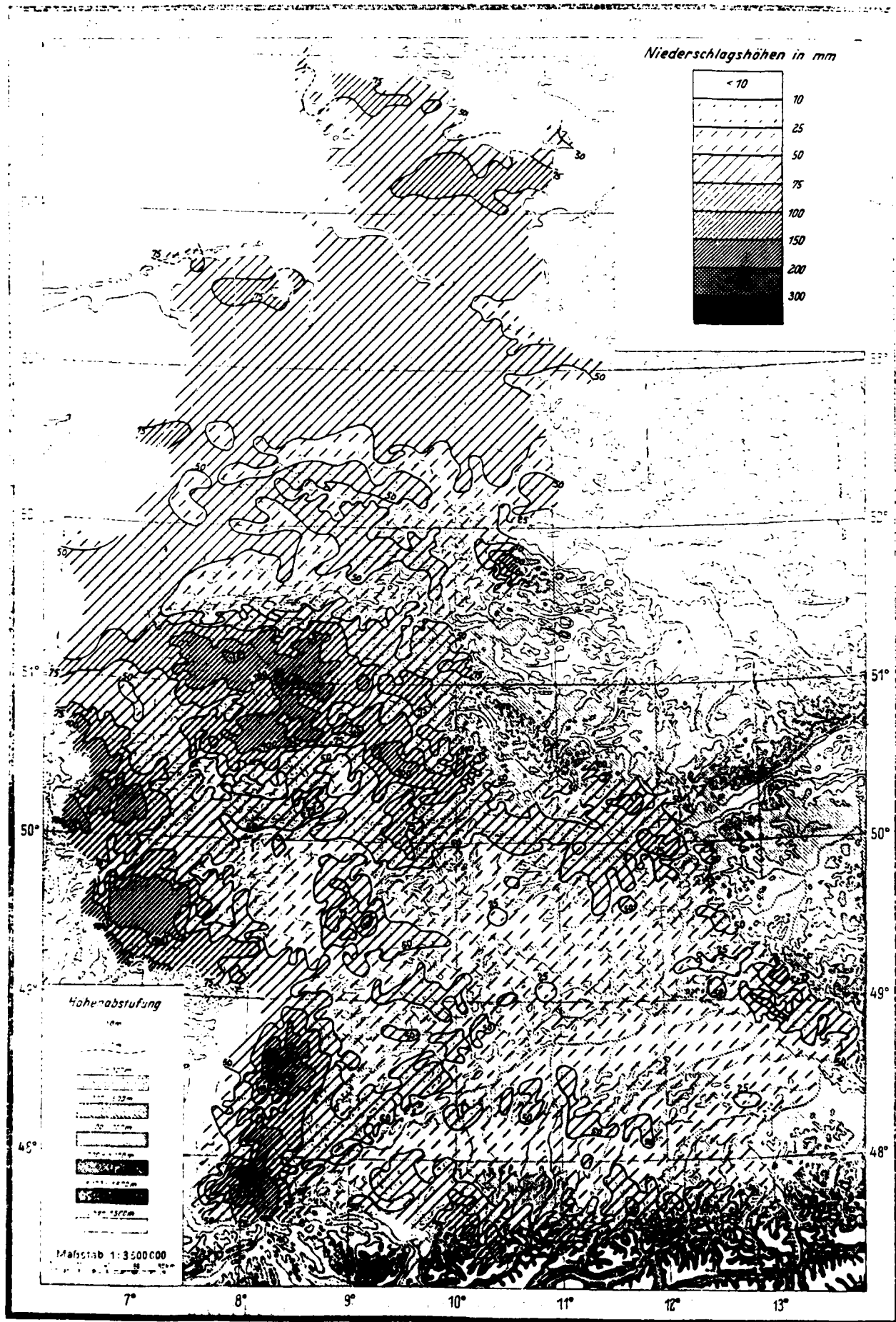


Table 4 ctd. (air temperature in % of 1931 - 1960 mean values)

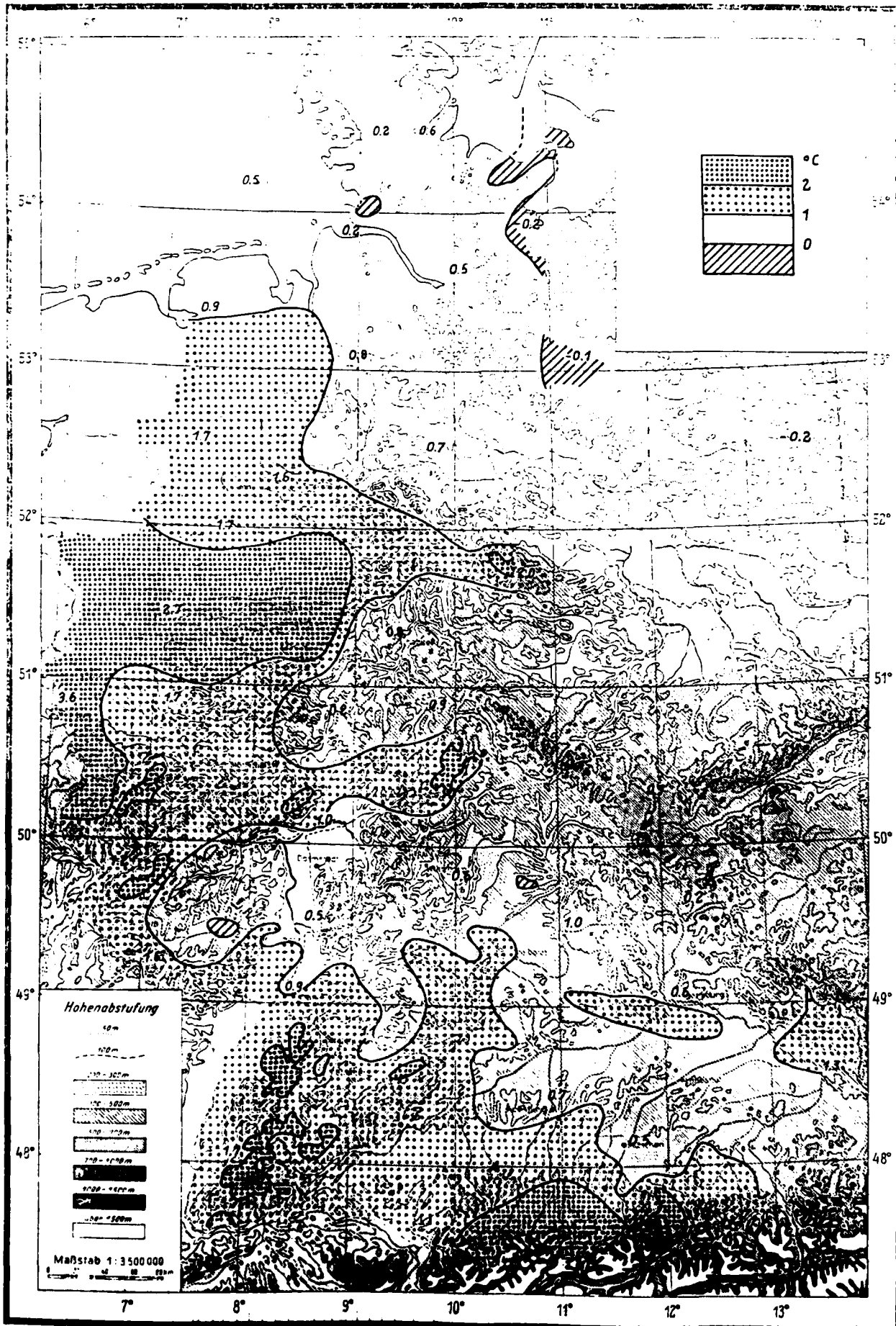


Table 5 Meteorological/Climatological Data for the Areas of Investigation (April 1985)

April 1985

Monatswerte

Station	Höhe über NN m	Lufttemperatur in °C							Niederschlag				Zahl der Tage										Sonnen- schein- dauer in h						
		Mittel	Abweichung 1)	höchste	Datum	tiefste	Datum	tiefste am End beiden	Datum	Luftfeuchtigkeit %	Bewölkung 0-8	Niederschlag				Nebel cm	Gewitter	halbe Tage	Tage	Sommer- Tage	Frost- Tage	Eis- Tage							
												W mm	W mm	W mm	W mm														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Schleswig-Holstein																													
List auf Sylt (Wst)	26	5.4	-1.0	12.1	19.	-0.9	25.	-1.1	19.	86	5.8	46	135	20	12	.	6	.	11	.	1	12	.	.	.	.	.	119	58
Leck (BW)	7	6.0	-0.2	14.5	5.18.	-2.8	24.	-6.8	24.	86	5.8	47	.	23	11	.	4	.	8	.	3	14	.	.	.	.	.	106	56
Flensburg (Schäferhaus)	41	5.8	-0.5	15.6	19.	-5.5	24.	-5.5	24.	85	6.1	65	123	20	13	.	4	.	6	.	1	15	.	.	.	.	.	114	.
Wyk/Fohr	1	6.0	.	15.0	5.	-1.8	24.	-5.8	24.	87	6.3	54	138	19	13	.	4	.	7	.	1	18	.	.	.	.	.	118	61
Stoltebull 1)	28	5.9	-0.1	16.0	19.	-2.0	24.	-3.7	24.	85	5.7	56	124	19	16	.	6	.	3	.	2	14	.	.	.	.	.	116	61
Schleswig (WA)	43	6.3	-0.2	16.5	19.	-1.9	24.	-3.6	24.	83	6.1	60	111	21	15	.	6	.	7	.	2	16	.	.	.	.	.	136	.
Westermarke/Hof/Felmann 1)	1	5.8	-0.5	14.5	19.	1.0	11.	0.3	14.	78	5.4	51	150	20	12	.	5	.	9	.	1	15	.	.	.	.	.	103	64
Schwesing (BW)	28	6.1	-0.1	15.5	19.	-3.7	24.	-6.6	24.	85	5.9	44	94	18	13	.	5	.	9	.	1	15	.	.	.	.	.	122	64
Kiel-Kronshagen (Wst)	17	6.9	0.0	18.2	4.	-1.4	24.	-1.4	24.	79	6.0	51	116	21	13	.	6	.	3	.	3	15	.	.	.	.	.	123	.
Holtenau	10	6.4	-0.2	18.1	4.	0.2	7.	-4.6	24.	81	5.1	52	113	21	13	.	2	.	4	.	1	8	.	.	.	.	.	108	.
Erfde 1)	18	6.9	0.2	16.7	19.	-3.4	24.	-6.4	24.	79	5.8	55	.	20	14	.	6	.	4	.	1	12	.	.	.	.	.	117	.
Holten (BW)	10	6.5	.	17.2	19.	-3.2	24.	-5.1	24.	84	6.3	39	100	15	10	.	3	.	2	.	1	19	.	.	.	.	.	.	.
Sankt Peter-Ording	4	6.6	-0.1	15.3	5.	0.2	24.	-5.1	24.	80	6.3	48	89	20	13	.	4	.	2	.	1	16	.	.	.	.	.	.	.
Rendsburg	8	6.9	0.1	17.5	19.	-1.8	24.	-6.1	24.	79	5.9	49	109	21	15	.	5	.	5	.	1	15	.	.	.	.	.	109	55
Lensahn	14	6.7	-0.3	18.5	4.	-0.9	24.	-4.0	24.	80	5.9	43	81	18	10	.	5	.	11	.	1	13	.	.	.	.	.	117	.
Heide/Holstein	12	7.0	0.0	17.1	5.	-2.4	24.	-3.0	24.	88	5.9	34	87	21	10	.	4	.	2	.	1	8	.	.	.	.	.	.	.
Helgoland (Wst)	4	5.3	-0.9	10.3	19.	0.9	26.	-0.8	17.	82	5.5	66	135	23	15	.	4	.	2	.	1	10	.	.	.	.	.	109	55
Plön (See) 1)	24	6.6	-0.3	16.6	5.	-0.7	29.	-1.0	24.	82	5.5	66	135	23	15	.	4	.	2	.	1	8	.	.	.	.	.	117	.
Enin	50	6.7	-0.4	17.8	4.	-0.7	24.	-2.2	24.	83	5.4	65	125	22	18	.	2	.	2	.	1	10	.	.	.	.	.	.	.
Holtenstedt	80	6.6	-0.3	16.5	5.	-2.0	24.	-4.0	24.	84	6.1	62	115	20	12	.	5	.	2	.	1	16	.	.	.	.	.	.	.
Pinneberg	21	7.3	-0.1	18.7	5.	-2.0	24.	-3.9	24.	79	5.1	68	128	21	16	.	5	.	5	.	2	11	.	.	.	.	.	132	.
Neumünster	2	7.1	0.0	17.6	19.	-0.5	24.	-2.6	24.	82	5.3	51	111	19	10	.	4	.	5	.	2	11	.	.	.	.	.	135	.
Heide, Kr. Dithmarschen 1)	9	7.1	0.0	19.2	4.	0.0	26.	-0.1	26.	77	4.9	61	142	19	15	.	4	.	2	.	3	8	.	.	.	.	.	135	.
Lavendula 1)	45	7.2	0.3	17.5	5.	-2.0	24.	-4.5	24.	79	6.3	90	22	19	2	.	6	.	.	.	1	12	.	.	.	.	.	128	66
Wahlstedt	14	6.9	-0.8	19.3	4.	-2.2	24.	-7.0	24.	81	5.5	70	146	21	19	.	1	.	3	.	1	12	.	.	.	.	.	117	.
Lubeck (Wst)	9	7.2	0.3	18.0	5.	-2.1	24.	-4.6	24.	85	6.0	62	133	21	15	.	1	.	5	.	3	13	.	.	.	.	.	110	.
Brande-Hornerkirchen 1)	2	7.5	-0.1	18.0	19.	-1.0	24.	-2.9	24.	82	5.4	65	133	21	15	.	1	.	3	.	3	12	.	.	.	.	.	107	.
Glücksstadt 1)	13	7.5	0.3	18.3	19.	-3.2	24.	-6.3	24.	80	5.5	65	.	20	14	.	1	.	3	.	3	13	.	.	.	.	.	100	.
Quickhorn (Fernmeldebetriebsgruppe)	46	7.2	0.1	19.4	4.	-1.3	24.	-4.5	24.	79	5.9	72	126	21	18	.	1	.	1	.	2	16	.	.	.	.	.	.	.
Ahrensb. Wulfsdorf (AMBf)	27	7.0	-0.3	21.0	4.	-2.4	24.	-3.7	24.	82	5.4	82	171	20	19	.	2	.	2	.	1	13	.	.	.	.	.	.	.
Grambek																													
Niedersachsen																													
Hamburg-Fuhlsbüttel (Flugh.)	13	7.8	0.3	19.0	4.	-1.8	24.	-3.6	24.	79	5.6	60	115	21	15	.	1	.	2	.	2	11	.	.	.	.	.	121	65
Bremerhaven (Wewa)	7	7.8	0.1	18.0	19.	0.4	17.	-0.9	17.	81	5.7	52	106	17	11	.	4	.	4	.	3	15	.	.	.	.	.	139	74
Bremen (Flugh.)	4	8.0	0.2	19.8	4.	-2.0	24.	-5.2	24.	78	5.6	40	80	18	11	.	5	.	2	.	1	2	.	.	.	.	.	129	70
Niedersachsen																													
Cuxhaven (Wst)	5	7.3	-0.1	19.0	19.	0.9	28.	-2.0	17.	83	6.0	43	91	17	9	.	3	.	5	.	1	15	.	.	.	.	.	135	70
Wangerooge	3	6.9	-0.2	18.0	19.	0.6	27.	0.2	27.	85	7.4	38	93	19	8	.	2	.	7	.	2	24	.	.	.	.	.	.	.
Langeoog	5	7.0	-0.1	18.0	19.	0.5	26.	-0.2	26.	85	5.9	30	71	20	8	.	2	.	4	.	2	15	.	.	.	.	.	118	61
Norderney (Wst)	11	7.1	-0.1	17.0	19.	1.6	26.	1.0	26.	83	5.7	29	71	21	9	.	1	.	5	.	1	12	.	.	.	.	.	.	.
Bederkesa	27	7.4	0.0	18.7	19.	-0.5	24.	-0.7	24.	81	6.0	66	129	19	13	.	1	.	2	.	1	17	.	.	.	.	.	.	.
Wilhelmshaven	1	7.5	-0.1	18.6	19.	0.4	24.	-2.8	24.	79	5.3	69	138	18	14	.	1	.	3	.	3	10	.	.	.	.	.	124	.
Jever (BW)	7	7.5	0.1	18.8	19.	-1.4	24.	-5.3	24.	75	5.8	43	84	19	10	.	1	.	2	.	1	10	.	.	.	.	.	.	.
Jork																													
Bremervörde	5	7.7	0.2	20.1	4.	-3.1	24.	-5.9	24.	79	5.5	63	117	18	13	.	1	.	2	.	2	12	.	.	.	.	.	117	.
Aurich	4	7.3	0.1	18.6	19.	-1.5	24.	-4.5	24.	83	6.7	49	98	22	11	.	3	.	2	.	1	20	.	.	.	.	.	125	65
Emden-Neserland (Wst)	5	7.7	-0.1	17.7	4.19.	0.0	24.	-3.0	24.	78	6.2	39	85	18	10	.	3	.	4	.	1	18	.	.	.	.	.	.	.

1) Sonnenscheindauer nicht direkt am Standort der Station registriert. *) vom Mittel 1931-1960. **) vom Mittel 1951-1960
Abkürzungen: WA = Wetteramt, Wewa = Wetterwarte, Wst = Wetterstation, AMBF = Agrarmeteorologische Beratungs- und Forschungsstelle, BW = Bundeswehr, Kstl = Klimahauptstation, Nst = Niederschlagsstation

Table 5 ctd.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Brake (Unterweser)		5	7.8	0.2	18.5	19.	-1.5	24.	-2.4	17.	81	5.9	53	106	18	13	1	3	.	4	.	2	15	.	.	.	4	.	134
Buchholz (d. Nordheide)		77	7.1		19.8	5.	-2.2	17.	-5.0	24.	80	6.1	89	21	15	1	6	2	.	4	.	1	15	.	.	5	.	.	125
Lüneburg		6	7.7	0.2	19.8	5.	-2.6	24.	-3.8	24.	79	5.6	58	112	18	13	1	4	.	4	.	.	13	.	.	5	.	.	125
Oldenburg (I)		11	8.2	0.2	21.2	5.	-1.2	24.	-3.6	24.	81	5.6	61	124	21	14	1	4	.	.	.	3	13	.	.	2	.	.	125
Oldenburg (Wunnie)		5	7.8	-0.2	19.8	4.	-3.4	24.	-5.4	24.	78	6.0	56	110	18	14	1	4	.	2	.	1	17	.	.	2	.	.	119
Freysche Fledwachtstamm		24	8.0	0.1	20.5	5.	-1.4	24.	-4.0	24.	79	5.5	56	108	18	12	1	3	.	2	.	2	12	.	.	1	.	.	130
Soltan (Wst)		8	8.3	0.7	20.3	5.	-2.0	24.	-5.6	24.	76	5.9	50	102	18	14	2	2	.	3	.	1	15	.	.	2	.	.	70
Dorpen		77	7.7	0.0	21.4	5.	-2.4	24.	-4.9	24.	78	5.8	84	162	21	15	2	6	1	2	.	1	17	.	.	1	.	.	131
Uhlen		45	8.1	0.5	21.9	4.	-2.0	24.	-5.9	24.	80	5.1	60	133	19	15	1	6	1	1	.	5	10	.	.	3	.	.	141
Luchow (Wst)		17	7.9	-0.1	22.2	5.	-0.8	24.	-2.2	17.24.	79	5.7	65	163	20	16	1	4	1	1	.	1	2	12	.	.	3	.	72
Althorn (LBW)		48	7.9		19.6	4.	-3.6	24.	-5.6	24.	75	5.8	59	21	15	1	5	.	1	1	.	1	2	13	.	.	2	.	131
Bassum (Hutisch Warnum)		53	7.8		20.0	4.	-4.5	24.	-5.0	24.	77	5.7	42	165	21	16	2	5	2	.	1	5	12	.	.	4	.	.	116
Unterhus		98	7.6	0.0	22.7	5.	-4.5	24.	-5.0	24.	74	6.4	54	104	17	16	2	5	1	1	.	1	14	.	.	2	.	.	136
Loungen		36	8.3	0.1	20.0	4.	-2.5	24.	-5.0	24.	78	5.8	91	198	19	18	2	5	1	1	.	2	16	.	.	1	.	.	122
Hankensbüttel		84	7.7	-0.1	23.5	5.	-1.2	24.	-2.9	24.	74	5.4	47	100	20	12	3	3	.	1	.	3	10	.	.	2	.	.	136
Nienburg		26	8.6	0.1	22.4	4.	-1.1	17.	-3.0	24.	72	5.7	68	131	19	16	1	3	.	1	.	2	12	.	.	1	.	.	74
Lingen (Wst)		21	8.7	0.2	21.7	4.	-1.4	24.	-4.5	24.	77	6.2	78	144	18	18	1	3	.	1	.	2	18	.	.	3	.	.	146
Althausen		48	8.3	0.5	20.6	4.	-2.0	24.	-4.5	24.	74	5.4	61	127	22	13	1	5	.	1	.	1	10	.	.	2	.	.	139
Hannover-Langenhagen (Flugh.)		53	8.4	0.3	23.1	4.	-2.2	24.	-4.5	24.	70	5.6	79	155	20	16	1	3	.	1	.	1	13	.	.	1	.	.	74
Northern		24	8.4	-0.1	20.1	4.	-2.0	24.	-4.2	24.	74	4.9	74	188	20	17	2	6	.	2	.	3	5	.	.	1	.	.	146
Wolfsburg-Falkersleben		74	8.8		23.6	4.	-2.0	24.	-3.0	24.	75	5.6	71	158	20	16	1	6	.	2	.	3	2	.	.	1	.	.	78
Braunschweig-Vulkaneide (Wst)		81	8.3	0.0	22.9	4.	-2.0	24.	-4.0	24.	72	5.7	69	123	21	16	1	4	.	2	.	2	12	.	.	2	.	.	92
Osnabrück (Wst)		95	8.4	0.1	22.6	4.	-2.6	24.	-8.9	24.	82	5.7	77	117	22	19	1	6	2	14	.	1	8	.	.	1	.	.	146
Annaburg		395	6.0		21.5	4.	-2.9	24.	-4.5	24.	82	5.4	68	145	21	17	1	4	.	1	.	2	8	.	.	1	.	.	139
Hildesheim		144	8.3	0.3	23.5	4.	-1.5	24.	-2.5	24.	75	5.1	85	167	20	17	2	3	.	1	.	1	3	.	.	2	.	.	145
Hildesheim		100	8.2	-0.2	24.0	4.	-1.3	17.24.	-3.3	17.	73	5.9	53	108	21	14	1	4	.	1	.	1	3	.	.	4	.	.	126
Hainchen		64	8.6		23.8	4.	-1.8	24.	-5.4	24.	77	4.7	57	112	21	15	1	6	.	2	.	1	3	.	.	1	.	.	130
Salzgitter-Ringheim		130	8.4		23.8	4.	-1.5	17.	-2.1	24.	73	5.4	82	164	21	17	1	6	.	2	.	1	3	.	.	1	.	.	128
Bad Harzburg		280	7.7	0.0	23.6	4.	-1.6	24.	-1.9	24.	73	5.5	71	108	21	17	1	7	1	1	.	1	2	.	.	8	.	.	77
Hainrocker		553	4.8	-0.2	19.3	4.	-4.0	24.	-4.5	24.	88	5.0	114	139	22	20	4	12	7	4	.	3	13	.	.	11	.	.	122
Schulenberg		504	5.3		19.8	4.	-3.0	24.	-5.8	18.	84	5.0	114	139	22	20	4	12	7	4	.	3	13	.	.	11	.	.	122
Holzminnen		128	8.3	-0.3	23.6	4.	-1.0	24.	-3.7	26.	70	4.9	57	104	20	13	1	5	.	1	.	1	3	.	.	4	.	.	130
Embeck		105	8.5	0.3	24.6	4.	-1.1	24.	-3.2	26.	80	5.1	82	106	22	19	1	8	.	1	.	1	5	.	.	6	.	.	129
Bad Grund		320	8.5		24.5	4.	-2.0	24.	-3.2	26.	84	5.5	144	148	21	20	4	11	7	3	.	2	4	.	.	10	.	.	77
Clusath		563	5.0	-0.5	19.4	4.	-3.5	24.	-5.4	24.	88	5.9	133	131	22	20	5	11	7	6	.	3	3	.	.	10	.	.	126
Altendorf		495	4.7		20.5	4.	-3.0	24.	-5.4	24.	84	5.2	86	116	20	16	1	7	4	3	.	4	12	.	.	8	.	.	121
Holzminnen Silberhorn		440	6.0		21.0	4.	-3.0	24.	-6.5	26.	82	5.7	130	153	22	18	6	13	8	3	.	4	1	.	.	10	.	.	136
Braunlage (Wst)		607	4.5	-0.5	19.3	4.	-3.6	24.	-6.5	26.	78	5.3	106	151	21	19	2	9	3	1	.	1	2	.	.	8	.	.	133
Bad Lauterberg		317	6.8		22.2	4.	-2.0	24.	-3.7	26.	70	5.8	52	130	19	14	1	6	.	1	.	1	2	.	.	2	.	.	73
Göttingen (Wst)		175	8.3	-0.1	24.3	4.	-1.3	24.	-3.8	26.	72	5.2	62	151	18	18	1	5	.	1	.	5	4	.	.	3	.	.	150
Berlin-Dahlem (Meteorol. Inst.)		51	8.5	-0.2	24.8	5.	-0.8	24.	-3.8	26.	72	5.2	62	151	18	18	1	5	.	1	.	5	4	.	.	3	.	.	78
Northrup-Westfalen																													
Rahden-Vall		42	8.2	-0.1	21.1	4.	-3.2	24.	-5.0	24.	77	5.3	52	104	22	13	1	3	.	2	.	1	13	.	.	2	.	.	133
Bad Salzuflen (Wst)		93	3.5	0.1	24.0	4.	-2.5	24.	-5.0	24.	72	5.7	58	104	20	14	1	4	.	1	.	1	12	.	.	3	.	.	142
Münster (Wst)		62	8.7	0.1	23.3	4.	-3.0	24.	-4.9	24.	75	5.5	57	110	19	14	1	4	.	1	.	1	12	.	.	3	.	.	76
Coesfeld		72	3.7		24.0	4.	-3.4	24.	-4.8	24.	77	5.3	60	118	20	15	1	1	.	1	.	1	11	.	.	3	.	.	144
Bockholt-Eckern (Wst)		21	8.5	0.0	22.5	4.	-3.1	24.	-6.7	24.	78	5.3	55	110	18	14	1	4	.	2	.	1	2	.	.	4	.	.	75
Bad Lippspringe (Wst)		157	3.0	-0.1	21.2	4.	-3.7	24.	-5.5	24.	76	5.5	62	126	22	14	3	5	.	1	.	1	11	.	.	2	.	.	127
Kleve		45	8.9	-0.3	21.8	4.	-0.9	24.	-2.9	24.	76	5.7	59	123	16	13	1	3	.	1	.	1	11	.	.	3	.	.	134
Lippstadt-Bokenforde		92	3.4		24.0	4.	-3.5	24.	-4.3	24.	73	5.5	60	117	17	13	1	3	.	1	.	1	10	.	.	3	.	.	132
Dortmund		240	7.5	-0.5	22.4	4.	-2.0	24.	-3.9	26.	77	6.1	50	102	20	11	5	1	1	.	1	1	14	.	.	4	.	.	137
Bergentrich-Böhm		120	7.0	0.1	24.2	4.	-2.3	24.	-5.5	24.	75	4.8	88	154	21	16	3	3	.	1	.	2	4	.	.	2	.	.	79
Essen-Breda (Wst)		154	8.8	-0.1	23.1	4.	-4.2	24.	-4.2	24.	72	5.6	82	128	19	15	3	4	1	1	.	4	2	.	.	3	.	.	140
Hagen (Wst)		100	3.0		23.5	4.	-1.3	24.	5.1	24.	75	5.5	85	20	15	1	4	.	1	.	.	13	.	.	3	.	.	.	137
Biden		472	6.1	-0.7	22.3	4.	-4.0	24.	-4.4	24.	78	5.9	107	137	21	12	3	6	2	3	.	3	15	.	.	8	.	.	140
Amstern		112	7.4	0.0	21.9	4.	-3.8	24.	-4.0	24.	75	5.5	110	145	21	17	4	6	1	1	.	3	8	.	.	1	.	.	140
Lonsdorf		39	9.3	0.1	25.0	4.	-1.7	24.	-3.5	24.	30	5.5	101	122	21	18	3	5	.	1	.	4	15	.	.	1	.	.	140
Esle		325	5.5	0.1	23.1	4.	-3.4	24.	-5.0	24.	30	5.5	101	122	21	18	3	5	.	1	.	4	15	.	.	1	.	.	140

Table 5 ctd.

[illegible]

Table 5 ctd.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Rheinland Pfalz																													
Tilgendorf	290	8.0	0.0	0.0	22.8	4.	-2.4	24.	-4.2	24.	76	5.3	105	144	17	17	4	5	1	1	4	13	1	1	1	4	143	76	
Bad Marienberg (Wst)	547	5.8	-0.4	19.3	4.	-4.5	24.	-8.2	24.	78	5.7	127	163	20	16	3	8	6	7	2	3	15	1	1	1	8	141		
Bad Neuenahr-Ahrweiler	111	9.7	3.8	25.5	4.	-1.0	27.	-1.0	27.	75	5.2	56	106	12	10	1	2	1	1	1	1	1	1	1	1	1	1	1	
Neuwied-Wollendorf	121	9.2	24.5	4.	24.5	4.	-2.5	27.	-2.5	27.	71	5.1	59	105	16	12	2	2	1	1	4	10	1	1	1	3			
Niedertiefen	250	8.2	23.1	4.	23.1	4.	-3.2	24.	-5.2	24.	72	5.1	86	134	16	13	3	3	1	1	4	13	1	1	1	5			
Koblenz (Süd)	72	10.0	0.1	23.9	4.	1.0	28.	-1.4	28.	72	6.1	51	121	17	9	1	2	9	3	5	2	13	1	1	1	7	139		
Narburg (Wst)	627	5.5	-0.4	19.4	4.	-4.3	24.26.	-5.8	24.	78	5.7	72	109	15	12	2	3	1	1	1	1	2	13	1	1	1	5		
Mayen	270	8.9	0.3	23.6	4.	-1.9	24.	-1.0	24.	73	5.5	76	152	17	12	2	3	1	1	1	1	2	13	1	1	1	5		
Bad Jms	77	10.2	1.0	25.1	4.	0.2	24.	0.2	24.	73	5.5	76	152	17	12	2	3	1	1	1	1	2	13	1	1	1	5		
Scheffelsheim	657	5.0	-0.6	18.6	4.	-4.7	26.	-6.4	26.	82	5.2	136	179	15	12	6	8	3	9	1	3	12	1	1	1	7	132		
Welschen	530	5.3	-0.6	18.8	4.	-3.0	24.	-5.6	26.	82	5.0	102	150	17	14	4	7	2	5	1	3	16	1	1	1	6	153		
Manderscheid-Eifel	403	7.0	-0.6	21.4	4.	-2.6	27.	-5.1	25.27.	82	5.2	68	108	15	11	1	3	1	1	1	1	3	15	1	1	1	6		
Blankenrath	400	7.5	0.1	22.7	4.	-2.5	24.	-4.1	25.	80	5.8	70	121	14	10	3	2	1	1	1	1	3	15	1	1	1	6		
Stromen-Waldbach	440	7.0	-0.4	21.4	4.	-3.0	28.	-4.3	27.	75	5.4	58	105	15	10	1	3	1	1	1	1	3	13	1	1	1	6		
Manz	125	10.0	-0.1	24.5	4.	0.6	27.	-1.0	25.	60	5.0	39	105	14	11	1	1	1	1	1	1	2	5	13	1	1	6	136	81
Berncastel	120	9.9	0.1	24.5	4.	0.2	25.	-1.7	25.	68	5.7	50	94	15	8	1	1	1	1	1	1	3	13	1	1	1	6	144	77
Bad Kreuznach	159	9.7	0.0	24.5	4.	0.0	27.	-5.5	29.	70	5.9	29	83	10	5	1	1	1	1	1	1	1	16	1	1	1	6		
Berringer	345	7.6	0.2	22.5	4.	-3.0	27.	-4.3	24.27.	74	4.8	64	121	16	11	1	2	1	1	1	1	3	7	1	1	1	6	151	78
Deinsbach (Wst)	480	7.2	-0.2	20.7	4.	-3.0	24.	-5.0	24.27.	73	5.9	60	88	18	12	1	3	2	1	1	1	1	14	1	1	1	6	134	81
Fried (Stadt)	144	9.4	-0.1	24.0	4.	-0.8	25.	-4.9	26.	77	5.9	64	121	16	12	2	2	1	1	1	4	9	1	1	1	1	3	152	81
Frei Petrusberg (Wst)	265	8.6	-0.4	23.5	4.	-1.2	25.27.	-3.4	25.	72	5.9	58	114	16	8	1	3	1	2	1	1	1	1	1	1	1	1	177	95
Alzey	166	9.8	0.5	24.7	4.	-0.5	27.	-5.6	29.	74	5.2	28	76	12	5	1	1	1	1	2	1	1	1	1	1	1	8		
Birkenfeld-Feckweiler	395	7.1	-0.1	22.0	4.	-5.0	27.	-7.0	27.	74	5.4	77	122	11	11	3	3	1	1	1	2	3	13	1	1	1	4	142	
Ruppertskirchen	488	7.6	25.1	4.	-2.8	24.	-3.5	24.	-3.5	24.	66	5.2	42	82	11	9	1	1	1	1	1	1	1	1	1	1	3	160	74
Karsbach	553	7.1	-0.6	25.0	4.	-2.0	25.	-3.2	27.	72	5.6	38	70	17	10	1	1	1	1	1	1	3	15	1	1	1	4	166	
Wemmel (Wst)	125	9.9	0.1	23.3	4.	-0.7	27.	-5.7	27.	68	5.2	24	59	13	9	1	4	1	1	1	1	2	5	13	1	1	9		
Neustadt West (Hadelhof)	280	7.6	23.0	4.	-4.2	25.	-6.0	25.27.	75	4.9	66	116	17	12	1	4	1	1	1	1	1	1	1	1	1	1	1	158	
Primsen	180	9.7	-0.3	24.0	4.	-1.0	27.	-2.5	25.27.	71	5.2	49	84	12	10	1	1	1	1	1	1	1	1	1	1	1	1		
Bad Bergzabern I)																													
Baden-Württemberg																													
Wertheim-Eichel	140	9.4	0.3	25.0	4.	-0.5	18.	-2.5	27.	66	4.8	32	63	15	12	1	1	1	1	7	1	3	11	1	1	1	3		
Lands-Kornbuden-Gedachshaus	199	9.0	24.8	21.	24.8	21.	-1.2	27.	-2.8	26.27.	68	5.0	35	81	17	11	1	2	1	2	1	3	11	1	1	1	6	162	79
Manheim (Wewal)	96	10.2	0.2	24.5	4.	-1.8	27.	-4.6	27.	67	5.2	37	82	16	10	1	1	1	1	1	2	4	11	1	1	1	2	163	86
Buchen, Kr Neckar Odw	350	7.8	-0.1	23.1	4.	-2.8	25.27.	-4.1	25.	72	5.8	60	109	16	11	1	3	1	2	2	1	3	9	1	1	1	7		
Bad Mergentheim-Neunkirchen	250	8.5	-0.1	24.2	21.	-1.7	27.	-3.6	24.	71	5.2	48	98	17	11	1	1	1	1	1	2	1	3	15	1	1	4		
Eberbach/Neckar	178	8.4	-0.5	23.9	21.	-2.2	25.27.	-6.1	25.	69	5.5	70	101	17	14	1	2	1	1	1	1	2	1	3	15	1	1	141	76
Heidelberg I)	111	10.8	0.1	24.5	4.	1.1	24.	0.3	24.	59	4.9	46	75	17	9	1	1	1	1	1	2	5	11	1	1	3			
Neudenau	210	9.4	0.0	24.8	4.	-2.0	25.	-4.0	25.	75	4.4	53	87	14	10	1	1	1	1	1	1	3	11	1	1	1	3		
Ingeltingen	209	9.0	0.3	24.9	21.	-1.9	25.	-3.5	25.	67	5.0	53	88	16	11	1	1	1	1	1	1	3	10	1	1	1	1	171	89
Philippsburg (Kernkraftwerk)	100	10.5	0.5	24.5	4.	-0.5	25.	-2.0	25.	67	4.9	39	68	14	9	1	1	1	1	1	1	3	11	1	1	1	1	1	
Öhringen (Wst)	276	8.6	-0.3	23.9	21.	-1.9	25.	-5.0	25.	70	5.3	57	102	18	12	1	2	1	1	1	1	5	12	1	1	1	2		
Heilbronn	157	10.1	-0.1	25.4	4.	-0.7	25.	-2.2	25.	67	4.8	50	94	18	12	1	2	1	1	1	1	1	5	11	1	1	2		
Eppingen	210	9.3	0.2	23.5	4.	-1.2	27.	-4.8	27.	69	4.6	73	138	16	13	2	2	1	1	1	1	2	7	9	1	1	2		
Carlsberg	412	7.7	-0.1	23.2	21.	-3.3	25.	-4.4	25.	69	5.7	48	86	17	11	1	3	1	1	1	1	1	12	1	1	1	7		
Schwabsch Hall-Turetsch	379	8.2	23.6	4.	-1.8	25.	-6.2	25.	75	5.8	80	18	11	4	2	1	1	1	1	1	1	3	1	14	1	1	4	172	91
Karlruhe (Wst)	112	10.2	0.1	25.9	4.	-1.1	25.	-4.0	25.	67	5.5	49	83	16	13	1	1	1	1	1	1	2	4	14	1	1	2	171	86
Rheinmühl-Fochheim	116	10.2	-0.5	26.2	4.	-2.0	25.27.	-8.2	27.	69	6.2	60	107	16	14	1	1	1	1	1	3	1	18	1	1	1	1	161	
Murhardt	344	7.6	-0.2	23.4	4.	-3.4	25.	-4.8	25.	72	5.0	67	99	17	15	1	3	1	1	1	1	1	1	1	1	1	1	160	90
Flaurenz-Jagd	443	7.3	0.0	23.2	4.	-2.5	25.	-4.1	25.	73	5.0	46	85	16	11	1	4	1	1	1	1	1	1	1	1	1	1		
Gschwend Kr Ostalb	402	7.1	-0.2	23.2	4.	-2.3	25.	-4.9	25.	74	5.5	65	96	18	15	1	4	1	1	1	1	1	1	1	1	1	1		
Pr. C. Lm.	345	4.9	0.4	23.5	4.	-2.0	27.	-5.2	27.	70	5.1	69	113	17	14	1	2	1	1	1	1	1	3	13	1	1	2	166	

Table 5 ctd.

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Station	Höhe über NN m	Lufttemperatur in °C						Hochdruck				Zahl der Tage										Sonnen- schein- dauer in Std	m. m. m.						
		Mittel	Abweichung 1)	höchste	tieftste	Datum	Tage am Erde- boden	Datum	Luftfeuchtigkeit in %	Bewölkung 0-8	Hochdruck			Zahl der Tage															
											0.1 m	1.0 m	fall 100 m	Schnee fall 10.1 mm	dicke 10.1 cm	Nebel	Gewitter	heißere	teile Tage	Sommertage	Fröstage								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Stuttgart (Schnarrberg, W.A.)	314	9.5	0.1	23.7	4.	-0.3	25.	-3.3	25.27.	63	5.2	39	80	16	10	4	1	1	1	1	3	12	.	.	.	1	.	179	
Bad Herrenalb	351	7.9	0.4	23.7	4.	-2.5	27.	-5.2	27.	71	5.6	136	128	18	16	5	3	1	7	1	3	15	.	.	3	.	122		
Döbel	717	6.7	0.1	21.7	4.	-2.8	28.	-5.2	24.	69	5.4	137	134	17	16	5	7	3	5	.	4	15	.	.	5	.	169		
Schnarrberg, Kr. Calw	633	6.7	-0.1	21.5	4.	-3.0	27.	-4.5	27.	69	5.3	116	141	17	15	5	4	2	2	1	4	14	.	.	6	.	152	84	
Schwabsch Gmund-Strakdorf	415	8.5	0.0	24.0	4.	-2.6	25.	-4.1	25.	69	5.2	60	91	16	14	1	3	1	.	1	5	15	.	.	4	.	.		
Baden-Baden	218	9.4	-0.1	25.1	4.	-1.6	27.	-3.0	27.	67	5.0	99	115	17	16	2	1	1	1	1	6	13	.	.	1	2	.		
Wildbad (Stadt)	417	7.2	-0.4	24.2	4.	-3.6	27.	-6.4	27.	72	5.2	132	145	17	16	6	3	1	.	6	13	.	.	6	.	.			
Wildbad-Sonnenberg	740	6.4	-0.3	21.8	4.	-2.8	28.	-6.1	27.	68	5.6	141	150	19	16	5	12	3	3	3	16	.	.	6	.	.	163		
Bühlertal	190	10.3	-0.2	26.3	4.	-0.8	27.	-1.1	27.	63	5.0	106	110	17	16	4	2	.	.	3	6	14	.	.	1	.	.		
Rheinau-Freistett	131	9.8	0.2	24.5	4.	-2.5	27.	-6.7	25.	76	5.3	53	.	15	12	.	2	.	3	3	4	15	.	.	2	.	166		
Enzklosterle (I)	606	5.9	.	22.0	4.	-4.4	25.	-7.4	25.	75	5.2	129	134	16	14	4	6	3	3	2	14	.	.	7	.	137	113		
Stollten (Wst)	734	6.4	-0.1	21.2	4.	-4.0	24.	-7.4	27.	71	5.5	84	114	16	13	2	10	6	10	3	4	14	.	.	7	.	184		
Ikenheim-Brenz	500	8.3	-1.2	22.2	4.	-6.0	25.	-7.3	25.	76	5.0	51	93	16	14	1	4	2	2	2	4	11	.	.	11	.	152		
Nürtingen-Oberensingen	280	9.1	0.1	25.7	4.	-2.4	25.	-5.6	25.	68	5.0	60	16	13	1	3	.	1	3	.	4	11	.	.	2	3	.		
Hornsmühle	1122	3.2	-0.5	18.0	4.	-5.5	24.	-7.1	27.	62	5.9	157	100	17	16	5	13	18	16	6	4	18	.	.	15	2	134		
Herrenberg	392	7.3	-0.5	24.0	4.	-3.5	25.	-5.5	25.	76	4.5	95	190	18	15	5	3	.	.	.	6	10	.	.	6	.	.		
Nagold	758	6.6	0.1	22.0	4.	-4.2	24.	-5.0	25.	69	5.6	84	120	17	14	3	10	3	4	.	4	16	.	.	7	.	185		
Lenningen-Schloßbach	747	6.5	0.3	20.5	4.	-3.2	28.	-4.5	28.	70	5.0	87	158	16	14	3	9	3	.	1	4	12	.	.	6	.	179		
Laichingen	342	8.1	.	24.8	4.	-4.3	25.	-7.8	25.	72	5.4	67	125	16	12	3	2	.	.	1	2	13	.	.	6	.	.		
Offenburg	155	10.2	0.2	25.8	4.	-0.6	27.	-4.0	25.	65	5.3	66	103	16	14	1	2	.	.	1	6	15	.	.	1	9	.		
Freudenstadt (Wst)	797	5.7	-0.2	20.7	4.	-4.0	28.	-6.4	25.	74	5.5	200	190	20	16	9	12	7	2	3	16	.	.	1	9	.	169	100	
Gengenbach	185	9.6	-0.3	25.8	4.	-0.8	27.	-3.0	27.	72	5.3	94	131	17	15	3	3	.	1	2	5	15	.	.	8	.	.		
Münzingen	721	6.2	0.1	22.6	4.	-5.4	25.	-9.0	25.	70	5.4	87	140	17	13	4	9	3	.	1	3	15	.	.	6	.	.		
Hechingen	520	7.6	-0.3	23.5	4.	-3.1	25.27.	-5.6	25.	70	4.7	76	131	17	14	2	5	2	.	2	2	15	.	.	6	.	197	109	
Ulm (Wst)	552	7.9	0.3	23.5	4.	-3.6	25.	-6.8	25.	68	5.5	58	132	19	14	1	6	1	.	2	2	15	.	.	6	.	165		
Lahr/Schw.	158	10.7	0.6	26.1	4.	-0.6	25.	-4.4	25.	66	5.2	66	110	16	14	1	2	.	.	3	6	14	.	.	1	.	138		
Wollach	265	8.8	-0.1	26.0	4.	-2.2	27.	-3.1	27.	74	5.3	147	169	17	15	7	3	1	1	1	4	15	.	.	2	.	.		
Albstadt-Ebingen	712	5.7	.	21.7	4.	-4.1	25.	-8.0	25.	65	4.9	81	135	17	13	2	8	2	1	1	3	9	.	.	8	.	.		
Freimut-Ottschwanken	442	9.1	.	23.4	4.	-1.0	28.	-2.8	28.	66	5.0	84	122	18	14	2	3	1	1	4	7	14	.	.	1	.	163		
Rottwil	585	9.5	-0.3	25.0	4.	-5.0	25.27.	-7.0	25.	73	4.9	84	165	16	15	3	2	2	3	1	6	13	.	.	8	.	180		
Einnendungen-Mündungen	204	9.8	.	25.2	4.	-3.4	27.	-5.5	27.	71	5.0	72	126	17	13	1	3	.	1	3	6	12	.	.	1	2	.		
Schwabach	904	5.3	.	19.4	4.	-4.2	28.	-7.7	27.	77	5.0	188	205	20	15	9	12	8	.	.	6	12	.	.	10	1	168		
Trübing	482	6.3	-0.3	20.9	4.	-3.2	27.	-7.6	27.	74	4.8	203	214	20	16	7	9	11	2	.	7	12	.	.	6	.	.		
Kornfeld/Schw.	767	5.8	-0.2	21.6	4.	-7.6	27.	-7.6	27.	79	4.7	134	200	19	16	7	12	6	.	.	7	10	.	.	11	.	16	98	
Biberach/Riß	534	7.8	0.3	22.9	4.	-2.0	25.	-5.1	25.	68	4.8	92	200	18	14	3	2	.	3	6	11	.	.	3	.	160			
Schönwald/Schw. (I)	1031	4.4	.	13.5	4.	-5.5	28.	-6.2	25.	76	5.5	224	.	20	16	10	12	9	.	4	17	.	.	13	1	176	94		
Kluppenack (Wst)	773	5.3	-0.1	20.2	4.	-4.7	28.	-0.9	27.	72	5.2	68	124	18	14	2	11	8	12	2	3	12	.	.	12	.	169		
Oberrotwil (I)	223	10.5	0.6	25.7	4.	-0.9	27.	-3.6	27.	64	4.9	55	132	16	11	1	2	.	1	3	6	12	.	.	6	.	147		
Siemaringen	650	6.7	0.5	25.6	4.	-4.6	25.	-7.4	25.	70	5.2	64	131	19	13	1	6	1	2	1	5	10	.	.	2	.	.		
Lilienhalde bei Ihlingen	284	9.1	0.0	24.8	4.	-2.1	27.	-3.5	27.	71	4.8	63	119	14	13	1	2	.	1	1	5	10	.	.	10	.	.		
Villingen	698	5.9	-0.1	22.1	4.	-6.1	25.	-10.2	27.	77	5.1	91	163	17	13	3	6	2	.	1	3	4	13	.	.	1	.	.	
Freiburg (Br.-Herdern)	255	10.6	0.3	25.8	4.	-1.0	27.	-5.2	27.	68	5.4	86	132	15	12	4	1	1	1	3	4	13	.	.	9	.	.		
Sankt Mergen	900	5.9	0.0	20.5	4.	-3.8	28.	-7.2	25.	72	5.1	173	144	17	14	1	6	2	.	.	7	10	.	.	9	.	161		
Bad Dürrenheim	718	6.4	0.6	21.0	4.	-5.5	27.	-7.4	27.	72	4.6	85	144	15	12	4	2	.	1	1	3	5	16	.	.	9	.	166	
Freiburg (Br. (WA))	269	11.0	0.7	26.2	4.	0.4	28.	-2.4	27.	59	5.6	53	108	14	11	1	2	.	1	3	5	10	.	.	1	.	.		
Mengen (Br.)	215	10.8	1.2	26.3	4.	-1.5	27.	-3.1	25.	70	5.2	90	158	17	13	3	4	1	1	1	3	15	.	.	6	.	184	108	
Aulendorf	571	7.4	0.2	22.0	4.	-6.0	25.	-8.1	27.	76	4.6	80	114	17	14	1	6	2	.	1	6	9	.	.	6	.	180		
Donaueschingen (I)	637	6.5	0.3	21.6	4.	-7.2	27.	-7.5	27.	77	5.0	157	209	17	15	7	9	3	.	2	3	10	.	.	13	.	174		
Tübing-Neustadt (I)	635	4.8	-0.4	21.0	4.	-7.2	27.	-7.5	27.	77	5.0	157	209	17	15	7	9	3	.	2	3	10	.	.	13	.	174		

Table 5 ctd.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Friedenweck	924	5.0		21.8	4.			-5.2 27.		73 4.8	139	18 15	5 10					4	1		5 10							158	
Prallendorf Brunnhausen	638	5.5	-1.5	21.0	4.			-5.8 25.		74 5.1	81 147	18 14	2 4					1	1		2 4 13								
Beimgarten (BW)	212	10.4		25.6	4.			-1.2 25.		60 5.0	57 136	14 12	1 2								4 10								165
Unterzarten	883	4.6	-0.4	20.6	4.			-7.0 27.		78 5.0	191 242	18 15	8 9					7			4 11								161
Obermunster	545	8.2		23.6	4.			-1.5 25.		68 5.3	141 164	17 14	5 5					2	5		1 4 13								137
Feldberg/Schw. (Wst)	1486	1.3	-0.1	12.6	4.			-8.6 28.		82 6.1	214 193	17 16	11 17					30	20		3 2 18								143 93
Lenzkirch	818	5.0	-0.4	21.8	4.			-5.5 27.		76 4.8	153 222	19 14	6 8					5	3		6 12								163 107
Aach, Kr. Konstanz	478	7.9	-0.3	24.6	4.			-3.6 25.27.		74 5.1	67 146	17 13	2 3								1 3 14								
Stoekach	475	7.2		22.9	21.			-3.1 25.		73 5.0	100 196	17 14	4 1								3 4 13								
Meinenschwand	885	4.6	-0.2	20.3	4.			-7.9 27.		75 5.3	236 219	17 17	11 10					6			2 3 14								167
Schilke	983	4.4	0.0	20.2	4.			-5.0 25.		80 4.5	162 188	19 17	8 9					1	2		1 5 12								142
Badenweiler	412	10.0	0.8	25.2	4.			-1.6 27.		63 4.9	79 111	16 14	1 2								1 5 12								166 103
Ravensburg 1)	435	8.5	0.1	23.2	4.			-4.5 25.		73 5.2	83 126	16 15	3 3					1	1		2 2 13								
Friedrichshausen	852	5.7	-0.5	21.2	4.			-4.0 25.		78 5.0	171 151	18 17	8 11					5	3		5 12								
Sankt Blasien 1)	1008	4.7	-0.5	18.6	4.			-6.6 27.		71 5.0	171 206	18 17	6 11					8	4		3 11								167
Hochenschwand	600	8.5	-0.3	22.6	21.			-1.0 25.		67 4.8	90 176	15 14	3 1								4 10								
Radolfzell	691	8.1	-0.4	22.3	21.			-5.0 25.		73 5.5	167 153	17 15	7 9					4	1		1 2 17								167
Isny	443	8.7	0.1	23.5	21.			-2.0 25.		66 5.4	96 192	15 15	3 5								4 3 12								195 109
Konstanz (Wewal)	383	8.5	0.1	24.2	4.			-3.5 25.		71 4.9	126 214	17 14	5 3								1 3 9								
Wutöschingen	400	8.4	-0.2	24.9	4.			-2.0 27.		72 5.2	148 183	19 15	4 3					1	4		3 3 15								170
Schopfheim	408	8.3		23.8	4.			-2.7 25.		71 5.5	95 158	16 16	3 3								2 3 15								
Erstkirch Wolfzinnen	264	9.2		26.0	4.			-0.8 27.		69 4.9	74 140	17 12	3 1					1			3 5 8								
Friedlingen	330	8.8	-0.7	25.2	4.			-1.5 27.		73 4.7	166 218	17 15	5 3								5 10								
Waldbühl	723	5.9		21.9	4.			-5.0 27.		74 5.2	167 194	17 16	5 8					2	11		3 5 14								161
Reichenhain (Kühnmoos)	287	9.9	0.1	25.8	4.			-1.3 27.		65 5.0	129 205	15 14	6 2								1 2 5 13								161
Rhemtellen	355	9.0		24.8	4.			-1.1 27.		65 4.8	165 262	16 15	5 2								1 4 4 12								
Bad Säckingen																													
Bayern																													
Osseim/Rhon	315	7.5		23.0	21.			-4.7 26.		75 6.1	39 111	15 10						1			15								
Tessendorf/Wickendorf	560	5.1	-0.9	20.5	21.			-5.5 26.		81 5.5	91 149	18 12	3 8					3	2		3 16								
Langenleiten	520	7.3	-0.3	21.4	21.			-4.5 26.		69 5.4	69 108	17 14	2 6								3 14								
Hof-Hohenhaus (Wst)	557	5.5	-0.2	20.9	5.			-3.8 26.		78 5.8	51 106	16 12	2 7					5	2		3 15								145 81
Göhring (Wst)	337	7.8	-0.3	24.3	21.			-5.2 26.		76 5.6	47 112	18 14						4	1		3 4 15								146 76
Kronach	305	7.7	0.3	23.3	21.			-3.1 26.		71 6.5	55 112	16 13	2 3						1	1		1 19							
Bad Kissingen (Wst)	262	8.5	-0.1	24.4	21.			-2.9 26.		68 5.4	53 120	16 13							2		1 3 11								147 80
Sch(Ost. 1)																													
Oschmitz	553	5.4	-0.6	22.1	5.			-4.9 27.		79 5.5	72 114	17 13	2 8					3	3		1 3 13								
Kahl/Main	110	9.8	-0.1	24.5	4.			-0.7 26.		69 5.5	42 84	16 10							1		2 3 14								
Schwenfurt	240	8.6	-0.5	24.7	21.			-3.8 26.		71 4.8	33 92	16 9									1 6 11								
Stemnach b. Lohr/Main	151	8.7	0.5	23.9	21.			-2.1 26.27.		72 5.4	58 116	16 13									2 8								
Fichtelberg/Ost.	705	5.0	-0.9	20.5	5.			-4.2 26.		77 5.7	74 109	20 14	2 11					4	9		2 1 15								142 79
Bayreuth	330	7.3	-0.3	23.5	21.			-3.0 27.		77 5.8	46 105	16 13						3	1		5 1 12								160 94
Baden (Wst)	239	8.5	0.1	24.3	21.			-2.7 26.		71 5.8	39 98	16 11									3 18								
Friedenau	515	5.2	-0.5	22.1	5.			-5.2 27.		72 5.4	42 105	17 11						6	2		1 3 14								
Wurz/Jung (Wewal)	268	8.8	-0.5	23.8	21.			-2.9 27.		67 5.3	31 69	15 10	2 4								1 5 12								167 85
Gebwinsten	450	7.2	0.0	23.0	21.			-4.0 26.		68 4.8	62 115	14 13	2 4								1 5 17								
Alfgraben	750	5.5	0.0	20.0	5.			-6.3 28.		78 5.5	61 86	17 13	1 10					4	5		1 5 17								
Altshausen	127	9.0		22.8	4.			-1.3 25.		69 5.4	57 112	16 13	2 1								3 14								158 87
Miltenberg	438	7.3	-0.1	22.4	5.			-4.1 27.		73 5.4	38 93	16 11						3	1		4 14								161 101
Wenden/Ost (Wst)	270	8.4	0.1	23.7	5.			-1.7 25.		69 4.9	45 107	15 11	2 2								1 4 13								
Erlangen	333	8.3	0.0	24.1	21.			-2.0 26.		71 5.1	31 78	15 14						3	1		1 4 13								
Neustadt/Ansb.	340	8.6	0.3	23.9	21.			-4.8 26.		65 5.3	23 56	14 7									5 12								
Uffenheim																													

Table 5 ctd.

April 1985

Station	Höhe über NN m	Lufttemperatur in °C										Zahl der Tage										Sonnen- schein- dauer in %					
		Mittel		Abweichung		höchste	Datum	tieftste	Datum	in % am Ende	Datum	Luftfeuchtigkeit %	Bewölkung %	Niederschlag mm		Schnee fall mm >0.1	Schnee decke cm >0.1	Nebel	Gewitter	heitere	trübe	heiße Tage	Sommertage	Fröstage	Eisstage		
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1																											
Nürnberg-Kraftshof (Flugh.)	310	8.5	0.3	23.6	5.	-2.1	17.	-3.5	27.	71	5.2	39	98	14	10	3	3	1	1	3	11	1	1	5	180	95	
Pommelsbrunn	368	6.8	-0.9	23.8	5.21.	-4.2	27.	-4.5	27.	73	4.7	73	128	16	14	2	3	2	2	6	11	1	1	8	180	95	
Amberg-Untermarsricht	386	7.4	-0.6	23.0	21.	-5.4	27.	-5.4	27.	71	5.1	36	95	17	13	3	3	2	2	6	11	1	1	8	180	95	
Obervechtach	498	6.3	-0.5	21.3	5.	-4.8	27.	-8.0	27.	77	5.5	51	91	15	13	4	2	2	2	6	11	1	1	7	179	91	
Rothenburg o.d. Tauber	406	7.7	-0.2	23.5	21.	-2.0	24.	-4.3	24.	72	5.3	33	69	15	11	3	3	1	1	2	5	1	1	5	179	91	
Schwandorf	372	7.4	-0.4	23.3	21.	-2.7	27.	-6.2	27.	72	4.4	36	84	17	13	4	4	1	1	2	5	1	1	5	179	91	
Ansbach-Clafheim	481	7.0	-0.2	21.9	21.	-1.6	28.	-3.2	25.	74	5.6	33	16	9	2	3	1	1	1	4	14	1	1	8	179	91	
Roth b. Nürnberg	340	7.9	-0.2	23.8	22.	-2.1	18.27.	-3.6	18.	72	4.7	41	98	16	12	3	3	1	1	4	8	1	1	8	163	91	
Cham	420	7.7	-0.2	23.5	5.	-0.5	27.	-0.5	27.	70	5.0	52	111	16	12	5	5	1	1	2	10	1	1	5	163	91	
Parsberg/Opf.	542	7.4	-0.2	22.6	21.	-1.8	27.	-2.3	27.	81	5.4	64	116	16	13	1	7	2	2	1	5	14	1	1	12	131	109
Illtenstein-Kraftwerk	403	6.3	-0.4	21.8	5.	-2.1	25.	-3.5	18.	80	5.9	138	20	17	6	17	30	24	2	3	16	1	1	2	198	109	
Großer Arber (Wst.)	1437	0.4	0.3	15.0	5.	-8.6	24.	-4.6	25.	68	4.8	34	85	14	8	4	4	1	1	2	3	6	1	1	176	93	
Regensburg (Wst.)	366	8.3	0.3	23.1	22.	-2.4	27.	-4.3	27.	70	5.2	39	91	15	11	1	3	2	2	3	9	1	1	3	145	109	
Weidenburg Bay. (Wst.)	422	8.0	0.2	23.2	4.22.	-2.9	25.	-5.1	25.	71	4.9	44	102	15	10	3	3	1	1	4	15	1	1	6	145	109	
Eichstätt	397	7.7	0.2	23.2	21.	-2.5	25.	-5.1	25.	72	5.4	30	75	15	10	3	3	1	1	4	15	1	1	6	145	109	
Nördlingen	425	8.4	0.6	22.8	21.	-2.8	25.	-5.3	25.	71	5.4	46	82	13	9	1	2	2	2	3	13	1	1	2	175	93	
Metten	313	7.7	-0.3	23.1	5.21.	-2.5	25.	-5.0	25.	80	6.1	40	17	9	1	2	2	2	2	5	14	1	1	2	175	93	
Kosching	417	8.0	-0.2	23.2	22.	-3.5	25.	-5.5	25.	77	5.5	81	117	21	13	1	6	2	2	2	5	14	1	1	165	107	
Freyung v. Wald	645	5.8	-0.6	22.9	21.	-2.0	18.	-2.0	18.	69	4.6	22	51	13	7	3	3	1	1	2	8	1	1	3	172	92	
Mallersdorf/Nalb.	410	8.5	0.6	22.5	21.	-7.6	25.	-6.1	25.	70	5.0	31	79	13	9	3	3	1	1	2	8	1	1	3	172	92	
Kaisheim-Neuhof	516	7.4	-0.3	22.3	4.	-3.1	25.	-7.6	25.	67	5.1	46	98	14	11	4	4	1	1	2	8	1	1	3	165	107	
Karlshuld	374	7.7	-0.1	23.1	21.	-2.7	18.25.	-4.0	25.	68	5.1	30	61	15	10	2	2	2	2	3	9	1	1	3	172	92	
Manburg	450	8.2	-0.2	24.0	21.	-2.6	25.	-5.0	25.	71	4.7	57	133	16	12	2	4	1	3	3	11	1	1	3	158	88	
Dillingen Donau	435	8.3	-0.2	23.6	4.	-2.6	25.	-4.9	25.	72	5.1	59	100	16	11	2	4	1	3	3	11	1	1	3	176	92	
Pasau-Oberhaus (Wst.)	409	7.8	-0.4	23.0	5.	-2.3	25.	-3.7	25.	69	4.6	41	89	18	11	1	5	2	2	4	10	1	1	3	195	107	
Kunhausen	436	7.8	0.1	23.0	22.	-2.5	25.	-3.9	25.	66	4.1	36	68	14	10	2	6	1	2	4	11	1	1	5	188	102	
Falkenberg. Kr. Rottal-Inn	490	8.0	-0.4	21.9	22.	-1.6	25.	-3.9	25.	69	4.9	49	104	19	14	3	6	1	2	4	11	1	1	6	169	92	
Angsburg-Mühlhausen (Wst.)	461	7.7	-0.5	22.8	4.	-3.0	25.	-5.0	25.	71	5.0	54	106	17	13	1	4	2	2	4	10	1	1	3	184	92	
Weihenstephan (AMBF)	467	7.5	0.1	22.6	4.	-2.6	25.	-6.0	25.	78	5.0	55	95	17	12	1	6	1	3	4	10	1	1	8	178	103	
Simbach-Inn	360	8.0	-0.3	21.8	5.	-3.0	25.	-8.3	25.	69	4.3	67	120	18	14	2	4	1	1	2	3	13	1	1	162	92	
Kraumbach-Eidenhausen	520	7.1	-0.3	24.4	21.	-5.3	25.	-5.9	25.	73	5.3	42	79	16	12	5	5	1	1	3	3	7	1	1	178	99	
Mahlldorf-Inn (Wst.)	401	7.9	-0.2	22.3	5.	-3.0	25.	-5.3	18.25.	67	4.8	60	102	17	13	2	6	1	2	3	11	1	1	5	178	99	
München-Nymphenburg	515	7.9	-0.1	23.0	4.	-2.7	25.	-8.0	25.	70	4.8	67	108	16	13	2	7	2	2	3	11	1	1	9	178	99	
München-Riem (Flugh.)	527	7.4	-0.2	23.2	4.	-3.5	25.	-3.8	25.	70	5.1	78	17	15	2	6	2	2	2	3	11	1	1	6	178	99	
Kaufung	585	7.1	-0.2	22.2	4.	-2.4	25.	-4.3	25.	73	5.2	77	113	16	12	3	8	2	2	3	11	1	1	5	178	99	
Ehrenberg	573	7.3	-0.1	23.2	4.	-2.7	25.	-4.3	25.	70	5.0	98	144	16	12	4	5	2	1	4	10	1	1	4	167	115	
Trostberg	487	7.8	-0.1	23.5	5.	-3.9	25.	-6.8	25.	70	5.0	98	144	16	12	4	5	2	1	4	10	1	1	4	191	115	
Memmingen	595	7.2	0.0	22.2	4.	-3.3	25.	-6.5	25.	69	4.8	92	148	18	15	3	6	2	2	3	10	1	1	6	178	105	
Kaufbeuren	720	6.6	0.0	21.4	4.	-4.7	25.	-6.8	25.	72	5.3	127	179	15	14	6	7	3	2	3	10	1	1	7	139	95	
Attenkam	665	6.0	-1.0	21.2	4.	-4.4	25.	-7.8	25.	68	5.2	83	122	14	12	2	7	3	2	1	12	1	1	7	154	95	
Kotzing 1)	446	8.7	0.5	24.0	4.	-1.0	25.	-1.3	25.	72	5.1	84	117	13	12	4	4	3	2	3	12	1	1	3	167	115	
Rosenheim	977	5.4	-0.2	21.1	4.	-5.6	28.	-7.8	25.	69	5.0	80	110	15	13	2	12	3	3	5	12	1	1	13	191	115	
Hohenpeissenberg (Observatorium)	705	6.1	-0.2	22.4	4.	-4.7	25.	-5.8	25.	74	5.3	151	178	16	14	4	11	3	3	5	12	1	1	6	178	105	
Kempten (Wst.)	1832	-0.4	-0.5	12.0	4.	-11.2	28.	-10.4	25.	77	5.6	158	16	14	4	16	30	20	1	3	13	1	1	23	139	95	
Wendelstein (Wst.)	695	5.3	-0.4	22.3	4.	-4.5	25.	-6.3	25.	74	4.9	143	109	17	13	6	10	2	2	3	12	1	1	9	154	95	
Reit im Winkel	796	6.5	0.2	22.2	4.	-4.7	25.	-5.0	25.	68	4.6	121	134	16	15	4	10	3	2	1	8	11	1	7	185	130	
Schwangau-Horn	719	6.5	-0.1	24.3	4.	-4.1	25.	-7.2	25.	70	5.5	111	131	17	13	3	9	4	2	1	13	1	1	13	165	130	
Garmisch-Partenkirchen (Wst.)	719	6.5	-0.1	24.3	4.	-4.1	25.	-7.2	25.	81	5.8	264	156	20	17	3	20	30	24	1	3	15	1	1	30	175	108
Zugspitze (Wst.)	2960	-7.7	-0.8	9.3	4.	-17.7	29.	-17.7	29.	81	5.8	264	156	20	17	3	20	30	24	1	3	15	1	1	30	175	108
Oberstdorf (Wst.)	810	5.4	-0.2	23.0	4.	-3.7	18.	-6.4	25.	68	5.5	192	168	20	17	6	11	7	3	4	14	1	1	10	163	94	

April 1985

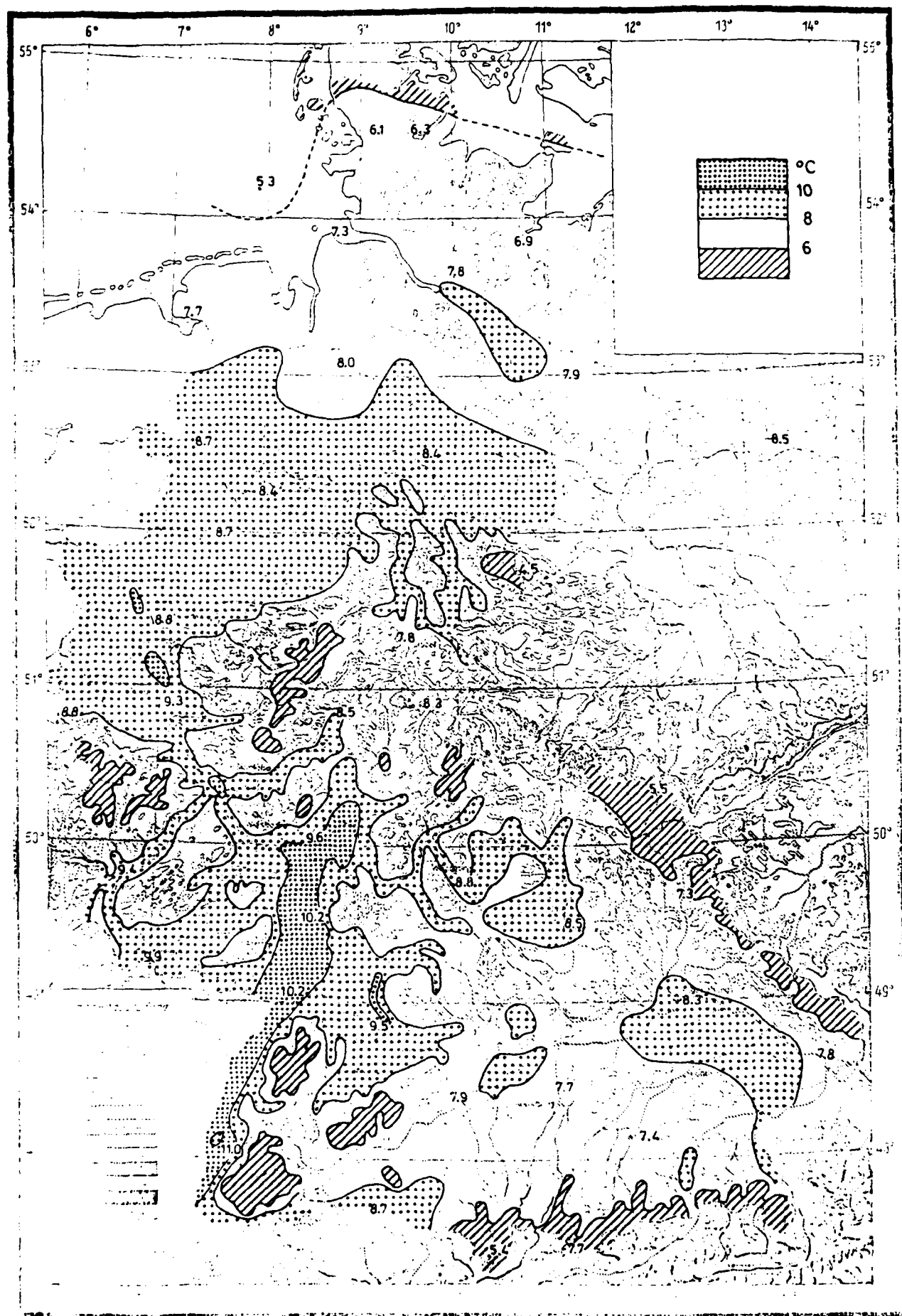


Table 5 ctd. (precipitation in mm)

April 1985

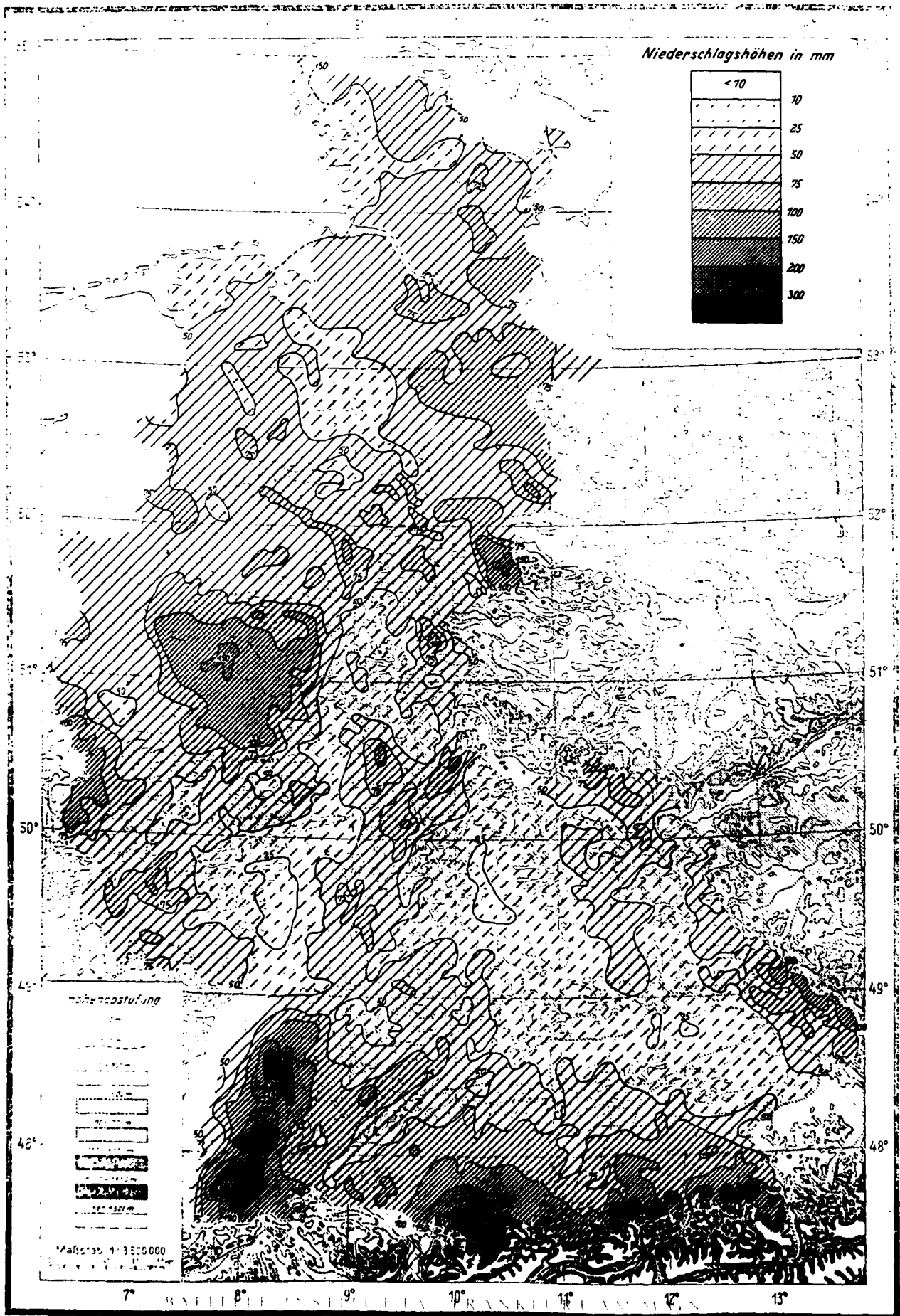


Table 5 ctd. (precipitation in % of 1931 - 1960 mean values) April 1985

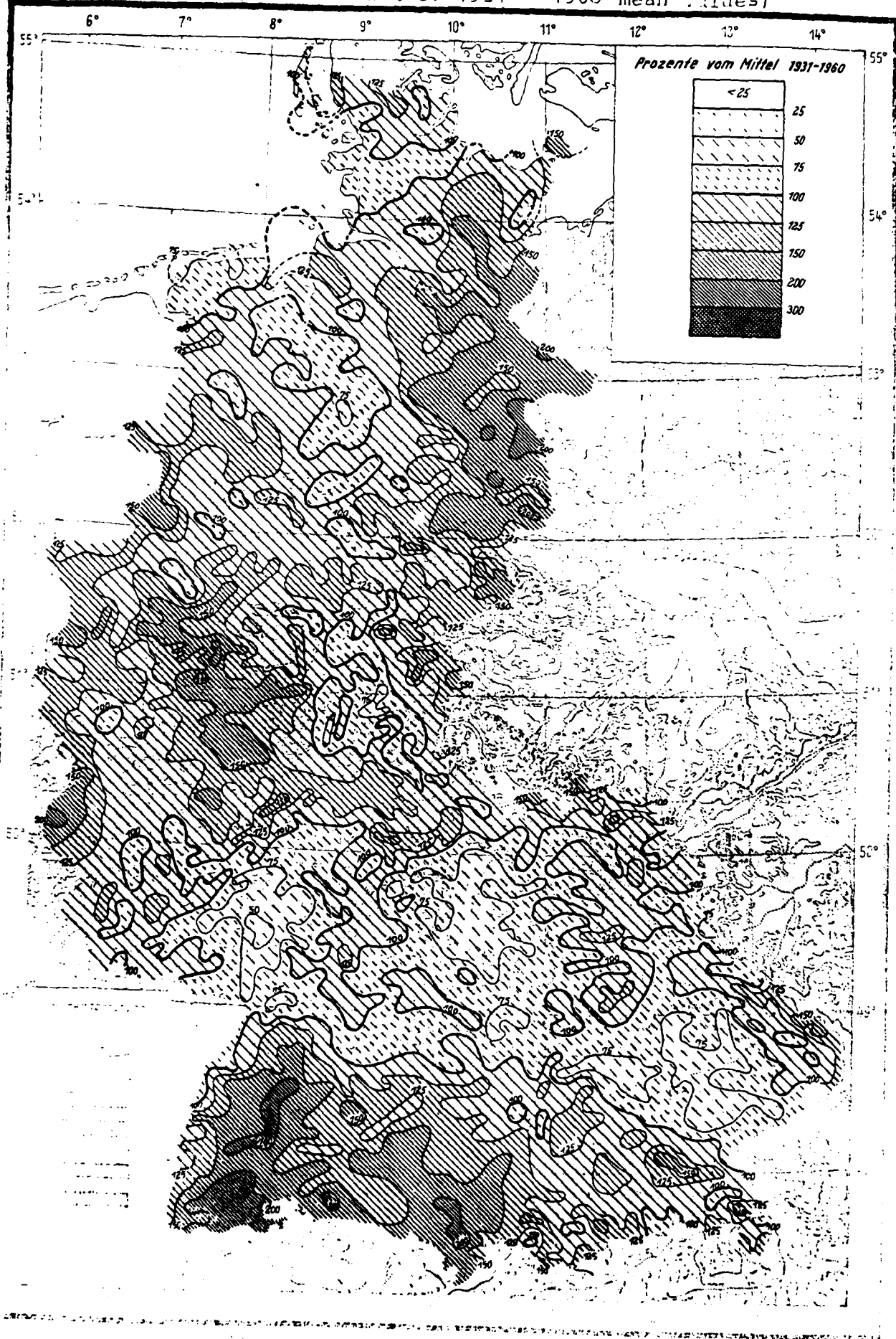


Table 5 ctd. (air temperature in % of 1931 - 1960 mean values) April 1985

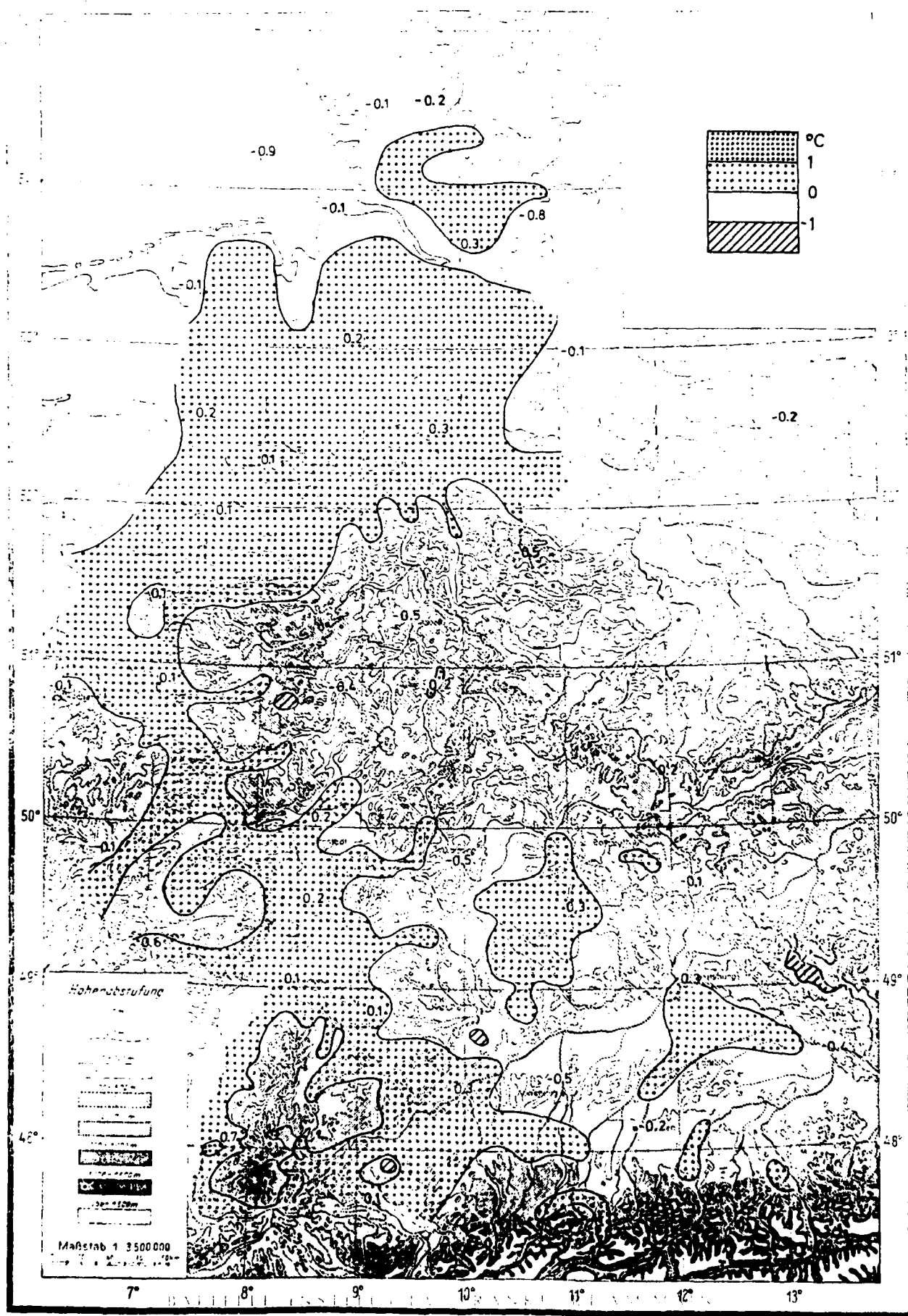


Table 6 Meteorological/Climatological Data for the Areas of Investigation (May 1985)

Mai 1985

Monatswerte

Station	Höhe über NN in m	Lufttemperatur in °C					Luftfeuchtigkeit					Zahl der Tage										Sonnen schein- dauer in %					
		Abweichung 1	Mittel	höchste	Datum	tiefe	Datum	tiefe am Erde tauen	Datum	Luftdruck in hPa	Bewölkung 0-8	Höhe in mm	in %	Niederschlag			Nebel in mm	Gewitter	heitere	trübe	heiße Tage	Sonnentage	Frosttage	Eisstage	in %	**)	
														in mm	0-1 mm	1-10 mm											
Schleswig-Holstein																											
Leck auf Sylt (Wst)	26	12.0	1.2	26.2 27.		2.0	3.	0.1	3.	73.4	4.6	26	65	6	3	1		3	2	5	9	1			257	102	
Leck (BW)	7	11.9	1.1	28.1 27.		-0.5	3.	-1.9	3.	74.4	4.4	20	77	12	8			3	1	6	9	2			233		
Flemling (Schäferhaus)	41	11.7	0.7	27.0 27.		0.2	1.	-1.5	1.	74.4	4.3	37	77	11	8			1	1	5	13				212	83	
Wyl-Föhr	1	12.1	0.5	22.5 27.		0.8	1.	-1.8	3.	76.4	4.9	16	40	8	6			1	1	5	13				235		
Stoltehuil I)	26	10.9	0.5	22.5 27.		1.1	1.	0.2	1.	80.4	4.2	44	94	11	8			2	10	9					212		
Schleswig (WA)	43	11.8	0.8	27.5 27.		0.5	1.	-0.2	1.	75.4	4.7	26	46	9	8			1	5	4	9				235	95	
Westmarkdorf (Fehmarn I)	1	10.1	-0.7	25.5 27.		2.6	3.	1.9	3.	83.4	4.5	52	24	13	9			6	4	6	11				231		
Schwesung (BW)	28	11.8	0.8	28.6 27.		0.4	3.	-1.2	1.	76.4	4.6	12	25	9	4			2	4	6					214		
Kiel-Kronshagen (Wst)	17	12.1	0.7	28.2 27.		0.4	1.	-1.3	1.	75.4	4.4	34	71	10	7			1	5	8					202	81	
Hohwacht	10	10.7	-0.3	26.5 27.		1.7	4.	0.7	4.	80.4	4.3	44	92	10	6			2	1	5					233		
Erdle I)	18	12.1	1.0	28.8 27.		1.2	1.	0.4	1.	75.4	4.8	21	35	10	6			1	3	10					219		
Holn (BW)	10	11.8		29.1 27.		0.3	1.	-1.6	1.	67.4	5.5	22	33	6	3			3	4	9					238		
Sankt Peter-Ording	4	12.2	1.0	29.0 27.		0.5	1.	-2.2	1.	76.4	4.7	16	33	6	3			1	3	9							
Rendsburg	8	12.2	0.9	30.0 27.		1.7	1.	-0.8	1.	74.5	4.1	24	43	10	5			1	5	13					132	95	
Heide/Holstein	14	11.0	-0.4	27.8 27.		1.5	3.	-0.5	3.	81.5	5.0	56	117	9	7			1	1	13					202		
Heide/Holstein	12	12.4	0.7	29.8 27.		-0.1	1.	-1.5	1.	71.4	4.7	31	55	9	6			7	1	3							
Heide/Holstein	4	10.6	0.3	20.2 26.		2.7	2.	-2.6	1.	83.4	4.7	7	16	8	2			2	4	9							
Pin (See I)	24	12.2	0.7	29.2 27.		1.8	1.	0.0	1.	75.4	4.7	31	55	11	6			2	4	9							
Holtenstedt	50	11.9	0.3	28.9 27.		1.4	1.	-0.5	4.	78.4	4.5	32	57	10	6			1	8	9							
Neumünster	80	12.0	0.7	29.0 27.		1.2	1.	0.0	1.	78.4	4.0	23	40	9	6			1	10	7							
Heide, Kr. Dithmarschen I)	2	12.9	0.8	29.5 27.		0.6	1.	-1.1	1.	71.4	4.1	21	40	10	4			1	5	6					225		
Travemünde I)	9	11.0	-0.5	29.2 27.		1.7	1.	1.0	1.	77.4	4.2	28	58	7	6			3	2	9					238		
Wahlstedt	45	12.5	1.0	28.9 27.		1.7	3.	-0.3	1.	71.4	4.5	18	58	8	6			1	8	12					215	86	
Lubeck (Wst)	14	12.1	-0.1	30.4 27.		0.6	4.	-1.9	4.	74.4	4.7	32	57	9	5			2	3	4					206		
Brand-Hornet (Wst)	9	12.6	1.3	30.0 27.		0.3	1.	-2.1	1.	80.4	4.8	23	56	10	7			3	4	7					208		
Glückstadt I)	2	12.8	0.6	30.3 27.		2.3	1.	0.4	1.	76.4	4.7	30	56	10	7			4	1	6					200		
Quickborn (Femmeldehnengruppe)	13	12.9	1.3	29.2 27.		1.2	4.	-0.9	4.	74.4	4.6	20	78	6	4			4	1	5					208		
Ahrenburg-Wulfdorf (AMBIF)	46	12.3	0.7	29.0 27.		0.8	4.	-2.5	4.	74.4	4.4	47	78	6	4			1	1	5							
Grambek	27	13.4	1.3	29.4 27.		-0.4	4.	-2.1	4.	73.4	4.4	31	63	10	6			4	7								
Hamburg-Fuhlsbüttel (Flugh.)	13	13.2	1.2	29.2 27.		0.9	1.	-1.4	4.	72.4	4.5	33	60	7	2			3	1	2					234	102	
Bremerhaven (Wewa)	7	13.3	1.3	29.7 27.		3.2	1.	1.7	1.	75.4	4.8	12	21	10	5			2	1	3					224	67	
Bremen (Flugh.)	4	13.9	1.8	29.4 27.		0.1	1.	-2.4	1.	74.5	5.3	32	57	11	7			3	3	1					213	62	
Niedersachsen																											
Cuxhaven (Wst)	5	12.5	0.6	29.9 27.		3.0	1.	-2.0	1.	81.4	4.7	10	19	8	2			1	4	9					235	92	
Wangerooge	3	11.4	0.5	29.7 27.		2.8	1.	2.2	1.	83.7	5.0	18	38	11	6			5	1	21							
Langeoog	5	11.7	0.8	30.0 27.		3.1	1.	1.4	1.	83.5	5.0	16	36	9	5			1	3	8							
Norderney (Wst)	11	11.7	0.7	30.3 27.		3.1	2.	3.0	2.	81.4	4.8	13	30	11	4			5	1	4					220	94	
Bederkesa	27	13.4	1.5	31.0 27.		0.1	1.	-0.3	1.	74.4	4.6	14	24	8	4			2	1	5							
Wilhelmsbaven	1	12.9	1.1	28.6 27.		1.2	1.	-1.3	1.	78.4	4.3	22	42	11	7			1	5	6					218		
Jever (BW)	7	12.9	1.3	30.5 27.		0.7	1.	-1.8	1.	72.4	4.8	19	38	11	8			5	1	4					235		
Jork	1	13.6	1.2	31.0 27.		0.0	1.	-1.7	1.	70.4	5.0	66	81	7	3			1	2	10							
Bremervörde	5	13.2	1.1	31.5 27.		-1.4	1.	-3.6	1.	72.4	4.8	13	22	9	5			1	1	8					214	91	
Aurich	4	12.7	1.2	29.8 27.		-0.2	1.	-2.0	1.	77.5	5.8	16	29	8	4			1	1	14							
Emden-Neserland (Wst)	5	13.2	1.4	29.9 27.		3.0	3.	1.0	3.	74.5	5.5	19	35	8	3			3	1	2					212		

1) Sonnenscheindauer nicht direkt am Standort der Station registriert *) vom Mittel 1931-1960 **) vom Mittel 1951-1960
Abkürzungen: WA = Wetteramt, Wewa = Wetterwarte, Wst = Wetterstation, AMBF = Agrarmeteorologische Beratungs- und
Forschungsstelle, BW = Bundeswehr, Kht = Klimahauptstation, Nst = Niederschlagsstation

Table 6 ctd.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Brake (Unterweser)		5	13.1	1.1	29.5	27.	0.4	1.	-1.5	1.	76	5.2	15	29	10	6					4	1	1	12		3			217	
Buchholz i. d. Nordheide		77	13.0		28.8	27.	-1.6	4.	-3.0	4.	75	5.8	46	37	7	4	2				3	1	1	13		3	1		226	
Teichmoor		6	13.8	1.6	30.3	27.	-0.2	1.	-1.2	1.	78	4.8	20	37	9	6					3	1	2	6		1	1		220	
Lüneburg		11	14.1	1.3	30.0	27.	1.1	4.	-1.5	4.	73	4.9	29	54	9	5	1				1	2	5	10		1	3			
Oldenburg I)		5	13.6	1.0	31.0	27.	1.5	1.	-1.6	1.	73	5.4	29	57	10	8	1				1	2	3	13		1	3			
Oldenburg (Wunne)		24	14.2	1.5	30.0	27.	1.0	1.	-1.6	1.	70	4.8	36	61	10	9	1				3	1	4	10		1	3		190	
Freisoy the Falewechlerdamm		8	13.8	1.8	30.8	27.	2.6	3.	-0.7	1.	71	5.1	22	42	11	7	2				3	2	2	11		1	3		221	
Sollau (Wst)		77	14.1	1.7	30.8	27.	0.2	1.	-2.4	1.	72	5.5	42	71	11	9	2				3	3	1	1		1	3		221	
Darpen		6	13.4	1.3	30.9	27.	1.5	3.	-2.0	3.	75	5.4	26	71	7	5	1				4	1	1	12		1	2		213	
Uelsen		45	14.1	1.6	29.8	27.	-0.6	4.	-2.0	4.	74	4.3	39	75	11	6	1				3	2	9	9		1	3		217	
Uelshorn (Wst)		17	14.1	1.2	30.1	27.	0.6	3.	-1.0	4.	72	5.2	38	76	10	5	1				4	3	1	1		1	3		210	
Althorn (BW)		48	13.6		30.3	27.	3.2	2.	1.9	3.	71	5.4	24		11	7					5	3	2	11		1	3			
Bassum (Luftsch. Warnumf)		53	13.7		29.0	27.	2.7	1.	-1.0	1.	72	5.1	20		11	7					2	2	10		1	3	2			
Unterlab		98	13.8		30.8	27.	-1.4	4.	-2.9	1.	68	4.9	45	83	12	7	1					3	5	15		1	3		192	
Lönneen		36	14.1	1.6	31.0	27.	3.0	3.	-1.5	3.	71	6.3	33	59	9	6	1				1	3	2	12		2	3			
Hankensbüttel		84	13.8	1.3	31.0	27.	0.0	1.	-1.6	1.	73	5.1	51	96	10	7	2				1	5	2	12		2	3			
Nienburg		26	14.7	1.7	30.5	27.	3.5	2.	2.5	2.	69	5.2	17	33	12	6	1				1	2	4	12		1	5		201	
Lingen (Wst)		21	14.5	1.5	30.7	27.	3.0	2.	1.6	3.	69	5.1	42	78	13	6	1				1	4	9	1		2	5		191	
Althausen		48	14.0	1.8	29.2	27.	4.0	2.	2.5	4.	74	4.1	28	56	5	4	1				1	2	5	9		1	3			
Hannover-Langenbagen (H.ugh)		53	14.3	1.7	30.5	27.	2.7	1.	0.2	4.	71	5.2	37	71	12	7	1				5	5	2	7		1	3		194	
Nordhorn		24	13.4	0.6	30.2	27.	2.8	2.	1.6	2.	67	4.5	48	92	12	6	1				2	5	2	7		1	3		86	
Wolfsburg-Fallerleben		74	14.9	1.9	29.8	27.	1.3	1.	-0.1	1.	68	4.0	34	67	13	8	2					4	8	6		1	3		231	
Braunschweig-Volkeroode (Wst)		81	14.2	1.3	29.1	27.	1.4	4.	-1.6	4.	72	4.6	52	96	13	8	2					6	4	7		1	3		104	
Osabrück (Wst)		95	14.2	1.5	30.0	27.	3.2	2.	2.2	2.	70	5.6	34	68	11	7	1				2	3	2	14		1	3		199	
Annaburg		395	12.4		28.8	27.	0.6	2.	0.2	4.	77	5.1	43	62	14	9	1				15	3	1	1		1	3		90	
Helmsdorf		140	14.7	1.9	27.1	14.	0.4	4.	-1.6	4.	65	5.3	30	57	14	7	1					5	1	12		1	3			
Hildesheim		100	14.3	1.5	29.8	27.	1.0	4.	-1.2	4.	73	4.9	73	124	12	7	2					4	4	12		1	3			
Hann.		64	15.0		29.9	27.	3.0	4.	-1.1	4.	75	4.6	54	100	12	6	1					2	7	6		10	1	1		
Salzreiter Ringelheim		130	14.3		29.7	27.	0.4	4.	-0.4	4.	71	4.6	73	135	12	11	3					6	4	11		1	3		197	
Bad Harzburg		260	13.7	1.4	30.1	27.	0.6	3.	-0.7	4.	72	4.9	108	157	16	11	3					5	3	12		1	3		223	
Hahnenke		553	11.7	1.4	26.6	27.	-0.5	4.	-4.1	4.	80	4.7	89	101	12	12	1					6	5	6		1	3		221	
Schlenkerberg		504	11.8	1.4	26.2	27.	0.0	2.	-3.7	4.	79	3.5	112	13	10	5	2					7	7	9		1	3		186	
Holzmünden		128	14.2	1.3	29.4	27.	2.2	4.	-0.4	4.	65	4.8	54	95	13	5	2					1	5	3		1	3		181	
Embeck		105	14.8	2.1	30.4	27.	0.5	4.	-1.0	4.	69	5.5	45	82	12	10	1					2	4	8		1	3		209	
Bad Grund		300	13.2		28.8	27.	-0.6	4.	73	4.0	43	54	45	82	12	9	1					4	8	9		2	2		210	
Lausdal		563	11.6	1.4	26.4	27.	-2.2	4.	76	4.4	96	116	12	11	4	3	6				2	5	6	9		2	2		216	
Altenu		495	11.4	1.4	27.0	27.	-3.0	4.	84	4.0	84	4.0	91	126	14	12	3				2	5	4	8	10	1	2		197	
Holzmünden-Silberborn		440	12.0		26.4	27.	0.0	3.	-5.3	4.	71	4.4	91	126	14	12	3				2	5	4	8	10	1	2		206	
Braunlage (Wst)		407	11.4	1.5	25.3	27.	-1.0	4.	75	5.3	61	76	11	7	3	4	6				1	4	3	12		1	3		197	
Bad Landerberg		317	13.4		28.7	27.	-1.5	4.	71	4.6	71	4.6	49	68	10	9	1				4	6	3	12		1	3		206	
Göttingen (Wst)		175	14.2	1.3	30.2	27.	0.6	4.	-1.9	4.	70	5.3	52	93	11	8	1					2	4	3	11		1	3		188
Berlin-Dahlem (Meteorol. Inst.)		51	15.4	1.6	30.5	14.	0.0	4.	-1.3	4.	65	4.4	32	70	9	8	1				1	6	3	7		1	5		237	
Nordrhein-Westfalen																														
Rahden-Vari		42	14.1	1.4	30.2	27.	3.6	3.	2.8	2.	73	5.0	14	31	11	3	1				4	5	2	8		1	3		203	
Bad Salzuflen (Wst)		98	14.5	1.6	29.6	27.	3.1	2.	2.4	2.	70	5.2	31	55	10	8	1				3	5	3	11		1	3		208	
Münster (Wst)		62	14.4	1.6	28.8	27.	3.6	2.	2.6	2.	73	5.0	45	88	12	7	2				3	5	3	11		1	3		202	
Gütersloh		72	14.7		30.4	27.	3.4	2.	3.2	2.	73	4.7	42	84	13	7	1					4	4	10		1	4			202
Buchholt-Liedern (Wst)		21	13.8	1.0	29.4	27.	3.6	2.	3.5	2.	75	5.5	53	96	14	10	1				6	7	2	11		1	2		202	
Bad Lippespringe (Wst)		157	13.8	1.2	28.6	27.	2.6	2.	0.7	4.	73	5.0	50	75	13	7	1				2	5	5	12		1	2		201	
Kleve		45	13.8	0.6	29.0	27.	3.4	2.	3.4	3.	75	6.3	66	114	13	10	3				4	5	18		1	2			193	
Lippstadt-Bokenhorde		92	13.9		28.6	27.	3.0	2.	3.0	2.	73	5.0	73	113	11	9	2				2	4	3	12		1	2		171	
Dortmund		240	13.7	1.4	28.8	27.	2.0	2.	0.9	2.	73	4.0	42	70	14	9	1					6	15	15		1	2			
Borgentreich-Bühne		120	14.1	1.0	29.9	27.	3.3	3.	2.4	3.	77	4.7	74	125	10	8	3	</												

Table 6 ctd.

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Station	Höhe über NN m	Lufttemperatur in °C								Niederschlag								Zahl der Tage										Sonnen- schein- dauer	
		Abweichung °		höchste	Datum	tiefste	Datum	tiefste am Erdboden	Datum	Luftfeuchtigkeit in %	Bewölkung 0-8	Höhe in mm	in %	Niederschlag			Schnee fall decke > 0.1 mm	Schnee > 0.1 mm	Nebel	Gewitter	trübe	heisse Tage	Sommerfrost	Frosttage	Eisfrost	in m	in %		
		Mittel	3											4	5	6												7	8
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Wuppertal-Buchenhofen																													
Ludenscheid	128	14.0	1.5	28.6	26.	3.6	2.	3.5	3.	73	5.4	74	104	16	10	5	.	.	1	4	3	12	.	.	.	.	195	105	
Düsseldorff	444	12.4	0.2	27.0	26.	1.4	3.	0.5	3.	74	5.4	79	93	14	11	3	1	.	8	7	3	14	.	.	.	.	195	105	
Düsseldorff (Saalfriedhof)	37	14.9	1.0	29.5	26.	3.8	2.	3.5	3.	69	5.4	66	110	14	9	3	1	.	5	3	16	.	.	.	.	195	105		
Köln Asten (Wst.)	839	9.6	1.0	24.2	26.	-1.8	3.	-2.7	3.	79	5.6	78	87	14	9	3	4	6	14	5	3	15	.	.	.	.	173	87	
Köln-Wahn (Flugh.)	73	14.4	1.0	29.4	26.	2.7	2.	2.1	3.	72	5.6	83	148	17	9	4	.	.	4	6	3	15	.	.	.	.	176		
Siegen	263	13.8	1.8	29.0	27.	2.3	3.	2.1	3.	70	5.2	91	140	16	12	4	.	.	3	8	4	15	.	.	.	.	154	30	
Aachen (Wst.)	202	13.6	0.7	29.0	26.	3.1	3.	2.6	3.	74	5.5	51	76	11	11	1	.	.	4	6	2	16	.	.	.	.	168		
Bonn-Friedorf	62	14.9	1.3	29.6	27.	1.1	2.	3.1	2.	70	5.7	58	95	16	8	2	.	.	1	7	2	16	.	.	.	.	168		
Euskirchen	176	13.9	1.1	29.1	26.	2.3	2.	2.5	3.	74	5.8	62	105	18	9	3	.	.	7	5	2	15	.	.	.	.	154		
Rosbach	440	11.7	0.9	25.5	26.	1.0	2.	0.5	3.	77	5.8	90	111	19	10	1	.	.	9	3	2	15	.	.	.	.	154		
Sittig	505	11.4		25.5	26.	0.5	2.	-0.5	3.	73	6.2	62		19	11	1	.	.	3	5	1	18	.	.	.	.			
Ilse																													
Arolsen	220	12.5	0.5	27.9	27.	1.5	4.	0.4	2.	75	5.2	67	112	12	11	2	.	.	1	5	3	11	.	.	.	.	177	26	
Witzenhausen	133	13.7	1.0	28.4	27.	0.1	4.	-1.5	4.	79	5.4	59	89	15	9	3	1	.	6	6	10	.	.	.	.	.	199		
Willingen/Uppland	580	10.7	0.9	26.0	27.	0.0	3.	-0.2	4.	75	5.8	76	88	15	11	2	3	1	1	6	4	13	.	.	.	.	177	26	
Kassel (Wst.)	231	14.0	1.4	28.5	27.	1.8	2.	0.0	2.	70	5.2	81	131	15	10	3	.	.	1	5	4	13	.	.	.	.	199		
Waldbeck	376	13.1	1.1	26.4	27.	1.8	3.	0.4	3.	69	5.4	76	143	11	10	2	.	.	5	3	2	10	.	.	.	.	171		
Pechwege	205	14.0	1.3	29.0	27.	-0.3	4.	-2.7	4.	72	5.2	51	95	14	11	1	.	.	2	5	13	.	.	.	.	.	171		
Melungen	190	13.4	0.5	28.9	27.	1.5	4.	0.6	4.	71	5.5	118	193	17	10	4	.	.	2	5	13	.	.	.	.	.	171		
Frankenberg-Eder	290	12.4	1.0	27.7	27.	2.4	2.	-0.5	2.	78	4.8	41	.	6	1	.	.	1	3	4	9	.	.	.	.	.	171		
Bodenkoppel	290	13.1	1.0	27.7	27.	2.3	2.	0.5	2.	71	5.2	72	138	16	6	3	2	1	6	5	6	12	.	.	.	.	171		
Neunkirchen-Hauptsh. (Wst.)	500	12.3	1.8	27.4	27.	0.4	3.	0.0	3.	74	5.1	112	165	17	13	3	2	1	6	5	6	12	.	.	.	.	171		
Bad Hersfeld (Wst.)	212	14.2	1.7	29.7	27.	1.9	4.	0.2	4.	72	5.3	92	156	16	11	3	.	.	3	8	4	12	.	.	.	.	171		
Marburg	195	14.3	0.9	29.6	26.	2.7	3.	0.3	2.	68	5.2	43	83	12	8	1	.	.	5	3	13	.	.	.	.	.	171		
Dillenburg	266	12.6	0.2	27.5	27.	1.5	3.	1.0	2.	74	5.2	75	129	17	10	2	1	.	5	4	13	.	.	.	.	.	171		
Wartenberg-Angersbach	276	13.0	0.8	28.5	27.	1.0	3.	0.2	3.	74	6.1	93	163	17	10	2	1	.	1	6	1	17	.	.	.	.	171		
Gießen (Liebigshöhe, Wst.)	186	16.3	0.8	28.4	27.	3.1	3.	1.0	5.	72	5.5	61	120	15	9	2	.	.	2	6	3	15	.	.	.	.	189	63	
Fulda	255	13.1	1.0	28.5	26.27.	1.8	4.	-2.0	4.	73	5.4	73	135	13	10	1	.	.	2	6	3	15	.	.	.	.	189	63	
Schöten	315	13.5	0.6	27.9	27.	1.5	3.	1.0	3.	71	5.1	108	154	15	12	4	.	.	2	6	3	15	.	.	.	.	189	63	
Wackerkuppe (Wst.)	921	9.5	1.0	23.7	27.	-2.4	3.	-5.6	4.	79	5.3	107	123	17	16	4	.	.	4	6	1	12	.	.	.	.	189	63	
Giebelhain-Herchenhain	608	11.5	0.9	24.7	27.	-0.5	3.	-0.2	3.	78	5.2	119	157	18	12	3	2	1	8	7	2	14	.	.	.	.	160		
Limburg-Lahn	118	14.3	1.3	30.1	27.	3.4	4.	2.0	3.	70	4.8	49	88	16	11	2	.	.	1	8	2	14	.	.	.	.	160		
Bad Nauheim	140	14.0	0.4	28.5	26.27.	2.9	3.	2.2	6.	73	4.6	72	141	18	11	2	.	.	1	8	2	14	.	.	.	.	160		
Mittel-Grundau	155	14.7		29.8	27.	2.6	4.	2.4	4.	74	4.9	84	122	16	12	1	.	.	1	8	2	14	.	.	.	.	160		
Kf. Feldberg/Ts. (Wst.)	805	10.3	0.9	23.7	27.	-1.4	3.	-2.1	4.	78	5.4	64	122	16	12	1	.	.	1	8	2	14	.	.	.	.	160		
Offenbach a. M. (Stadt)	110	15.4	1.0	29.6	27.	3.5	3.	0.0	4.	67	5.0	69	128	15	7	3	.	.	5	5	11	.	.	.	.	185	85		
Wiesbaden (Stad.)	145	14.7	0.6	28.8	27.	2.8	4.	-1.0	4.	75	5.0	79	152	16	11	3	.	.	5	5	11	.	.	.	.	185	85		
Frankfurt a. M. (Flugh.)	112	15.0	1.2	29.5	26.27.	2.1	4.	-0.7	4.	68	4.9	64	119	15	7	3	.	.	8	1	8	.	.	.	.	185	85		
Giesenheim (AMBF.)	118	14.7	0.5	28.6	27.	3.5	4.	1.4	4.	68	5.1	66	104	15	9	1	.	.	1	7	3	10	.	.	.	.	185	85	
Darmstadt (Wst.)	108	15.1	0.5	29.3	26.	2.9	4.	-3.0	4.	68	5.3	94	184	16	9	5	.	.	1	7	3	10	.	.	.	.	185	85	
Lindelsfeld-Winterkasten	445	12.7		26.7	26.	1.2	4.	0.1	3.	78	5.2	142		16	11	6	2	.	8	1	5	11	.	.	.	.	185	85	
Bierfelden	450	12.8	0.7	26.2	27.	0.7	3.	-0.6	4.	72	5.4	185	261	19	13	7	.	.	4	8	.	20	.	.	.	.	185	85	
Saarland																													
Wesirkirchen/Saar	368	13.0		26.7	26.	2.6	3.	0.6	3.	71	5.5	65		18	14	1	.	.	2	5	1	14	.	.	.	.	185	85	
Nennig	153	14.2	0.6	28.6	26.	3.8	3.	2.7	3.	73	6.1	44	67	18	10	1	.	.	1	6	1	17	.	.	.	.	185	85	
Sankt Wendel-Littersweiler	420	13.0		26.2	26.	1.5	3.	-0.5	4.	82	5.4	83		15	11	3	.	.	4	3	14	.	.	.	.	185	85		
Tholey (Wst.)	396	12.8		25.8	26.	2.0	3.	0.1	3.	74	5.4	83		15	10	2	.	.	3	8	3	13	.	.	.	.	185	85	
Hinterdorf	223	13.3	0.2	27.6	26.	3.0	3.	1.0	3.	78	5.3	67	114	12	10	1	.	.	4	4	3	17	.	.	.	.	185	85	
Neunkirchen-Wellesweiler	236	14.7		29.1	26.	0.2	4.	0.2	4.	73	3.9	64	97	16	9	3	.	.	3	3	4	4	.	.	.	.	185	85	
Homburg/Saar	275	13.4	0.3	28.2	26.	-1.5	4.	-3.0	4.	73	5.2	81	123	13	9	4	.	.	5	5	2	10	.	.	.	.	185	85	
Berus (Wst.)	363	13.3	0.5	25.8	26.	2.3	3.	1.7	3.	4.	79	5.6	62	98	17	12	2	.	3	3	13	.	.	.	.	185	85		
Völklingen (KW-Fence)	187	15.1		31.0	25.	3.6	4.	-2.2	4.	70	5.5	35	91	13	9	1	.	.	2	1	2	15	.	.	.	.	185	85	
Saarbrücken-St. Johann	193	14.7	1.1	29.0	26.	1.2	4.	-2.8	4.	73	5.7	60	102	12	9	1	.	.	.	.	.	11	.	.	.	.	185	85	
Saarbrücken-Enselm (Flugh.)	323	13.4	0.3	26.2	26.	2.0	4.			73	5.7						.	.	.	.	.	.	.	.	.	185	85		

Table 6 ctd.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Rheinland-Pfalz																													
Thionville	290	13.6	1.4	28.4	26.		1.8	2.3	0.4	3.	75.5.3	92.137	11	11	11	6	1	1	1	4	3	3	12	1	3	1	1	175	81
Bad Marnberg (Wst)	547	11.6	1.2	25.4	27.		-0.3	2.3	-0.3	3.	78.5.4	99.138	14	12	11	5	2	2	1	10	5	3	14	1	1	1	1	142	
Bad Neuenahr-Ahrweiler	111	14.4	1.5	30.0	27.		3.0	2.3	2.8	3.	78.5.4	61.103	11	11	11	2	1	1	1	3	1	3	12	1	5	1	1		
Neuwied Wollmerhof	421	14.7		29.6	26.		3.5	3.	2.8	3.	70.5.3	58.83	12	9	11	1	1	1	1	1	1	4	14	4	1	1	1		
Niederkirchen	250	13.6		29.2	26.		2.3	4.	0.0	6.	73.5.2	55.75	15	11	11	1	1	1	1	1	1	4	14	4	1	1	1	145	
Koblenz (Süd)	72	15.1	0.9	29.1	27.		4.1	3.	3.1	3.	73.6.1	71.134	14	11	11	1	3	1	1	15	9	1	15	1	1	1	1		
Namberg (Wst)	627	11.1	0.6	24.9	26.		-0.2	3.3	-0.2	3.	77.5.9	50.70	19	12	11	1	1	1	1	1	1	1	16	1	1	1	1		
Mayen	270	15.0	2.0	30.7	26.		-2.9	3.7	0.0	3.	77.5.7	77.151	19	14	11	1	1	1	1	1	1	2	14	1	1	1	1		
Bad Ems	77	15.4	1.8	30.9	27.		4.8	4.	4.0	4.	73.5.3	64.110	11	11	11	4	1	1	1	1	1	1	1	1	1	1	1		
Schneidhans	657	10.3	0.4	25.2	26.		-0.1	2.3	-0.9	3.	81.5.5	69.92	19	11	11	1	1	1	1	1	1	2	16	1	1	1	1	139	
Weinsheim	530	11.1	0.2	25.7	26.		0.6	2.3	0.0	3.	80.6.1	34.47	17	10	11	1	1	1	1	1	1	2	15	1	1	1	1	154	
Manderscheid Lütel	403	12.5	0.7	27.2	26.		1.3	3.	0.4	2.	80.5.6	32.51	17	11	11	1	1	1	1	1	1	2	15	1	1	1	1		
Blankenath	400	12.9	1.1	27.4	26.		1.1	3.	0.3	3.	76.5.5	50.79	10	8	11	1	1	1	1	1	1	2	15	1	1	1	1		
Simmern Wallbach	440	12.0	0.2	25.3	27.		0.5	3.	0.0	3.	76.5.6	60.94	14	11	11	1	1	1	1	1	1	3	15	1	1	1	1		
Manz	125	15.2	0.6	29.6	27.		3.5	4.	0.2	4.	59.5.1	64.133	16	10	11	1	1	1	1	1	1	3	15	1	1	1	1	131	63
Berncastel	120	14.7	0.7	29.7	26.		4.7	3.	3.0	2.	70.5.8	22.38	15	9	11	1	1	1	1	1	1	1	11	1	1	1	1	153	66
Bad Kreuznach	159	14.7	0.7	28.5	27.		3.9	4.	1.9	2.	70.5.4	65.130	16	8	11	1	1	1	1	1	1	1	11	1	1	1	1		
Herrstein	345	12.1	0.3	27.2	26.		2.3	6.	1.3	3.	77.5.3	51.94	16	10	11	1	1	1	1	1	1	2	13	1	1	1	1	146	62
Deuselbach (Wst)	480	12.3	0.7	25.5	26.		1.4	3.	-0.4	3.	74.5.8	35.51	19	12	11	1	1	1	1	1	1	3	10	1	1	1	1	138	75
Trier Stadt	144	14.3	0.5	26.7	26.		4.6	3.	2.4	3.	74.5.1	46.75	18	10	11	1	1	1	1	1	1	3	10	1	1	1	1	163	75
Trier Petrisberg (WA)	265	13.4	0.3	29.3	26.		3.1	3.	1.8	3.	75.6.0	55.89	19	10	11	1	1	1	1	1	1	3	10	1	1	1	1	180	75
Alzey	166	14.6	1.0	29.3	27.		0.2	4.	-1.0	4.	75.5.2	63.140	14	9	11	1	1	1	1	1	1	5	13	1	1	1	1		
Birkenfeld-Fockweiler	395	12.3	0.7	27.6	26.		1.0	4.	-0.8	2.	74.5.3	61.105	13	10	11	1	1	1	1	1	1	1	17	8	1	1	1		
Ruppertsborn	488	12.8	0.0	28.5	26.		0.4	4.	0.5	4.	65.4.3	82.137	11	9	11	1	1	1	1	1	1	1	18	1	1	1	1	141	80
Kuselstein	248	13.9	0.0	28.5	26.		0.4	4.	-0.2	4.	72.6.4	74.128	11	9	11	1	1	1	1	1	1	1	17	1	1	1	1	174	
Weinheim (Wst)	553	12.5	0.7	27.3	26.		0.0	4.	-1.9	4.	72.5.2	65	14	9	11	1	1	1	1	1	1	1	17	1	1	1	1	181	
Neustadt/Wstr (Hlenhof)	125	15.1	1.0	28.8	27.		0.0	4.	-3.2	4.	70.5.5	52.106	15	10	11	1	1	1	1	1	1	1	13	1	1	1	1		
Prinsheim	280	12.3	0.3	28.5	26.		-2.6	4.	-4.5	4.	79.5.5	87.140	17	9	11	1	1	1	1	1	1	1	13	1	1	1	1	169	
Bad Bergzabern I)	180	14.7	0.5	28.5	27.		3.5	2.	1.2	4.	73	60.91	12	10	11	1	1	1	1	1	1	1	8	1	1	1	1		
Baden-Württemberg																													
Wertheim Tüchel	140	14.9	1.6	30.2	26.27.		0.8	4.	-0.5	4.	70.4.3	120.214	14	14	13	1	1	1	1	1	1	4	1	5	1	1	1		
Landa Königshofen-Gerlachshaus	199	14.5		29.4	27.		-1.1	4.	-2.7	4.	70.5.0	94.159	15	13	13	1	1	1	1	1	1	3	17	1	1	1	1	185	74
Mannheim (Wewa)	96	15.3	0.7	29.9	27.		1.2	4.	-2.1	4.	72.5.4	107.195	15	13	13	1	1	1	1	1	1	3	17	1	1	1	1	175	74
Buchen, Kr. Neckar-Oden	270	13.3	0.9	28.2	27.		-1.3	4.	-2.1	4.	72.5.7	95.164	17	12	14	1	1	1	1	1	1	3	16	1	1	1	1		
Bad Mergentheim Neunkirchen	250	13.7	0.8	28.8	27.		-2.0	4.	-3.1	4.	74.5.3	71.115	15	11	15	1	1	1	1	1	1	3	13	1	1	1	1		
Eberbach/Neckar	176	13.8	0.7	28.3	26.		0.0	4.	-2.6	4.	71.5.7	132.200	16	11	15	1	1	1	1	1	1	3	16	1	1	1	1	160	68
Heidelberg I)	111	15.8	0.8	29.5	26.		3.1	3.	-3.0	3.	66.5.2	101.138	19	11	13	1	1	1	1	1	1	3	16	1	1	1	1		
Neudenau	210	14.7	1.1	30.3	27.		0.5	4.	-2.0	4.	77.4.8	132.194	17	14	17	1	1	1	1	1	1	3	16	1	1	1	1		
Ingelheim	209	14.3	1.4	30.0	27.		-0.6	4.	-1.4	4.	71.5.0	177.260	15	13	15	1	1	1	1	1	1	3	17	1	1	1	1		
Philippshaus (Kernkraftwerk)	100	15.2	0.8	29.0	26.		1.0	4.	-0.1	3.	72.5.1	171.248	19	13	17	1	1	1	1	1	1	3	10	1	1	1	1	184	77
Öhringen (Wst)	276	14.0	0.6	28.4	26.27.		-0.7	4.	-3.5	4.	75.5.2	125.176	18	12	14	1	1	1	1	1	1	3	10	1	1	1	1		
Heilbronn	167	15.0	0.4	29.1	27.		0.2	4.	-1.0	4.	71.4.8	160.250	19	12	16	1	1	1	1	1	1	3	10	1	1	1	1		
Eppingen	210	14.0	0.9	27.8	26.		-0.2	4.	-2.8	4.	74.4.8	156.236	16	15	16	1	1	1	1	1	1	3	10	1	1	1	1		
Crailsheim	418	13.2	0.8	29.2	27.		-3.1	4.	-2.8	4.	71.5.6	156.236	16	15	16	1	1	1	1	1	1	3	10	1	1	1	1		
Schwäbisch-Hall-Teurershof	379	13.3		28.0	26.		-1.8	4.	-3.1	4.	79.5.8	176	19	14	18	1	1	1	1	1	1	3	13	1	1	1	1	158	78
Karlruhe (Wst)	112	14.6	0.2	29.2	26.		-0.3	4.	-2.4	4.	73.5.3	98.148	19	12	14	1	1	1	1	1	1	3	13	1	1	1	1	183	73
Rheinwiesen Lorchheim	116	15.0	1.0	31.1	26.		-1.8	4.	-3.5	4.	74.6.2	115.169	16	13	17	1	1	1	1	1	1	3	13	1	1	1	1	156	71
Murhardt	344	12.7	0.8	28.2	27.		-1.8	4.	-2.8	4.	75.5.1	279.340	13	17	18	1	1	1	1	1	1	3	13	1	1	1	1		
Hilwangen/Jagst	443	12.7	0.8	28.6	27.		-2.6	4.	-2.8	4.	78.5.4	112.149	15	15	15	1	1	1	1	1	1	3	13	1	1	1	1		
Gschwend, Kr. Ostalb	492	12.3	0.3	28.0	27.		-3.0	4.	-4.6	4.	78.5.7	176.220	16	16	16	1	1	1	1	1	1	3	15	1	1	1	1		
Pforzheim	245	13.1	0.3	27.5	26.		-0.8	4.	-2.6	4.	77.5.4	135.165	17	15	17	1	1	1	1	1	1	3	15	1	1	1	1	170	

Table 6 ctd.

Station	Höhe über NN m	Lufttemperatur in °C					Luftfeuchtigkeit in %					Tageszeitung					Zahl der Tage										Sonnen- scheinungen in Std m %		
		Abweichung %		höchste	Datum	tieftste	Datum	Anzahl an Erd- beben	Datum	Höhe in mm	m %	Niederschlag			Schnee fall mm	Schnee decke cm	Nebel	Gewitter	Feuchte Tage	Taub- Tage	Sommer- tage	Frost- tage	Eis- tage						
		Mittel	3									4	5	6										7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Stuttgart (Schnarnberg, WA)	314	14.2	0.6	27.9	26.	0.4	4.	-1.8	4.	71	5.6	140	194	18	14	7	.	.	1	10	.	13	.	3	.	.	182		
Bad Herrenalb	351	12.4	0.7	27.0	26.	-1.1	4.	-3.7	4.	78	5.9	203	183	18	14	8	.	.	9	5	2	14	.	3	.	.	119		
Dübel	717	11.1	0.3	24.6	26.	-0.3	3.	-2.5	4.	77	5.7	218	154	18	17	6	3	2	6	3	3	12	.	1	.	.	150		
Schönbach, Kr. Calw	633	11.1	0.1	25.5	26.	-1.2	4.	-2.1	4.	77	5.8	143	157	18	16	5	2	.	6	3	3	15	.	1	.	.	156		
Schwäbisch Grund-Sträßdorf	415	13.2	0.4	28.2	27.	-1.4	4.	-2.7	4.	74	5.8	164	198	15	15	6	.	.	.	8	2	13	.	3	.	.	67		
Baden-Baden	218	13.7	0.2	28.0	26.	-0.6	4.	-1.2	4.	74	5.1	158	178	14	17	6	1	.	1	2	4	9	.	3	.	.			
Wildbad (Stadt)	417	11.9	0.0	27.9	26.	-2.4	4.	-3.4	4.	76	5.2	155	161	19	14	6	1	.	5	3	9	.	3	.	.				
Wildbad-Sommerberg	740	10.9	-0.1	25.6	26.	-0.2	3.	-1.4	4.	77	5.7	175	177	19	17	6	3	2	7	3	12	.	1	.	.	167			
Bühlertal	190	14.5	0.0	29.8	26.	1.8	4.	-1.4	4.	70	5.0	158	158	14	14	6	.	.	1	5	3	8	.	3	.	.			
Rheinau-Frieselt	131	14.2	0.5	29.1	26.	-0.7	4.	-3.9	4.	81	5.7	153	128	13	12	5	.	.	2	9	2	13	.	1	.	.	163		
Enzklosterle 1)	606	10.2	0.6	25.1	26.	-2.3	4.	-2.3	4.	80	5.6	128	123	19	18	4	3	2	5	3	2	13	.	1	.	.	123		
Stetten (Wst)	734	11.3	0.6	25.1	27.	-0.6	3.	-4.6	4.	79	5.5	154	160	18	16	6	3	2	14	10	2	14	.	1	.	.	191		
Heidenheim/Brenz	500	12.2	0.0	27.2	27.	-4.2	4.	-5.4	4.	80	5.5	139	196	16	15	6	3	.	2	6	4	14	.	2	.	.	151		
Nürtingen-Oberrisingen	280	13.7	0.6	30.0	26.	-2.0	4.	-5.2	4.	75	5.4	141	.	22	16	5	.	.	2	10	3	13	.	1	.	.			
Hornsgünde	1122	8.0	0.0	20.1	26.	-2.5	3.	-2.5	4.	87	6.2	183	115	18	15	9	3	7	16	7	1	17	.	.	.	.	154		
Heidenberg																													
Napfeld	392	12.2	-0.1	28.5	26.	-2.3	4.	-4.0	4.	81	6.9	94	134	18	15	3	1	.	4	4	10	.	.	3	.	.	181		
Lenningen-Schopfloch	758	11.5	0.7	24.1	26.	-1.0	3.	-3.0	4.	74	5.7	146	147	16	16	6	3	1	7	5	2	14	.	.	.	.	176		
Laichingen	747	11.4	0.7	24.0	27.	-1.0	4.	-3.0	4.	74	5.3	131	160	19	16	4	3	2	2	6	4	12	.	.	.	.			
Reichenburg	342	12.7	0.7	26.8	26.	-2.8	4.	-5.1	4.	79	5.9	121	191	16	16	3	.	.	2	6	4	15	.	2	.	.			
Offenburg	155	16.2	0.0	27.5	26.	1.0	4.	-1.9	4.	75	5.9	118	155	16	14	5	.	.	1	6	3	18	.	3	.	.	170		
Freudenstadt (Wst)	797	10.2	0.1	23.9	26.	-2.0	4.	-5.0	4.	79	5.7	151	151	18	14	5	3	3	8	1	13	.	.	.	.	78			
Gengenbach	185	13.5	-0.5	28.0	26.	0.4	4.	-2.6	4.	78	5.7	159	187	19	16	5	3	.	1	6	3	13	.	.	.	.			
Nünningen	721	11.7	1.1	26.1	27.	-2.8	4.	-5.1	4.	75	5.7	126	142	17	14	7	3	.	8	1	10	.	.	.	.	.			
Hechingen	520	12.0	-0.2	25.5	26.	-3.1	4.	-6.3	4.	77	5.5	158	161	21	13	4	2	.	2	8	2	11	.	.	.	.	195		
Ulm (Wst)	522	13.2	1.1	28.0	27.	-1.4	4.	-4.1	4.	74	5.5	124	161	18	16	5	4	.	2	8	2	17	.	.	.	.	135		
Laß/Schw.	158	14.6	0.4	27.6	26.	0.9	4.	-3.2	4.	75	6.0	112	156	17	15	4	.	.	3	10	2	17	.	.	.	.			
Willbach	265	13.3	0.0	30.1	26.	1.7	4.	-0.2	4.	78	6.0	151	180	17	16	8	.	.	8	5	1	17	.	.	.	.	135		
Albstadt-Ebingen	742	10.8		24.0	26.	-3.0	4.	-6.1	4.	71	5.8	177	206	21	15	8	3	.	2	6	1	13	.	.	.	.	159		
Freimut-Ortschwanden	442	12.8		25.9	26.	1.5	4.	-1.2	4.	77	5.5	128	152	21	16	6	.	.	6	10	3	14	.	.	.	.	161		
Rotweil	585	11.4	-0.3	25.7	26.	-3.8	4.	-5.0	4.	80	5.9	155	218	19	17	5	2	.	12	4	2	17	.	.	.	.			
Emmendingen-Mundingen	201	13.5		27.0	26.	-1.3	4.	-3.3	4.	80	5.9	151	210	20	15	4	3	.	1	7	3	13	.	.	.	.	131		
Schnösch	904	9.6		21.5	26.27.	-1.2	3.	-1.2	3.	83	6.0	110	171	17	15	4	3	5	2	5	14	.	.	.	.	.			
Tübingen	683	10.9	-0.1	24.7	26.	-1.6	4.	-6.0	4.	78	5.5	138	135	16	16	4	3	1	6	2	11	.	.	.	.	.	136		
Königsfeld/Schw.	767	10.6	0.1	25.8	26.	-3.4	4.	-3.2	4.	83	5.6	107	126	19	16	4	3	1	2	7	3	16	.	.	.	.	67		
Biberach/Riß	534	13.1	1.2	28.0	27.	-1.2	4.	-3.2	4.	73	5.8	130	146	16	12	7	.	.	2	7	3	16	.	.	.	.			
Schönwäld/Schw. 1)	1031	9.1		22.5	26.	-2.0	4.	-2.7	4.	84	5.9	140	170	16	15	8	2	4	2	2	2	13	.	.	.	.	125		
Klappenack (Wst)	973	9.8	0.0	23.2	26.	-1.6	3.	-2.7	4.	80	5.7	142	173	20	17	5	2	2	16	10	2	12	.	.	.	.	73		
Oberrotwil 1)	223	14.3	0.2	28.5	26.	-0.3	4.	-2.6	4.	77	5.6	132	203	18	13	5	.	.	3	6	3	14	.	.	.	.	156		
Sigmaringen	650	12.2	0.4	26.0	27.	-2.5	4.	-5.9	4.	74	5.7	103	134	19	13	4	3	.	3	6	2	14	.	.	.	.			
Lienenthal bei Iffingen	284	12.8	-0.3	27.5	26.	-0.9	4.	-2.1	4.	79	5.6	147	193	18	17	6	.	.	2	5	2	15	.	.	.	.	135		
Villingen	698	10.8	0.1	25.6	26.	-4.2	4.	-2.5	4.	80	5.9	105	135	18	12	6	3	.	5	2	3	18	.	.	.	.			
Freiburg i. Br.-Herdern	255	13.9	-0.6	27.7	26.	0.1	4.	-4.9	4.	78	6.0	146	172	19	17	5	.	.	5	6	3	17	.	.	.	.			
Sankt Mergen	900	10.0	-0.2	22.4	26.	-1.0	4.	-3.2	4.	81	5.8	110	147	17	12	4	2	.	3	10	2	16	.	.	.	.	190		
Bad Dürrenheim	718	10.8	0.5	24.4	26.	-3.2	4.	-1.3	4.	78	5.6	147	193	18	17	5	.	.	1	5	2	16	.	.	.	.	145		
Freiburg i. Br. (WA)	269	14.4	-0.2	28.5	26.	1.8	4.	-0.8	4.	70	6.1	152	238	19	15	5	.	.	2	10	3	18	.	.	.	.			
Mengen i. Br.	215	14.3	0.5	29.5	26.	0.3	4.	-0.8	4.	77	6.3	162	238	18	15	5	.	.	1	8	1	18	.	.	.	.	192		
Aulendorf	571	12.6	1.0	27.0	27.	-1.8	4.	-4.0	4.	75	6.0	138	160	16	15	5	2	.	3	8	1	15	.	.	.	.	156		
Donauwörth 1)	677	11.3	0.5	25.4	26.	-3.8	4.	-4.8	4.	80	5.9	135	191	17	11	5	2	.	3	5	3	15	.	.	.	.			
Tübingen-Neustadt 1)	835	9.7	-0.1	23.5	27.	-4.3	4.	-4.0	4.	81	6.0	126	129	17	13	4	3	.	3	7	1	13	.	.	.	.	144		

Table 6 ctd.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Friedenweiler	924	9.8			24.0	27.	-3.0	4.	-6.5	4.	78	5.2	89	16	13	2	3	1	1	4	2	8							124
Prüllendorf Bunnhausen	638	10.7	-0.5		24.9	26.	-5.9	4.	-6.5	4.	77	6.3	106	122	18	13	4			2	4	2	20						143
Bremgarten (BW)	212	13.8			29.0	26.27.	-0.4	4.	-2.1	4.	74	5.7	109	168	17	14	2			4	9	1	12						135
Hintergarten	883	9.1	-0.3		23.1	26.	-6.0	4.			87	5.6	153	163	20	17	6	3	2	3	6	2	11						100
Obermünsterthal	545	11.6			25.9	27.	-0.9	4.			80	6.3	218	214	24	15	9			5	8	1	19						123
Feldberg-Schw (Wst)	1486	5.9	0.1		16.8	26.27.	-4.6	3.	-12.2	4.	87	6.4	207	163	22	19	10	5	11	24	7	1	19						143
Leinbach	818	10.1	0.3		24.1	26.	-4.3	4.			80	5.6	99	110	16	16	4	3		4	7	2	13						74
Aach. Kr. Konstanz	478	13.2	0.5		28.0	27.	-2.2	4.	-5.0	4.	76	5.6	85	109	16	13	3			4	3	2	12						
Stollach	475	12.8			27.1	27.	-1.3	4.	-2.7	4.	76	5.5	105	130	15	11	4			4	3	3	11						
Menzenberg	963	9.3	0.3		23.7	26.	-3.6	4.			86	5.7	132	133	18	16	5	3	1	8	2	15							142
Schloßwe	412	13.0	-0.3		26.2	26.	-0.2	4.	-1.2	4.	77	5.9	115	131	18	16	3			7	5	15							137
Badenweiler	435	13.6	0.8		28.3	27.	-1.9	4.	-3.7	4.	80	5.7	160	158	15	15	5	1		8	3	14							90
Ravensburg (I)	852	9.7	-0.6		22.5	26.	-1.8	4.	-2.4	4.	82	5.5	222	179	17	17	7	2	1	13	5	3	12						
Friedrichshausen																													
Sankt Blasien (I)	1008	9.7	0.0		22.0	26.	-1.4	3.	-3.5	4.	72	5.5	118	117	13	11	4	1	1	4	5	2	12						165
Hochschwarzwald	400	13.7	0.1		29.2	27.	-0.8	4.	-4.6	4.	73	5.4	94	127	16	13	4			3	4	15							
Radolfzell	691	11.9	0.9		27.0	27.	-0.2	4.	-2.2	4.	76	5.6	219	139	16	15	7	2	1	3	5	3	13						182
Isny	443	13.8	0.6		28.0	26.	-0.6	4.	-1.6	4.	71	5.4	90	114	15	11	2			1	3	4	14						197
Konstanz (Wewal)	383	13.5	0.7		28.6	26.	-0.6	4.	-1.6	4.	73	5.4	60	80	16	12	2			3	3	11							89
Wotzenhausen	383	13.5	0.7		28.6	26.	-0.6	4.	-1.6	4.	73	5.4	60	80	16	12	2			3	3	11							
Schopfheim	400	12.6	-0.2		28.8	26.	-1.2	4.	-1.9	4.	77	5.7	132	139	16	13	5			6	7	4	16						194
Erbsbach-Wallreuten	408	14.1			28.5	27.	-1.7	4.	-5.6	4.	76	6.1	157	165	15	15	5			3	6	2	13						
Erbsbach-Wallreuten	264	13.5			28.0	26.	-1.0	4.	-3.1	4.	78	5.6	83	117	14	12	3			3	6	2	13						
Waldshut	330	13.5	0.0		24.5	26.	-3.8	4.	-2.4	4.	77	5.3	84	106	16	12	3			16	3	3	13						147
Jungbühl (Kühnholz)	728	10.6			30.0	26.	-0.9	4.	-1.9	4.	72	5.8	161	206	17	14	7			6	2	15							148
Kühnholz	287	12.8	-0.2		28.2	26.	-0.6	4.			74	5.5	126	168	15	13	5			4	2	3	13						
Bad Säckingen	355	13.1			28.2	26.																							
Bayern																													
Ostheim-Rhon	315	14.2			29.1	26.	-0.9	4.	-2.5	4.	71	5.9	50	104	13	8	2	2	1	1	3								
Leinschütz-Wickendorf	560	12.2	1.0		26.6	27.	-4.0	4.	-6.6	4.	74	5.3	65	93	11	10	2			1	3								
Langeleiten																													
Hof Hofensass (Wst)	567	12.0	1.5		26.5	27.	-2.9	4.	-5.6	4.	74	5.1	62	102	13	9	2	2		5	4	3	11						184
Calburg (Wst)	337	14.3	1.4		29.2	27.	-1.0	4.	-3.2	4.	66	5.2	68	106	14	8	4			1	6	3	12						87
Kronach	305	14.7	2.3		29.5	27.	-0.6	4.	-1.1	4.	65	5.6	55	87	13	8	2			1	3	2	13						216
Bad Kissingen (Wst)	262	14.3	1.2		29.2	27.	0.2	4.	-2.7	4.	68	5.3	75	144	15	10	1			2	4	3	13						92
Sch. Ort (I)	583	11.9	1.0		25.2	27.	-3.0	4.	-3.5	4.	74	4.2	73	118	8	8	2	2		3	3	3	4						175
Oelschütz	553	12.1	1.2		27.2	27.	-3.6	4.	-4.9	4.	74	4.8	77	91	13	11	2	2		1	3	1	7						
Kohl-Mann	110	14.6	0.5		29.0	26.	-2.9	4.	-1.2	4.	71	5.5	86	148	17	10	4			1	6	2	12						
Schwenfurt	240	14.8	1.3		29.7	27.	-1.1	4.	-2.2	4.	68	5.1	35	74	14	7	1			1	5	2	9						
Stemmlach b. Jöhrl-Mann	161	13.9	1.0		29.1	27.	-0.6	4.	-0.9	4.	75	5.2	89	178	16	14	2	3		4	4	2	11						
Fichtelberg-Ort.	705	11.3	0.6		25.7	27.	-2.5	4.	-3.1	4.	74	5.4	83	102	14	9	4	3	2	2	3	3	5						184
Bayreuth	330	13.6	1.2		28.6	27.	-0.6	4.	-0.8	4.	74	4.8	78	118	15	12	4			2	5	2	10						94
Bamberg (Wst)	239	14.7	1.5		29.1	27.	-1.3	4.	-0.1	4.	71	5.8	75	129	13	9	3	1		4	3	1	15						178
Truchentreuth	515	12.6	0.8		26.5	27.	-2.8	4.	-4.0	4.	71	5.8	94	168	16	11	2	1		1	7	2	11						75
Wartburg (Wewal)	268	14.5	1.0		28.8	27.	-0.1	4.	-2.4	4.	68	5.2	94	168	16	11	2	3		7	1	4	12						
Calwensheim	450	13.0	1.2		28.0	27.	-2.0	4.	-3.0	4.	88	4.5	61	87	14	11	3	3	3	7	1	4	13						
Altenfurt	750	11.3	1.2		25.0	27.	-2.9	4.	-7.1	4.	76	5.4	85	91	12	11	3			2	4	1	10						
Mittenberg	127	14.0			28.8	27.	0.8	4.	-1.5	4.	75	5.6	124	214	16	12	6			1	4	1	13						187
Weiden-Orf (Wst)	438	13.3	1.0		27.6	27.	-2.0	4.	-4.1	4.	76	5.3	58	117	13	11	1	1		1	4	1	10						91
Erlangen	270	14.1	1.2		28.5	27.	-1.6	4.	-2.7	4.	70	5.1	87	136	15	10	2			1	4	1	9						186
Neustadt/Ansb.	333	13.8	1.0		28.1	27.	-1.5	4.	-1.9	4.	73	5.3	101	171	13	10	3			1	3	2	8						
Uffenheim	340	13.9	1.3		28.6	27.	-0.6	4.	-3.9	4.	68	5.1	76	133	14	10	3			1	6	3	10						

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GENERALLY BASED MOBILITY-TERRAIN DATA BASES(U)
SATTELLE-INSTITUT E U FRANKFURT AM MAIN (GERMANY F R)
P JESSL ET AL. MAR 86 BLEU-R-66.069-1 DAJA45-84-C-9839

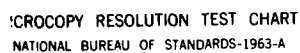
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XEROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

Table 6 ctd.

Mai 1985

Station	Höhe über NN m	Lufttemperatur in °C								Zahl der Tage										Sonnen- scheindauer in %									
		Mittel		Abweichung		höchste	Datum	tiefste	Datum	tiefste am End- boden	Datum	Luftfeuchtigkeit in %		Niederschlag mm		Schnee- fall mm	Nebel voll- ständig über 0,1 mm	Gewitter voll- ständig über 0,1 mm	heiße Tage	Sommer- tage	Frost- tage	Eis- tage	in % Std	in % Std					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Nürnberg-Kraftshof (Flugh.)	310	14.4	1.4	29.4	27.	-1.5	4.	-2.5	4.	71	5.1	92	167	14	10	2	2	1	1	6	2	11	1	1	1	1	1	202	82
Pommersfelden	368	13.0	0.8	29.1	27.	-2.7	4.	-3.0	4.	74	5.0	112	151	14	11	4	1	1	1	1	5	1	9	1	1	1	1	202	82
Ansbach-Unterramersricht	386	13.5	0.8	28.4	27.	-1.4	4.	-1.8	4.	73	5.2	101	177	14	11	4	1	1	1	1	1	9	1	1	1	1	1	202	82
Oberreuth	498	12.7	1.1	26.6	27.	-1.9	4.	-3.1	5.	75	6.1	101	151	14	12	4	1	1	1	1	2	15	1	1	1	1	1	202	82
Reithenau o.d. Tauber	406	12.9	0.5	28.6	27.	-1.8	4.	-3.0	4.	77	5.2	116	178	16	13	6	1	1	1	1	4	9	1	1	1	1	1	202	82
Schwandorf	372	13.4	0.9	29.3	27.	-0.9	4.	-3.1	4.	75	4.9	103	175	16	11	2	1	1	1	1	6	10	1	1	1	1	1	202	82
Ansbach-Clafheim	481	12.4	0.7	27.0	27.	-1.5	4.	-3.1	4.	78	5.7	191	175	17	15	5	1	1	1	1	1	10	1	1	1	1	1	202	82
Roß b. Nürnberg	340	13.9	0.7	29.9	27.	-2.0	4.	-3.0	4.	75	5.2	164	309	16	14	5	1	1	1	1	7	11	1	1	1	1	1	202	82
Cham	420	13.9	1.2	27.9	27.	-0.5	4.	-1.4	4.	71	5.0	92	156	14	12	2	1	1	1	1	6	9	1	1	1	1	1	202	82
Parberg/Opf.	542	12.6	0.2	26.0	27.	-3.0	4.	-3.6	4.	74	5.1	125	189	15	14	4	1	1	1	1	4	1	1	1	1	1	1	202	82
Hollenstein-Kraftwerk	403	12.8	1.2	27.4	27.	0.5	4.	-2.5	6.	82	5.6	81	104	16	11	3	1	1	1	1	5	1	1	1	1	1	1	202	82
Großer Ahrer (Wst)	1437	7.1	1.2	21.9	27.	-5.4	4.	-2.6	4.	78	5.9	135	135	17	14	3	1	1	1	1	4	16	1	1	1	1	1	202	82
Regensburg (Wst)	366	14.1	1.2	27.7	27.	-1.2	4.	-4.1	4.	75	5.2	68	115	15	13	3	1	1	1	1	3	11	1	1	1	1	1	202	82
Weidenburg/Bay. (Wst)	422	13.0	0.8	27.5	27.	-2.0	4.	-2.4	4.	75	5.1	190	292	17	15	5	1	1	1	1	3	10	1	1	1	1	1	202	82
Fichtstadt	397	13.4	1.3	27.4	27.	-2.6	4.	-3.2	4.	79	5.3	126	217	18	14	7	1	1	1	1	4	13	1	1	1	1	1	202	82
Niedlingen	425	13.1	0.9	27.5	27.	-2.6	4.	-3.2	4.	74	5.6	114	168	16	16	5	1	1	1	1	4	12	1	1	1	1	1	202	82
Metten	313	14.0	1.1	28.4	27.	-0.6	4.	-3.8	4.	79	6.3	129	175	15	15	5	1	1	1	1	5	16	1	1	1	1	1	202	82
Kosching	417	13.0	0.2	27.6	27.	-2.0	4.	-1.6	4.	75	5.7	132	152	16	14	4	1	1	1	1	3	15	1	1	1	1	1	202	82
Freising v. Wald	645	12.7	1.5	27.6	27.	-0.6	4.	-1.7	4.	73	5.1	131	196	16	13	5	1	1	1	1	3	13	1	1	1	1	1	202	82
Mallersdorf/Alb	410	14.2	1.5	27.8	27.	-1.4	4.	-6.1	4.	71	5.4	173	247	18	16	4	1	1	1	1	8	11	1	1	1	1	1	202	82
Karlsheim-Neuhof	516	12.7	0.5	26.3	27.	-1.6	4.	-5.0	4.	76	4.9	217	314	19	15	7	1	1	1	1	6	10	1	1	1	1	1	202	82
Karlshuld	374	13.5	1.1	27.1	27.	-1.8	4.	-3.1	4.	74	5.0	139	170	18	14	5	1	1	1	1	5	11	1	1	1	1	1	202	82
Mainburg	450	14.2	0.9	28.9	27.	-1.8	4.	-3.3	4.	74	5.2	162	235	16	15	5	1	1	1	1	5	11	1	1	1	1	1	202	82
Dillingen/Donau	435	13.8	1.3	27.5	27.	-0.3	4.	-1.8	4.	72	5.4	196	222	19	12	8	1	1	1	1	6	12	1	1	1	1	1	202	82
Passau-Oberhaus (Wst)	409	14.4	1.2	29.0	27.	-1.7	4.	-2.7	4.	73	4.5	165	236	15	13	8	1	1	1	1	6	12	1	1	1	1	1	202	82
Kunhausen	436	13.8	1.2	27.0	27.	-1.7	4.	-2.7	4.	69	4.4	94	124	14	11	4	1	1	1	1	6	12	1	1	1	1	1	202	82
Falkenberg Kr. Rottal-Inn	490	13.9	1.2	27.0	27.	0.0	4.	-2.2	4.	75	5.0	193	235	18	14	9	1	1	1	1	8	11	1	1	1	1	1	202	82
Angerburg-Mühlhausen (Wst)	461	13.3	0.6	27.4	27.	-2.7	4.	-3.2	4.	75	5.1	214	258	18	13	6	1	1	1	1	7	10	1	1	1	1	1	202	82
Angerburg-Mühlhausen (Wst)	461	13.3	0.6	27.4	27.	-2.7	4.	-3.2	4.	75	5.1	214	258	18	13	6	1	1	1	1	7	10	1	1	1	1	1	202	82
Weihenstephan (AMBI)	467	13.3	1.5	27.1	27.	-2.2	4.	-4.1	4.	79	4.9	121	133	14	11	5	1	1	1	1	3	13	1	1	1	1	1	202	82
Simbach-Inn	360	14.3	0.6	26.7	27.	-3.0	4.	-3.0	4.	74	5.0	192	196	16	12	4	1	1	1	1	6	10	1	1	1	1	1	202	82
Krummich-Eidenhausen	520	12.4	0.6	27.4	27.	-3.0	4.	-3.9	4.	76	5.2	101	126	16	12	4	1	1	1	1	6	10	1	1	1	1	1	202	82
Mühlhof/Inn (Wst)	401	13.6	1.0	27.5	27.	-1.9	4.	-4.0	4.	73	5.3	170	165	16	14	8	1	1	1	1	5	12	1	1	1	1	1	202	82
München-Sympienburg	515	13.5	1.0	27.1	27.	-1.8	4.	-6.8	4.	75	4.8	170	159	16	14	6	1	1	1	1	7	11	1	1	1	1	1	202	82
München-Riem (Flugh.)	527	13.3	1.1	26.7	27.	-2.4	4.	-4.9	4.	76	5.7	173	173	15	12	7	1	1	1	1	7	11	1	1	1	1	1	202	82
Kaufereing	585	12.6	0.6	26.4	27.	-2.1	4.	-3.4	4.	78	5.3	116	109	17	12	4	1	1	1	1	8	10	1	1	1	1	1	202	82
Eberberg	573	13.1	1.1	28.1	27.	-2.2	4.	-2.9	4.	75	4.9	84	80	14	14	4	1	1	1	1	5	12	1	1	1	1	1	202	82
Trostberg	487	13.7	1.1	28.1	27.	-1.3	4.	-5.6	4.	74	5.7	172	174	14	12	8	1	1	1	1	5	12	1	1	1	1	1	202	82
Memmingen	595	12.9	1.2	27.2	27.	-2.4	4.	-6.0	4.	75	6.1	167	138	17	12	8	1	1	1	1	5	11	1	1	1	1	1	202	82
Kaufbeuren	720	12.2	1.1	25.4	27.	-2.0	4.	-5.4	4.	73	5.4	201	150	17	14	8	1	1	1	1	5	12	1	1	1	1	1	202	82
Attenkam	665	12.1	0.8	26.8	27.	-2.0	4.	-1.8	4.	70	5.7	84	58	14	11	4	1	1	1	1	4	13	1	1	1	1	1	202	82
Kotzing I	611	13.1	1.3	27.6	27.	-0.5	4.	-2.1	4.	77	5.4	90	78	14	13	4	1	1	1	1	4	11	1	1	1	1	1	202	82
Rosenheim	446	14.3	1.5	30.3	27.	-1.8	4.	-2.1	4.	76	5.4	169	135	16	14	5	1	1	1	1	4	11	1	1	1	1	1	202	82
Hohenperkenberg (Observatorium)	977	10.7	0.9	23.0	27.	-1.5	3.	-5.4	4.	81	5.8	141	115	16	12	5	1	1	1	1	9	11	1	1	1	1	1	202	82
Kempten (Wst)	705	11.9	1.1	26.3	27.	-4.2	4.	-8.8	4.	75	4.8	94	57	16	12	4	1	1	1	1	9	11	1	1	1	1	1	202	82
Wendstein (Wst)	1632	5.5	1.1	18.0	27.	-2.7	4.	-4.6	4.	76	5.0	185	124	16	12	5	1	1	1	1	9	11	1	1	1	1	1	202	82
Reit im Winkel	695	12.1	1.2	27.6	27.	-4.0	4.	-5.6	4.	75	5.4	98	75	16	12	3	1	1	1	1	9	11	1	1	1	1	1	202	82
Schwangau-Inn	796	11.6	0.8	25.2	27.	-1.4	4.	-7.2	4.	90	5.7	98	58	18	15	4	1	1	1	1	9	11	1	1	1	1	1	202	82
Garmisch-Partenkirchen (Wst)	719	12.4	1.5	26.6	27.	-14.4	3.	-6.7	4.	72	5.0	125	84	16	13	6	1	1	1	1	9	11	1	1	1	1	1	202	82
Zugspitze (Wst)	2960	-2.3	0.2	7.2	26.	-4.2	4.	-6.7	4.	72	5.0	125	84	16	13	6	1	1	1	1	9	11	1	1	1	1	1	202	82
Oberstdorf (Wst)	810	11.0	0.8	26.8	27.	-4.2	4.	-6.7	4.	72	5.0	1																	

Table 6 ctd. (air temperature in °C)

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Mai 1985

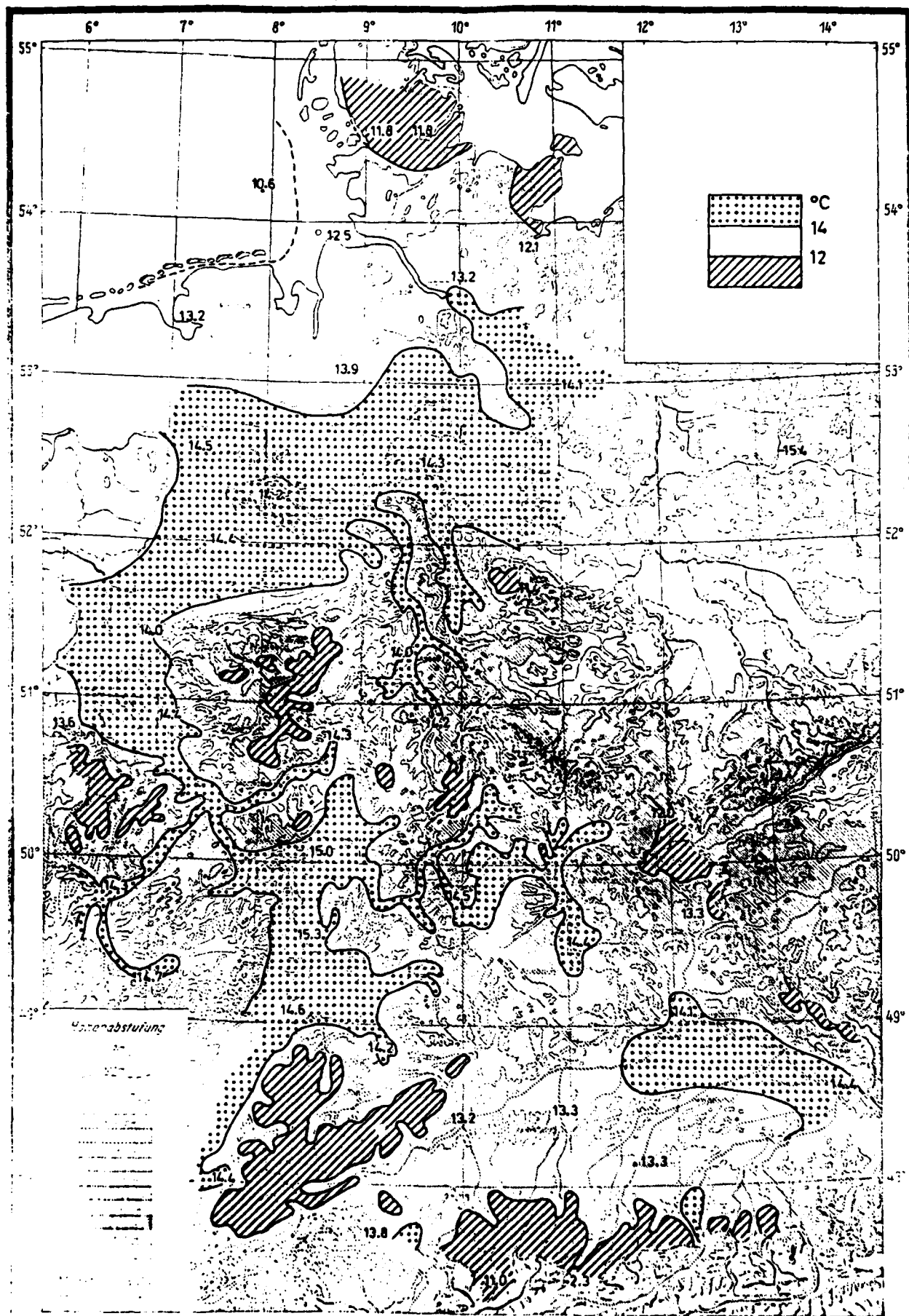


Table 6 ctd. (precipitation in mm)

Mai 1985

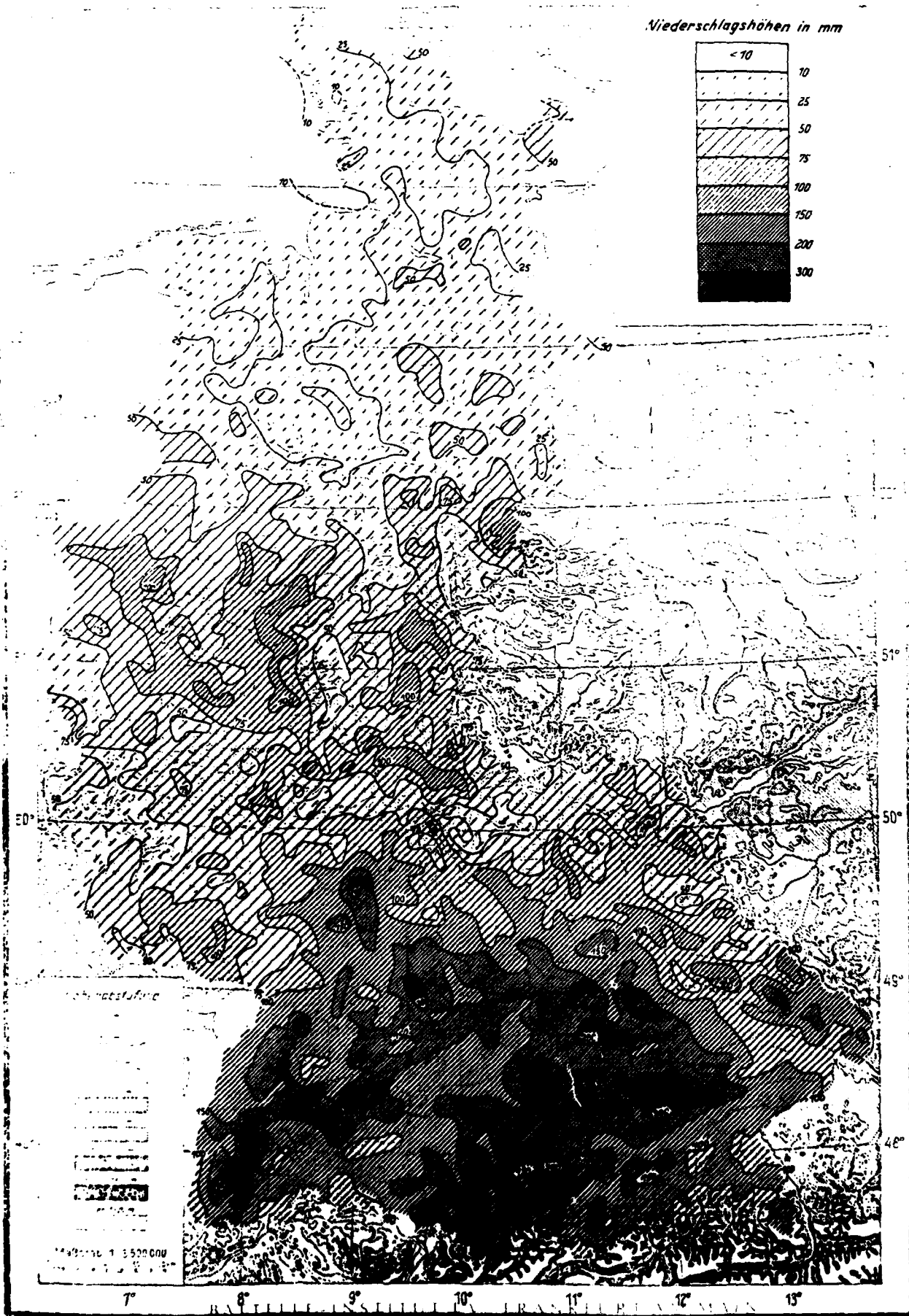


Table 6 ctd. (precipitation in % of 1931 - 1960 mean values) **Mai 1985**

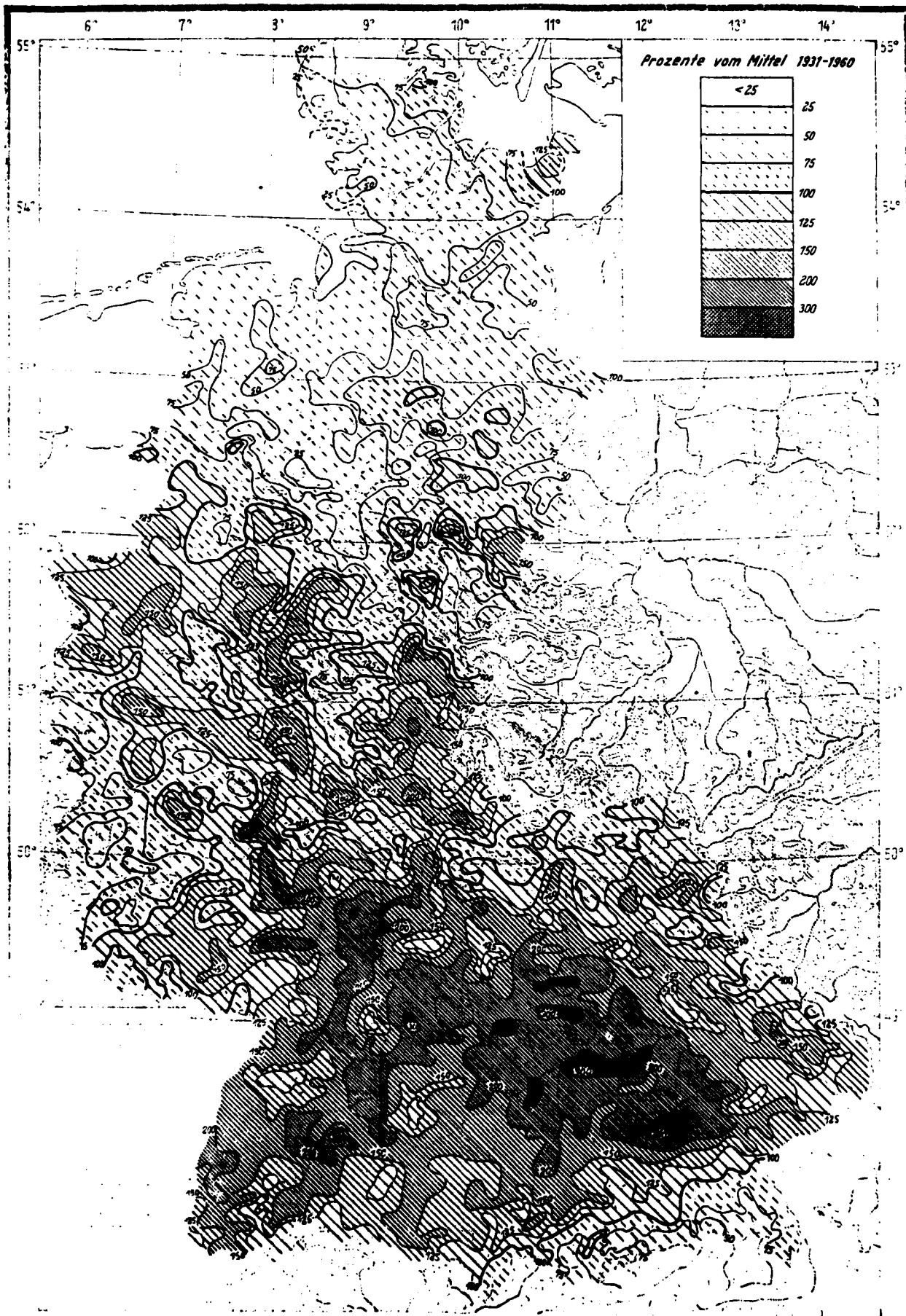


Table 6 ctd. (air temperature in % of 1931 - 1960 mean values)

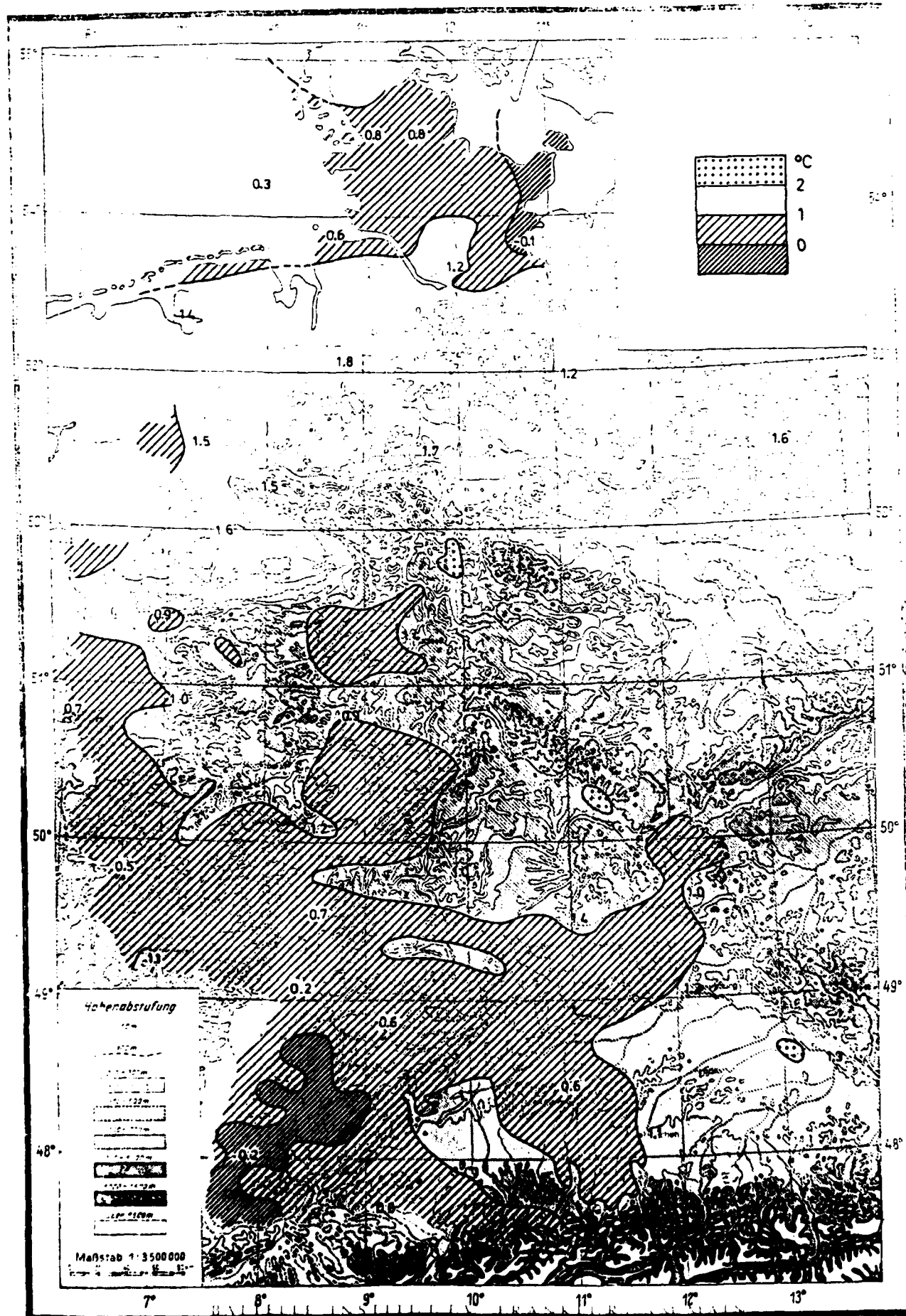


Table 7 Results of Soil Investigations for the Test Sites Visited

Site No.	Sampling Depth in	Specific Gravity g/cm ³	Density		Moisture Content %	Atterberg Limits			Organic Ingredients %	Soil Type USCS
			Bulk- t/m ³	Dry- t/m ³		Liquid Limit %	Plasticity Limit %	Plasticity %		
1	1-4	2,62	1,62	1,13	42,89	69,9	39,5	30,4	9,44	OH
2	1-4	2,68	1,52	1,23	23,80	39,2	22,5	16,7	4,30	CL
3	1-4	2,01	1,04	0,63	65,89		1)		9,60	SM
4	1-4	-	1,03	0,54	92,19		1)		26,12	Pt
5	1-3	2,65	1,59	1,30	22,63	30,9	23,9	7,0	3,08	ML
6/1	1-4	-	1,12	0,47	138,38		1)		29,66	Pt
6/2	7-10	-	1,26	0,44	184,67		1)		20,34	Pt
7	1-4	-	1,56	0,94	65,16		1)		15,95	Pt
8	1-4	-	0,98	0,32	201,57		1)		57,47	Pt
9	1-4	2,63	1,87	1,38	35,81	41,4	30,0	11,4	5,24	ML
10	1-3	2,67	1,68	1,02	64,20	75,9	43,1	32,8	13,83	OH
11	1-3	2,57	1,47	1,20	22,69	38,9	22,9	16,0	7,16	CL
12	1-4	2,63	1,76	1,17	50,00	73,3	42,7	30,6	6,02	OH
13/1	1-4	-	1,37	0,52	161,04		1)		18,84	Pt
13/2	6-9	-	1,54	0,78	96,40		1)		18,34	Pt
14	1-4	2,51	1,88	1,32	42,25	61,7	45,7	16,0	7,86	OH
15	1-4	2,57	1,54	1,23	24,93		1)		5,48	SP
16	1-4	-	1,59	1,02	56,18		1)		16,40	Pt
17	1-4	2,48	1,68	1,42	18,51		1)		5,21	SP
18	1-4	2,57	2,11	1,69	24,63	33,3	23,3	10,0	5,97	ML
19	1-4	-	1,13	0,23	391,59		1)		58,65	Pt
20	2-5	2,74	1,52	0,86	75,78		1)		8,86	SM
21	1-4	-	1,20	0,32	277,70		1)		43,94	Pt
22	0-4	2,57	1,56	1,07	45,71	78,9	38,0	40,9	8,02	CH
23	0-4	2,53	1,94	1,43	35,67		1)		5,28	SM
24	0-4	2,52	2,16	1,66	30,06		1)		3,27	SM
25/1	1-4	2,59	1,52	0,70	117,24	150,0	91,7	58,3	15,73	OH
25/2	6-9	2,67	1,81	1,20	51,28	83,8	45,1	38,7	8,42	OL
26	1-4	2,52	1,79	1,32	35,36	82,8	41,1	41,7	17,33	OL
27	1-4	2,39	1,45	0,67	117,58	136,5	70,8	65,7	21,23	OH
28/1	1-4	2,52	1,59	0,98	62,44	116,4	53,7	62,7	12,29	OH
28/2	6-9	2,60	1,74	1,15	51,10	83,2	37,2	46,0	9,88	CH
29	0-3	2,60	1,60	1,32	21,25	35,9	21,2	14,7	5,24	CL
30	1-4	2,56	1,64	1,17	40,76	70,4	48,5	21,9	11,38	OH
31	1-4	2,58	1,90	1,34	41,51	62,5	35,3	27,2	15,17	OH
32	1-4	2,51	1,82	1,09	67,23	85,2	60,6	24,6	17,07	OH
33	1-4	2,61	1,87	1,44	30,02	70,7	34,7	36,0	11,58	OH
34	1-4	2,54	1,33	0,84	58,19	111,2	55,6	55,6	19,43	OH
35	3-6	-	1,78	1,03	73,23		1)		10,57	Pt

1) Plasticity too low to determine the Atterberg limits

Table 8

Summary of the Test Site Data Obtained

SITE NO.	TEST NO.	QUAD SHEET	GRID COORD.	RATE in/s	AT PEAK		NORMAL STRESS psi	SAMPLE DEPTH in
					SHEAR STRESS psi	DISPL. in		
1	141	5916	6050/4170	.33	1.09	.47	.50	4
1	142	5916	6050/4170	.34	2.59	.38	.50	4
1	143	5916	6050/4170	.16	1.85	.19	.50	4
1	144	5916	6050/4170	1.34	2.66	.32	.50	4
1	145	5916	6050/4170	1.51	2.54	.95	.50	4
1	147	5916	6050/4170	.41	8.84	.86	5.60	4
1	148	5916	6050/4170	.46	9.92	.71	5.60	4
1	149	5916	6050/4170	1.35	10.12	.73	5.60	4
1	150	5916	6050/4170	1.36	10.51	1.02	5.60	4
1	151	5916	6050/4170	.44	13.44	.67	11.25	4
1	152	5916	6050/4170	.38	13.42	.47	11.25	4
1	153	5916	6050/4170	.50	12.53	1.11	11.25	4
1	154	5916	6050/4170	1.27	12.88	.63	11.25	4
1	155	5916	6050/4170	1.30	16.64	1.52	11.25	4
2	156	5916	6001/4565	.49	4.30	.56	.50	4
2	157	5916	6001/4565	.41	5.14	.32	.50	4
2	158	5916	6001/4565	1.28	6.81	.36	.50	4
2	159	5916	6001/4565	1.29	5.58	.36	.50	4
2	160	5916	6001/4565	1.35	9.12	.53	.50	4
2	162	5916	6001/4565	.49	12.70	.82	5.60	4
2	163	5916	6001/4565	1.24	11.94	.54	5.60	4
2	164	5916	6001/4565	1.24	12.05	1.08	5.60	4
2	165	5916	6001/4565	.56	12.23	.61	11.25	4
2	166	5916	6001/4565	.46	9.73	.60	11.25	4
2	167	5916	6001/4565	1.17	13.51	.70	11.25	4
2	168	5916	6001/4565	1.23	11.75	.69	11.25	4
2	169	5916	6001/4565	1.26	13.50	.79	11.25	4
3	170	5918	8340/4665	.39	3.31	.28	.50	4
3	174	5918	8340/4665	.32	3.31	.25	.50	4
3	175	5918	8340/4665	.39	2.56	.36	.50	4
3	176	5918	8340/4665	1.15	4.52	.28	.50	4
3	177	5918	8340/4665	.46	8.17	.47	5.60	4
3	178	5918	8340/4665	.45	6.96	.41	5.60	4
3	179	5918	8340/4665	.47	8.32	.41	5.60	4
3	180	5918	8340/4665	1.33	13.35	.51	5.60	4
3	181	5918	8340/4665	1.33	8.31	.41	5.60	4
3	182	5918	8340/4665	1.41	7.11	1.00	5.60	4
3	183	5918	8340/4665	1.37	7.87	.62	5.60	4
3	184	5918	8340/4665	.49	9.91	.53	11.25	4
3	185	5918	8340/4665	.41	13.92	.30	11.25	4
3	186	5918	8340/4665	.60	6.80	.44	11.25	4
3	187	5918	8340/4665	.66	7.32	.42	11.25	4
3	188	5918	8340/4665	1.13	6.80	.16	11.25	4
6	189	3528	0670/2725	.52	1.88	.82	.50	4
6	190	3528	0670/2725	.38	2.65	.57	.50	4
6	191	3528	0670/2725	1.08	2.82	.26	.50	4
6	192	3528	0670/2725	1.41	2.34	1.07	.50	4

Table 8

Summary of the Test Site Data Obtained

SITE NO.	TEST NO.	QUAD SHEET	GRID COORD.	RATE in/s	AT PEAK		NORMAL STRESS psi	SAMPLE DEPTH in
					SHEAR STRESS psi	DISPL. in		
6	193	3528	0670/2725	1.17	2.96	.44	.50	4
6	194	3528	0670/2725	.43	9.53	1.07	5.60	4
6	195	3528	0670/2725	.38	9.35	.68	5.60	4
6	196	3528	0670/2725	1.27	10.75	.81	5.60	4
6	197	3528	0670/2725	1.26	8.77	.61	5.60	4
6	198	3528	0670/2725	.34	11.84	.44	11.25	4
6	199	3528	0670/2725	.32	12.04	.52	11.25	4
6	200	3528	0670/2725	1.16	14.33	.49	11.25	4
6	201	3528	0670/2725	1.15	13.40	.61	11.25	4
7	216	3528	0600/2325	.59	3.41	.59	.50	4
7	217	3528	0600/2325	.41	4.33	.75	.50	4
7	218	3528	0600/2325	.64	2.43	1.04	.50	4
7	219	3528	0600/2325	.36	3.11	.45	.50	4
7	220	3528	0600/2325	1.24	5.51	.56	.50	4
7	221	3528	0600/2325	1.01	3.92	.34	.50	4
7	222	3528	0600/2325	.46	8.32	.47	5.60	4
7	223	3528	0600/2325	.40	5.72	.32	5.60	4
7	224	3528	0600/2325	.47	8.08	.44	5.60	4
7	225	3528	0600/2325	1.43	8.39	.52	5.60	4
7	226	3528	0600/2325	1.44	9.25	.62	5.60	4
7	227	3528	0600/2325	.32	8.64	.24	11.25	4
7	228	3528	0600/2325	.44	10.55	.47	11.25	4
7	229	3528	0600/2325	1.17	12.43	.53	11.25	4
7	230	3528	0600/2325	1.26	9.44	.42	11.25	4
8	231	3528	0500/2565	.32	3.20	.39	.50	4
8	232	3528	0500/2565	.42	3.42	.29	.50	4
8	233	3528	0500/2565	.51	2.62	.32	.50	4
8	234	3528	0500/2565	1.23	2.32	.37	.50	4
8	235	3528	0500/2565	1.29	3.19	.76	.50	4
8	236	3528	0500/2565	.56	8.23	.50	5.60	4
8	237	3528	0500/2565	.52	6.88	.47	5.60	4
8	238	3528	0500/2565	.55	7.14	.47	5.60	4
8	239	3528	0500/2565	1.13	8.38	.45	5.60	4
8	241	3528	0500/2565	1.20	8.19	.52	5.60	4
8	242	3528	0500/2565	1.18	6.78	.37	5.60	4
8	243	3528	0500/2565	.58	10.75	.54	11.25	4
8	244	3528	0500/2565	.57	10.00	.36	11.25	4
8	245	3528	0500/2565	.46	10.11	.36	11.25	4
8	246	3528	0500/2565	1.18	10.31	.46	11.25	4
8	247	3528	0500/2565	1.33	10.47	.43	11.25	4
9	248	3730	2720/8630	.42	3.29	.28	.50	4
9	249	3730	2720/8630	.51	2.94	.58	.50	4
9	250	3730	2720/8630	.52	3.27	.89	.50	4
9	251	3730	2720/8630	1.26	2.44	.46	.50	4
9	252	3730	2720/8630	1.37	3.05	.64	.50	4
9	253	3730	2720/8630	.52	6.19	.51	5.60	4
9	254	3730	2720/8630	.57	5.71	.52	5.60	4

Table 8

Summary of the Test Site Data Obtained

SITE NO.	TEST NO.	QUAD SHEET	GRID COORD.	RATE in/s	AT PEAK		NORMAL STRESS psi	SAMPLE DEPTH in
					SHEAR STRESS psi	DISPL. in		
9	255	3730	2720/8630	.45	5.90	.45	5.60	4
9	256	3730	2720/8630	1.38	9.41	.75	5.60	4
9	257	3730	2720/8630	1.33	8.24	.46	5.60	4
9	258	3730	2720/8630	1.41	7.78	.96	5.60	4
9	259	3730	2720/8630	.54	9.78	.57	11.25	4
9	260	3730	2720/8630	.56	8.52	.45	11.25	4
9	261	3730	2720/8630	.58	6.61	.60	11.25	4
9	262	3730	2720/8630	1.37	11.01	.69	11.25	4
9	263	3730	2720/8630	1.38	9.34	.49	11.25	4
10	264	3730	3050/8775	.42	1.36	.29	.50	4
10	265	3730	3050/8775	.56	1.54	.71	.50	4
10	267	3730	3050/8775	1.37	2.84	.51	.50	4
10	268	3730	3050/8775	.59	3.14	.80	5.60	4
10	269	3730	3050/8775	.63	2.47	.66	5.60	4
10	270	3730	3050/8775	1.49	3.24	1.04	5.60	4
10	271	3730	3050/8775	1.44	3.02	.60	5.60	4
10	272	3730	3050/8775	.59	3.81	.68	11.25	4
10	273	3730	3050/8775	.52	3.36	1.04	11.25	4
10	274	3730	3050/8775	1.44	3.73	.51	11.25	4
10	275	3730	3050/8775	1.45	3.46	.83	11.25	4
10	276	3730	3050/8775	1.27	4.42	.58	11.25	4
11	277	4724	6630/7525	.43	2.02	.45	.50	4
11	278	4724	6630/7525	.37	3.13	.39	.50	4
11	279	4724	6630/7525	.49	5.96	.51	.50	4
11	280	4724	6630/7525	.53	8.34	.62	.50	4
11	281	4724	6630/7525	1.31	5.27	.59	.50	4
11	282	4724	6630/7525	1.26	9.62	.58	.50	4
11	283	4724	6630/7525	1.11	11.19	.51	.50	4
11	284	4724	6630/7525	.41	12.66	.31	5.60	4
11	285	4724	6630/7525	.43	13.95	.63	5.60	4
11	286	4724	6630/7525	1.31	14.02	.94	5.60	4
11	287	4724	6630/7525	1.31	14.70	1.00	5.60	4
11	288	4724	6630/7525	.57	14.92	.84	11.25	4
11	289	4724	6630/7525	.59	16.07	.87	11.25	4
11	290	4724	6630/7525	1.27	16.59	.72	11.25	4
11	291	4724	6630/7525	1.24	18.43	.66	11.25	4
12	292	4924	6425/7075	.60	6.36	.43	.50	4
12	293	4924	6425/7075	.43	8.17	.59	.50	4
12	294	4924	6425/7075	1.36	8.62	.73	.50	4
12	295	4924	6425/7075	1.38	9.99	.71	.50	4
12	296	4924	6425/7075	.45	15.58	.95	5.60	4
12	297	4924	6425/7075	.44	13.76	.65	5.60	4
12	298	4924	6425/7075	1.26	15.49	.96	5.60	4
12	299	4924	6425/7075	1.12	15.00	.96	5.60	4
12	300	4924	6425/7075	.51	14.96	.58	11.25	4
12	301	4924	6425/7075	.42	15.24	.68	11.25	4
12	302	4924	6425/7075	.90	18.06	.81	11.25	4

Table 8

Summary of the Test Site Data Obtained

SITE NO.	TEST NO.	QUAD SHEET	GRID COORD.	RATE in/s	AT PEAK		NORMAL STRESS psi	SAMPLE DEPTH in
					SHEAR STRESS psi	DISPL. in		
12	303	4924	6425/7075	.81	15.16	.61	11.25	4
13	304	3122	3560/6820	.57	5.08	1.06	.50	4
13	305	3122	3560/6820	.51	5.58	1.04	.50	4
13	306	3122	3560/6820	.53	4.87	1.61	.50	4
13	307	3122	3560/6820	1.16	4.19	1.06	.50	4
13	308	3122	3560/6820	1.36	3.43	1.03	.50	4
13	309	3122	3560/6820	.54	8.68	1.08	5.60	4
13	310	3122	3560/6820	.64	15.55	2.37	5.60	4
13	311	3122	3560/6820	.62	8.83	1.45	5.60	4
13	314	3122	3560/6820	.55	9.87	.97	11.25	4
13	315	3122	3560/6820	.62	7.97	.63	11.25	4
13	316	3122	3560/6820	1.31	9.30	.94	11.25	4
13	317	3122	3560/6820	1.22	9.93	.91	11.25	4
14	331	1322	3480/6285	.56	4.08	.60	.50	4
14	332	1322	3480/6285	.55	4.12	.71	.50	4
14	333	1322	3480/6285	1.51	3.05	.92	.50	4
14	334	1322	3480/6285	.79	3.98	.35	.50	4
14	335	1322	3480/6285	1.16	3.90	.98	.50	4
14	336	1322	3480/6285	1.27	5.41	.60	.50	4
14	337	1322	3480/6285	.69	5.33	.74	5.60	4
14	338	1322	3480/6285	.59	7.27	.44	5.60	4
14	339	1322	3480/6285	.57	9.90	.68	5.60	4
14	340	1322	3480/6285	.34	9.99	.54	5.60	4
14	341	1322	3480/6285	1.35	11.75	.68	5.60	4
14	342	1322	3480/6285	1.42	12.60	.83	5.60	4
14	343	1322	3480/6285	1.40	10.31	.73	5.60	4
14	344	1322	3480/6285	.45	15.65	.50	11.25	4
14	345	1322	3480/6285	.51	11.07	.59	11.25	4
14	346	1322	3480/6285	.59	13.41	.57	11.25	4
14	347	1322	3480/6285	1.33	15.32	.60	11.25	4
14	348	1322	3480/6285	1.31	18.32	.69	11.25	4
14	349	1322	3480/6285	1.35	15.42	.63	11.25	4
18	350	1924	6140/0185	.55	2.87	.61	.50	4
18	351	1924	6140/0185	.58	2.63	.79	.50	4
18	352	1924	6140/0185	.55	2.54	.37	.50	4
18	353	1924	6140/0185	1.50	3.77	.80	.50	4
18	354	1924	6140/0185	1.25	5.03	.53	.50	4
18	355	1924	6140/0185	1.08	4.95	.60	.50	4
18	356	1924	6140/0185	.53	5.79	.48	5.60	4
18	357	1924	6140/0185	.47	6.88	1.04	5.60	4
18	358	1924	6140/0185	1.47	6.36	.75	5.60	4
18	359	1924	6140/0185	1.35	4.74	1.74	5.60	4
18	360	1924	6140/0185	1.36	8.23	.66	5.60	4
18	361	1924	6140/0185	.40	10.89	.56	11.25	4
18	362	1924	6140/0185	.59	7.97	.82	11.25	4
18	363	1924	6140/0185	.51	7.23	.55	11.25	4
18	364	1924	6140/0185	1.46	5.80	.79	11.25	4

Table 8 Summary of the Test Site Data Obtained

SITE NO.	TEST NO.	QUAD SHEET	GRID COORD.	RATE in/s	AT PEAK		NORMAL STRESS psi	SAMPLE DEPTH in
					SHEAR STRESS psi	DISPL. in		
18	365	1924	6140/0185	1.27	9.15	1.05	11.25	4
18	366	1924	6140/0185	1.44	8.07	1.16	11.25	4
19	367	1924	6140/0280	.59	2.81	.86	.50	4
19	368	1924	6140/0280	.62	4.16	.86	.50	4
19	369	1924	6140/0280	.63	2.75	.65	.50	4
19	370	1924	6140/0280	1.37	3.08	1.33	.50	4
19	371	1924	6140/0280	1.38	3.28	1.82	.50	4
19	373	1924	6140/0280	.61	4.86	.55	5.60	4
19	374	1924	6140/0280	.65	5.78	.96	5.60	4
19	375	1924	6140/0280	1.26	5.00	1.08	5.60	4
19	376	1924	6140/0280	1.43	4.69	.50	5.60	4
19	377	1924	6140/0280	.54	6.07	.68	11.25	4
19	378	1924	6140/0280	.58	6.68	.73	11.25	4
19	379	1924	6140/0280	1.22	7.32	.56	11.25	4
19	380	1924	6140/0280	1.46	5.39	.61	11.25	4
20	381	2724	5240/0345	.58	1.38	.92	.50	5
20	382	2724	5240/0345	.50	1.54	.52	.50	5
20	383	2724	5240/0345	1.05	1.85	.58	.50	5
20	384	2724	5240/0345	1.24	2.08	.58	.50	5
20	385	2724	5240/0345	.53	2.81	.46	5.60	5
20	386	2724	5240/0345	1.30	3.48	.82	5.60	5
20	387	2724	5240/0345	1.46	3.76	1.31	5.60	5
20	388	2724	5240/0345	.37	4.08	.23	11.25	5
20	389	2724	5240/0345	.49	2.93	.67	11.25	5
20	390	2724	5240/0345	1.30	3.64	.63	11.25	5
20	391	2724	5240/0345	1.46	6.11	.96	11.25	5
20	392	2724	5240/0345	1.29	3.35	.28	11.25	5
21	393	2724	5375/9960	.47	1.90	1.15	.50	4
21	394	2724	5375/9960	.60	2.00	.73	.50	4
21	395	2724	5375/9960	.57	2.59	1.18	.50	4
21	396	2724	5375/9960	1.56	2.25	1.64	.50	4
21	397	2724	5375/9960	1.31	2.39	.70	.50	4
21	398	2724	5375/9960	.65	3.67	.75	5.60	4
21	399	2724	5375/9960	.61	4.45	.94	5.60	4
21	400	2724	5375/9960	1.41	4.15	.56	5.60	4
21	401	2724	5375/9960	1.50	6.00	1.63	5.60	4
21	402	2724	5375/9960	.60	6.35	.99	11.25	4
21	403	2724	5375/9960	.60	6.09	.74	11.25	4
21	404	2724	5375/9960	1.41	7.77	1.23	11.25	4
21	405	2724	5375/9960	1.35	8.61	.97	11.25	4
23	406	3908	8200/6815	.56	2.49	.70	.50	4
23	407	3908	8200/6815	.53	1.98	.62	.50	4
23	408	3908	8200/6815	.33	2.83	.18	.50	4
23	409	3908	8200/6815	1.26	3.06	.37	.50	4
23	410	3908	8200/6815	1.30	2.47	.74	.50	4
23	411	3908	8200/6815	1.27	2.09	.64	.50	4
23	414	3908	8200/6815	.58	7.80	.60	5.60	4

Table 8

Summary of the Test Site Data Obtained

SITE NO.	TEST NO.	QUAD SHEET	GRID COORD.	RATE in/s	AT PEAK		NORMAL STRESS psi	SAMPLE DEPTH in
					SHEAR STRESS psi	DISPL. in		
23	415	3908	8200/6815	1.32	5.77	.45	5.60	4
23	416	3908	8200/6815	1.09	5.41	.34	5.60	4
23	417	3908	8200/6815	.56	9.14	.40	11.25	4
23	418	3908	8200/6815	.71	8.46	.45	11.25	4
23	419	3908	8200/6815	1.10	8.83	.33	11.25	4
23	420	3908	8200/6815	1.35	8.55	.42	11.25	4
23	421	3908	8200/6815	1.39	9.52	.44	11.25	4
25	422	5734	6810/7780	.63	1.80	.68	.50	4
25	423	5734	6810/7780	.67	2.62	1.34	.50	4
25	424	5734	6810/7780	.75	1.33	1.24	.50	4
25	425	5734	6810/7780	1.35	2.10	1.09	.50	4
25	426	5734	6810/7780	1.63	1.91	1.49	.50	4
25	427	5734	6810/7780	1.58	1.61	.89	.50	4
25	428	5734	6810/7780	.65	2.96	.97	5.60	4
25	429	5734	6810/7780	.76	3.22	1.28	5.60	4
25	430	5734	6810/7780	.82	1.67	.38	5.60	4
25	431	5734	6810/7780	1.25	2.26	.55	5.60	4
25	432	5734	6810/7780	.59	4.07	1.04	11.25	4
25	433	5734	6810/7780	.71	2.68	.87	11.25	4
25	434	5734	6810/7780	1.26	2.54	.13	11.25	4
25	435	5734	6810/7780	1.50	3.55	.81	11.25	4
27	442	5934	8255/5535	.59	4.95	1.77	.50	4
27	444	5934	8255/5535	.58	4.40	1.49	.50	4
27	445	5934	8255/5535	1.18	4.15	.41	.50	4
27	446	5934	8255/5535	1.48	4.37	.79	.50	4
27	447	5934	8255/5535	.59	8.52	1.19	5.60	4
27	448	5934	8255/5535	.60	7.86	1.00	5.60	4
27	449	5934	8255/5535	1.24	9.35	.79	5.60	4
27	450	5934	8255/5535	1.25	8.07	.94	5.60	4
27	451	5934	8255/5535	.65	9.64	.68	11.25	4
27	452	5934	8255/5535	.65	9.50	1.36	11.25	4
27	453	5934	8255/5535	1.30	13.46	1.14	11.25	4
27	454	5934	8255/5535	1.42	9.97	1.00	11.25	4
27	455	5934	8255/5535	1.39	10.85	.98	11.25	4
28	457	6334	3535/1800	.48	11.11	.89	.50	5
28	458	6334	3535/1800	.55	9.01	.67	.50	5
28	459	6334	3535/1800	1.46	12.03	.67	.50	5
28	460	6334	3535/1800	1.37	10.49	.98	.50	5
28	461	6334	3535/1800	.60	15.30	.82	5.60	5
28	462	6334	3535/1800	.57	13.60	.89	5.60	5
28	463	6334	3535/1800	1.26	15.64	.66	5.60	5
28	464	6334	3535/1800	1.44	12.67	.69	5.60	5
28	465	6334	3535/1800	.52	18.08	.52	11.25	5
28	466	6334	3535/1800	.47	13.71	.63	11.25	5
28	467	6334	3535/1800	.56	13.60	.61	11.25	5
28	468	6334	3535/1800	1.15	22.11	1.18	11.25	5
28	469	6334	3535/1800	1.23	15.94	.65	11.25	5

Table 8

Summary of the Test Site Data Obtained

SITE NO.	TEST NO.	QUAD SHEET	GRID COORD.	RATE in/s	AT PEAK		NORMAL STRESS psi	SAMPLE DEPTH in
					SHEAR STRESS psi	DISPL. in		
28	470	6334	3535/1800	1.38	16.95	.83	11.25	5
31	474	7738	8480/4710	.58	2.45	1.17	.50	4
31	475	7738	8480/4710	.59	4.85	.70	.50	4
31	478	7738	8480/4710	1.40	4.67	.57	.50	4
31	479	7738	8480/4710	1.54	2.16	.83	.50	4
31	480	7738	8480/4710	.67	11.87	.68	5.60	4
31	481	7738	8480/4710	.68	11.90	1.58	5.60	4
31	482	7738	8480/4710	1.55	7.68	1.02	5.60	4
31	483	7738	8480/4710	1.42	4.86	1.61	5.60	4
31	484	7738	8480/4710	1.54	9.57	1.64	5.60	4
31	485	7738	8480/4710	.57	6.69	.90	11.25	4
31	486	7738	8480/4710	.59	9.29	1.67	11.25	4
31	487	7738	8480/4710	1.48	5.96	.78	11.25	4
31	488	7738	8480/4710	1.53	7.23	1.99	11.25	4
34	489	8118	8045/9530	.52	4.72	.39	.50	4
34	490	8118	8045/9530	.36	3.61	.19	.50	4
34	491	8118	8045/9530	1.28	5.48	.39	.50	4
34	492	8118	8045/9530	1.20	6.96	.45	.50	4
34	493	8118	8045/9530	.67	10.96	1.18	5.60	4
34	494	8118	8045/9530	.57	11.48	1.53	5.60	4
34	495	8118	8045/9530	1.23	13.79	1.12	5.60	4
34	496	8118	8045/9530	1.23	12.18	.62	5.60	4
34	497	8118	8045/9530	.59	12.81	1.05	11.25	4
34	498	8118	8045/9530	.60	12.72	.64	11.25	4
34	500	8118	8045/9530	1.40	15.95	1.01	11.25	4
35	501	6510	8480/7100	.52	4.43	.44	.50	6
35	502	6510	8480/7100	.51	3.36	.42	.50	6
35	503	6510	8480/7100	1.48	5.04	.66	.50	6
35	504	6510	8480/7100	1.49	3.81	.58	.50	4
35	505	6510	8480/7100	1.53	3.42	.68	.50	6
35	506	6510	8480/7100	.66	6.00	.73	5.60	6
35	507	6510	8480/7100	.57	6.36	.76	5.60	6
35	508	6510	8480/7100	1.44	4.91	.42	5.60	6
35	509	6510	8480/7100	1.53	3.75	1.08	5.60	6
35	510	6510	8480/7100	1.44	8.34	.80	5.60	6
35	511	6510	8480/7100	1.40	7.25	.44	5.60	6
35	512	6510	8480/7100	.60	10.16	.53	11.25	6
35	513	6510	8480/7100	.48	4.75	.26	11.25	6
35	514	6510	8480/7100	.66	5.96	.77	11.25	6
35	515	6510	8480/7100	1.51	5.04	.88	11.25	6

Table 9 Mean Values for the Correlation Coefficient r_i

	Soil Type				Plasticity		Moisture Content		Organic Ingredients	
	CC, ML, SM, OH, Pt		CL, ML, OH		0 - 100%					
	RCI	CI	RCI	CI	RCI	CI	RCI	CI	RCI	CI
0.5 psi	.455 ^{*)}	.487 ^{*)}	.509/.379	.504/.451	.581	.455	.729	.701	.441	.570
5.6 psi	.546	.544	.899/.683	.882/.455	.841	.843 ^{*)}	.766	.663	.702	.511
11.25	.481	.528	.905/.685	.896/.528	.836	.870	.642	.721 ^{*)}	.690	.541

*) Neg.Gradient
for CL, ML
Tests neglected

*) Neg.Gradient *) without Pt-Soils
for > 50%
Tests neglected

r_i	Correlation Quality
0.6 - 0.8	high accuracy
0.8 - 1	extremely high accuracy

Table 10 Comparison of Predicted and Measured Cone-Index Values

Site No.	Soil Type	Density pci	Cohesion psi	Friction angle deg	Mean Values				Cone-Index		
					Initial Modulus G the applied stresses (psi)	(psi/in.) for the average out of 5.6 and 11.25	depth = 4"	3-5" 1)			
								predic- ted	measur- ed		
USCS					0.5	5.6	11.25				
1	OH	.0585	1	18	140	500	480	490	71	64	65
2	CL	.0549	4.3	6	220	310	580	440	77	72	72
3	SM	.0376	3	8	180	320	450	380	65	66	64
7	Pt	.0564	3	12	150	410	440	420	90	58	58
9	ML	.0676	2.1	7	110	350	520	430	47	43	41
10	OH	.0607	1.5	12	100	80	220	150	42	44	40
11	CL	.0531	6	8	200	700	500	600	123	112	110
12	OH	.0636	7	0	150	290	520	400	74	96	96
14	OH	.0679	3	18	140	270	440	360	129	77	71
18	ML	.0760	2.8	7	170	240	260	250	53	49	47
20	SM	.0549	1.5	5	120	150	350	250	27	28	22
23	SM	.070	2	18	240	420	590	500	111 ²⁾	17	20
25/1	OH	.0549	1.7	12	70	80	190	140	45	67	68
25/2	OL	.0654	6	0	150	120	200	160	57	107 ⁵⁾	107 ⁵⁾
27	OH	.0524	4	7	190	700	420	560	82	90	88
28/1	OH	.0574	9	0	330	940	990	970	102	78 ³⁾	80 ³⁾
28/2	CH	.0629	3	0	100	300	700	500	36	110 ³⁾	101 ³⁾
34	OH	.0481	4	0	350	310	730	520	47	53	53
35	Pt	.0643	4	5	200	240	260	250	61	61 ⁴⁾	63 ⁴⁾

- 1) for comparison purposes a profile value
btw. 3-5" was recorded here
- 2) deviation needs to be investigated further
- 3) sample depth 5"; 4-6"
4) " " 6"; 5-9"
5) " " 9"; 6-12"

DATE
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0-8