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A numerical taxonomic study of the Brachylaena discolor-uniflora species complex (Compositae)

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A NUMERICAL TAXONOMIC STUDY OF THE BRACHYLAENA DISCOLOR - UNIFLORA SPECIES COMPLEX (COMPOSITAE).

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taxonomy appeared valid from the numerical study. This study has been criticised by Burtt, et. al. (1970) but Sneath and Sokal (1973) contend that the numerical results yielded new and more convincing phenons which are better related to the geographic distribution and several additional characters. An even more drastic reassessment of current views is posed by the study of Young and Watson (1970) on the families of the dicotyledons.

The results of some numerical studies have resulted in an increase in the number of rank categories within a group but Sneath and Sokal (1973) do not feel that numerical methods have resulted in a marked tendency toward either " lumping " or " splitting " of taxa when all groups of organisms are considered. They suggest that for the most part the results have greatly improved our knowledge of the finer points of the relationships that have been studied. Sneath and Sokal (1973) contend that the results of studies using numerical methods have often been confirmed by subsequent work and this has been true of studies such as those by Drury and Randal (1969) and McNeill, et. al. (1969). Altough the number of studies where confirmatory evidence has resulted is small, it is interesting to note that cases where clear and apparently acceptable results have been contradicted by later work seem to be uncommon (Sneath and Sokal, 1973). In most cases the discrepancies appear to be due to inadequate techniques or methods which have been used inappropriately for the problem under consideration.

Other details obtainable from numerical studies include patterns of phenetic variation. Hyperspherical or elongated phenons may be revealed, and these may show trends or clines in ordination studies, as well as revealing chains of intermediate forms (Sneath and Sokal, 1973). Phenetics also gives abundant information on the pattern of geographical variation, the reality (or otherwise) of subspecies and races, and the occurence of temporal phenetic changes (for example see, Mason, et. al., 1968).

According to Sneath and Sokal (1973) numerical taxonomy has a very important part to play in scientific methodology. It appears to have given deeper insight into the nature of the taxonomic process and the nature of

ABSTRACT

The *Brachylaena discolor* - *uniflora* species complex (comprising *B. discolor* subsp. *discolor*; *B. discolor* subsp. *transvaalensis*; and *B. uniflora*) is endemic to south-eastern Africa. The currently recognised taxa of this complex are all large dioecious shrubs or trees. Previous workers analysed different sections of the complex on a regional basis but each treatment omitted a different section of the complex. The objective of this study was to use phenetic methods to analyse the morphological diversity of the complex throughout its range of distribution. A total of 150 female and 138 male specimens were collected and 48 (15 vegetative, 33 reproductive) and 50 characters (15 vegetative, 35 reproductive) were measured for each of the sexes respectively. The data were standardised and subjected to various analyses including Cluster (UPGMA, WPGMA, Complete Linkage), PCA, and Canonical Discriminant Analysis. Results for female and male data sets suggest that the complex consists of a coastal group (*B. discolor* subsp. *discolor*) and an inland group (*B. discolor* subsp. *transvaalensis*). As morphological differences between the resulting groups were small it was considered appropriate to separate them at the subspecific level.

taxonomic judgement concepts, such as size and shape, have been more effectively studied as a result of numerical methods. In addition many questions which taxonomists find difficult or awkward have been raised: what is a taxon?; what is a character?; what is resemblance? Sneath and Sokal (1973) contend that even if the results of numerical taxonomy have not always been useful, the questions raised by the use of these methods certainly has been.

Based on the current trends in taxonomic work it would appear that the use of numerical methods is becoming much more common. Numerical taxonomy has certainly not become the " miracle cure of taxonomic ills " as many of its early proponents claimed that it would but it has certainly earned a place as a useful taxonomic method. It is in this capacity, as a taxonomic method, that the future of numerical phenetics lies. The primary value of numerical methods is exploratory, heuristic or communicatory (Neff and Marcus, 1980) and this approach is being used more frequently in biosystematics, particularly in studies which have adopted a synthetic approach where data from several different areas is assimilated and used to solve a particular taxonomic problem (for example see, Paris and Windham, 1988). Given all of the above, numerical phenetics is certainly a useful and valid approach to adopt when dealing with a complex taxonomic problem. The future proponents of numerical phenetics must avoid the mistakes of the past and should not attempt to overstate the case for numerical taxonomy but should rathe. allow it to take its place as one of the many available tools which can be used to study the diversity of living organisms.

DECLARATION

I declare that this dissertation is my own, unaided work. It is being submitted for the degree of Master of Science in the University of the Witwatersrand, Johannesburg. It has not been submitted before for any degree or examination in any other university.

.....
(Name of Candidate)

...16th... day of ~~October~~, 19~~88~~

3.0 MATERIALS AND METHODS

3.1 *Field Collection*

The distribution and locality information for the *Brachylaena discolor - uniflora* species complex was obtained from the National Herbarium Computer Information System (PRECIS) and from specimens in the holdings of PRE, PRF, and J. Using this information extensive field collections were made during the flowering period of the *B. discolor - uniflora* species complex (July 9 - October 9) in 1985. The area covered ranged along the entire south-eastern coast of South Africa from Port Elizabeth in the south to Kosi Bay in the north as well as several inland areas of Natal (Fig. 2). In the Transvaal region the area covered extended from the Swaziland border in the Barberton - Komatipoort district in the south to the Soutpansberg - Messina district in the north (Fig. 2). Several of the areas visited were nature reserves or wilderness areas where general plant collecting has not been regularly undertaken. Due to political tensions in the southern African region it was not possible to collect material from Mozambique and the required permission to collect material in Swaziland was not obtained.

The map of collection sites (Fig. 2) has been drawn up and is based upon the degree reference system of Edwards and Leistner (1971). Each symbol on the map represents single, or all, gatherings made inside the quarter degree square in which the symbol appears. A total of 150 female and 138 male plants were sampled. Specimens were pressed and dried and then used as the material from which measurements were made and upon which this study is based. Herbarium specimens in the holdings of various herbaria were also initially considered for inclusion in the data analysis. Due to the large differences in age (i.e. only buds present - full seed set) and the low number

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(1) The Director, Natal Parks, Game and Fish Preservation Board;
(2) The Secretary for Agriculture and Forestry, Department of Agriculture and Forestry, Kwazulu Government Service;
(3) The Director, Bureau of Natural Resources, Department of Economic Affairs, Kwazulu Government Service;
(4) The Director General, Department of Environment Affairs, Republic of South Africa;
(5) The Director of Nature Conservation, Transvaal Provincial Administration;
(6) The Director, Bernard Price Institute for Palaeontological Research, University of the Witwatersrand;
(7) The Director General, Department of Agriculture and Forestry, Republic of Venda;
(8) The Director General, Department of Agriculture and Forestry, Republic of Ciskei;
(9) The Secretary General, Department of Agriculture and Forestry,

FIGURE 2:- Map of southern Africa showing collection sites of the *Brachylaena discolor - uniflora* species complex.

Republic of Transkei;
(10) The Secretary, Department of Agriculture and Environmental Conservation, Lebowa Government Service;
(11) The Secretary, Department of the Chief Minister and Economic Affairs, Division of Nature Conservation and Tourism, Gazankulu Government Service.

The Director of the Botanical Research Institute is thanked for the use of data produced by the Pretoria National Herbarium Computerized Information System (PRECIS) from which distributional data was obtained.

The author is indebted to the curators of the following herbaria from which type material was obtained on loan:-
(1) K
(2) COI
(3) G

The herbarium acronyms used here and throughout this treatment are those recommended by Index Herbariorum (Holmgren, et. al., 1981).

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Mrs. Irma Hartley and Mrs. Clare Swanson of the C. E. Moss Herbarium at the University have helped in many ways, and Dr. Patricia Forbes is to be particularly thanked for her many helpful comments and ideas, as well as the excellent drawings which are presented in the materials and methods section.

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of male specimens in most collections it was decided to exclude the herbarium material from the analysis. Voucher specimens of all 288 individuals used in the analysis are deposited in the C. E. Moss Herbarium, Johannesburg (J).

3.2 Laboratory Analysis

3.2.1 Selection and Measurement of Characters

Characters were selected to include both vegetative and reproductive features and to include characters which are reliable and consistent, and which could be assessed with relative ease. Characters selected fell into four main categories, these included:- 1. vegetative characters (principally leaf characters), 2. characters of the compound inflorescence, 3. capitulum characters, and 4. floret characters. A further category which consisted of various ratios was added later (Table 2). Initially a total of 63 characters (18 vegetative, 45 reproductive) on 150 female operational taxonomic units (OTUs) and 62 characters (18 vegetative, 44 reproductive) on 138 male OTUs were selected and measured (Table 2).

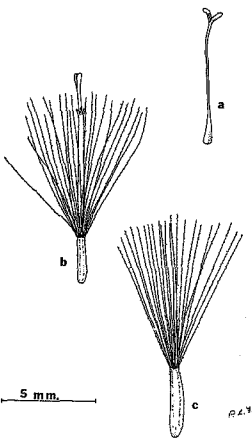
Several characters require some explanation, for example, character 19 (Table 2), the inflorescence ratio (INFRAT), was calculated by multiplying character 21, the number of capitula per raceme or panicle (NOFHEAD) by character 22, the internode length within the raceme (INTNDLN). The resulting value was then divided by character 20, the length of the raceme or panicle (RACMLEN) (Table 2). Other examples include the base of the style which was found to be expanded or swollen in the female specimens (Fig. 3a) and both the length (character 49) and the width (character 50) of this region were measured (Table 2). The total floret length (character 56) was measured from the end of the achene to the tip of the exerted style (Fig. 3b). The number of veins per achene (character 54) were determined by dissecting the achene and counting the number of vascular strands in the fruit wall. The length of the pappus (character 44) and the length and width

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Five measurements per character were made for all characters, except the leaf characters, and the means of these values were used in the data analysis. The leaf characters were analysed according to the method outlined by Hill (1980). A single measurement per character per specimen was made, as only the sixth leaf below the raceme or panicle was used in an attempt to make these measurements more comparable. All measurements were made from the dried herbarium material except for the floret characters. In this case the florets were first softened by boiling, to facilitate easier dissection and handling.

The measurements from each character variable were then tested for normality using the UNIVARIATE procedure on Statistical Analysis Systems (SAS) (SAS Institute Inc., 1985). This resulted in the Log_{10} transformation of two characters; inflorescence ratio (INFRAT) and number of capitula per raceme or panicle (NOFHEAD) as they were both skewed extensively to the right. The resulting variables (NWINFRAT and NWNOFHD respectively) replaced the original characters in both data sets (Table 2). No other characters required adjustment at this stage. Those characters which showed no, or little, variation (< 10 %) throughout the data sets, were removed. Their status has been recorded in Table 2 as R/inv. At this stage character 54, achene hairiness, was also removed, as this character was found to vary extensively even within a single plant specimen.

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MO = Males Only;
FO = Females Only.

2. Status - AB = Accepted for Both Data Sets;
AM = Accepted for Male Data Set Only;
AF = Accepted for Female Data Set Only;
R/inv = Rejected due to insufficient variation;
R/var = Rejected due to excessive variation;
R/cor = Rejected due to Correlation;
(F = Female, M = Male);
R/nrm = Rejected due to non-normality.

	Character	Code	Data Set	Status
1.	Habit- (tree or shrub)		BS	R/inv
2.	No. of Stems - (one or many)		BS	R/inv
Leaves				
3.	Max. Leaf Length (mm)	MXLNL	BS	AB
4.	Max. Leaf Width (mm)	MXWDL	BS	AB

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8.	Secondary Vein Angle - 6th vein	VANGS	BS	AB
9.	Secondary Vein Angle - basal vein	VANGB	BS	AB
10.	Apex Angle (deg.)	APXAN	BS	AB
11.	Position of 20% Max. Width Apically (%)	APXPS	BS	AB
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13.	Position of 20% Max. Width Basally (%)	BSPS	BS	AB
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22.	Internode Length within Raceme (mm)	INTNDLN	BS	AB
Inflorescence				
23.	No. of Rows of Bracts	NBR	BS	AB
24.	Inner-most Bract Max. Length (mm)	IBRL	BS	AM R/corF
25.	Outer-most Bract Max. Length (mm)	OBRL	BS	AM R/corF
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30.	Involucre Max. Width (mm)	INMXW	BS	AF R/corM
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34.	Inflorescence Max. Width (mm)	INFW	BS	AB
35.	No. of Florets per Inflorescence	NFLOR	BS	AB
	Florets			
36.	Corolla Max. Length(mm)	CRMXLN	BS	R/cor
37.	Corolla Max. Width (mm)	CRMXWD	BS	AB
38.	Corolla Min. Width (mm)	CRMNWD	BS	AB
39.	Corolla Lobe Max. Length (mm)	CORLLN	BS	AB
40.	Corolla Lobe Max. Width (mm)	CORLWD	BS	AB
41.	Corolla Tube Opening Max. Width (mm)	CORTWD	BS	AB
42.	No. of Veins per Corolla	NVPCOR	BS	R/inv
43.	Length of Corolla to Point of Filament Attachment (mm)	LCTPFA	MO	AM
44.	Pappus Max. Length (mm)	PAPMXLN	BS	R/cor
45.	Filament Max. Length (mm)	FMXLN	MO	AM
46.	Anther Max. Length (mm)	AMXLN	MO	AM
47.	Style Max. Length (mm)	STMXLN	BS	R/cor
48.	Style Lobe Max. Length (mm)	STMXLOL	BS	AB
49.	Style Base Max. Length (mm)	STBLN	FO	AF
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Ratios				
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58.	Inner-most Bract Max. Length to Max. Width	IBLWR	BS	AB
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1.0 INTRODUCTION

1.1 General Background

The Composite genus *Brachylaena* Linn. is mainly tropical to sub-tropical in distribution and native to Africa, Madagascar and the Mascarene Islands (Palmer & Pitman, 1973). The 13 taxa which are currently recognised (Humbert, 1962; Gibbs Russell, 1984) are, with the exception of *B. ilicifolia*, all large, dioecious shrubs or trees with simple alternate leathery leaves, smooth above but paler and hairy below; the flowering heads are discoid, with few to many white or yellow florets, and are arranged in racemes or panicles. The floral disc is surrounded by involucral bracts which are shorter than the flowers. The generic name, which is based on the Greek words meaning "short" and "cloak" (Palmer & Pitman, 1973), refers to these short bracts.

Brachylaena is recognised as being difficult taxonomically (Palmer & Pitman, 1973) and has not been satisfactorily placed within any of the tribes of the Compositae (Skvarla, et. al., 1977). One area of confusion involves the *Brachylaena discolor* - *uniflora* species complex which is composed of three southern African taxa - *Brachylaena discolor* DC. subspecies *discolor*, *B. discolor* DC. subspecies *transvaalensis* (Phill. et Schweick.) J. Paiva and *B. uniflora* Harv. - all of which can grow into tall trees which resemble one another vegetatively. The confusion between these taxa is largely due to the high degree of variation within the complex and could be interpreted in several ways. Hilliard (1977) has suggested that there may be a single species showing variation in the number of flowers in a head which could be loosely linked to an ecological cline, or that there may be two species that have met and are hybridizing.

Phillips and Schweickerdt (1937), who were the last to revise the South African members of the genus, separated the taxa largely by the number of

The remaining characters were then assessed on their degree of redundancy in comparison with each of the other characters. This was achieved by calculating Pearson's product-moment correlation (Appendix I) and Spearman's rank order correlation (Appendix I) using the CORR Procedure on SAS (SAS Institute Inc.,1985). The resulting covariance matrix (Appendix I), obtained from both correlation measures, was then used to determine the degree of redundancy of each of the character variables. It was decided to exclude one character from any highly correlated (i.e. with $r > 0.9$) pair, since inclusion of both of these characters would contribute little additional information. It has been argued that the inclusion of highly correlated characters in some multivariate analyses, such as cluster analysis, can lead to a distortion of the results by introducing a weighting factor. There is still dispute over whether such distortions are biologically significant or not (Rohlf, 1971; Sokal and Sneath, 1973).

Those character variables whose status in Table 2 are recorded as R/cor were removed at this stage, while those recorded as AB, AF or AM were retained in both data sets, the female data set or the male data set, respectively. A number of characters rejected in this way were then added back into the character set in the form of ratios (Table 2). The ratios were then subjected to the same type of tests as the other character variables to assess their degree of redundancy, and the results recorded in the same way (Table 2). This resulted in 48 characters (15 vegetative, 33 reproductive) being retained in the basic female data matrix and 50 characters (15 vegetative, 35 reproductive) being retained in the basic male data matrix.

In spite of the confidence that has been placed in ratios by many systematists, Phillips (1983) points out that there are several serious statistical problems associated with their usage. Atchley, et. al. (1976), following a review of the literature and an examination of sample data concluded that "... not only have biologists been misled as to what ratios actually show but ratios greatly confuse, and in many cases, invalidate critical statistical or biological analyses of the original data." Atchley, et. al.

florets per inflorescence. They listed, among others, *B. discolor* DC., *B. uniflora* Harv. and *B. transvaalensis* Phill. et Schweick.. The number of flowers in the head in each species according to these authors was as follows:

	Male Heads	Female Heads
B. discolor	11 - 50	11 - 26
B. uniflora	1 - 3	4
B. transvaalensis	11 - 16	8

Hilliard (1977) points out that the names *B. discolor* and *B. uniflora* may have been given to the extremes of variation in a range of head size as there is a strong tendency for the largest number of flowers in a head to occur on specimens growing on coastal dunes. The big headed plant (*B. discolor* subsp. *discolor* sensu stricto) is confined to, and very common in dune scrub and forest from Uitenhage in the southern Cape to Inhambane (Bazaruto Island) in Mozambique. The small headed plants (*B. uniflora* sensu stricto) are confined to Natal forests from near sea level up to c. 1200m. Away from the beach there is rapid and continuous gradation from large heads to small. Plants with medium sized heads (*B. discolor* subsp. *transvaalensis* sensu stricto) are confined to the mountainous regions of the north-eastern Transvaal.

Hilliard and Burtt (1971) have shown that the number of florets per head is not a reliable character to differentiate between the above taxa as several intermediates are known to occur. This observation has been supported by Palmer and Pitman (1973). This has led to confusion in the field as the foliage of all three taxa is indistinguishable and they all flower in June, July and August. A reevaluation of this complex, using a "new" approach was clearly necessary. After careful consideration it was decided that a numerical approach would probably be most meaningful at this stage as the

(1976) also indicate that there are two basic statistical difficulties with ratios. Firstly, the distribution of ratios is not normal, being more skewed to the right and leptokurtic than the original variables making the determination of confidence limits difficult. Secondly, ratios do not standardise for size, there being a relatively high correlation between the ratio variable and the size variable. Several authors, including Blackith and Reyment (1971), Schuessler and Hills (1978) have advocated the use of a logarithmic transformation to determine a value for the ratio but according to Atchley and Anderson (1978) this procedure is also subject to many of the same difficulties. Despite the problems reported with the use of ratios in numerical analyses it was decided to retain all of the ratios that were not highly correlated as several of the individual characters, which contributed to these ratios, had been excluded from the original data sets.

3.2.2 Cluster Analysis

Cluster analysis is used for analysing a single data array to obtain an explicit separation of OTUs or variables into groups or clusters that are more similar within groups than between groups (Sneath and Sokal, 1973; Neff and Marcus, 1980; Dunn and Everitt, 1982). The techniques can be broadly classified into two types, namely hierarchical and non-hierarchical. The hierarchical techniques are particularly popular in biological studies and have been used extensively in taxonomy (Sneath and Sokal, 1973; Neff and Marcus, 1980; Dunn and Everitt, 1982). Hierarchical clustering may result in the forming of a coarser partition from a finer one, or it may involve the break-up of an entire set of OTUs into increasingly finer partitions (Sneath and Sokal, 1973). These are referred to as agglomerative and divisive clustering techniques respectively. Agglomerative hierarchical techniques operate on an inter-OTU proximity matrix with each OTU initially being considered a separate cluster (Dunn and Everitt, 1982). The two OTUs having the highest similarity (or smallest distance) are then grouped together and the proximities between each of the remaining OTUs and this two member cluster calculated using one of the methods outlined

primary value of numerical methods is exploratory, heuristic, or communicatory (Neff & Marcus, 1980). That is, these analyses would serve as a means of summarising morphological variation and searching for relationships. Furthermore, it would enable a critical review of the morphological features and might elucidate certain characters which could be useful in field identification. It is also relatively inexpensive, compared to other methods, and may serve to indicate the approach that would best resolve any of the other problems within the complex. The numerical approach has been used successfully to deal with complex problems of a similar nature in several other groups (Zandee & Gins, 1982; Bayer, 1985; Decker & Wilson, 1986; Giles & Lefkovitch, 1986; Moret, et. al., 1986; Randall & Hilu, 1986; Zaharof, 1986) and was considered an adequate method for dealing with the *B. discolor* - *uniflora* species complex at this stage.

1.2 General description of plants and distribution

The currently recognised taxa of this group are all large dioecious shrubs or trees usually up to c.15m high but individuals up to 30m have been reported in the Transvaal (Paiva, 1972). The leaves are alternate with or without short petioles, obovate-oblong, obovate-lanceolate or oblong-elliptic, obtuse or slightly acute at the apex, cuneate at the base, with the margins entire or toothed. Venation is pinnate with 6 to 10 pairs of lateral nerves which are grooved on the upper surface but prominent below. The flowering heads contain creamy-white to yellow flowers and are arranged in axillary or terminal racemes. The floral disc is surrounded by the involucral bracts, arranged in 4 - 6 series; bracts are ovate to lanceolate or elliptic-lanceolate in shape, and variously tomentose. The male florets have linear anthers, tailed at the base, and a cylindrical style which has ovate to lanceolate style arms exerted from the anther tube. There is only a minute rudimentary ovary. The pappus is less copious and shorter than in female florets, length 4 - 5mm. The female florets have a cylindrical, grooved or angled ovary with varying degrees of hair cover. The style is cylindrical, but swollen at

below. This process continues with, at each stage, the number of groups being reduced by one, until the final point where all the OTUs are combined into a single cluster (Sneath and Sokal, 1973; Dunn and Everitt, 1982).

Cluster analysis and the resulting phenograms were generated using the NTSYS package of Rohlf, et. al. (1974). The basic data matrices (both male and female data sets) were standardized by the STAND sub-routine of NTSYS. This routine transforms variables so they have a mean of zero and a standard deviation of one. It is commonly used in numerical taxonomic studies in order to place all characters or variables on an equally weighted basis before the computation of correlation or distance coefficients. The correlation, distance, and euclidean distance matrices (Appendix II) were then computed using the SIMINT sub-routine. Cluster analysis was carried out by the TAXON sub-routine and the following types of cluster analysis were used:

1. Unweighted pair-group method using arithmetic averages (UPGMA),
2. Weighted pair-group method using arithmetic averages (WPGMA),
3. Complete linkage cluster analysis (COMPLETE),
4. Single linkage cluster analysis (SINGLE),
5. Unweighted pair-group method using centroid averaging (UPGMC),
6. Weighted pair-group method using centroid averaging (WPGMC).

The cophenetic correlation coefficient is the most common method for evaluating the match between the original proximity matrix and the resulting phenogram (Dunn and Everitt, 1982). Cophenetic values were generated for each resulting phenogram using the COPHENETIC sub-routine. Those forms of cluster analysis which showed a low cophenetic correlation (coph. < 0.6) and showed evidence of "chaining" were excluded. Chaining refers to the tendency of the technique to cluster together, at a relatively low level in the phenogram, distinct groups of OTUs linked by a "chain" of OTUs lying between the groups (Dunn and Everitt, 1982). Due to this property the single linkage method may fail to resolve relatively

the base, with the style arms ovate to linear and exerted from the corolla tube. The achene is ellipsoid, 5 - 6 ribbed with varying degrees of hair cover. The pappus is 6 - 8 mm long.

The *Brachylaena discolor - uniflora* species complex is clearly distinguishable from other species of *Brachylaena*. They are distinguished from *B. neriifolia* and *B. glabra* by the under surface of the leaves which in *B. neriifolia* and *B. glabra* are smooth or covered in reddish hairs, while in the *B. discolor* group the under surface is hairy and white, grey or silver in colour. *B. ilicifolia* and *B. elliptica* are most easily distinguished from the *B. discolor* complex by the shapes of their leaves which are distinctive. The most distinctive feature of *B. huillensis* which separates it from all other members of *Brachylaena* are the densely velvety-white involucral bracts. In all of the other species of *Brachylaena* the involucral bracts are often tomentose and tinged with white but they do not have the white-velvety appearance of *B. huillensis*. These and several other features clearly distinguish the *Brachylaena discolor - uniflora* species complex from other members of the the genus *Brachylaena* in southern Africa.

The plants of this complex are distributed along the south-eastern coast of southern Africa from Uitenhage northwards along the Natal coast and into Mozambique as far north as Inhambane (Bazaruto Island). The distribution also continues inland in the northern part of its range, from northern Natal, across Swaziland and into the north-eastern Transvaal as far north as Messina and as far west as Rustenburg (Figure 1).

1.3 Taxonomic and nomenclatural history

De Candolle described *B. discolor* in 1836. In 1843 C. H. Schultz 'Bipontinus' described *B. natalensis* which was incorporated into *B. discolor* by Harvey in 1865. In the same treatment Harvey described *B. uniflora* which he listed under "imperfectly known species". The confusion in the classification of these species is largely due to the high degree of variation within the complex, which probably makes it the most difficult portion of the genus to

distinct groups if a number of intermediate OTUs are present (Blackith and Reyment, 1971). This resulted in the retention of the first three methods listed above (namely UPGMA, WPGMA and COMPLETE) while the last three methods (SINGLE, UPGMC, and WPGMC) were discarded. The resulting phenograms (Section 4.1), nine per data set, were then analysed.

3.2.3 Principal Components Analysis

Principal components analysis (PCA) is widely used as a dimension reducing technique. It results in a summary of as much of the variation in the data as possible in a few dimensions with a minimum loss of information (Blackith and Reyment, 1971; Sneath and Sokal, 1973; Neff and Marcus, 1980; Dunn and Everitt, 1982). The aim of PCA is to describe the dispersion of n-objects in p-dimensional space by introducing a new set of orthogonal linear coordinates (i.e. linear in the original coordinates), so that the sample variances of the given objects with respect to these derived coordinates are in decreasing order of magnitude (Chatton, 1982). Thus, the first principal component is such that the projections of the given points onto it have maximum variance among all possible linear coordinates, the second principal component has maximumum variance subject to being orthogonal to the first, and so on (Blackith and Reyment, 1971; Sneath and Sokal, 1973; Neff and Marcus, 1980; Chalton, 1982; Dunn and Everitt, 1982).

Principal components analysis and the resulting projections were produced using the NT-SYS package of Rohlf et. al. (1974). The basic data matrices (both male and female) were standardised in the same way as for the cluster analysis (Section 3.2.2) and the correlation matrices were computed using the SIMINT sub-routine. The PCA was generated by the FACTOR sub-routine and the first three components plotted (Section 4.2).

Figure 1:- Map of southern Africa: Showing known distribution of the *Brachylaena discolor* - *uniflora* species complex.

3.2.4 Discriminant Analysis

(i) Canonical Variates Analysis

Canonical variates analysis (CVA) is the term widely used to refer to a classical discriminant analysis done with the goal of dimension reduction, usually with the results expressed as a histogram or in bivariate plots (Neff and Markus, 1980). CVA operates on data which is assigned *a priori* into groups and the method can be used to identify ordering of the groups rather than an ordering of the objects (Klecka, 1980; Neff and Marcus, 1980; Chalton, 1982). The calculations for canonical variates are similar to those for principal components analysis and in both cases transformed axes are produced. The first axis is inclined in the direction of the n-objects. The second axis is perpendicular to the first and inclined in the direction of the next greatest variability, and so on for the subsequent axes. In principal components analysis, the latent vectors are orthogonal to each other while in canonical variates analysis this is not generally so (Blackith and Reyment, 1971). Canonical variates analysis can be used as a method of discriminant analysis where the aim is to use the linear function or functions, to assign an object, whose group is unknown, to one of the known groups (Klecka, 1980; Chalton, 1982). CVA was used here to obtain a measure of distance between the groups in low-dimensional space.

A canonical variates analysis was carried out using the CANDISC subroutine on SAS (SAS Institute Inc.,1985). The OTUs were identified and grouped according to the currently accepted taxonomy (Gibbs Russell, 1984). Thus, three groups resulted namely a group consisting of *B. discolor* subsp. *discolor* individuals, a group consisting of *B. discolor* subsp. *transvaalensis* individuals, and a group of individuals identified as *B. uniflora*. The resulting canonical coefficients were then plotted against one another (Section 4.2). This plot was used to test the coherence or "tightness" of the preselected groups and was used to verify the previous division into groups which was based on the cluster analysis and the existing taxonomy. The complete output from this routine is presented as Appendix IV.

(ii) Stepwise Discriminant Analysis

Stepwise discriminant analysis is a method which can be used to select the most useful discriminating variables (Klecka, 1980). A forward stepwise procedure selects the individual variable which provides the greatest discrimination. The procedure then pairs this first variable with each of the remaining variables, one at a time, to locate the combination which produces the greatest discrimination. The variable which contributed to the best pair is selected. The procedure goes on to combine the first two with each of the remaining variables to form triplets. This procedure continues until all possible variables have been selected or the remaining variables do not contribute a sufficient increment (Klecka, 1980). The procedure could also operate in the backward direction in which all variables are initially considered to be "in" and the worst one is cast out at each step. Forward and backward selection can also be combined (Klecka, 1980). This involves a forward selection procedure with each step starting with a review of the variables previously selected. If any of these variables no longer makes a sufficient contribution to the discrimination, it is rejected although it remains eligible for reselection at a future step.

The SAS (SAS Institute Inc., 1985) sub-routine STEPDISC, with combined forward and backward stepwise selection was used to determine the order of importance of the characters giving the best separation for the groups selected. The stepwise selection criterion used in the analysis was Wilk's Lambda, which is a measure of group discrimination. The complete output from this routine is presented as Appendix III. Male and female data sets were run separately for both discriminant analyses and the standardised values used in both cases.

deal with taxonomically. During the latter part of the 19th century and first quarter of the 20th century several general floras were published, which included treatments of *Brachylaena*, (Engler & Prantl, 1890; Wood & Evans, 1898; Wood, 1908; Sims, 1909; Bews, 1921; Henkel, 1934) these provided syntheses of the previous literature on this taxon as well as keys and descriptions to aid in identification but little new information was added.

Phillips and Schweickerdt (1937) described a new species, *B. transvaalensis*, related to *B. discolor* and *B. uniflora*, in their revision of the South African species of *Brachylaena*. Hilliard and Burtt (1971) questioned the validity of the taxonomy employed by Phillips and Schweickerdt with regard to the Natal region and concluded that there were not three independent species present in Natal.

They indicated that the name could be valid in the type locality (Soutpansberg, N. Transvaal) but that in Natal the name merely referred to plants that were intermediate between the extremes recognised as *B. uniflora* and *B. discolor*.

Paiva (1972) revised what he called "the *B. discolor*-complex" and created several subspecies and varieties. He argued that the group was very variable and that the components have overlapping geographical distributions and intergrade morphologically. Two subspecies, *discolor* and *transvaalensis*, were described. The former was further divided into two varieties based largely on differences in the number of rows of bracts and the dimensions of the involucre. Paiva did not include *B. uniflora* Harv. in this work as it fell outside the Flora Zambesiaca area. He wrote: "We don't include *Brachylaena uniflora* Harv., because it doesn't belong to our area and, so, we avoid further problems." This revision by Paiva forms the basis of the taxa currently recognised by Gibbs Russell (1984) (Table I).

The most recent contribution has come from Hilliard (1977) who has included all subspecies and varieties as well as *B. uniflora* under *B. discolor* for the Natal region. Both this work and that of Paiva (1972) are inadequate for solving this particular species-complex problem as they were conducted

4.0 RESULTS

4.1 Cluster Analysis

Clustering was used to determine what clusters could be revealed in the absence of prior assignment of OTUs to particular groups. In this way, the groups of plants were determined solely on the basis of their phenetic similarity. Cluster relationships between members of the complex are illustrated in Figures 4 - 12 (for the female data) and Figures 13 - 21 (for the male data). Initial clustering in both data sets occurs between OTUs from the same or neighbouring localities. This feature is common to each of the techniques employed. At the highest level of clustering a similarly consistent result is obtained for both groups of data and these groupings concur with those apparent from Principal Components Analysis (Section 4.2) and from Canonical Discriminant analysis (Section 4.3).

The relationship between clusters at the highest level is remarkably consistent for both groups of data and results in the same OTUs being placed in the same or similar groups regardless of the clustering algorithm or coefficient employed (Table 3). The cophenetic correlation coefficients of all of the methods presented are reasonably high, ranging from 0.722 - 0.631 for the female data set and from 0.774 - 0.623 for the male data set (Table 4), which indicates that the resulting phenograms are an adequate representation of the original resemblance matrices.

The results obtained from using single linkage (SINGLE), weighted pair group method using centroid averaging (WPGMC), and unweighted pair group method using centroid averaging (UPGMC) with the distance coefficient, were rejected and are not included as the cophenetic correlation coefficients obtained were 0.506, 0.522 and 0.636 respectively and all

Table 1 :- Currently recognised taxa of the *Brachylaena discolor - uniflora* species complex for southern Africa (Gibbs Russell, 1984)

B. discolor DC. subsp. *discolor*
var *discolor*

B. discolor DC. subsp. *discolor*
var. *mossambicensis* J. Paiva

B. discolor DC. subsp. *transvaalensis*
(Phill. et Schweick.) J. Paiva

B. uniflora Harv.

Table 3:- Listing of OTUs and their Group Allocation Based on the Results of the Different Clustering Techniques and Coefficients Used. (Both Data Sets).

Key:- 1. Data Set - M = Male; F = Female.
2. Clustering Algorithm -
UPG = UPGMA; WPG = WPGMA;
COM = COMPLETE.
3. Coefficient - DIS = DISTANCE;
COR = CORRELATION;
EUC = EUCLIDEAN DISTANCE.

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
039	F	1	1	1	1	1	1	1	1	1
040	M	2	2	2	2	2	2	2	1	2
041	M	2	2	2	2	2	2	2	1	2
042	F	2	2	2	2	2	2	2	2	2
043	F	1	1	1	1	1	1	2	1	2
044	M	2	2	2	2	2	2	2	1	2
045	F	2	2	2	2	2	2	2	2	2
047	F	2	2	2	2	2	2	2	1	2
048	M	2	2	2	2	2	2	2	1	2
049	F	2	2	2	2	2	2	2	1	2
050	F	2	2	2	2	2	2	2	2	2
053	F	2	2	2	2	2	2	2	1	2
054	F	2	2	2	2	2	2	2	2	2
055	M	2	2	2	2	2	2	2	1	2
056	M	2	2	2	2	2	2	2	1	2

on a regional basis and each treatment omits a different section of the complex. Thus, a study conducted throughout the range of distribution of each of the elements of the complex was clearly necessary.

1.4 Objectives

The objectives of this study were to use phenetic methods to analyse the large morphological variation within the *Brachyiaena discolor - uniflora* species complex. The results of this analysis would then be used to determine whether the observed variation could be attributed to clinal variation, hybridization or simple unorganised variation without any clear trend. A further objective was to use these findings to evaluate the presently accepted taxonomic treatment. In order to base the investigation on a sample large enough to reflect variability throughout the range of *distribution extensive field collections were necessary.*

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
057	F	2	2	2	2	2	2	2	2	2
059	F	2	2	2	2	2	2	2	2	2
060	F	2	2	2	2	2	2	2	2	2
061	F	2	2	2	2	2	2	2	2	2
062	M	2	2	2	2	2	2	2	2	2
063	M	2	2	2	2	2	2	2	2	2
064	F	2	2	2	2	2	2	2	2	2
065	M	2	2	2	2	2	2	2	2	2
066	F	2	2	2	2	2	2	2	2	2
068	F	2	1	2	2	1	2	2	1	
069	M	2	2	2	2	2	2	2	2	
070	F	2	2	2	2	2	2	2	2	2
071	F	2	2	2	2	2	2	2	2	2
072	M	2	2	2	2	2	2	2	2	2
073	M	2	2	2	2	2	2	2	2	2
074	M	2	2	2	2	2	2	2	2	2
075	M	2	2	2	2	2	2	2	2	2
076	F	2	2	2	2	2	2	2	2	2
077	F	1	1	1	1	1	1	1	1	1
078	F	2	1	2	2	1	2	2	1	2
079	M	2	2	2	2	2	2	1	2	1
080	1	2	2	2	2	2	2	2	2	2
081	M	2	2	2	2	2	2	1	2	1
082	M	2	2	2	2	1	2	2	2	2
083	F	2	2	2	2	2	2	2	2	2
084	M	2	2	2	2	2	2	2	2	2
085	F	2	2	2	2	2	2	2	2	2
086	F	2	2	2	2	2	2	2	2	2
087	M	2	2	2	2	2	2	2	2	2

2.0 PHENETICS : A BRIEF OVERVIEW

The field of phenetics has been described as the use of patterns of similarity among organisms which are based on the overall similarity or differences in all available characters without, (a) considering the evolutionary events that produced the observed similarity and, (b) *a priori* weighting of the characters for the estimation of relationships and the formulation of classifications (Cain and Harrison, 1960; Sneath and Sokal, 1973; Mayr, 1978; Duncan and Baum, 1981). Classifications published before or soon after the appearance of Charles Darwin's Origin of Species in 1859 were obviously phenetic in nature since taxonomists were not thinking then in evolutionary terms. With the introduction of numerical methods as operational approaches to this process, phenetics is now considered part of what has been termed "numerical taxonomy" (Sneath and Sokal, 1973), the broader field of which includes both numerical phenetics and numerical evolutionary (cladistic) methods (Duncan and Baum, 1981).

According to Duncan and Baum (1981), numerical phenetics consists of four stages: (a) selection of organisms, groups of organisms, or operational taxonomic units (OTUs); (b) description of the characters that are the bases for comparison including the estimation of similarity among and between OTUs; (c) the summary and examination of taxonomic structure; and (d) the comparison and choice of classifications. Chosen characters are considered initially as possessing equal weight (Sneath and Sokal, 1973; McNeill, 1975). Weighting is therefore considered an *a posteriori* activity utilizing the characters that most effectively summarize the taxonomic structure in the data. No initial evolutionary interpretation is attached to the characters used. Observed similarity is examined without consideration of the

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
088	F	1	1	1	1	1	1	1	1	1
089	M	2	2	2	2	2	2	2	1	2
090	F	1	1	1	1	1	1	1	1	1
091	F	1	1	1	1	1	1	1	1	1
092	M	2	2	2	2	2	2	2	2	2
093	F	2	2	2	2	2	2	2	2	2
094	F	1	1	1	1	1	1	1	1	1
095	M	1	1	1	1	1	1	1	1	1
096	M	1	1	1	1	1	1	1	1	1
097	F	1	1	1	1	1	1	1	1	1
098	M	1	1	1	1	1	1	1	1	1
099	M	2	2	2	2	2	2	2	2	2
100	F	2	2	2	2	2	2	2	2	2
101	M	1	1	1	1	1	1	1	1	1
102	F	1	1	1	1	1	1	1	1	1
103	M	2	2	2	2	2	2	2	2	2
104	F	2	2	2	2	2	2	2	2	2
105	M	2	2	2	2	2	2	2	2	2
106	F	2	2	2	2	2	2	2	2	2
107	M	2	2	2	2	2	2	2	2	2
108	F	2	2	2	2	2	2	2	2	2
109	M	2	2	2	2	2	2	2	2	2
110	F	2	2	2	2	2	2	2	2	2
111	M	2	2	2	2	1	2	2	2	2
112	F	2	2	2	2	2	2	2	2	2
113	M	2	2	2	2	2	2	2	3	2
114	F	2	2	2	2	2	2	2	2	2
115	F	2	2	2	2	2	2	2	2	2
116	F	3	2	3	1	2	1	1	2	1

evolutionary events that caused that similarity. These patterns of observed similarity among organisms are used to group and rank organisms in a hierarchical classification (Duncan and Baum, 1981).

Numerical taxonomy was first advocated in the mid-1950s at a time when a well developed and relatively stable theory of systematics was held by most biologists around the world (Sneath and Sokal, 1973). The views held at that time were a result of the maturation of the important conceptual contributions that had been made during the 1930s and 1940s by eminent scientists such as J.S. Huxley, E. Mayr, T. Dobzhansky, G.G. Simpson, G.L. Stebbins, B. Rensch and E. Anderson.

Numerical and phenetic taxonomy did not develop suddenly but rather developed as a consequence of increased questioning of some of the established assumptions and techniques (Sneath and Sokal, 1973). Many criticisms have been levelled at numerical taxonomy since its inception but, as Fosberg (1967) points out, a lot of objections were generated by overselling of numerical taxonomy by some of its early proponents and their insistence that now we had the final solution to all taxonomic problems and that all else was outmoded.

Numerical taxonomy appears to be considered by its proponents as both a technique and a philosophy. It is the philosophy of numerical taxonomy that is most often criticised by the conventional taxonomists (Gilmartin, 1967). As a technique, it enables the biologist to tackle many problems in a manner that was not possible prior to the development of the computer. This has enabled taxonomists to use larger and more representative samples of taxa and of characters in their analyses (Sneath and Sokal, 1973). More importantly the numerical approach tends to elucidate and clarify some of the methods and mental processes that taxonomists usually use. This has the effect of making the classical methods more precise and effective (Fosberg, 1967). The philosophy of numerical taxonomy demands equal weighting of many characters in order to achieve a degree of objectivity, as well as the

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
117	M	2	2	2	2	2	2	2	2	2
118	M	2	2	2	2	2	2	2	2	2
119	F	1	1	1	1	1	1	1	1	1
120	M	1	1	1	1	1	1	1	1	1
121	M	1	1	1	1	1	1	1	1	1
122	F	1	1	1	1	1	1	1	1	1
123	M	1	1	1	1	1	1	1	1	1
124	M	1	1	1	1	1	1	1	1	1
125	F	1	1	1	1	1	1	1	1	1
126	M	1	1	1	1	1	1	1	1	1
127	F	2	1	2	2	1	2	1	1	1
128	M	2	2	2	2	2	2	2	2	2
129	F	2	2	2	2	2	2	2	2	2
130	F	2	2	2	2	2	2	2	2	2
131	M	2	2	2	2	2	2	2	2	2
132	F	2	1	2	2	2	2	2	1	2
133	M	2	2	2	2	2	2	2	2	2
134	M	2	2	2	2	2	2	2	2	2
135	F	2	2	2	2	2	2	2	2	2
136	F	2	2	2	2	2	2	2	2	2
137	M	2	2	2	2	2	2	2	2	2
138	F	2	2	2	2	2	2	2	2	2
139	M	2	2	2	2	2	2	2	2	2
140	F	2	2	2	2	2	2	2	2	2
141	M	2	2	2	2	2	2	2	2	2
142	M	2	2	2	2	2	2	2	2	2
143	F	2	2	2	2	2	2	2	2	2
144	M	2	2	2	2	2	2	2	2	2
145	F	2	2	2	2	2	2	2	2	2

exclusion of any preconceived notions about the phylogeny of the group being examined (Sneath and Sokal, 1973). These two concepts, equal weighting and the rejection of phylogeny are in direct opposition to the background of nearly all biologists (Gilmartin, 1967).

The controversy surrounding numerical taxonomy is reflected in the records of many symposia held during the first half of the 1960s (Sneath and Sokal, 1973). Many of the criticisms were presented by Mayr (1965) in an important article, most of which were countered by Sokal, et. al. (1965). In 1969, Mayr again criticised the philosophical basis of numerical taxonomy but this too has been countered by Sneath and Sokal (1973) who wrote:-

"...the basic difficulty between our philosophy and the evolutionary classification of Mayr is that we try to distinguish between the process of classifying and the subsequent process of generating hypotheses about evolution, and Mayr wishes to combine these two Yet in his entire volume he fails to tell us how to make such a combination. Our dissatisfaction with vague philosophies and methods has led to the principles and procedures propounded in our book."

Another aspect of numerical taxonomy that has been severely criticised has been the claim by its proponents that numerical taxonomy is more objective. Most numerical taxonomists feel that numerical taxonomic work does approach objectivity to a greater degree than classical methods but few numerical taxonomists at the present time claim complete objectivity in their operational classifications. Heiser, et. al. (1965) claim that there is equal subjectivity in numerical and classical methods before characters are chosen but that after the initial character selection, numerical taxonomy tends to be less subjective. However, the taxonomist, whatever techniques are chosen, be they classical, numerical, or both, must always decide on the best classification and must present the goals and assumptions used when such a classification is produced. The taxonomic decisions, therefore, remain in the hands of the practising taxonomist, and numerical taxonomists do not

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
146	M	2	2	2	2	2	2	2	1	2
147	F	2	2	2	2	2	2	2	2	2
148	M	2	2	2	2	1	2	2	2	2
149	F	2	2	2	2	2	2	2	2	2
150	M	2	2	2	2	2	2	2	2	2
151	F	2	2	2	2	2	2	2	2	2
152	F	2	2	2	2	2	2	2	2	2
153	F	2	2	2	2	2	2	2	2	2
154	M	2	2	2	2	2	2	2	2	2
155	F	2	2	2	2	2	2	2	2	2
156	M	2	2	2	2	2	2	2	2	2
157	M	2	2	2	2	2	2	2	2	2
158	F	1	1	1	1	1	1	2	1	1
159	F	2	2	2	2	2	2	2	2	2
160	M	2	2	2	2	2	2	2	2	2
161	M	2	2	2	2	2	2	2	2	2
162	F	2	2	2	2	2	2	2	2	2
163	M	2	2	2	2	2	2	2	2	2
165	F	2	2	2	2	2	2	2	2	2
166	F	2	2	2	2	2	2	2	2	2
167	F	2	2	2	2	2	2	2	2	2
168	M	2	2	2	2	2	2	2	2	2
169	M	2	2	2	2	2	2	2	2	2
170	M	2	2	2	2	2	2	2	2	2
171	F	2	2	2	2	2	2	2	2	2
172	M	3	1	3	1	1	1	1	1	1
173	M	3	1	3	1	1	1	1	1	1
174	M	1	1	1	1	1	1	1	1	1
175	M	1	1	1	1	1	1	1	1	1

claim to to be able to " ask the computer what the best classification is " as has been incorrectly reported by certain critics of numerical taxonomy (*Kalkman, 1966*).

According to Duncan and Baum (1981) most studies fail to adequately discuss the connection between the examination of taxonomic structure in a data set and the taxonomic conclusions reached. Similar criticisms have been levelled at numerical taxonomy by several conventional taxonomists. Burtt, et. al. (1970) contend that the numerical taxonomic studies published " exert something of a tyranny " over other workers even though, in certain cases, the resulting classifications appear weaker and less natural than the original classifications. If numerical phenetics is to have a significant impact on the practice of taxonomy, the connections between the results of the data analysis and the conversion of these results into taxonomic decisions must be clearly stated. Several ways of evaluating classifications have been proposed but these have seldom been applied to real data sets (Duncan and Baum, 1981). Sneath and Sokal (1973) point out that the explicit procedures of numerical taxonomy make it possible to engage in criticism of this sort, which is something which is not usually possible in orthodox taxonomy. Many of the criticisms of methodology and results of phenetic studies apply to conventional classifications as well but these cannot be stated as clearly in that branch of taxonomy.

Johnson (1970) is of the opinion that the effort expended in numerical phenetics is not worthwhile in view of the results that have been published. Sneath and Sokal (1973) suggest that he has underrated the significance and wide applicability of the numerical taxonomic method. Their opinion is supported by the large number of studies already published and those that are continually appearing in an increasing number of fields. There are at present three major bibliographies of numerical phenetic studies in systematic botany (Sneath and Sokal, 1973; Duncan and Baum, 1981; Baum et. al., 1984) which include papers published up to 1982 and which between

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
176	M	2	1	2	2	1	2	1	1	1
177	F	2	2	2	2	2	2	2	2	2
178	M	2	2	2	2	1	2	2	2	2
179	M	2	2	2	2	2	2	2	2	2
180	M	2	2	2	2	2	2	2	1	2
181	F	2	2	2	2	2	2	2	2	2
183	F	2	2	2	2	2	2	2	2	2
184	M	2	2	2	2	2	2	2	2	2
185	M	2	2	2	2	1	2	2	2	2
186	F	2	2	2	2	2	2	2	1	2
187	F	2	2	2	2	2	2	2	2	2
188	M	2	2	2	2	1	2	2	2	2
189	F	2	2	2	2	2	2	2	2	2
190	M	2	2	2	2	2	2	2	2	2
191	F	2	2	2	2	2	2	2	2	2
192	M	2	2	2	2	2	2	2	2	2
193	M	2	2	2	2	1	2	2	2	2
194	F	2	2	2	2	2	2	2	2	2
195	M	2	2	2	2	1	2	2	2	2
196	F	2	2	2	2	2	2	2	2	2
197	F	2	2	2	2	2	2	2	2	2
198	M	2	2	2	2	1	2	2	2	2
199	F	2	2	2	2	2	2	2	2	2
200	F	2	2	2	2	2	2	2	2	2
201	M	2	2	2	2	1	2	2	2	2
202	F	2	2	2	2	2	2	2	1	2
203	M	2	2	2	2	1	2	2	2	2
204	M	2	2	2	2	1	2	2	2	2
205	M	2	2	2	2	1	2	2	2	2

them list approximately 800 publications. This review is largely limited to botanical applications since the number of publications in all of biological systematics is too large for a single review of this nature.

Numerical phenetics has been applied more often to flowering plants than to other major plant groups (Duncan and Baum, 1981). Within flowering plants, studies at the species level (for example, Mooney and Emboden, 1968; Arroyo-Kalin, 1973; Zaharof, 1986), species complex (for example, Parups, et. al., 1966; Drury and Randal, 1969; Giles, 1986), or genus level (for example, Heiser, et. al., 1965; Jensen and Eshbaugh, 1976a; 1976b; Crisci, et. al., 1979) predominate. In recent years several systematic studies have analysed patterns of population variation and species circumscription (for example, Gilmartin, et. al., 1986; Ringius and Chmielewski, 1987; Wolf and Whitkus, 1987) and numerical taxonomy has served as a useful approach in such studies.

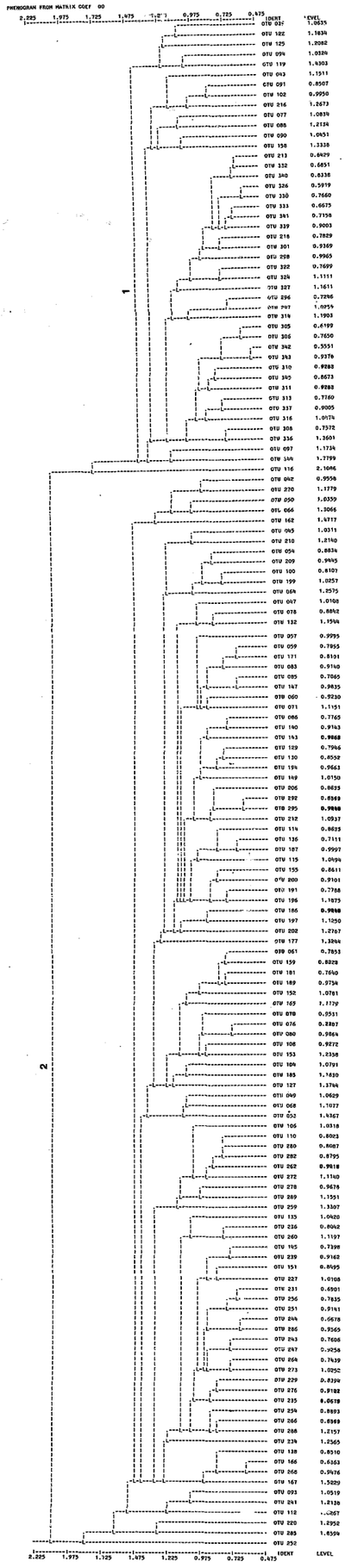
By far the majority of phenetic studies within flowering plants have made use of morphological data (examples include, Heiser, et. al.,1965; McNeill, 1974; Barrett and Rhodes, 1976; Jensen and Eshbaugh, 1976a; 1976b; Lavarack, 1976; Schilling and Heiser, 1976; Bisby and Nicholls, 1977; Jensen, 1977; Schilling and Heiser, 1981; Zandee and Glas, 1982; Shaw, et. al., 1984; West and Noble, 1984; Whitkus and Packer, 1984; Bayer, 1985; Decker and Wilson, 1986; Giles and Lefkovitch, 1986; Lammers, et. al., 1986; Moret, et. al., 1986; Nicholls, 1986; Randall and Hilu, 1986; Zaharof, 1986; Bayer, 1987; Diggs, 1987; Gilmartin and Brown, 1987; Pehu, et. al., 1987; Ringius and Chmielewski, 1987; Wyse Jackson and Parnell, 1987) to analyse relationships between different groups. Some studies have incorporated both morphology and anatomy (for example, Pridgeon, 1982), morphology and cytology (for example , Baker and Pinkava, 1987), morphology and chemical characters (for example, Adams and Turner, 1970), and morphology and electrophoretic characters (for example, Les, 1986). In addition, a large number of studies have utilised numerical phenetics to analyse chemical (particularly phenolic) differences between OTUs (examples include, Ellison, et. al., 1962; Lorenz

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
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208	M	2	2	2	2	1	2	2	2	2
209	F	2	2	2	2	1	2	2	2	2
210	F	2	2	2	2	2	2	2	2	2
211	M	1	1	1	2	1	2	1	1	1
212	F	2	2	2	2	2	2	2	2	2
213	F	1	1	1	1	1	1	1	1	1
214	M	1	1	1	1	1	1	1	1	1
215	M	1	1	1	1	1	1	1	1	1
216	F	1	1	1	1	1	1	1	1	1
217	M	1	1	1	1	1	1	1	1	1
218	F	1	1	1	1	1	1	1	1	1
219	M	1	1	1	1	1	1	1	1	1
220	F	2	2	2	2	2	2	2	2	2
222	M	2	2	2	2	2	2	2	2	2
223	M	2	2	2	2	2	2	2	2	2
224	M	2		2	2	2	2	2	2	2
226	M			2	2	1	2	2	2	2
227	F	2	2	2	2	2	2	2	2	2
228	M	2	2	2	2	2	2	2	2	2
229	F	2	2	2	2	2	2	2	2	2
231	F	2	2	2	2	2	2	2	2	2
232	M	2	2	2	2	2	2	2	2	2
233	M	2	2	2	2	2	2	2	2	2
234	F	2	2	2	2	2	2	2	2	2
235	F	2	2	2	2	2	2	2	2	2
236	F	2	2	2	2	2	2	2	2	2
237	M	2	2	2	2	2	2	2	2	2

and Schulz-Shaeffer, 1964; Matthews, 1966; Dass and Nybom, 1967; Jaworska and Nybom, 1967; Grant and Zandstra, 1968; Olden and Nybom, 1968; Ising and Frost, 1969; Dodio, et. al., 1969a; 1969b; Kaisikes and Dodio, 1970a; 1970b; Iiyama and Grant, 1972; Dass, et. al., 1974; Naterella and Sink, 1974; Dass, et. al., 1975; Wolf and Whitkus, 1987). More recently numerical methods have been employed to analyse electrophoretic and DNA data (for example, Furnier and Adams, 1986; Niekrent, 1986, Bayer, et. al., 1987; Bretting, et. al., 1987; Rieseberg, et. al., 1987; Ellisens and Crawford, 1988).

Numerical phenetic applications in botany have been dominated by cluster analysis (Duncan and Baum, 1981). This technique has been used on its own (for example, Adams and Turner, 1970; Niekrent, 1986; Bayer, et. al., 1987; Gilmartin and Brown, 1987; Pehu, et. al., 1987; Rieseberg, et. al., 1987; Ellsens and Crawford, 1988), and in combination with other techniques such as principle components analysis (PCA) (examples include, McNeill, 1974; Schilling and Heiser, 1976; Pridgeon, 1982; Whitkus and Packer, 1984; Lee, 1986; Bayer, 1987; Bretting, et. al., 1987; Wolf and Whitkus, 1987), principle co-ordinate analysis (for example, Lavarack, 1976; Nicholls, 1986; Randall and Hilu, 1986), canonical discriminant analysis (West and Noble, 1984; Barker and Pinkava, 1987; Diggs, 1987), as well as with PCA and canonical discriminant analysis together (for example, Moret, et. al., 1986).

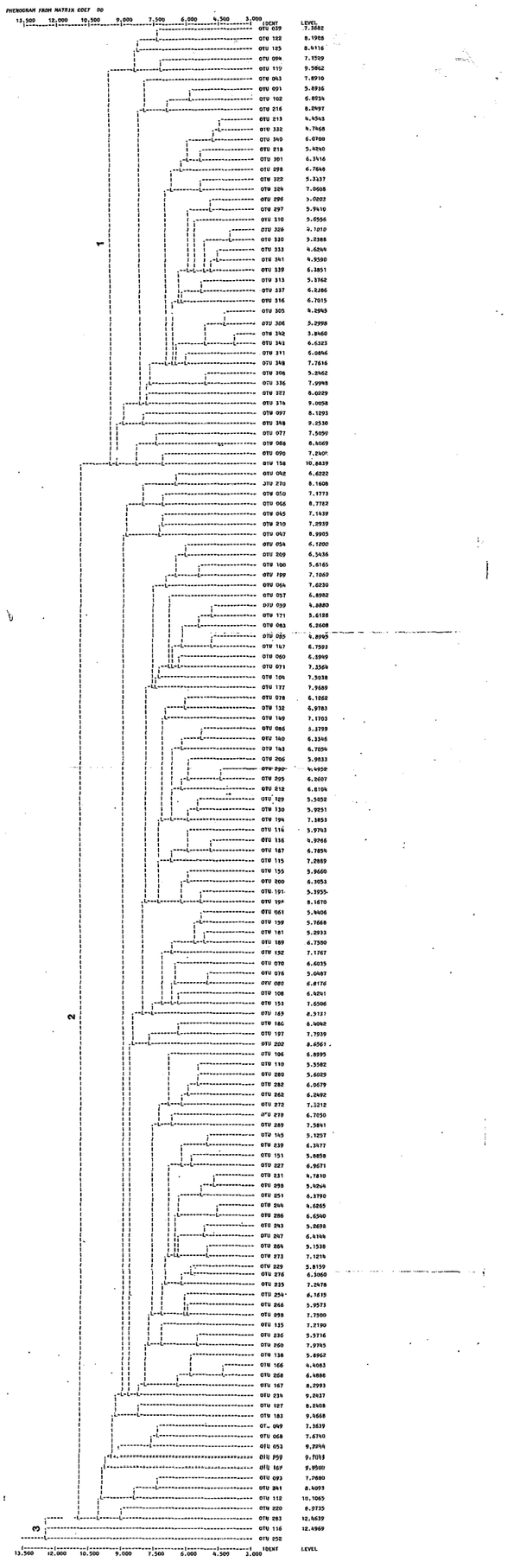
Duncan and Baum (1981) have shown that cluster analysis has been used at least three times as frequently as any other phenetic method. Principal components analysis has been used fairly frequently both on its own (for example, Jensen, 1977; Wyse Jackson and Parnell, 1987), *and in combination* with cluster analysis (see under cluster analysis for examples), canonical discriminant analysis (examples include, Decker and Wilson, 1986; Ringius and Chmielewski, 1986), as well as cladistic analysis (for example, Schilling and Heiser, 1981; Lammers, et. al., 1986). Discriminant analysis has also been used, although less frequently than both cluster analysis and PCA (for example, Giles and Lefkovich, 1986; Zaharof, 1986).

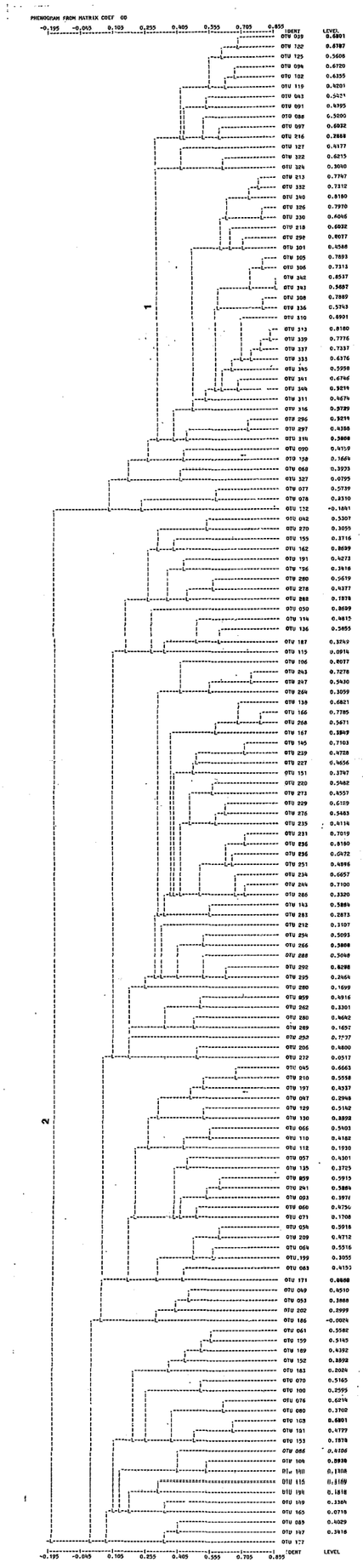

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OTU 119 1.4303
OTU 043 1.1511
OTU 091 0.8507
OTU 102 0.9950
OTU 216 1.2673
OTU 077 1.0834
OTU 085 1.2134
OTU 090 1.0451
OTU 158 1.3338
OTU 213 0.8429
OTU 332 0.6851
OTU 340 0.6338
OTU 326 0.5919
OTU 330 0.7660
OTU 333 0.6075
OTU 341 0.7158
OTU 339 0.9003
OTU 218 0.7829
OTU 301 0.9369
OTU 258 0.9965
OTU 322 0.7699
OTU 324 1.1111
OTU 327 1.1611
OTU 296 0.7296
OTU 307 1.0959
OTU 314 1.1903
OTU 305 0.6199
OTU 306 0.7650
OTU 342 0.5551
OTU 343 0.9376
OTU 310 0.9288
OTU 345 0.8673
OTU 311 0.9288
OTU 313 0.7760
OTU 337 0.9005
OTU 316 1.0174
OTU 308 0.7572
OTU 336 1.3601
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OTU 070 0.9531
OTU 076 0.8287
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OTU 153 1.2358
OTU 104 1.0791
OTU 185 1.1630
OTU 127 1.1744
OTU 049 1.0629
OTU 068 1.1077
OTU 052 1.1367
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OTU 259 1.3107
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OTU 236 0.8042
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OTU 166 0.6163
OTU 268 0.9476
OTU 147 1.5029
OTU 093 1.0519
OTU 241 1.2128
OTU 112 1.4267
OTU 220 1.2952
OTU 285 1.0594
OTU 252
IDENT
LEVEL
2.225 1.975 1.725 1.475 1.225 0.975 0.725 0.475

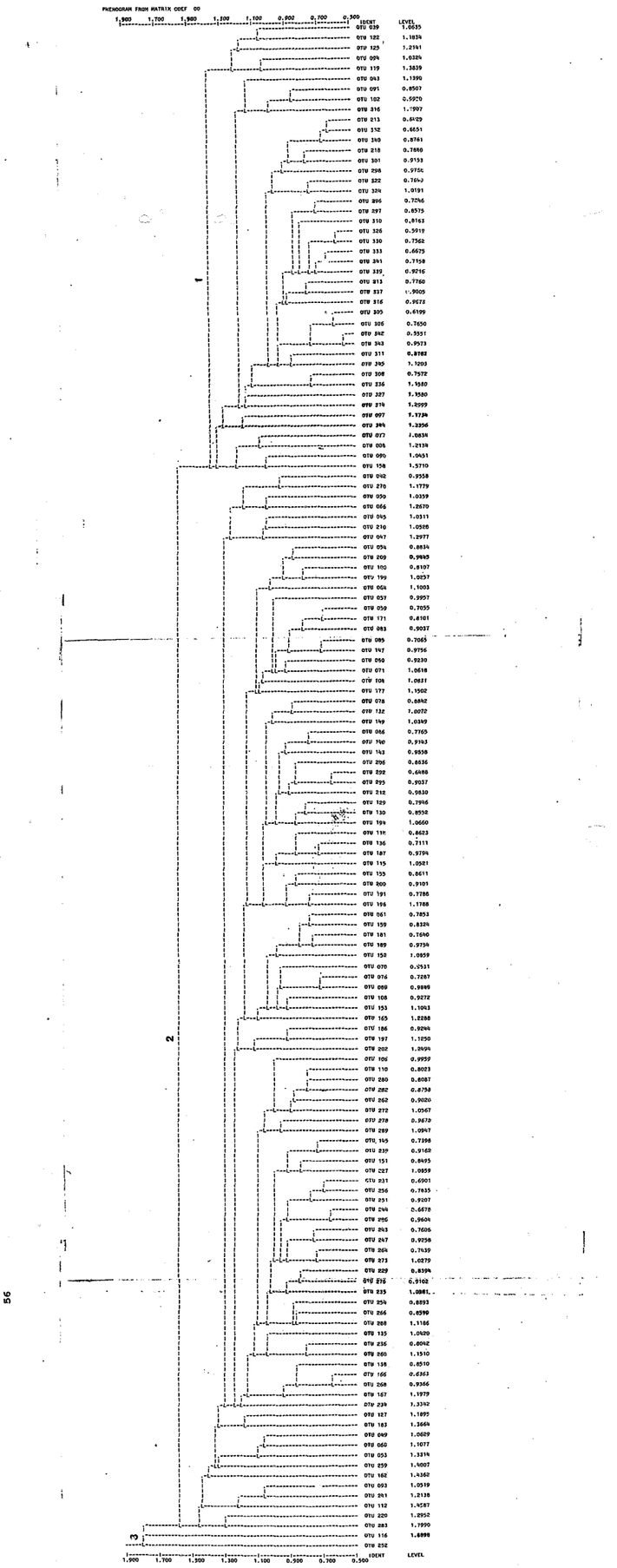
The least frequently explored step in numerical phenetics is the comparison of competing classifications (Duncan and Baum, 1981). This step seems to be one of the most important and would serve to win the support of conventional taxonomists who are sceptical about the results generated by numerical taxonomy. It is important to demonstrate, by using a set of standard criteria, that the resulting classifications are an improvement over previous more or entionally derived classifications.

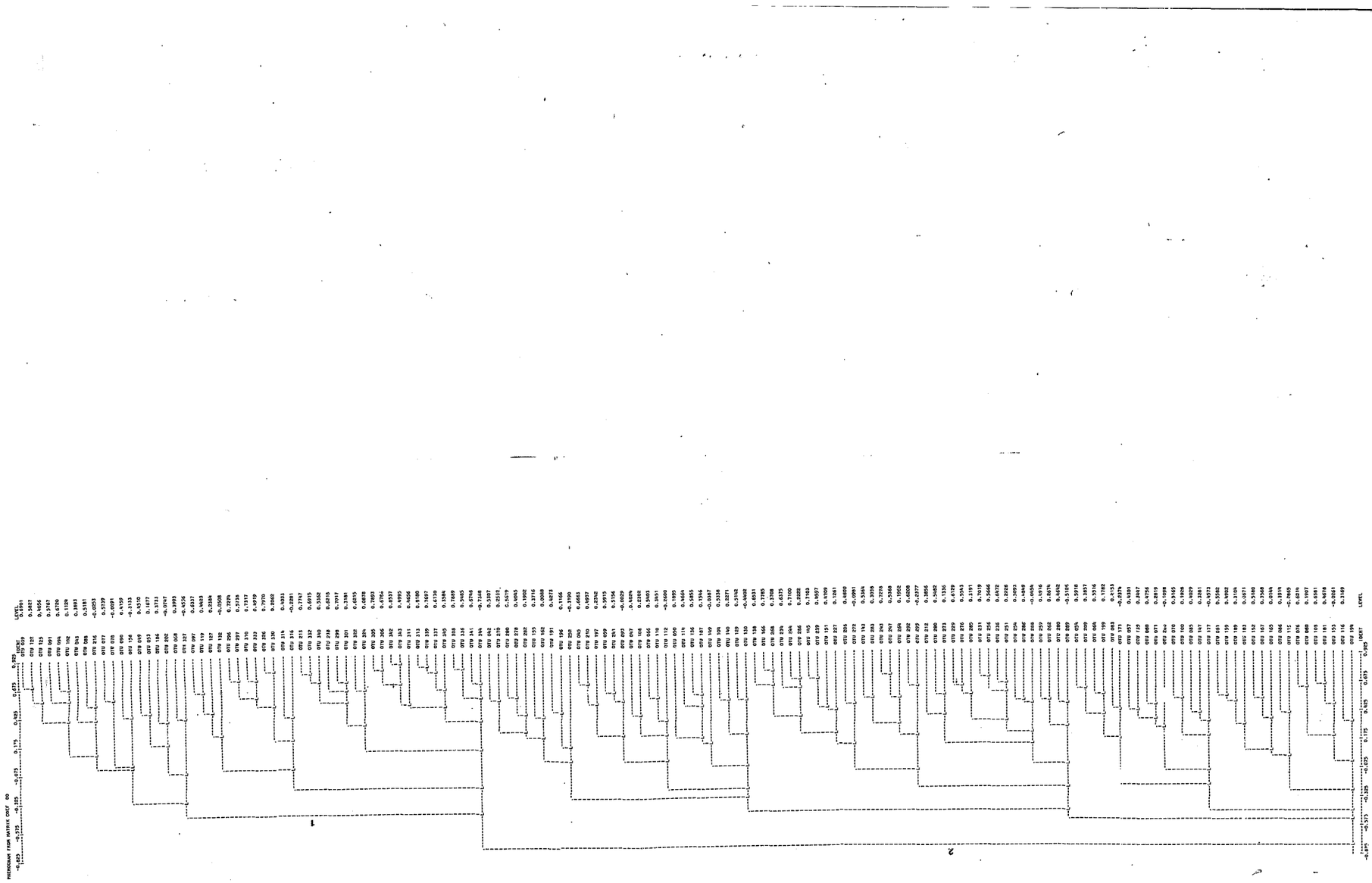
One successful application of numerical phenetics has been the confirmation of the broad outlines of existing orthodox taxonomies (Sneath and Sokal, 1973). The results of these types of studies increase the general credibility of the taxonomy of the group in question as well as the numerical techniques used (Sneath and Sokal, 1973). Examples of such studies include work by Watson, et. al. (1966); Rhodes, et. al. (1968); Stearn (1968); Ivimey - Cook (1969a; 1969b); France, et. al. (1969); Rowley, (1969); and Stearn (1969) amongst others. In many cases there have been several conflicting conventional taxonomies and the numerical analyses often help resolve these problems by providing strong support for one of them, or by presenting a more acceptable alternative system (Sneath and Sokal, 1973). It is also common to find minor points of confusion in the previous taxonomy of a group where only a few of the smaller taxa or groups of taxa are affected and numerical methods have also played a role in resolving some of these problems (see Rowley, 1967; McNeill, et. al., 1969, for examples).

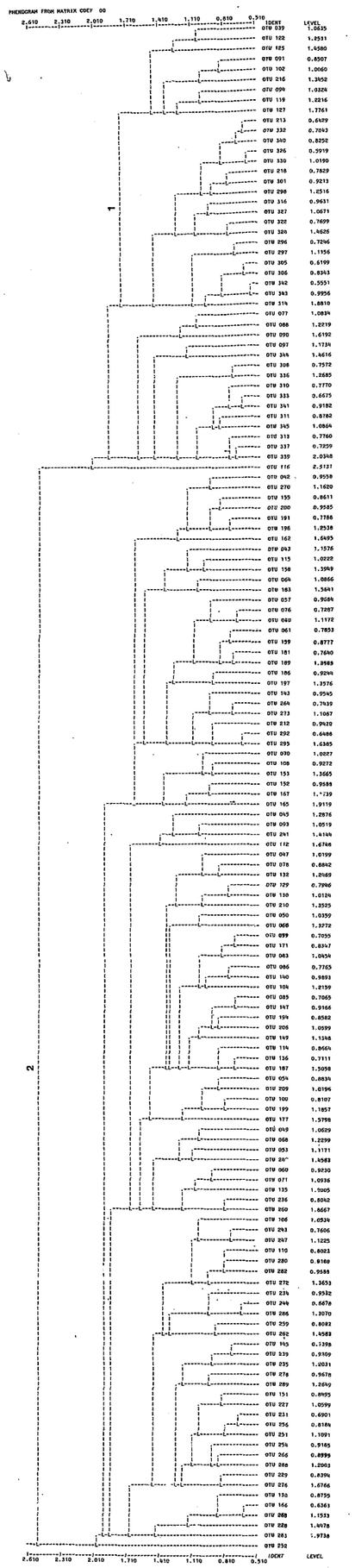
There are also a few examples where the resulting taxonomic relationships generated by numerical phenetics have been vastly different to those proposed by conventional taxonomic methods. This has been particularly evident in groups whose current taxonomy is confused or where the relationships between the taxa are difficult to discern by orthodox methods. For example, Ducker, et. al. (1965) worked on the Chlorophyte genus *Chlorodesmis*, and El-Gazzar and Watson (1970a; 1970b) and El-Gazzar, et. al. (1968) worked on the genus *Salvia*. In the last study only one of five subgenera and only one of twelve sections proposed by conventional

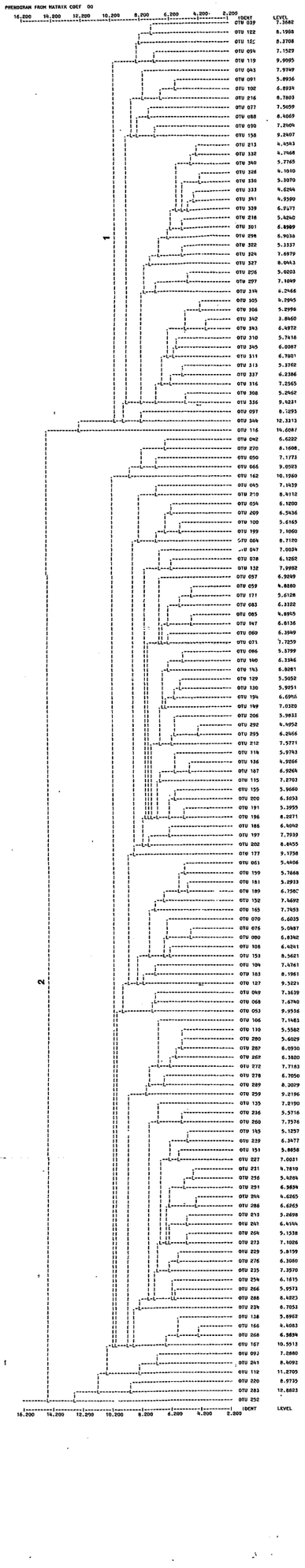

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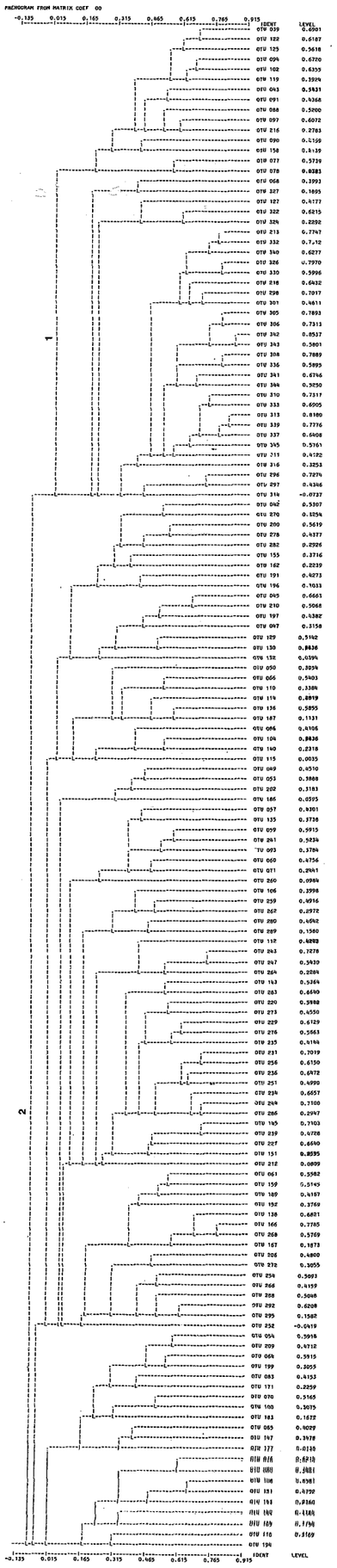

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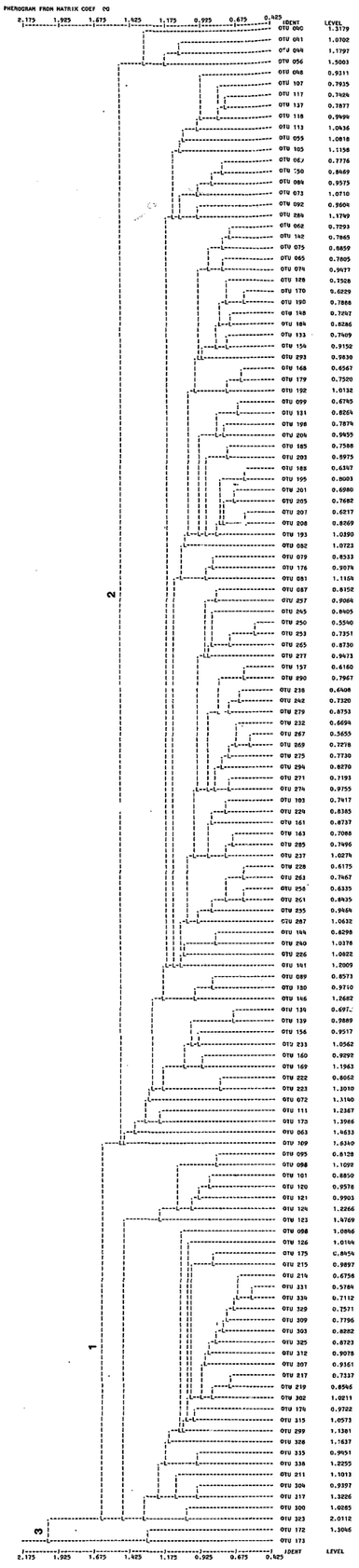

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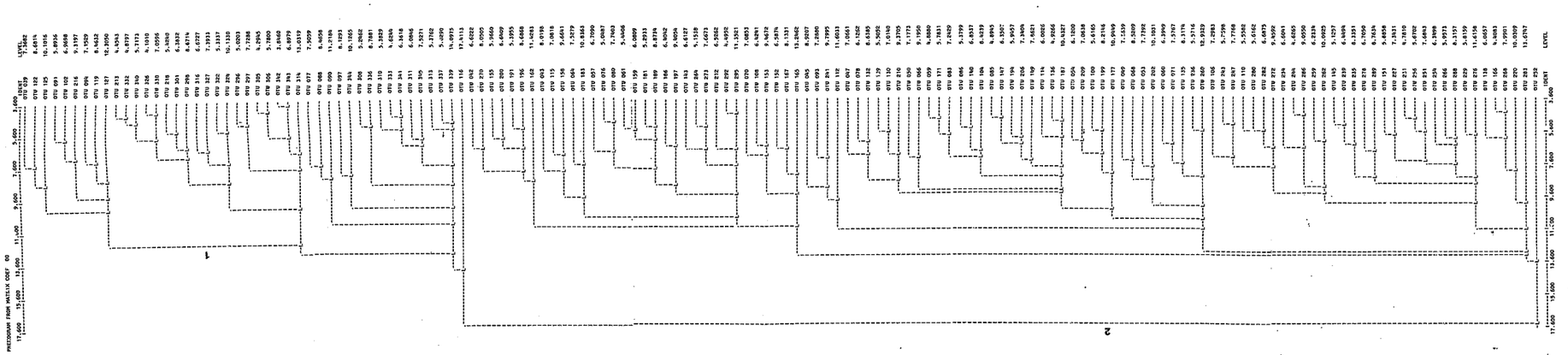

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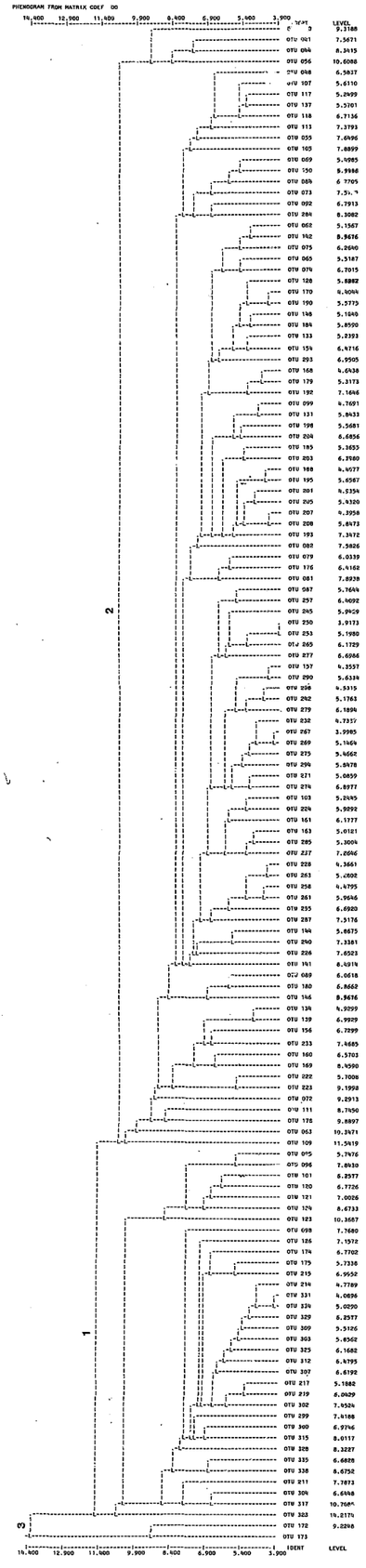

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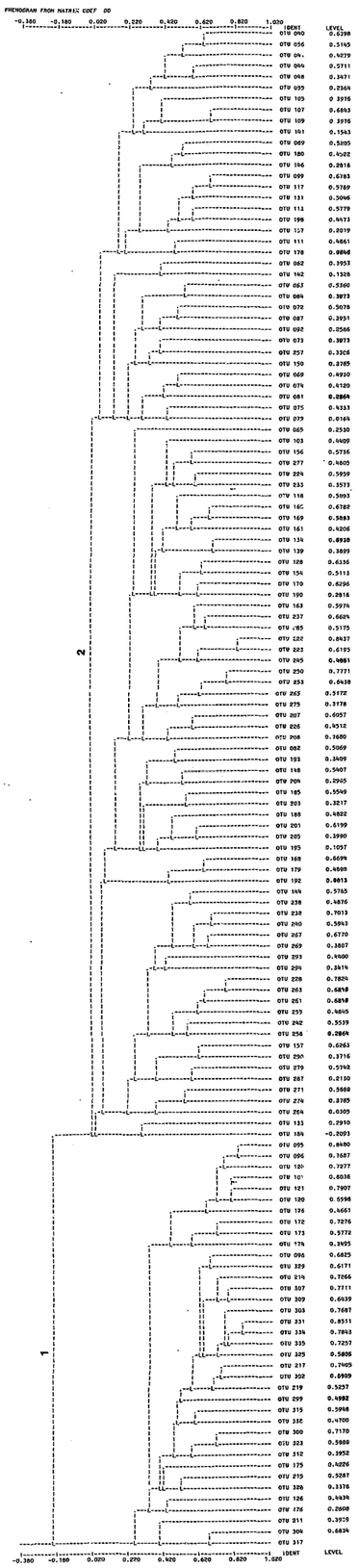

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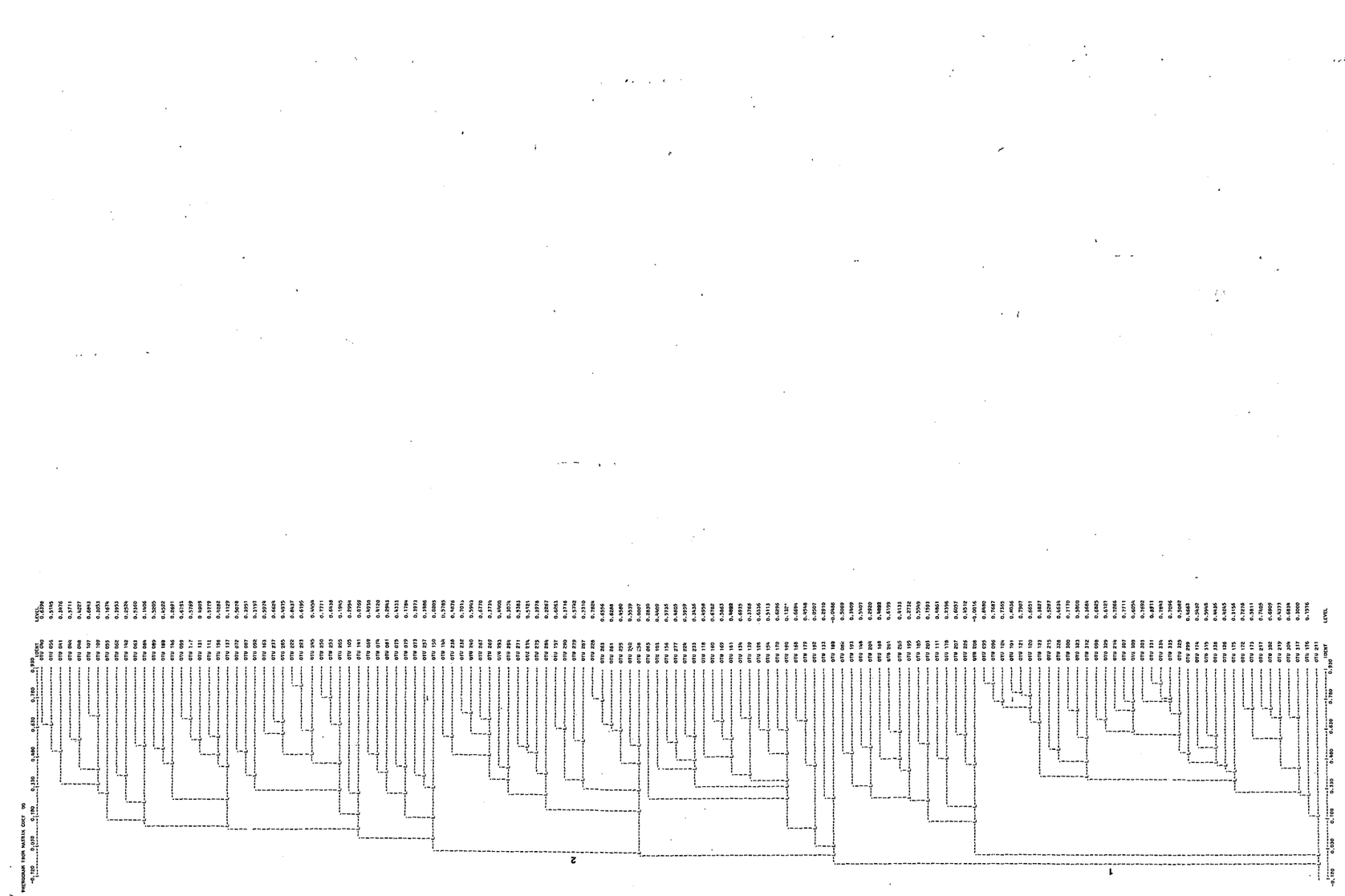

DENDROGRAM FROM MATRIX COEF 00
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OTU 094 0.6720
OTU 102 0.6355
OTU 119 0.3924
OTU 043 0.5831
OTU 091 0.4368
OTU 088 0.5900
OTU 097 0.6072
OTU 216 0.2783
OTU 090 0.4199
OTU 158 0.8139
OTU 077 0.5739
OTU 078 0.8383
OTU 068 0.3993
OTU 327 0.1805
OTU 127 0.4177
OTU 322 0.6215
OTU 324 0.2292
OTU 213 0.7747
OTU 332 0.7412
OTU 340 0.6277
OTU 326 0.7970
OTU 330 0.5996
OTU 218 0.6432
OTU 298 0.7017
OTU 301 0.4811
OTU 305 0.7893
OTU 306 0.7311
OTU 342 0.8537
OTU 343 0.5801
OTU 308 0.7889
OTU 336 0.5895
OTU 341 0.6746
OTU 344 0.5250
OTU 310 0.7317
OTU 333 0.6905
OTU 313 0.8180
OTU 339 0.7776
OTU 337 0.6408
OTU 345 0.5761
OTU 311 0.4122
OTU 316 0.3253
OTU 296 0.7274
OTU 297 0.4346
OTU 319 -0.0727
OTU 042 0.5307
OTU 270 0.1254
OTU 200 0.5619
OTU 278 0.4377
OTU 282 0.2926
OTU 155 0.3716
OTU 162 0.2239
OTU 191 0.4273
OTU 196 0.1033
OTU 045 0.6661
OTU 210 0.5068
OTU 197 0.1382
OTU 067 0.3158
OTU 129 0.5142
OTU 130 0.8838
OTU 132 0.0394
OTU 050 0.3054
OTU 066 0.5403
OTU 110 0.3386
OTU 119 0.8819
OTU 136 0.5855
OTU 187 0.1131
OTU 086 0.4106
OTU 104 0.8836
OTU 140 0.2316
OTU 115 0.0035
OTU 049 0.4510
OTU 053 0.3808
OTU 202 0.3183
OTU 186 0.0595
OTU 057 0.9301
OTU 135 0.2730
OTU 059 0.5915
OTU 261 0.5234
OTU 093 0.3784
OTU 060 0.4756
OTU 071 0.2441
OTU 260 0.0984
OTU 106 0.3998
OTU 259 0.4916
OTU 267 0.2972
OTU 280 0.4042
OTU 289 0.1580
OTU 112 0.4283
OTU 263 0.1278
OTU 247 0.5430
OTU 264 0.2284
OTU 163 0.5264
OTU 283 0.6690
OTU 220 0.5988
OTU 273 0.6550
OTU 229 0.6129
OTU 216 0.5663
OTU 235 0.4184
OTU 231 0.7019
OTU 256 0.6150
OTU 236 0.6472
OTU 251 0.4990
OTU 234 0.6657
OTU 244 0.7100
OTU 286 0.2947
OTU 195 0.7103
OTU 239 0.6728
OTU 287 0.6690
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OTU 212 0.0809
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OTU 268 0.5769
OTU 167 0.1873
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OTU 272 0.3055
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OTU 266 0.4159
OTU 288 0.5048
OTU 292 0.6208
OTU 295 0.1582
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OTU 209 0.4712
OTU 064 0.5915
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OTU 083 0.4153
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OTU 070 0.5165
OTU 100 0.3075
OTU 183 0.1672
OTU 065 0.4029
OTU 147 0.3978
OTU 177 0.0135
OTU 116 0.6218
OTU 080 0.3881
OTU 108 0.4381
OTU 131 0.4792
OTU 198 0.9160
OTU 142 0.4188
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OTU 194
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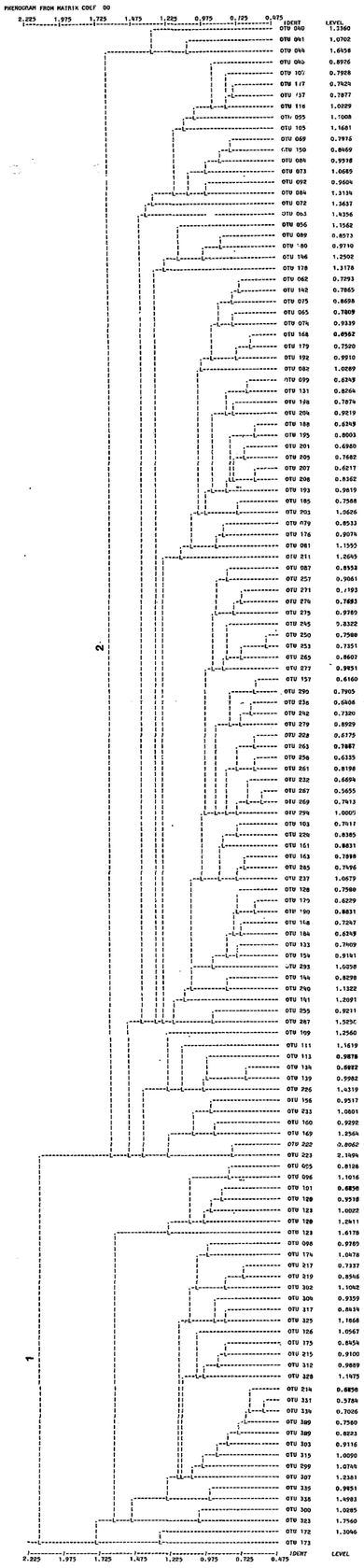

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OTU 107 0.7935
OTU 117 0.7484
OTU 137 0.7877
OTU 118 0.9499
OTU 113 1.0436
OTU 055 1.0818
OTU 105 1.1158
OTU 067 0.7776
OTU 150 0.8469
OTU 084 0.9575
OTU 073 1.0710
OTU 092 0.9604
OTU 286 1.1749
OTU 062 0.7293
OTU 142 0.7865
OTU 075 0.8859
OTU 065 0.7805
OTU 074 0.9477
OTU 128 0.7528
OTU 170 0.6229
OTU 190 0.7888
OTU 148 0.7697
OTU 184 0.8286
OTU 133 0.7409
OTU 154 0.9152
OTU 293 0.9830
OTU 168 0.6567
OTU 179 0.7520
OTU 192 1.0132
OTU 099 0.6795
OTU 131 0.8264
OTU 198 0.7874
OTU 204 0.9455
OTU 185 0.7588
OTU 203 0.8975
OTU 188 0.6347
OTU 195 0.8003
OTU 201 0.6980
OTU 205 0.7682
OTU 207 0.8217
OTU 208 0.8569
OTU 193 1.0390
OTU 082 1.0723
OTU 079 0.8333
OTU 176 0.9074
OTU 081 1.1169
OTU 087 0.8152
OTU 257 0.9066
OTU 245 0.8405
OTU 250 0.5540
OTU 253 0.7351
OTU 265 0.8730
OTU 277 0.9473
OTU 137 0.4160
OTU 290 0.7967
OTU 238 0.6408
OTU 242 0.7320
OTU 279 0.8753
OTU 232 0.6694
OTU 267 0.5655
OTU 269 0.7278
OTU 275 0.7730
OTU 294 0.8270
OTU 271 0.7193
OTU 274 0.9755
OTU 193 0.7617
OTU 229 0.8385
OTU 161 0.8737
OTU 163 0.7068
OTU 285 0.7496
OTU 237 1.0274
OTU 228 0.6175
OTU 263 0.7467
OTU 258 0.6335
OTU 261 0.8435
OTU 255 0.9464
OTU 287 1.0632
OTU 144 0.8298
OTU 240 1.0378
OTU 226 1.0822
OTU 141 1.2009
OTU 089 0.8573
OTU 130 0.9710
OTU 146 1.2682
OTU 135 0.697.
OTU 139 0.9889
OTU 156 0.9517
OTU 233 1.0562
OTU 160 0.9292
OTU 169 1.1963
OTU 222 0.8062
OTU 223 1.3010
OTU 072 1.1190
OTU 111 1.2367
OTU 173 1.3986
OTU 063 1.4633
OTU 109 1.6340
OTU 095 0.8128
OTU 098 1.1099
OTU 101 0.8850
OTU 120 0.9578
OTU 121 0.9903
OTU 124 1.2266
OTU 123 1.4769
OTU 096 1.0896
OTU 126 1.0144
OTU 175 0.8454
OTU 215 0.9897
OTU 214 0.6756
OTU 331 0.5784
OTU 334 0.7112
OTU 329 0.7571
OTU 309 0.7796
OTU 303 0.8282
OTU 325 0.8723
OTU 312 0.9078
OTU 307 0.9361
OTU 317 0.7337
OTU 219 0.8546
OTU 302 1.0211
OTU 176 0.9722
OTU 315 1.0573
OTU 299 1.1301
OTU 328 1.1637
OTU 335 0.9951
OTU 338 1.2255
OTU 211 1.1013
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OTU 323 2.0112
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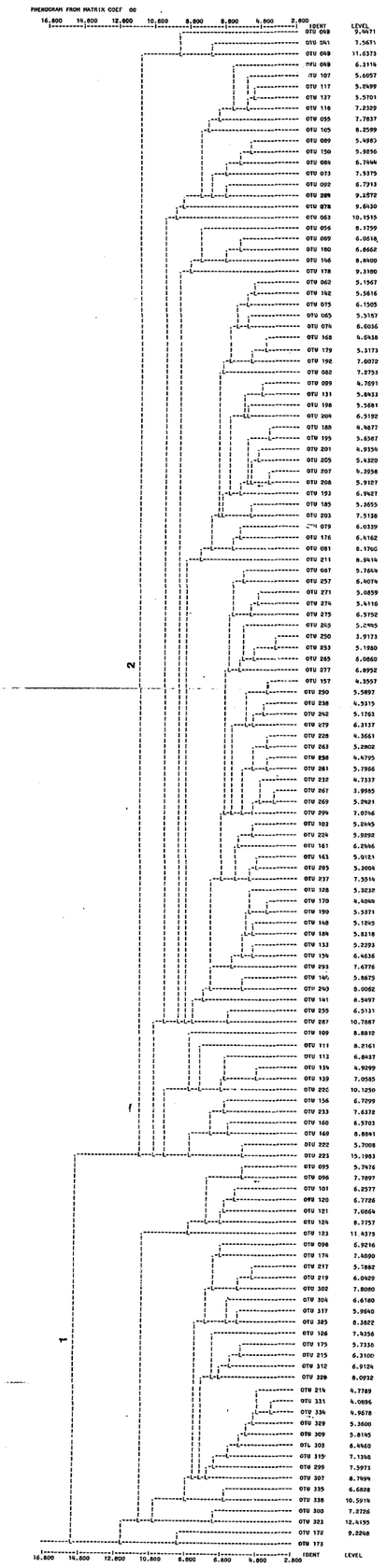

LEVEL
LIKELIHOOD
PHYLOGRAM FROM MAFFT CIPRES V3
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PHENOGRAM FROM MATRIX COEF 00
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LEVEL
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OTU 004 8.2415
OTU 056 10.5088
OTU 098 6.5827
OTU 107 5.6110
OTU 117 5.2499
OTU 137 5.5701
OTU 118 6.7136
OTU 113 7.3793
OTU 055 7.6496
OTU 105 7.8899
OTU 069 5.4985
OTU 150 8.9986
OTU 086 6.7705
OTU 073 7.31.9
OTU 092 6.7913
OTU 284 8.3082
OTU 062 5.1567
OTU 142 8.9676
OTU 075 6.2640
OTU 065 5.5187
OTU 076 6.7015
OTU 128 5.8882
OTU 170 4.4044
OTU 190 5.5775
OTU 148 5.1640
OTU 184 5.8590
OTU 133 5.2393
OTU 154 6.4716
OTU 293 6.9505
OTU 168 4.6438
OTU 179 5.3173
OTU 192 7.1646
OTU 099 4.7691
OTU 131 5.8433
OTU 198 5.5681
OTU 204 6.6856
OTU 185 5.3655
OTU 203 6.3580
OTU 188 4.4577
OTU 195 5.6567
OTU 201 4.5354
OTU 205 5.4320
OTU 207 4.3958
OTU 208 5.8473
OTU 193 7.3472
OTU 082 7.5826
OTU 079 6.0339
OTU 176 6.4162
OTU 081 7.8928
OTU 087 5.7644
OTU 257 6.4092
OTU 245 5.9429
OTU 250 3.9133
OTU 253 5.1980
OTU 265 6.1729
OTU 277 6.6986
OTU 157 4.3557
OTU 290 5.6334
OTU 256 4.5315
OTU 282 5.1763
OTU 279 6.1894
OTU 232 4.7357
OTU 267 3.9985
OTU 269 5.1464
OTU 275 5.4662
OTU 296 5.8478
OTU 271 5.0859
OTU 274 6.8977
OTU 103 5.2495
OTU 224 5.9999
OTU 161 6.1777
OTU 163 5.0121
OTU 285 5.3004
OTU 227 7.2646
OTU 228 4.3661
OTU 263 5.4802
OTU 258 4.4795
OTU 261 5.9646
OTU 255 6.6920
OTU 287 7.5176
OTU 144 5.8675
OTU 290 7.3381
OTU 226 7.6523
OTU 191 8.1219
OTU 089 6.0618
OTU 180 6.8662
OTU 146 8.9676
OTU 138 4.9299
OTU 139 6.9929
OTU 156 6.7299
OTU 233 7.4685
OTU 160 6.5703
OTU 169 8.4590
OTU 222 5.7006
OTU 223 9.1998
OTU 072 9.2913
OTU 111 8.7450
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OTU 063 10.3471
OTU 109 11.5419
OTU 095 5.7476
OTU 096 7.0430
OTU 101 8.2577
OTU 120 6.7726
OTU 121 7.0026
OTU 124 8.6733
OTU 123 10.3687
OTU 098 7.7680
OTU 126 7.1572
OTU 174 6.7702
OTU 175 5.7338
OTU 215 6.9652
OTU 214 4.7789
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OTU 329 6.2577
OTU 309 5.5126
OTU 303 5.8562
OTU 325 6.1682
OTU 312 6.4795
OTU 307 6.6192
OTU 217 5.1882
OTU 219 6.0629
OTU 302 7.9524
OTU 299 7.4188
OTU 300 6.9746
OTU 315 8.0117
OTU 328 8.3227
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OTU 338 8.6752
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OTU 173
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3
78

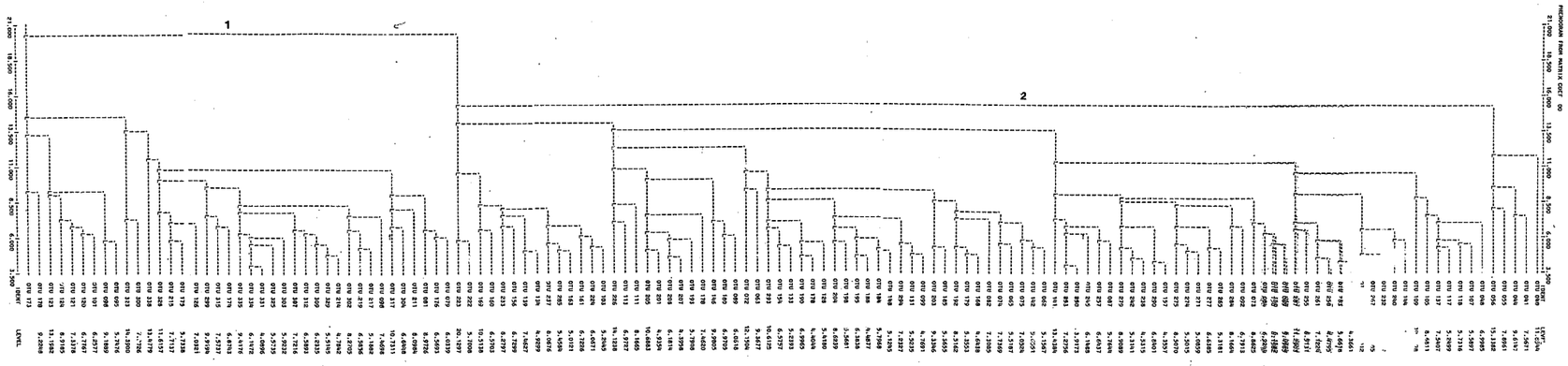

DENDROGRAM FROM MATRIX COEF 00
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OTU 04. 0.4279
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OTU 048 0.3471
OTU 035 0.2364
OTU 105 0.3916
OTU 107 0.6863
OTU 109 0.3916
OTU 161 0.1543
OTU 069 0.5205
OTU 180 0.4522
OTU 146 0.2818
OTU 099 0.6783
OTU 117 0.5769
OTU 131 0.5046
OTU 113 0.5779
OTU 198 0.4473
OTU 127 0.2019
OTU 111 0.4861
OTU 178 0.9846
OTU 062 0.3953
OTU 142 0.1328
OTU 063 0.5560
OTU 084 0.3973
OTU 072 0.5078
OTU 087 0.3951
OTU 092 0.2566
OTU 073 0.3973
OTU 257 0.3106
OTU 150 0.3765
OTU 069 0.4930
OTU 074 0.4120
OTU 081 0.2864
OTU 075 0.4333
OTU 079 0.6169
OTU 065 0.2530
OTU 103 0.4409
OTU 156 0.5736
OTU 277 0.4805
OTU 224 0.5959
OTU 233 0.3573
OTU 118 0.5093
OTU 165 0.6782
OTU 169 0.5883
OTU 161 0.4206
OTU 134 0.8938
OTU 139 0.3899
OTU 128 0.6336
OTU 154 0.5113
OTU 170 0.6296
OTU 190 0.2818
OTU 163 0.5976
OTU 237 0.6624
OTU 185 0.5175
OTU 122 0.8437
OTU 223 0.6193
OTU 295 0.9881
OTU 250 0.7771
OTU 253 0.6438
OTU 265 0.5172
OTU 275 0.3178
OTU 207 0.6057
OTU 226 0.9512
OTU 208 0.7680
OTU 082 0.5069
OTU 193 0.3409
OTU 198 0.5407
OTU 209 0.2965
OTU 185 0.5549
OTU 203 0.3217
OTU 188 0.4822
OTU 201 0.6199
OTU 205 0.3990
OTU 195 0.1057
OTU 168 0.6699
OTU 179 0.4088
OTU 192 0.9813
OTU 194 0.5765
OTU 238 0.4876
OTU 230 0.7013
OTU 280 0.5943
OTU 267 0.6770
OTU 269 0.3807
OTU 293 0.4900
OTU 296 0.2419
OTU 228 0.7829
OTU 263 0.6898
OTU 261 0.6898
OTU 252 0.4845
OTU 282 0.5539
OTU 256 0.2864
OTU 157 0.6263
OTU 290 0.3716
OTU 279 0.5742
OTU 287 0.2130
OTU 271 0.3868
OTU 274 0.3765
OTU 264 0.0305
OTU 133 0.2910
OTU 184 -0.2093
OTU 095 0.8480
OTU 096 0.7687
OTU 124 0.7277
OTU 101 0.6036
OTU 121 0.7907
OTU 120 0.5598
OTU 126 0.4661
OTU 172 0.7276
OTU 173 0.5772
OTU 176 0.3495
OTU 098 0.6825
OTU 329 0.6171
OTU 214 0.7266
OTU 307 0.7711
OTU 309 0.6439
OTU 303 0.7687
OTU 331 0.8511
OTU 334 0.7843
OTU 335 0.7257
OTU 325 0.5806
OTU 217 0.7405
OTU 302 0.6909
OTU 219 0.5037
OTU 299 0.4982
OTU 315 0.5968
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OTU 328 0.3376
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OTU 176 0.2608
OTU 311 0.3929
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76
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IDENT
LEVEL

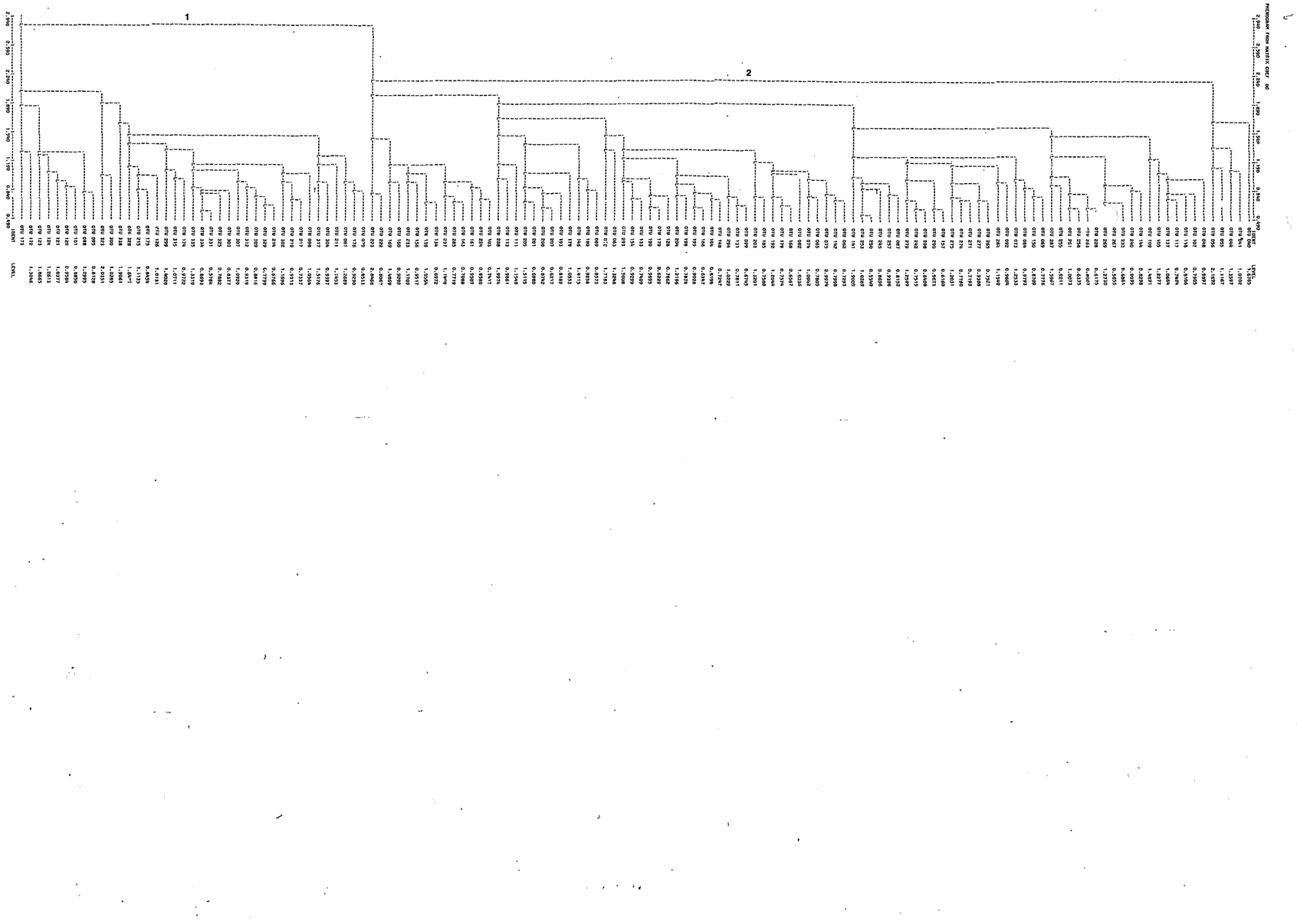


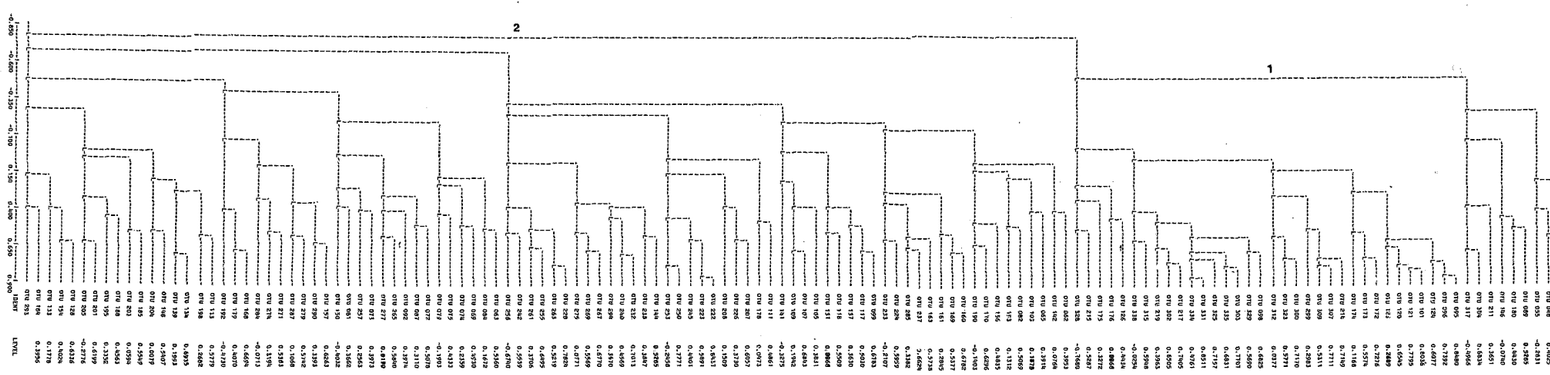

PHENOGRAM FROM MATRIX COEF 00
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OTU 044 1.6958
OTU 045 0.8926
OTU 107 0.7928
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OTU 137 0.7877
OTU 118 1.0229
OTU 055 1.1008
OTU 105 1.1681
OTU 069 0.7976
OTU 150 0.8469
OTU 084 0.9538
OTU 073 1.0689
OTU 092 0.8604
OTU 064 1.3134
OTU 072 1.3637
OTU 063 1.4356
OTU 056 1.1562
OTU 089 0.8573
OTU 180 0.9710
OTU 196 1.2502
OTU 178 1.3178
OTU 062 0.7293
OTU 142 0.7865
OTU 075 0.8658
OTU 065 0.7809
OTU 076 0.9339
OTU 168 0.6562
OTU 179 0.7520
OTU 192 0.9910
OTU 082 1.0289
OTU 099 0.6249
OTU 131 0.8764
OTU 198 0.7874
OTU 204 0.9219
OTU 188 0.6249
OTU 195 0.8003
OTU 201 0.6980
OTU 205 0.7682
OTU 207 0.8217
OTU 206 0.8362
OTU 193 0.9819
OTU 185 0.7588
OTU 203 1.0626
OTU 179 0.8533
OTU 176 0.9074
OTU 081 1.1550
OTU 211 1.2645
OTU 087 0.8553
OTU 257 0.9061
OTU 271 0.7193
OTU 276 0.7683
OTU 275 0.9789
OTU 245 0.8322
OTU 250 0.7588
OTU 253 0.7351
OTU 265 0.8607
OTU 272 0.9851
OTU 157 0.6160
OTU 290 0.7905
OTU 236 0.6406
OTU 242 0.7320
OTU 279 0.8929
OTU 228 0.6779
OTU 263 0.7887
OTU 256 0.6335
OTU 261 0.8198
OTU 232 0.6694
OTU 267 0.5655
OTU 269 0.7413
OTU 294 1.0005
OTU 103 0.7917
OTU 226 0.8385
OTU 151 0.8831
OTU 163 0.7898
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OTU 158 0.7247
OTU 184 0.6349
OTU 133 0.7409
OTU 154 0.9141
OTU 293 1.5038
OTU 144 0.8298
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OTU 287 1.5236
OTU 109 1.2560
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OTU 113 0.9878
OTU 136 0.6882
OTU 139 0.5982
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OTU 156 0.9517
OTU 233 1.0801
OTU 160 0.9292
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OTU 223 2.1604
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OTU 096 1.1016
OTU 101 0.6836
OTU 120 0.9538
OTU 123 1.0022
OTU 128 1.2411
OTU 123 1.6178
OTU 098 0.9789
OTU 174 1.0478
OTU 217 0.7337
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OTU 299 1.0744
OTU 307 1.2381
OTU 335 0.9851
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OTU 309 1.0285
OTU 323 1.7560
OTU 172 1.3046
OTU 173
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80


PHENOGRAM FROM MATRIX COEF 00
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IDENT
LEVEL
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OTU 048 11.6373
OTU 068 6.3114
OTU 107 5.6057
OTU 117 5.2499
OTU 137 5.5701
OTU 118 7.2329
OTU 055 7.7837
OTU 105 8.2599
OTU 089 5.4883
OTU 150 5.9856
OTU 084 6.7844
OTU 073 7.5375
OTU 092 6.7313
OTU 288 9.2572
OTU 078 9.6430
OTU 063 10.1515
OTU 056 8.1759
OTU 069 6.0618
OTU 180 6.8662
OTU 106 8.8400
OTU 178 9.3180
OTU 060 5.1567
OTU 182 5.5616
OTU 075 6.1505
OTU 065 5.5157
OTU 074 6.6036
OTU 168 4.6438
OTU 179 5.3173
OTU 192 7.0072
OTU 082 7.8753
OTU 099 4.7691
OTU 131 5.8433
OTU 198 5.5681
OTU 204 6.5192
OTU 188 4.9877
OTU 195 5.6587
OTU 201 4.9354
OTU 205 5.4320
OTU 207 4.3958
OTU 208 5.9127
OTU 193 6.9427
OTU 185 5.3655
OTU 203 7.5138
OTU 079 6.0339
OTU 176 6.4162
OTU 081 8.1760
OTU 211 8.9414
OTU 087 5.7604
OTU 257 6.4074
OTU 271 5.0859
OTU 274 5.4116
OTU 275 6.5752
OTU 245 5.2465
OTU 250 3.9173
OTU 253 5.1980
OTU 265 6.0860
OTU 277 6.8952
OTU 157 4.3557
OTU 290 5.5897
OTU 238 4.9315
OTU 242 5.1763
OTU 279 6.3137
OTU 228 4.3661
OTU 263 5.2802
OTU 258 4.4795
OTU 281 5.7966
OTU 232 4.7337
OTU 267 3.9985
OTU 269 5.2921
OTU 294 7.0746
OTU 103 5.2445
OTU 224 5.9292
OTU 161 6.2446
OTU 163 5.0121
OTU 285 5.3004
OTU 237 7.5514
OTU 128 5.3232
OTU 170 4.4048
OTU 190 5.5371
OTU 148 5.1245
OTU 184 5.8218
OTU 133 5.2393
OTU 134 6.4636
OTU 293 7.6776
OTU 146 5.8675
OTU 240 8.0062
OTU 141 8.5497
OTU 255 6.5131
OTU 287 10.7887
OTU 109 8.8832
OTU 111 8.2161
OTU 112 6.8437
OTU 138 4.9299
OTU 139 7.0585
OTU 220 10.1250
OTU 136 6.7299
OTU 233 7.6372
OTU 160 6.5703
OTU 169 8.8861
OTU 222 5.7008
OTU 223 15.1983
OTU 095 5.7676
OTU 096 7.7897
OTU 101 6.2577
OTU 120 6.7726
OTU 121 7.0864
OTU 124 8.7757
OTU 123 11.6375
OTU 098 6.9216
OTU 174 7.4089
OTU 217 5.7882
OTU 219 6.0429
OTU 302 7.8080
OTU 304 6.6180
OTU 317 5.9640
OTU 283 8.2822
OTU 126 7.9356
OTU 175 5.7336
OTU 215 6.3100
OTU 312 6.9124
OTU 328 8.0932
OTU 214 8.7789
OTU 331 4.0896
OTU 334 4.9678
OTU 329 5.3600
OTU 309 5.8145
OTL 303 6.4960
OTU 319 7.1346
OTU 299 7.5973
OTU 307 6.7909
OTU 335 6.6828
OTU 338 10.5916
OTU 300 7.2726
OTU 323 12.4155
OTU 172 9.2248
OTU 173
16.800 14.800 12.800 10.800 8.800 6.800 4.800 2.800
IDENT
LEVEL
2
1

90


1
2
PHENOGRAM FROM MATRIX COEF. 00
21.000
18.500
16.000
13.500
11.000
8.500
6.000
3.500
1.000
LEVEL


1
2
DENDROGRAM FROM MATRIX CORF 00


2
1
FREQUENCY FROM MATRIX COLF 69

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
238	M	2	2	2	2	2	2	2	2	2
239	F	2	2	2	2	2	2	2	2	2
240	M	2	2	2	2	2	2	2	2	2
241	F	2	2	2	2	2	2	2	2	2
242	M	2	2	2	2	2	2	2	2	2
243	F	2	2	2	2	2	2	2	2	2
244	F	2	2	2	2	2	2	2	2	2
245	M	2	2	2	2	2	2	2	2	2
247	F	2	2	2	2	2	2	2	2	2
250	M	2	2	2	2	2	2	2	2	2
251	F	2	2	2	2	2	2	2	2	2
252	F	2	2	2	2	2	2	2	2	2
253	M	2	2	2	2	2	2	2	2	2
254	F	2	2	2	2	2	2	2	2	2
255	M	2	2	2	2	2	2	2	2	2
256	F	2	2	2	2	2	2	2	2	2
257	M	2	2	2	2	2	2	2	2	2
258	M	2	2	2	2	2	2	2	2	2
259	F	2	2	2	2	2	2	2	2	2
260	F	2	2	2	2	2	2	2	2	2
261	M	2	2	2	2	2	2	2	2	2
262	F	2	2	2	2	2	2	2	2	2
263	M	2	2	2	2	2	2	2	2	2
264	F	2	2	2	2	2	2	2	2	2
265	M	2	2	2	2	2	2	2	2	2
266	F	2	2	2	2	2	2	2	2	2
267	M	2	2	2	2	2	2	2	2	2
268	F	2	2	2	2	2	2	2	2	2
269	M	2	2	2	2	2	2	2	2	2

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
270	F	2	2	2	2	2	2	2	2	2
271	M	2	2	2	2	2	2	2	2	2
272	F	2	2	2	2	2	2	2	2	2
273	F	2	2	2	2	2	2	2	2	2
274	M	2	2	2	2	2	2	2	2	2
275	M	2	2	2	2	2	2	2	2	2
276	F	2	2	2	2	2	2	2	2	2
277	M	2	2	2	2	2	2	2	2	2
278	F	2	2	2	2	2	2	2	2	2
279	M	2	2	2	2	2	2	2	2	2
280	F	2	2	2	2	2	2	2	2	2
282	F	2	2	2	2	2	2	2	2	2
283	F	2	2	2	2	2	2	2	2	2
284	M	2	2	2	2	2	2	2	2	2
285	M	2	2	2	2	2	2	2	2	2
286	F	2	2	2	2	2	2	2	2	2
287	M	2	2	2	2	2	2	2	2	2
288	F	2	2	2	2	2	2	2	2	2
289	F	2	2	2	2	2	2	2	2	2
290	M	2	2	2	2	2	2	2	2	2
292	F	2	2	2	2	2	2	2	2	2
293	M	2	2	2	2	2	2	2	2	2
294	M	2	2	2	2	2	2	2	2	2
295	F	2	2	2	2	2	2	2	2	2
296	F	1	1	1	1	1	1	1	1	1
297	F	1	1	1	1	1	1	1	1	1
298	F	1	1	1	1	1	1	1	1	1
299	M	1	1	1	1	1	1	1	1	1
300	M	1	1	1	1	1	1	1	1	1

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
301	F	1	1	1	1	1	1	1	1	1
302	M	1	1	1	1	1	1	1	1	1
303	M	1	1	1	1	1	1	1	1	1
304	M	1	1	1	1	1	1	1	1	1
305	F	1	1	1	1	1	1	1	1	1
306	F	1	1	1	1	1	1	1	1	1
307	M	1	1	1	1	1	1	1	1	1
308	F	1	1	1	1	1	1	1	1	1
309	M	1	1	1	1	1	1	1	1	1
310	F	1	1	1	1	1	1	1	1	1
311	F	1	1	1	1	1	1	1	1	1
312	M	1	1	1	1	1	1	1	1	1
313	F	1	1	1	1	1	1	1	1	1
314	F	1	1	1	1	1	1	1	1	1
315	M	1	1	1	1	1	1	1	1	1
316	F	1	1	1	1	1	1	1	1	1
317	M	1	1	1	1	1	1	1	1	1
322	F	1	1	1	1	1	1	1	1	1
323	M	1	1	1	1	1	1	1	1	1
324	F	1	1	1	1	1	1	1	1	1
325	M	1	1	1	1	1	1	1	1	1
326	F	1	1	1	1	1	1	1	1	1
327	F	1	1	1	1	1	1	1	1	1
328	M	1	1	1	1	1	1	1	1	1
329	M	1	1	1	1	1	1	1	1	1
330	F	1	1	1	1	1	1	1	1	1
331	M	1	1	1	1	1	1	1	1	1
332	F	1	1	1	1	1	1	1	1	1
333	F	1	1	1	1	1	1	1	1	1

OTU	DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
334	M	1	1	1	1	1	1	1	1	1
335	M	1	1	1	1	1	1	1	1	1
336	F	1	1	1	1	1	1	1	1	1
337	F	1	1	1	1	1	1	1	1	1
338	M	1	1	1	1	1	1	1	1	1
339	F	1	1	1	1	1	1	1	1	1
340	F	1	1	1	1	1	1	1	1	1
341	F	1	1	1	1	1	1	1	1	1
342	F	1	1	1	1	1	1	1	1	1
343	F	1	1	1	1	1	1	1	1	1
344	F	1	1	1	1	1	1	1	1	1
345	F	1	1	1	1	1	1	1	1	1

Table 4:- Listing of Cophenetic Correlation Values for the Different Clustering Techniques and Coefficients Used.

Key:- 1. Data Set - M = Male; F = Female.
2. Clustering Algorithm -
UPG = UPGMA; WPG = WPGMA;
COM = COMPLETE.
3. Coefficient - DIS = DISTANCE;
COR = CORRELATION; EUC = EUCLIDEAN DISTANCE.

DATA SET	UPG DIS	UPG COR	UPG EUC	WPG DIS	WPG COR	WPG EUC	COM DIS	COM COR	COM EUC
M	0.77	0.74	0.77	0.74	0.63	0.73	0.69	0.62	0.68
F	0.72	0.73	0.72	0.68	0.65	0.68	0.63	0.65	0.63

three methods displayed evidence of "chaining" (see section 3.2.2 for an explanation of chaining).

In the female data set the UPGMA clustering technique using the distance and euclidean distance coefficients (Figs. 4; 6) give more major clusters (i.e. 3) than any of the other techniques. However, the two principal clusters designated by these techniques remain consistent with those designated by the other clustering techniques (Table 3). The COMPLETE clustering technique (Figs. 10; 11; & 12) (phenon levels 2.25; -5; and 14.5 respectively) and the WPGMA technique using both the distance and euclidean distance coefficients (Figs. 7 & 9) (phenon levels 2.0; & 13 respectively) show the clearest separation into two major clusters.

OTUs 116 and 252 form a third cluster at the 1.5 phenon level (Fig. 4) and the 14 phenon level (Fig. 6) when the UPGMA clustering technique is used with the distance and euclidean distance coefficients respectively. This pattern is not prevalent when the other clustering techniques are used, but OTU 116 is included in group one (Table 3) when the WPGMA and *COMPLETE clustering techniques are used in conjunction* with both distance coefficients (Figs. 7; 9; 10 & 12 respectively). In these cases, OTU 116 is placed at the boundary of group one and acts as a link between the two major clusters, but is placed within group two when the correlation coefficient is used (Figs. 8; & 11).

OTU 252 is always placed on the boundary of group two when distance and euclidean distance coefficients are used with the various clustering techniques (Figs. 4; 6; 7; 9; 10; & 12) but is more centrally positioned when the correlation coefficient is used with the various clustering techniques (Figs. 5; 8; & 11) Closer examination of the actual specimens (OTUs 116 & 252) and the measurements obtained for the various characters shows the OTUs to be neither extreme nor unusual in any way. Thus, it would appear as if the positioning of these two OTUs is a result of the clustering procedure rather than of the specimens themselves.

three methods displayed evidence of "chaining" (see section 3.2.2 for an explanation of chaining).

In the female data set the UPGMA clustering technique using the distance and euclidean distance coefficients (Figs. 4; 6;) give more major clusters (i.e. 3) than any of the other techniques. However, the two principal clusters designated by these techniques remain consistent with those designated by the other clustering techniques (Table 3). The COMPLETE clustering technique (Figs. 10; 11; & 12) (phenon levels 2.25; -5; a.. '4.5 respectively) and the WPGMA technique using both the distance and euclidean distance coefficients (Figs. 7 & 9) (phenon levels 2.0; & 13 respectively) show the clearest separation into two major clusters.

OTUs 116 and 252 form a third cluster at the *1.5 phenon level (Fig. 4) and* the 10.5 phenon level (Fig. 6) when the UPGMA clustering technique is used with the distance and euclidean *distance coefficients respectively.* This pattern is not prevalent when the other clustering techniques are used, but *OTU 116 is included in group one (Table 3) when* the WPGMA and COMPLETE clustering techniques are used in conjunction with both *distance coefficients* (Figs. 7; 9; 10 & 12 respectively). In these cases, OTU 116 is placed at the boundary of group one and acts as a link between the *two major clusters,* but is placed within group two when the correlation coefficient is used (Figs. 8; & 11).

OTU 252 is always placed on the boundary of group two when distance and euclidean distance coefficients are used with the various clustering techniques (Figs. 4; 6; 7; 9; 10; & 12) but is more centrally positioned when the correlation coefficient is used with the various clustering techniques (Figs. 5; 8; & 11) Closer examination of the actual specimens (OTUs 116 & 252) and the measurements obtained for the various characters shows the OTUs to be neither extreme nor unusual in any way. Thus, it would appear as if the positioning of these two OTUs is a result of the clustering procedure rather than of the specimens themselves.

In the male data set the UPGMA clustering technique using the distance and euclidean distance coefficients (Figs. 13 & 15) give more clusters (ie. 3) than any of the other techniques. OTUs 172 and 173 form a third cluster at the 1.55 phenon level (Fig. 13) and the 11.0 phenon level (Fig. 15) when the UPGMA clustering technique is used with the distance and euclidean distance techniques respectively. This pattern is still prevalent when any of the other clustering techniques are used in conjunction with either the distance or euclidean distance coefficients. In these cases, though, the two OTUs are incorporated into group one (Figs. 16; 18; 19; & 21). Closer examination of the actual specimens revealed that the plants sampled were less mature than the average OTUs used in this study. This implies that the size of certain floral characters would be strongly affected. This may account for the positioning of these OTUs at the extreme boundary of group one when the distance and euclidean distance coefficients are used (Figs. 13; 15; 16; 18; 19; & 21).

In the case of the complete linkage technique using the correlation coefficient (Fig. 20) the position of group one has been shifted from the extreme left to the far right of the phenogram. Several of the OTUs (namely numbers 40; 41; 44; 48; 55; 56; 89; & 180) which in all other cases are allocated to group two (Table 3), have been added to group one in this instance. A similar situation is evident when WPGMA is used with the correlation coefficient (Fig. 17) where group one, at the -5 phenon level, has a number of OTUs present which in all other cases are allocated to group two (Table 3). These OTUs (namely numbers 82; 111; 148; 178; 185; 188; 193; 195; 198; 201; 203; 204; 205; 207; 208; 209; & 226) are not the same set of OTUs that were added to group one when COMPLETE linkage clustering was used with the correlation coefficient. From this it appears evident that these anomolies are probably due to the methodology used rather than to some inherent factor in the data.

The UPGMA clustering technique using the correlation coefficient (Fig. 14) (Phenon level = -2.5), the WPGMA technique using both the distance (Fig. 16) and euclidean distance (Fig. 18) coefficients (phenon levels = 1.8 & 12.5 respectively) as well as the complete linkage technique using both the distance (Fig. 19) and euclidean distance (Fig. 21) coefficients (phenon levels = 2.25 & 16.0 respectively) show the clearest separation of the OTUs into two major clusters.

4.2 Principal Components Analysis

Both sets of data (male and female) were subjected to a PCA and the first *three principal components* extracted (Figs. 22 - 27). The first three principal components extracted account for 42.0 and 47.4 percent of the variation for the female and male data respectively. The first fourteen components of *the female data set (Table 5) and the first twelve* of the male data set (Table 6) have eigenvalues greater than one, indicating that the characters used are not highly correlated. The relatively low percentage of the variation accounted for by the first three components in each *data set* (42.0 & 47.4 respectively) also indicates that the character variables used are not highly correlated. Component one emphasizes the inflorescence characters, while component two accentuates the floret characters for both data sets (Tables 7 & 8). The third component, of both data sets, has high loadings for leaf characters.

Inspection of the first two PCA plots for the female data (Figs. 22 & 23) reveals that individuals from groups one and three (corresponding to *Brachylaena uniflora* and *B. discolor* subsp. *transvalensis* respectively) are separated from the individuals of group two (corresponding to *B. discolor* subsp. *discolor*). OTUs from groups one and three show a large degree of overlap and are drawn fairly close together, while group two remains fairly distinct. There is a degree of overlap between certain individuals of groups *one and two, but individuals from group three* do not overlap with any of the OTUs from group two. In the case of factor 3 vs. factor 2 (Fig. 24)

individuals from all three groups are interspersed with one another and no groups are clearly separated from any others. This is as expected as factors two and three account for only fourteen percent of the variation.

Closer examination of the first two PCA plots for the male data (Figs. 25 & 26) reveals a similar pattern to that of the female data; OTUs from groups one and three (corresponding to *Brachylaena uniflora* and *B. discolor* subsp. *transvaalensis* respectively) are separated from the individuals of group two (corresponding to *B. discolor* subsp. *discolor*). In this case, though, one of the OTUs had missing values and so was excluded from the analysis. When considering factor 3 vs. factor 2 (Fig. 27) a similar pattern to that of the female data set is again evident with OTUs from all three groups interspersed with one another and no groups clearly separated.

The overall impression given by the PCA plots is of two groups. These results serve to substantiate the results of the c[illegible] Section 4.1) and the canonical discriminant analysis (Section [illegible] revealed similar groupings of the OTUs. These results are further supported by the fact that similar groupings were obtained in each case with both the female and male data sets.

Figure 4. Phenogram of 150 female OTUs - clustering technique used was UPGMA with DISTANCE coefficient. (Phenon level used = -1.4), (COPH. = 0.722).

Figure 5. Phenogram of 150 female OTUs - clustering technique used was UPGMA with CORRELATION coefficient. (Phenon level used = -1.0), (COPH. = 0.733).

Figure 6. Phenogram of 150 female OTUs - clustering technique used was UPGMA with EUCLIDEAN DISTANCE coefficient. (Phenon level used = 10.5), (COPH. = 0.722).

Figure 7. Phenogram of 150 female OTUs - clustering technique used was WPGMA with DISTANCE coefficient.(Phenon level used = 2.0), (COPH. = 0.678).

Figure 8. Phenogram of 150 female OTUs - clustering technique used was WPGMA with CORRELATION coefficient. (Phenon level used = -7.0), (COPH. = 0.652).

Figure 9. Phenogram of 150 female OTUs - clustering technique used was WPGMA with EUCLIDEAN DISTANCE coefficient. (Phenon level used = 13), (COPH. = 0.678).

Figure 10. Phenogram of 150 female O. Us - clustering technique used was COMPLETE with DISTANCE coefficient. (Phenon level used = 2.25), (COPH. = 0.631).

Figure 11. Phenogram of 150 female OTUs - clustering technique used was COMPLETE with CORRELATION coefficient. (Phenon level used = -5.0), (COPH. = 0.654).

Figure 12. Phenogram of 150 female OTUs - clustering technique used was COMPLETE with EUCLIDEAN DISTANCE coefficient. (Phenon level used = 14.5), (COPH. = 0.631).

Figure 13. Phenogram of 138 Male OTUs - clustering technique used was UPGMA with DISTANCE coefficient. (Phenon level = 1.55), (COPH. = 0.774).

Figure 14. Phenogram of 138 male OTUs - clustering technique used was UPGMA with CORRELATION coefficient. (Phenon level = -2.5), (COPH. = 0.739).

Figure 15. Phenogram of 138 male OTUs - clustering technique used was UPGMA with EUCLIDEAN DISTANCE coefficient. (Phenon level = 11.0), (COPH. = 0.773).

Figure 16. Phenogram of 138 male OTUs - clustering technique used was *WPGMA with DISTANCE coefficient. (Phenon level = 1.8), (COPH. = 0.736).*

Figure 17. Phenogram of 138 male OTUs - clustering tecalque used was *WPGMA with CORRELATION coefficient, (Pheuon level = -5.0), (COPH. = 0.625).*

Figure 18. Phenogram of 138 male OTUs - clustering technique used was *WPGMA with EUCLIDEAN DISTANCE coefficient.* (Phenon level = 12.5), (COPH. = 0.734).

Figure 19. Phenogram of 138 male OTUs - clustering technique used was COMPLETE with DISTANCE coefficient. (Phenon level = 2.25), (COPH. = 0.685).

Figure 20. Phenogram of 138 male OTUs - clustering technique used was COMPLETE with CORRELATION coefficient. (Phenon level = -70.0), (COPH. = 0.623).

Figure 21. Phenogram of 138 male OTUs - clustering technique used was COMPLETE with EUCLIDEAN DISTANCE coefficient. (Phenon level = 16.0), (COPH. = 0.684).

Table 5:- List of the first 15 factors and their corresponding eigenvalues for the female data set. (For the complete set of 48 see Appendix IV).

FACTOR	EIGENVAL	% OF TOTAL VARIANCE	ACCUM. PERCENTAGE
FACT0001	13.477	28.08	28.08
FACT0002	3.541	7.38	35.45
FACT0003	3.112	6.48	41.94
FACT0004	2.648	5.52	47.46
FACT0005	2.303	4.80	52.26
FACT0006	2.147	4.47	56.73
FACT0007	1.915	3.99	60.72
FACT0008	1.650	3.44	64.16
FACT0009	1.358	2.83	66.99
FACT0010	1.318	2.75	69.74
FACT0011	1.186	2.47	72.21
FACT0012	1.148	2.39	74.60
FACT0013	1.042	2.17	76.77
FACT0014	1.052	2.19	78.96
FACT0015	0.876	1.83	80.79

Table 6:- List of the first 15 factors and their corresponding eigenvalues for the male data set. (For the complete set of 50 factors see Appendix IV).

FACTOR	EIGENVAL	% OF TOTAL VARIANCE	ACCUM. PERCENTAGE
FACT0001	16.055	32.11	32.11
FACT0002	4.153	8.31	40.42
FACT0003	3.511	7.02	47.44
FACT0004	2.789	5.58	53.02
FACT0005	2.611	5.22	57.29
FACT0006	2.410	4.82	62.11
FACT0007	1.860	3.72	65.83
FACT0008	1.620	3.24	69.07
FACT0009	1.473	2.95	72.02
FACT0010	1.268	2.54	74.56
FACT0011	1.155	2.31	76.86
FACT0012	1.084	2.17	79.03
FACT0013	0.949	1.90	80.93
FACT0014	0.844	1.69	82.62
FACT0015	0.740	1.48	84.10

Table 7:- Relative contributions of the character variables to the PCA. (Female data set).

VAR.	FACT.1 CORR. VALUE	(%)	FACT.2 CORR. VALUE	(%)	FACT.3 CORR. VALUE	(%)
RACh	0.028	(0.13)	-0.283	(2.72)	0.177	(1.76)
INNDLN	-0.045	(0.21)	-0.405	(3.89)	0.229	(2.28)
NBR	-0.825	(3.83)	0.040	(0.38)	0.014	(0.14)
IBRW	-0.391	(1.82)	-0.417	(4.00)	-0.340	(3.39)
OBRW	-0.722	(3.35)	-0.074	(0.71)	-0.291	(2.90)
INMXW	-0.899	(4.17)	-0.136	(1.31)	-0.148	(1.47)
PMXL	-0.704	(3.27)	0.119	(1.14)	-0.081	(0.81)
LBRP	-0.643	(2.99)	0.211	(2.03)	-0.001	(0.01)
INFL	-0.955	(4.43)	0.085	(0.82)	-0.024	(0.24)
INFW	-0.850	(3.95)	-0.072	(0.69)	-0.094	(0.09)
VANOS	-0.054	(0.25)	-0.084	(0.81)	0.263	(2.62)
VANOB	-0.340	(1.58)	0.041	(0.39)	0.328	(3.27)
SHINL	0.291	(1.35)	0.264	(2.53)	-0.491	(4.89)
LNWDRL	0.492	(2.28)	0.391	(3.75)	-0.457	(4.55)
MXLNL	0.621	(2.88)	-0.058	(0.56)	0.148	(1.47)
MXWDL	0.112	(0.52)	-0.452	(4.34)	0.606	(6.04)
APXAN	-0.395	(1.83)	-0.316	(3.03)	0.149	(1.48)
APXPS	0.334	(1.55)	0.047	(0.45)	0.180	(1.79)
BSAN	-0.487	(2.26)	-0.289	(2.77)	0.398	(3.97)
BSPS	-0.343	(1.59)	-0.095	(0.91)	0.101	(1.01)
SVINS	-0.125	(0.58)	-0.078	(0.75)	0.383	(3.82)
NSECV	0.365	(1.69)	0.040	(0.38)	0.309	(3.08)
PINSV	0.276	(1.20)	-0.323	(3.10)	0.125	(1.25)
PTLLN	-0.208	(0.97)	0.102	(0.98)	0.086	(0.86)
INTLN	0.027	(0.13)	-0.136	(1.31)	0.244	(2.43)

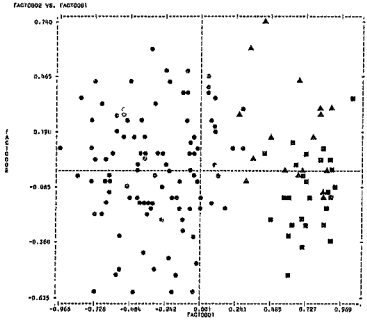
VAR.	FACT.1 CORR. VALUE	(%)	FACT.2 CORR. VALUE	(%)	FACT.3 CORR. VALUE	(%)
NFLOR	-0.819	(3.80)	0.033	(0.32)	-0.105	(1.05)
CORLLN	-0.386	(1.79)	-0.231	(2.22)	0.399	(3.98)
CORLWD	-0.209	(0.97)	-0.461	(4.43)	-0.230	(2.29
CORTWD	-0.133	(0.62)	-0.405	(3.89)	-0.124	(1.24)
STMXLL	-0.384	(1.78)	-0.181	(1.74)	0.190	(1.189)
STBLN	-0.786	(3.65)	0.050	(0.48)	0.017	(0.17)
STBWD	-0.315	(1.46)	-0.433	(4.16)	-0.159	(1.58)
ACMXLN	-0.574	(2.65)	0.158	(1.52)	-0.124	(1.24
ACMXWD	-0.138	(0.64)	-0.225	(2.16)	-0.316	(3.15)
NVPAC	-0.679	(3.15)	-0.099	(0.95)	-0.119	(1.19)
CRMXWD	-0.290	(1.35)	-0.690	(6.63)	-0.192	(1.91)
CRMNWD	0.105	(0.49)	-0.574	(5.51)	-0.097	(0.97)
NWNOHD	0.783	(3.63)	-0.043	(0.41)	0.202	(2.00)
IBLWR	-0.798	(3.70)	0.323	(3.10)	0.199	(1.98)
OBLWR	-0.368	(1.71)	0.324	(3.11)	0.329	(3.28)
INVLWR	-0.094	(0.44)	0.480	(4.61)	0.442	(4.41)
CRLLWR	-0.278	(1.29)	0.042	(0.40)	0.548	(5.46)
ACLWR	-0.547	(2.54)	0.293	(2.81)	0.015	(0.15)
CORLWR	-0.862	(4.00)	0.259	(2.49)	0.114	(1.14)
STLLBR	-0.796	(3.70)	0.172	(1.69)	-0.121	(1.21)
TFLPLR	0.710	(3.70)	-0.047	(0.45)	-0.099	(0.99)
INFLWR	-0.106	(0.49)	0.276	(0.27)	0.150	(1.49)
LRNFHR	-0.849	(3.94)	-0.058	(0.56)	-0.076	(0.76)

Table 8:- Relative contributions of the character variables to the PCA. (Male data set).

VAR.	FACT.1 CORR. VALUE	(%)	FACT.2 CORR. VALUE	(%)	FACT.3 CORR. VALUE	(%)
RACMLN	0.093	(0.39)	-0.048	(0.43)	0.212	(1.97)
INTNDLN	-0.131	(0.54)	-0.120	(1.08)	0.162	(1.51)
LNWDRL	0.260	(1.08)	0.241	(2.18)	0.682	(6.35)
MXLNL	0.394	(1.63)	-0.133	(1.20)	0.276	(2.57)
MXWDL	0.170	(0.70)	-0.368	(3.32)	-0.342	(3.18)
APXAN	-0.150	(0.62)	0.046	(0.42)	-0.475	(4.42)
APXPS	-0.096	(0.40)	-0.059	(0.53)	0.218	(2.03)
BSAN	0.259	(1.07)	-0.302	(2.73)	-0.128	(1.19)
BSPS	-0.224	(0.93)	-0.130	(1.17)	0.222	(2.07)
SVINS	0.143	(0.59)	-0.175	(1.58)	-0.447	(4.16)
NSECV	0.200	(0.83)	-0.199	(1.80)	0.026	(0.24)
PINSV	0.353	(1.46)	-0.106	(0.96)	0.048	(0.45)
PTLLN	-0.214	(0.89)	-0.173	(1.56)	0.326	(3.04)
INTLN	-0.041	(0.17)	-0.217	(1.96)	0.081	(0.75)
NBR	-0.889	(3.69)	-0.111	(1.00)	-0.126	(1.17)
IBRL	-0.922	(3.82)	-0.125	(1.13)	0.095	(0.88)
OBRL	-0.925	(3.83)	-0.042	(0.38)	0.114	(1.06)
IBRW	-0.626	(2.60)	-0.386	(3.49)	0.077	(0.72)
OBRW	-0.843	(3.49)	-0.074	(0.67)	0.162	(1.51)
PMXL	-0.876	(3.63)	-0.109	(0.98)	-0.107	(1.00)
LBRP	-0.755	(3.13)	-0.219	(1.98)	0.070	(0.65)
NFLOR	-0.867	(3.59)	0.016	(0.14)	0.186	(1.73)
CORLLN	-0.706	(2.93)	0.046	(0.42)	-0.280	(2.60)
CORLWD	-0.219	(0.91)	-0.471	(4.26)	-0.021	(0.20)
CORTWD	-0.687	(2.85)	-0.457	(4.13)	0.133	(1.24)

VAR.	FACT.1 CORR. VALUE	(%)	FACT.2 CORR. VALUE	(%)	FACT.3 CORR. VALUE	(%)
LCTPFA	-0.853	(3.54)	0.271	(1.96)	-0.122	(1.14)
INFW	-0.869	(3.60)	0.214	(1.93)	0.172	(1.60)
INFL	-0.934	(3.87)	0.002	(0.02)	-0.009	(0.08)
FMXLN	-0.768	(3.18)	0.186	(1.68)	-0.212	(1.97)
AMXLN	-0.820	(3.40)	-0.003	(0.03)	-0.099	(0.92)
STMXLOL	-0.273	(1.13)	-0.438	(3.96)	-0.324	(3.02)
VCMXLN	-0.227	(0.94)	0.172	(1.55)	0.343	(3.19)
CRMXWD	-0.637	(2.64)	-0.621	(5.61)	0.175	(1.63)
CRMNWD	-0.235	(0.97)	-0.730	(6.59)	0.180	(1.68)
VANGS	0.070	(0.29)	-0.122	(1.10)	-0.415	(3.86)
VANGB	-0.281	(1.16)	-0.170	(1.54)	-0.348	(3.24)
SHINL	0.183	(0.76)	0.188	(1.70)	0.673	(6.27)
NWNFHD	0.891	(3.69)	-0.033	(0.30)	-0.051	(0.47)
IBLWR	-0.759	(3.15)	0.116	(1.05)	0.059	(0.55)
OBLWR	-0.228	(0.95)	0.039	(0.35)	-0.196	(1.82)
INVLWR	0.290	(1.20)	-0.087	(0.79)	-0.472	(4.39)
CRLLWR	0.548	(2.27)	0.282	(2.55)	-0.244	(2.27)
CORLWR	-0.329	(1.36)	0.707	(6.39)	-0.306	(2.85)
CRLMWR	-0.658	(2.73)	0.565	(5.10)	-0.229	(2.13)
STLLBR	-0.367	(1.52)	0.454	(4.10)	0.274	(2.55)
TFLPLR	0.809	(3.35)	0.181	(1.64)	-0.129	(1.20)
INFLWR	0.445	(1.84)	-0.258	(2.33)	-0.414	(3.85)
LRNFHR	-0.875	(3.63)	0.016	(0.14)	0.037	(0.34
ALFMLR	0.404	(1.67)	-0.313	(2.83)	0.201	(1.87)
LCPFCLR	-0.329	(1.36)	0.528	(4.77)	-0.035	(0.03)

Figure 22. PCA plot of factor 2 vs. factor 1 for 150 female OTUs of the *Brachylaena discolor* - *uniflora* species complex. Percent of trace = 28.08%. (▲Group 1; ●Group 2; ■Group 3), Where Group 1 = *B. uniflora*; Group 2 = *B. discolor* subsp. *discolor*; Group 3 = *B. discolor* subsp. *transvaalensis*.


FACTOR02 VS. FACTOR01
0.740
0.465
0.191
-0.085
-0.360
-0.635
FACTOR02
-0.965
-0.726
-0.484
-0.242
0.001
0.243
0.485
0.727
0.969
FACTOR01

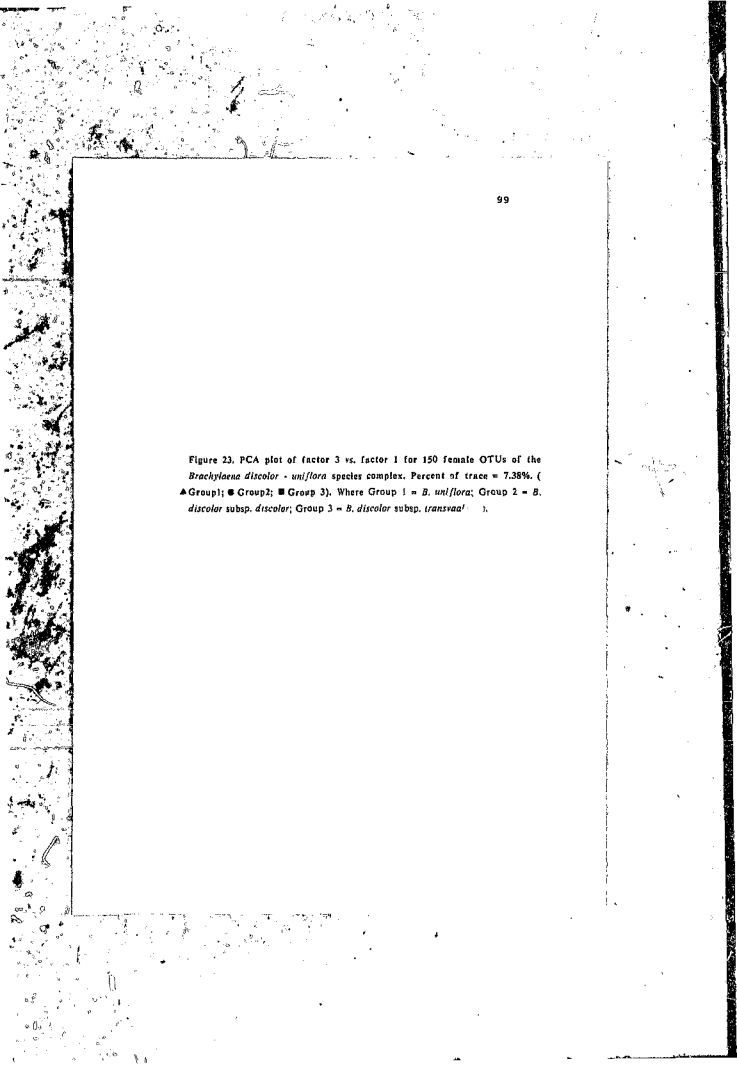
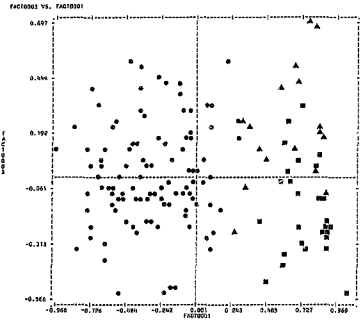


Figure 23. PCA plot of factor 3 vs. factor 1 for 150 female OTUs of the *Brachylaena discolor - uniflora* species complex. Percent of trace = 7.38%. (▲Group1; ● Group2; ■ Group 3). Where Group 1 = *B. uniflora*; Group 2 = *B. discolor* subsp. *discolor*; Group 3 = *B. discolor* subsp. *transvaal*).


FACTOR3 VS. FACTOR1
0.697
0.444
0.192
-0.061
-0.313
-0.565
FACTOR3
-0.960
-0.726
-0.489
-0.242
0.001
0.243
0.483
0.727
0.969
FACTOR1

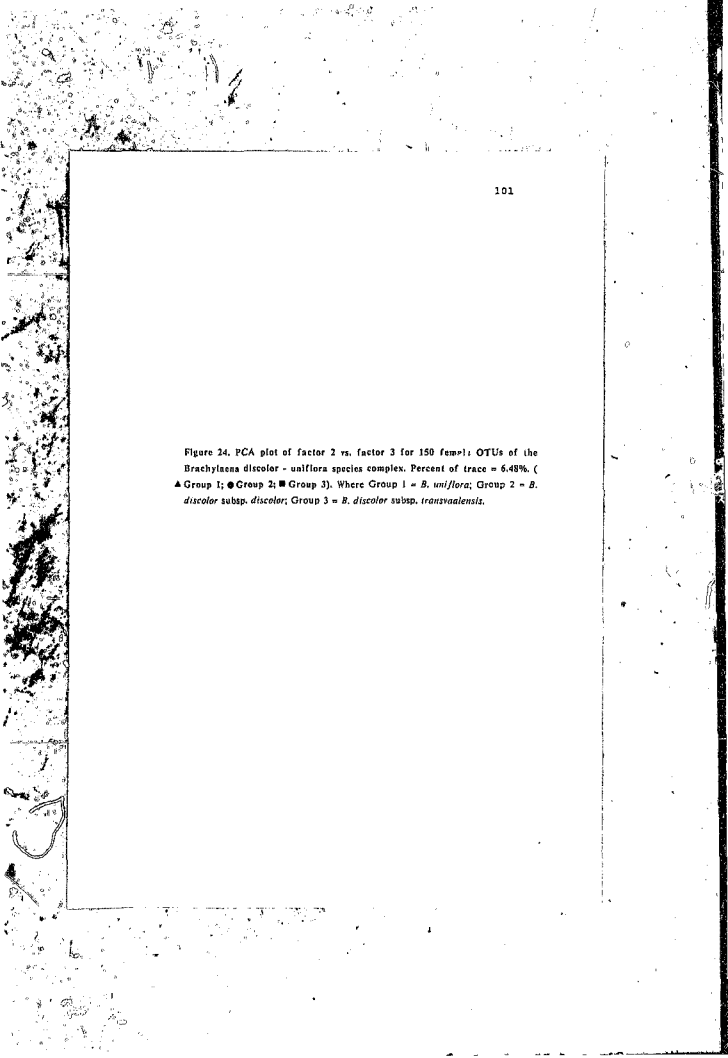


Figure 24. PCA plot of factor 2 vs. factor 3 for 150 femal OTUs of the Brachylaena discolor - uniflora species complex. Percent of trace = 6.48%. (▲ Group 1; ● Group 2; ■ Group 3). Where Group 1 = *B. uniflora*; Group 2 = *B. discolor* subsp. *discolor*; Group 3 = *B. discolor* subsp. *transvaalensis*.

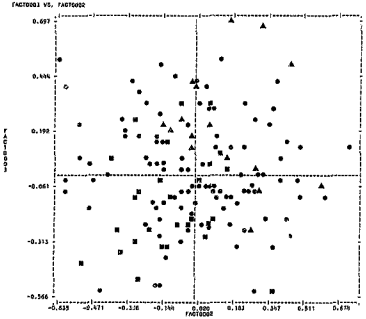

FACTOR03 VS. FACTOR02
0.697
0.444
0.192
-0.061
-0.313
-0.566
FACTOR03
-0.635
-0.471
-0.326
-0.180
0.000
0.183
0.367
0.511
0.670
FACTOR02

Figure 25. PCA plot of factor 2 vs. factor 1 for 138 male OTUs of the *Bru. ..lnena discolor - uniflora* species complex. Percent of trace = 32.11%. (▲Group 1; ● Group 2; ■ Group 3). Where Group 1 = *B. uniflora*; Group 2 = *B. discolor* subsp. *discolor*; Group 3 = *B. discolor* subsp. *transvaalensis*.

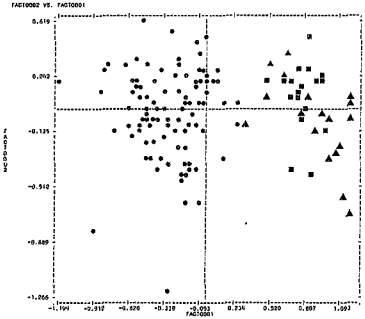

FACTOR02 VS. FACTOR01
0.619
0.202
-0.135
-0.552
-0.969
-1.386
FACTOR02
-1.199
-0.912
-0.626
-0.339
-0.053
0.234
0.520
0.807
1.093
FACTOR01

Figure 26. PCA plot of factor 3 vs. factor 1 for 138 male OTUs of the *Brachylaena discolor - uniflora* complex. Percent of trace = 8.31%. (▲Group 1; ● Group 2; ■ Group3). Where Group 1 = *B. uniflora*; Group 2 = *B. discolor* subsp. *discolor*; Group 3 = *B. discolor* subsp. *transvaalensis*.

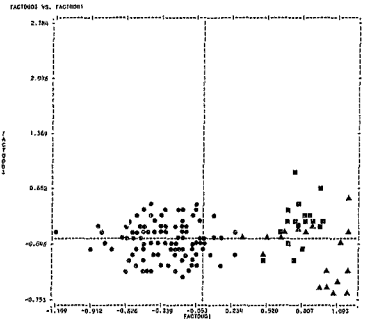
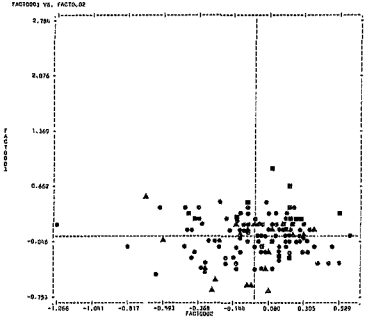

FACTOR03 VS. FACTOR01
2.784
2.076
1.369
0.662
-0.045
-0.751
FACTOR03
-1.199
-0.912
-0.626
-0.339
-0.052
0.234
0.520
0.807
1.093
FACTOR01

Figure 27. PCA plot of factor 3 *vs.* factor 2 for 138 male OTUs of the *Brachyloena discolor - uniflora* species complex. Percent of trace = 7.02%. (▲ Group1; ● Group 2; ■ Group 3). Where Group 1 = *B. uniflora*; Group 2 = *B. discolor* subsp. *discolor*; Group 3 = *B. discolor* subsp. *transvaalensis*.


FACTOR01 VS. FACTOR02
2.784
2.076
1.369
0.662
-0.045
-0.753
FACTOR02
-1.056
-1.011
-0.817
-0.493
-0.265
-0.150
0.080
0.355
0.589

4.3 Discriminant Analysis

(i) Canonical variates analysis

The relationships of OTUs of the three predefined groups, for both sets of data, based on the canonical variates are shown in Figures 28 and 29 respectively. Clustering of the individuals of the three groups around their respective centroids is evident, for both sets of data (Figs. 28 & 29). However, the overall impression of these plots is of two major clusters, one predominantly comprised of group two individuals (corresponding to *B. discolor* subsp. *discolor*) and the other a more dispersed cluster of individuals belonging to groups one and three (corresponding to *B. uniflora* and *B. discolor* subsp. *transvaalensis*).

The Mahalanobis distances between the centroids of groups three and two and of groups one and two is larger than that of the distance between the centroids of groups one and three for both data sets (Tables 9 & 10). This supports the findings of the cluster analyses (Section 4.1) which divides the OTUs into two principal clusters. However, the F values from the centroids (Table 11 & 12) give a different impression as they show that the differences between the centroids of each of the groups are significant ($p = 0.001$ & $p = 0.005$). This does not contradict the results of the Mahalanobis distances (Table 9 & 10) but is largely due to the spread of the OTUs in discriminant space and to the discrepancy in the sample sizes of each group.

If one considers the relative contributions of the character variables to each of the canonical variates (Tables 13 & 14) it is evident that most of the variation is accounted for by the first canonical axis, while far less variation is accounted for by the second canonical axis. This could account for the reversal in positions of groups one and three that is observed in figures 28 and 29. Given all of the above, the results of the CVA also suggest the presence of two groups, one of which (comprising groups 1 & 3) is more dispersed than the other group (comprising group 2). These results also serve to substantiate the results of the cluster analysis (Section 4.1) and

the principal components analysis (Section 4.2) which revealed similar groupings of the OTUs for both data sets.

(ii) Stepwise discriminant analysis

The characters with the greatest discriminatory power were involucre maximum width (INMXW) for the female data (Table 15) and the number of rows of bracts (NBR) for the male data set (Table 16). The R^2 statistic showed that the ratio, total floret length to pappus maximum length (TFLPLR), the leaf shape .. SHINL), and the peduncle maximum length (PMXL) (Table 15) were also good discriminators of the female data while the ratio $\log_{10}$ number of capitula per raceme (NWNOFHD), filament maximum length (FMXLN), and the ratio total floret length to pappus maximum length (TFLPLR) (Table 16) were good discriminators of the male data.

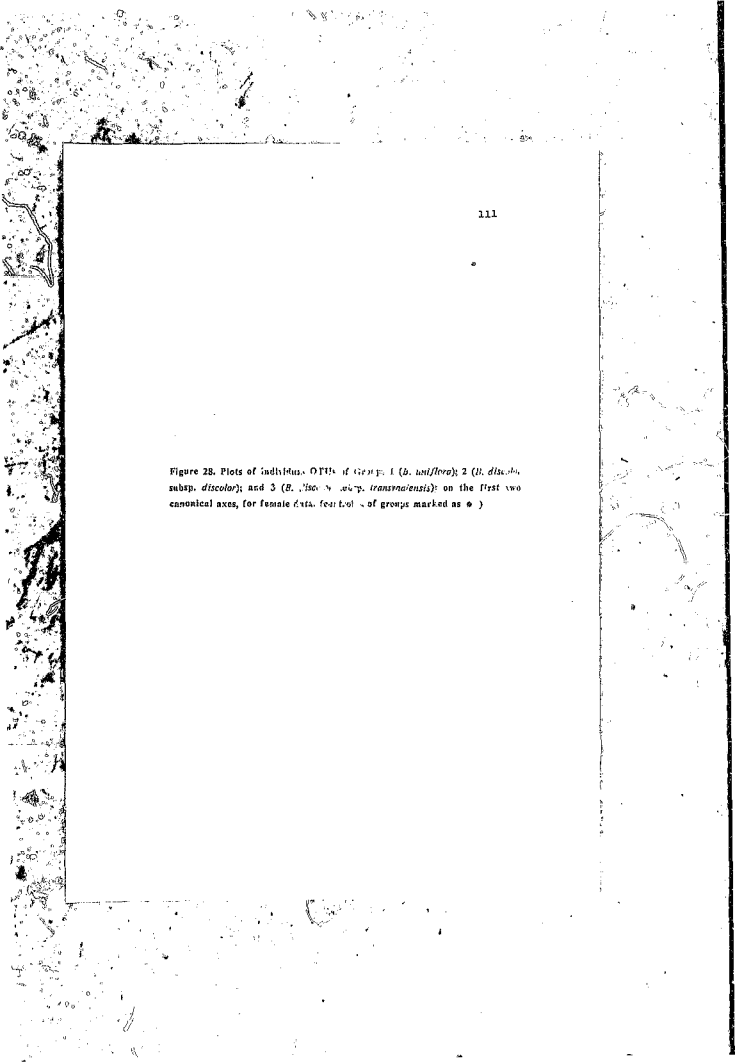


Figure 28. Plots of individual OTUs of Groups 1 (*B. uniflora*); 2 (*B. discolor* subsp. *discolor*); and 3 (*B. discolor* subsp. *transvaalensis*) on the first two canonical axes, for female data. Centroids of groups marked as ⊕)

LAN2
-3.0
-2.5
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
-3.0
-2.5
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
2.5
3.0
LAN1
NOTE: 13 OBS HIDDEN

Figure 29. Plots of individual OTUs of Groups 1 (*B. multiflora*); 2 (*B. discolor* subsp. *discolor*); and 3 (*B. discolor* subsp. *transvaalensis*); on the first two canonical axes, for male data. (centroids of groups marked as ●)

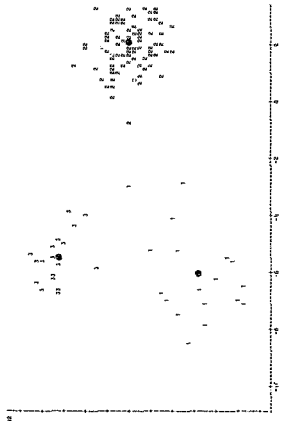

GAM2
GAM1
NOTE: 1 LAB AND MISSING VALUES 19 ODD FISHER

Table 9:- Mahalanobis distances between groups from canonical discriminant analysis. (Female data set).

GROUP NO.	GROUP 1	GROUP 2	GROUP 3
GROUP 1		6.695	6.235
GROUP 2	6.695		7.407
GROUP 3	6.235	7.407	
SAMPLE SIZE	18	104	28

Table 10:- Mahalanobis distances between groups from canonical discriminant analysis. (Male data set).

GROUP NO.	GROUP 1	GROUP 2	GROUP 3
GROUP 1		8.709	6.391
GROUP 2	8.709		8.296
GROUP 3	6.391	8.296	
SAMPLE SIZE	18	101	18

Table 11:- F values of group centroids from cano..ical discriminant analysis. (Female data set).

* = significant at P = 0.001
** = significant at P = 0.00<

GROUP NO.	GROUP 1	GROUP 2	GROL
GROUP 1		1.687**	3.881*
GROUP 2	1.687**		4.618*
GROUP 3	3.881*	4.618*	
SAMPLE SIZE	18	104	28

Table 12:- F values of group centroids from canonical discriminant analysis. (Male data set).

* = significant at P = 0.001

GROUP NO.	GROUP 1	GROUP 2	GROUP 3
GROUP 1		2.620*	4.663*
GROUP 2	2.620*		2.377*
GROUP 3	4.663*	2.377*	
SAMPLE SIZE	18	101	18

Table 13:- Relative contributions of the character variables to the CVA (female data set).

CHARACTER	CAN. 1. CORR. VALUE	(%)	CAN. 2. CORR. VALUE	(%)
RACMLEN	-0.0898	(0.45)	0.0199	(0.30)
INTDLN	0.0572	(0.29)	-0.0613	(0.91)
NBR	0.8130	(4.11)	0.0156	(0.23)
OBRW	0.6591	(3.33)	-0.3798	(5.67)
IBRW	0.3969	(1.91)	0.4422	(6.60)
INMXW	0.8373	(4.23)	-0.3271	(4.88)
PMXL	0.6879	(3.48)	0.0959	(1.43)
LBRP	0.6341	(3.21)	0.0753	(1.12)
INFL	0.8235	(4.16)	-0.0648	(0.97)
INFW	0.7530	(3.81)	-0.0228	(0.34)
VANGS	0.0080	(0.04)	-0.0314	(0.47)
VANGB	0.3221	(1.63)	0.0260	(0.39)
SHINL	-0.3690	(1.87)	-0.0306	(0.46)
LNWDRL	-0.5150	(2.60)	0.1064	(1.59)
MXLNL	-0.5744	(2.90)	0.0881	(1.31)
MXWDL	-0.0352	(0.18)	-0.0003	(0.01)
APXAN	0.4240	(2.14)	0.0423	(0.63)
APXPS	-0.3736	(1.89)	0.0494	(0.74)
BSAN	0.3847	(1.95)	-0.1199	(1.79)
BSPS	0.2116	(1.07)	-0.1492	(2.23)
SVINS	0.1157	(0.59)	0.0330	(0.49)
NSECV	-0.3326	(1.68)	0.3378	(5.04)
PNSV	-0.2422	(1.22)	-0.1382	(2.06)
PTLLN	0.2757	(1.39)	0.1806	(2.69)
INTLN	0.0435	(0.22)	0.0085	(0.13)
NFLOR	0.7503	(3.79)	-0.3144	(4.69)

CHARACTER	CAN. 1. CORR. VALUE	(%)	CAN. 2. CORR. VALUE	(%)
CORRLN	0.2858	(1.45)	0.2860	(4.27)
CORLWD	0.0946	(0.48)	-0.0816	(1.22)
CORTWD	0.0302	(0.15)	-0.0747	(1.11
STMXLOL	0.4220	(2.10)	0.1003	(1.50)
STBLN	0.7059	(3.57)	-0.0315	(0.47)
STBWD	0.2139	(1.08)	-0.1011	(1.51)
ACMXLN	0.3363	(1.70)	0.0929	(1.39)
ACMXWD	-0.0178	(0.09)	0.0044	(0.07)
NVPAC	0.7103	(3.59)	-0.0181	(0.27)
CRMXWD	0.1775	(0.90)	-0.2352	(3.51)
CRMNWD	-0.0703	(0.36)	-0.1378	(2.06)
NWNOFHD	-0.7623	(3.85)	0.3514	(5.24)
IBLWR	0.7550	(3.82)	0.1067	(1.59)
OBLWR	0.4457	(2.25)	0.2849	(4.25)
INVLWR	0.1341	(0.68)	0.7574	(11.30)
CRLLWR	0.2489	(1.26)	0.3534	(5.27)
ACLWR	0.3671	(1.86)	-0.0115	(0.17)
CORLWR	0.8838	(4.47)	-0.0115	(0.17)
STLLBR	0.7002	(3.54)	-0.1355	(2.02)
TFLPLR	-0.8424	(4.26)	0.0555	(0.83)
INFLWR	0.0855	(0.43)	-0.0932	(1.39)
LRNFR	0.7780	(3.93)	-0.2185	(3.26)

Table 14:- Relative contributions of the character variables to the CV2 (male data set).

CHARACTER	CAN. 1. CORR. VALUE	(%)	CAN. 2. CORR. VALUE	(%)
RACMLEN	-0.1341	(0.59)	0.2854	(3.78)
INTNDLN	0.1491	(0.66)	0.2205	(2.91)
LNWDRL	-0.3149	(1.38)	0.2396	(3.16)
MXLNL	-0.4416	(1.94)	0.2287	(3.02)
MXWDL	-0.1697	(0.75)	0.0222	(0.29)
APXAN	0.1194	(0.53)	-0.0323	(0.43)
APXPS	0.1065	(0.47)	0.1136	(1.50)
BSAN	0.2462	(1.08)	-0.0839	(1.10)
BSPS	0.1372	(0.60)	0.0016	(0.02)
SVINS	-0.1737	(0.76)	0.0163	(0.22)
NSECV	-0.2520	(1.10)	-0.1148	(1.52)
PINSV	-0.3885	(1.70)	0.0423	(0.56)
PTLLN	0.2167	(0.95)	-0.1645	(2.17)
INTLN	-0.0667	(0.29)	0.2365	(3.12)
NBR	0.8893	(3.91)	-0.1155	(1.53)
IBRL	0.8456	(3.72)	0.0378	(0.50)
OBRL	0.8720	(3.83)	0.0848	(1.12)
IBRW	0.5455	(2.40)	0.1395	(1.84)
OBRW	0.8035	(3.53)	0.1599	(2.11)
PMXL	0.8337	(3.67)	-0.0507	(0.67)
LBRP	0.7217	(3.17)	0.0236	(0.31)
NFLOR	0.8433	(3.71)	0.1146	(1.51)
CORLLN	0.6168	(2.71)	-0.3880	(5.12)
CORLWD	0.2680	(1.18)	-0.0685	(0.90)
CORTWD	0.6294	(2.77)	-0.1241	(1.64)
LCTPFA	0.7270	(3.20)	0.0258	(0.34)

CHARACTER	CAN. 1. CORR. VALUE	(%)	CAN. 2. CORR. VALUE	(%)
INFW	0.7270	(3.20)	0.2667	(3.52)
INFL	0.8205	(3.61)	0.0459	(0.61)
FMXLN	0.7408	(3.26)	-0.1082	(1.43)
AMXLN	0.6696	(2.94)	-0.0746	(0.99)
STMXLOL	0.2934	(1.29)	-0.1924	(2.54)
VACMXLN	0.0764	(0.34)	0.3641	(4.81)
CRMXWD	0.5983	(2.63)	-0.1224	(1.62)
CRMNWD	0.1907	(0.84)	-0.1374	(1.81)
VANGS	-0.0884	(0.39)	0.1564	(2.00)
VANGB	0.3432	(1.51)	-0.1511	(2.00)
SHINL	-0.2444	(1.07)	0.2115	(2.79)
NWNOFHD	-0.8668	(3.81)	-0.0971	(1.28)
IBLWR	0.7369	(3.24)	-0.0143	(0.19)
OBLWR	0.2093	(0.92)	-0.2241	(2.96)
INVLWR	-0.3091	(1.36)	-0.5035	(6.65)
CRLLWR	0.4467	(1.96)	-0.3423	(4.52)
CORLWR	0.2562	(1.13)	0.0453	(0.60)
CORI [illegible]	0.5945	(2.61)	0.0372	(0.49)
[illegible]	0.2705	(1.19)	0.2491	(3.29)
TFLPLR	-0.8210	(3.61)	-0.1159	(1.53)
INFLWR	-0.4347	(1.91)	-0.5599	(7.39)
LRNFHR	0.7636	(3.36)	0.0305	(0.40)
ALFMLR	-0.4786	(2.10)	0.0966	(1.28)
LCPFCLR	0.2467	(1.08)	0.2905	(3.84)

Table 15 - Results of the Stepwise Discriminant Procedure for female data.

STEP NO.	VAR. ENTERED	VAR. REMOVED	PART. R^2.	F STAT.	WILKS' LAMBDA	AV.SQ. CAN. CORR.
1	INMXW		0.694	335.20	0.306	0.694
2	TFLPLR		0.310	72.52	0.205	0.795
3	SHINL		0.100	16.38	0.184	0.816
4	PMXL		0.095	15.26	0.167	0.833
5	CORLWR		0.057	8.76	0.157	0.843
6	[illegible]LN		0.037	5.49	0.151	0.849
7	APXAN		0.032	4.70	0.147	0.853
8	CRMNWD		0.026	3.71	0.143	0.857
9	NVPAC		0.019	2.65	0.140	0.860
10	INFL		0.022	3.05	0.137	0.863
11	OBLWR		0.023	3.21	0.134	0.866
12		CRMNWD	0.013	1.83	0.136	0.864
13	LNWDRL		0.016	2.20	0.134	0.866
14		SHINL	0.003	0.42	0.134	0.866
15	PTLLN		0.017	2.33	0.132	0.868

Table 16- Results of the Stepwise Discriminant Procedure for male data.

STEP NO.	VAR. ENTERED	VAR. REMOVED	PART. R^2.	F STAT.	WILKS' LAMBDA	AV.SQ. CANON. CORR.
1	NBR		0.737	378.92	0.263	0.737
2	NWNOFHD		0.284	53.22	0.188	0.812
3	FMXLN		0.092	13.54	0.171	0.829
4	TFLPLR		0.087	12.61	0.156	0.844
5	LRNFHR		0.046	7.74	0.147	0.852
6	NFLOR		0.050	6.78	0.140	0.860
7	SHINL		0.050	6.80	0.133	0.867
8	INTLN		0.063	8.59	0.124	0.876
9	APXAN		0.040	5.35	0.119	0.881
10	RACMLEN		0.035	4.51	0.115	0.885
11	VACMXLN		0.038	4.93	0.111	0.889
12	IBLWR		0.035	4.55	0.107	0.893
13	LCPPCLR		0.035	4.46	0.103	0.897
14		TFLPLR	0.007	0.85	0.104	0.896
15	BSPS		0.028	3.48	0.101	0.899

5.0 DISCUSSION AND TAXONOMIC CONCLUSIONS

5.1 Discussion

The results of this investigation indicate that the *Brachylaena discolor - uniflora* species complex should be divided into two groups; 1. a coastal group comprising *B. discolor* subsp. *discolor*, and 2. an inland group comprising *B. discolor* subsp. *transvaalensis* and *B. uniflora*. All three analytical approaches that were used (cluster analysis, PCA, and CVA) support this division and it is consistent for both male and female data sets. The inconsistencies between the treatments are relatively minor and these can be attributed to certain of the techniques employed as well as the immaturity of certain of the specimens used.

The results presented are all derived from standardised data and in some instances (Figs. 7, 9, 10, 12, 16, 18, 19, 21) give the impression that there are large and clear differences between the groups. In reality though, the differences between the groups are very much narrower although the groups themselves can still be clearly discerned. As a result of this narrow difference and the geographical separation of the groups (although a certain amount of overlap does occur) it was decided to separate these groups at the subspecific level.

Davis and Heywood (1963) define the modern concept of a subspecies as "... a considerable segment of a species with a distinct area and a more or less distinct morphology, often showing some intergradation, ... also extended to cover regional ecotypes, and cases where taxa differ in chromosome number or are partly or incompletely intersterile and exhibit some correlated geographical or ecological differentiation but have an insufficient degree of morphological differentiation to permit satisfactory treatment as separate species."

They also indicate that the division into subspecies can be justified if such a division clearly fulfils a useful purpose. Given the above, it is clear that the division of the *B. discolor - uniflora* species complex at the subspecific level can be fully justified even though details of the reproductive biology and chromosome numbers are unknown for each of the elements of the complex.

Paiva (1972) recognised two varieties of *B. discolor* subsp. *discolor* namely var. *discolor* and var. *massambicensis* based mostly on characters of the involucre. These varieties are extremely difficult to tell apart and show almost continuous variation when analysed throughout the range of distribution. This variation is not clinal but tends to be rather unorganised and devoid of any clear pattern. Due to the extreme variation and the fact that the numerical methods used did not show any distinctive subgroupings which correspond in anyway to these varieties it was decided not to recognise this division.

The phenetic results add new information which makes it possible to comment on the ideas of Hilliard and Burtt (1971), Paiva (1972), and Hilliard (1980), all of whom suggest that hybridisation between two species may be responsible for the wide range of varintion that is observed within the complex. The morphological differences between the groups have been shown to be rather small and thus the endpoints of each of the groups are not very far apart. In addition, the morphological variation does not support the notion that two distinct species with a series of intermediates, which could have resulted from hybridisation and the backcrossing of these hybrids, clearly exists. Therefore, it seems most probable that hybridisation is not responsible for the variation observed within the complex.

Another idea suggested by these authors which indicates that there may be a single species showing clinal variation in the numbers of flowers in a head, as well as in other associated characters, which may be loosely linked to an ecological cline, can also be addressed at this point. There appears to be some support for their first contention that the variation observed is clinal.

They also indicate that the division into subspecies can be justified if such a division clearly fulfils a useful purpose. Given the above, it is clear that the division of the *B. discolor - uniflora* species complex at the subspecific level can be fully justified even though details of the reproductive biology and chromosome numbers are unknown for each of the elements of the complex.

Paiva (1972) recognised two varieties of *B. discolor* subsp. *discolor* namely var. *discolor* and var. *mosambicensis* based mostly on characters of the involucre. These varieties are extremely difficult to tell apart and show almost continuous variation when analysed throughout the range of distribution. This variation is not clinal but tends to be rather unorganised and devoid of any clear pattern. Due to the extreme variation and the fact that the numerical methods used did not show any distinctive subgroupings which correspond in anyway to these varieties it was decided not to recognise this division.

The phenetic results add new information which makes it possible to comment on the ideas of Hilliard and Burtt (1971), Paiva (1972), and Hilliard (1980), all of whom suggest that hybridisation between two species may be responsible for the wide range of variation that is observed within the complex. The morphological differences between the groups have been shown to be rather small and thus the endpoints of each of the groups are not very far apart. In addition, the morphological variation does not support the notion that two distinct species with a series of intermediates, which could have resulted from hybridisation and the backcrossing of these hybrids, clearly exists. Therefore, it seems most probable that hybridisation is not responsible for the variation observed within the complex.

Another idea suggested by these authors which indicates that there may be a single species showing clinal variation in the numbers of flowers in a head, as well as in other associated characters, which may be loosely linked to an ecological cline, can also be addressed at this point. There appears to be some support for their first contention that the variation observed is clinal.

It appears from the studies conducted that there is a form of clinal variation from the coast to the inland regions but this is rather a loose association as the variation tends to be unorganised, although the general trend, from large heads at or near the coast to smaller heads inland, is evident. Part of the reason that this variation is not clearly or distinctly clinal may be due to the fact that there are forest remnants near the coast in some areas and because many of the areas between the coastal dunes and the inland mountains in Natal have been lost to agriculture (Moll and White, 1978) and thus prevent a more complete picture from being observed. There does, however, appear to be a loose association with altitude. Most of the plants with large numbers of florets per head are found below 75m altitude while in general the small headed plants are mostly found above this altitude. This is not a strict delimitation as there are still regions of overlap so that several large headed plants can be found above this altitude, while several small headed plants can be found below it. Nonetheless, this altitudinal level appears to be the one which most appropriately divides the subspecies.

It would appear that the connection between the coastal and inland groups probably existed via the river systems, with elements of the coastal group extending slightly inland up these river courses and elements of the inland groups extending almost to the coast. Examples of this can be seen from specimens collected along the Uvongo River, Natal (specimens 88, 89, 90, 91) and others collected from the adjoining coastal region (specimens 92 and 93). All the specimens collected along the river occur at an altitude of 75 - 100m, and they all, with the exception of DWH 88, form part of the inland group. The individual DWH 88 is almost intermediate between the inland group and the coastal group but is clearly placed within the coastal group by the numerical methods employed (Figs. 13 - 21). Specimens DWH 92 and 93 on the other hand both occur at 10m altitude and are well placed within the coastal group. All these specimens, particularly those along the river, grow within a very short distance of one another (500m radius) and they may be able to interbreed. It seems highly probable that similar areas of

overlap occur at other localities and these zones may provide many of the more intermediate individuals that are observed within this group.

Clearly the relationships between the elements of the complex are complicated and several more sophisticated studies still need to be carried out to fully elucidate the relationships within the complex. The present study has shown that two groups are discernable within the complex but that the distinction between them is fairly narrow. It has also shown the value of basing a study of this nature on the complete range of distribution of the elements under consideration. The results have also shown the close phenetic affinity of *B. discolor* subsp. *transvaalensis* and *B. uniflora* which could not be satisfactorily separated by the numerical methods employed. Palmer and Pitman (1973) while writing about '*B. transvaalensis*' noted that " The differences between this and *Brachylaena uniflora* are no longer clear and a revision of the genus is probably necessary to determine what they are". Although this study was only based on three taxa it has given some indication as to the phenetic relationships between these taxa and will help to give direction to more comprehensive studies of the genus which may follow in the future. Clearly what is needed now is a comprehensive study of all of the members of the genus *Brachylaena*, both those elements present on the continent of Africa and those on the island of Madagascar, in an attempt to work out the relationships between each of the species of the genus.

5.2 Taxonomy

Brachylaena discolor De Candolle, Prodr. 5: 430 (1836); Harv. in Harv. & Sond., Fl. Cap. 3: 117 (1865); Wood & Evans in Natal Plants 1 (1): t 22, t 23 & t 24 (1898); Phillips & Schweickerdt in Bothalia 3: 219 (1937); Hilliard & Burtt in Notes Roy. Bot. Gard. Edinb. 31: 3 (1971); Paiva in Bol. Soc. Brot. 46, ser. 2: 375 (1972); Hilliard in Comp. in Natal: 109 (1977).

Types: South Africa, Cape, Uitenhage distr., Burchell 3751 (Lecto., here designated: K!, Isolecto: G-DC).

Syn: *B. natalensis* Sch. Bip. in Walp., Rep. 2: 972 (1843); Harv. in Harv. & Sond., Fl. Cap. 3: 117 (1865). Type: Port Natal, Krauss 243 (G!).

Large shrub or tree up to c. 25m (30m) high; branches grooved, minutely tomentose or subglabrous. Leaves petioled, (4)5 - 17(19) mm long, lamina (2.5)3.5 - 16.5(18) cm long, (1)2 - 7 cm broad, oblanceolate to elliptic obovate, apex obtuse to broadly acute, base cuneate, margins entire, repand or irregularly or regularly serrate, glabrous above, white-tomentose beneath, lateral nerves (5)6 - 12(14) pairs, grooved above and prominent beneath. Heads many (up to 200 recorded in a single raceme) in axillary and terminal racemes or panicles (2)3 - 12 cm long. Female heads 1 - 30(34) flowered, surrounded by involucral bracts in (3)4 - 10(12) series, shorter than the pappus; involucre (3)4 - 13(15) mm long, (1)2 -7 (8) mm broad, campanulate, rarely funnel shaped; bracts ovate to lanceolate inwards, usually woolly, the inner bract long and lanceolate to linear. Corolla tube (2.8)3 - 8.5(9) mm long, usually widened at the base, sometimes 5 angled or 5 veined; lobes 0.35 - 1.0 mm long, ovate to linear, obtuse, more rarely subacute. Style (3.5)4 - 10(11) mm long, cylindric, usually swollen at the base; lobes (0.4)0.5 - 1.0(1.2) mm long, ovate to linear obtuse. Pappus 3 - 10(11) mm long, obscurely plumose. Achenes (2)2.5 - 4(5) mm long, linear in outline, grooved or angled, veins (6)7- 10(11), thinly hairy or glabrescent. Male heads 1 - 60(62) flowered, surrounded by involucral bracts in (3)4 - 7(9) series, shorter than the pappus; involucre (2)3 - 9(11) mm long, (1)2 - 7(9) mm broad, funnel shaped or subcylindric; bracts ovate to lanceolate inwards, usual' woolly, the inner bract long and lanceolate to linear. Corolla tube (3)4 - 8.5(9.5) mm long, cylindric; lobes 1.0 - 2.5(2.8) mm long, lanceolate to linear, usually obtuse, sometimes subacuminate and subacute. *Filaments (0.7)0.9 - 2.2(2.5)* mm long, linear; anthers (0.9)1.0 - 3.5(4.2) mm long, linear acute, tailed at the base. Style (4)5 - 10(12) mm long, cylindric; lobes (0.2)0.3 - 0.8(1.0) mm

long, ovate to lanceolate, subacute; rudimentary ovary nearly null. Pappus (2)3 - 6.5(7) mm long, less copious than in female florets

Brachylaena discolor was first described by De Candolle in 1836 and four specimens were listed. These four specimens represent the currently recognised syntypes of *B. discolor*. The quality and availability of the specimens varies greatly. The Drege 5043 specimen is extremely poor, so much so that it is not possible to say with any degree of certainty what sex it is. The leaves have been badly damaged by insects and the florets do not appear to be fully developed. The Ecklon 1422 specimen appears to be in reasonable shape but forms part of the De Candolle collection in Geneva (G) and is therefore not sent out on loan, thus restricting its usefulness as a type. Also, there do not appear to be duplicates of this specimen housed elsewhere.

The two most complete specimens are Burchell 3751 and Forbes sn. which are both female and well preserved. There do not appear to be any duplicates of the Forbes specimen while the Burchell specimen is housed at Kew and has a duplicate housed at Geneva. Thus, the Burchell specimen 3751 at Kew is nominated to represent the lectotype of *B. discolor* while the duplicate specimen at Geneva is nominated as the isolectotype.

Key to the subspecies of B. discolor

Shrub or tree up to c. 10m tall; involucre in female (5)7 - 10(12) seriate; in male 5 - 8 seriate; involucre (3)4 - 7(8) mm broad. Number of florets per head (4)6 - 30(34) in females, (12)17 - 60(62) in males. Mostly coastal in distribution (usually below 75m altitude).

. . . . . subsp. *discolor*

Shrub or tree up to c. 25m tall; involucre in female (3)4 - 6(7) seriate; in males 3 - 5 seriate; involucre (1)2 - 4(4.5) mm broad. Number of florets per

head 1 -10(13) in females, 1 - 16 (21) in males. Mostly inland in distribution (usually above 75m altitude).

..... subsp. *transvaalensis*

subspecies discolor

Syn: *B. discolor* subsp. *discolor* var. *mossambicensis* J. Paiva in Bol.Soc. Brot. 46, ser.2: 375 (1972). Type: Mozambique, Santaca, Maputo, Gomes e Sousa 3611 (Holotype: COII; Isotypes: B; K).

Large shrub or tree up to 10m high. Branches grooved, minutely tomentose or subglabrous. Leaves petiolate. Female heads (4)6 - 30(34) flowered; involucral bracts in (5)7 - 10(12) series; involucre 8 13(15) mm long, (3)4 - 7(8) mm broad, shorter than the pappus; lanceolate inwards. Corolla tube (4)5 - 8.5(9.5) mm long, ed at the base; lobes (0.4)0.6 - 0.8(1.0) mm long, ovate to linear obtuse, more rarely subacute. Style (5)6 - 10(11.5) mm long, cylindric, usually swollen at the base; lobes (0.5)0.6 - 1.0(1.2) mm long, ovate to linear obtuse. Pappus (5)6 - 10(11) mm long, obscurely plumose. Male heads (12)17 - 60(62) flowered; involucral bracts in (4)5 - 7(9) series; involucre (4)5 - 9(11) mm long, (3.5)4 - 7(9) mm broad, funnel shaped to cylindric. Corolla tube (4.5)5 - 8.5(9.5) mm long, cylindric; lobes (1. - 2.5(2.8) mm long, lanceolate to linear; anthers (1.6)2.2 - 3.5(4.2) mm long, linear acute tailed at the base. Style (6)6.5 - 10(12) mm long, cylindric. Pappus (3)4 - 6.5(7) mm long, less copious than in female florets.

Members of this subspecies are mostly coastal in distributio and are usually found below 75m altitude. They occur along the entire s eastern coast of southern Africa from Port Elizabeth in the south to Inhambane Island, Mozambique in the north.

Representative specimens

Localities and herbaria have been cited according to Edwards and Leistner (1971) and Holmgren et. al. (1981) respectively.

Female material

- 2335 (Inhambane): Inhambane (-CD) Gomes e Sousa 1667 (PRE)
- 2532 (Maputo): Lourenco Marques (Maputo), Costa do Sol (-DC), G. Cedro 107 (PRE)
- 2632 (*Bela Vista*): *Inhaca Island (-BB) Myre & Carvalho 2569* (PRE), Breyer 20442 (PRE)
- 2632 (Bela Vista): Kosi Estury (-DD) Haines 199 (J), Haines 200 (J)
- 2732 (Ubombo): Mseleni, Lake Sibayi district (-BC) Haines 206 (J): Mkuzi Game Reserve (-CA) Haines 209 (J): False Bay Park, Lake St. *Lucia (-CD)* Ward 7137 (PRE NH), Haines 186 (J)
- 2832 (Mtubatuba): Fanies Island, Lake St. Lucia (-AB) Haines 187 (J): Enseleni, north west of Richards Bay (-CA) Haines 181 (J): Richards Bay (-CB) Strey 9909 (NH): Richards Bay, Meerensee (-CC) Haines 166 (J)
- 2831 (Nkandla): Mtunzini, Umlalazi (-DD) Haines 159 (J)
- 2931 (Stanger): Tinley Manor (-AC) Haines 151 (J): Tugela Mouth (-BA) Haines 155 (J): Tongaat Beach (-CA) Strey 8782 (NH, NU, PRE): Bluff, Durban (-CC) Haines 140 (J)
- 3030 (Port Shepstone): Amanzimtoti, Durban distr. (-BB) Strey 8789 (NH, NU, PRE): Kelso (-BC) Haines 114 (J): Scottburgh (-BD) Haines 129 (J): Umtentweni (-CB) Haines 104 (J): Shelley Beach, Port Shepstone distr. (-CD) Strey 7658 (NH, NU, PRE): Hibberdene (-DA) Haines 110 (J)
- 3130 (Port Edward): Port Edward (-AA) Strey 8859 (NH, NU, PRE)
- 3129 (Port St Johns): Coffee Bay, Transkei (-CC) Haines 295 (J)
- 3228 (*Butterworth*): Dwesa, Transkei (-BD) Haines 288 (J): Kei Mouth (-CC) Haines 283 (J)
- 3327 (Peddie): Great Fish River Mouth (-AC) Haines 251 (J): Between Beghe Mouth and Mgwalana (-AD) Haines 254 (J): Kaysers Beach, East

London distr.(-BA) Haines 260 (J): Leach's Bay, East London distr. (-BB) Haines 266 (J)

- 3326 (Grahamstown): Cannon Rocks (-CD) Haines 235 (J): Kasouga, west beach (-DA) Britten 2300 (GRA); Port Alfred, west bank of Kowie River (-DB) Tyson 54 (GRA); Britten 773 (GRA)

- 3325 (Port Elizabeth): Sardaga Rivier, Port Elizabeth distr. (-DB) Haines 227 (J): Humewood Beach, Port Elizabeth (-DC) Haines 220 (J): Delagoa Bay (*sphalm. Algoa Bay*) (-DC/DB?) Forbes sn. (K)

Male material

- 2135 (Bazaruto): Bazaruto Island, *Ponta Estane Marsh (-CB) Mogg 28679* (PRE)

- 2532 (Maputo): Lourenco Marques (Maputo), Costa do Sol (-DC) Grandvaux Barbosa 8661 (PRE)

- 2632 (Bela Vista): Inhaca Island, Ponta Poindini Forest (-BB) Mogg (J, PRE)

- 2632 (Bela Vista): Kosi Estury (-DD) Haines 198 (J); Haines 201 (J)

- 2732 (Ubombo): Mseleni, Lake Sibayi distr. (-BC) Law 5 (NBG); Haines 206 (J); Mkuzi Game Reserve (-CA) Haines 207 (J): False Bay Park, Lake St. Lucia (-CD) Taylor 610 (NH)

- 2832 (Mtubatuba): Fanies Island, Lake St. Lucia (-AB) Haines 188 (J): Enseleni, north west of Richards Bay (-CA) Haines 180 (J): Richards Bay (-CB) Ward 5806 (NH, NU,); Richards Bay, Meerensee (-CC) Haines 169 (J)

- 2831 (Nkandla): Mtunzini, Umlalazi (-DD) Haines 160 (J)

- 2931 (Stanger): Tinley Manor (-AC) Haines 150 (J): Tugela Mouth (-BA) *Haines 156 (J)*: Zinkwazi (-AD) *Haines 157 (J)*: Tongaat Beach (-CA) Strey 8783 (NH, NU, PRE); Umhlanga Rocks (-CA) Moll 1816 (NH, NU, PRE): Bluff, Durban (-CC) Haines 141 (J)

- 3030 (Port Shepstone): Amanzimtoti, Durban distr. (-BB) Strey 8793 (NH, NU, *PRE*): *Kelso (-BC) Haines 113 (J)*: *Scottburgh (-BD) Haines 128 (J)*: Umtentweni (-CB) Haines 103 (J): between the Umzimkulu and Umtentu Rivers (-CB) Drege 5043 (G-DC, K): Uvongo (-CD) Strey 8822 (NH, NU, PRE): Hibberdene (-DA) Haines 109 (J)

- 3130 (Port Edward) Port Edward (-AA) Haines 48 (J)
- 3129 (Port St. Johns) Coffee Bay, Transkei (-CC) Haines 294 (J)
- 3228 (Butterworth) Dwesa, Transkei (-BD) Haines 287 (J): Kei Mouth (-CC) Haines 284 (J)
- 3227 (Peddie): Great Fish River Mouth (-AC) Haines 250 (J): Between Begha Mouth and Mgwalana (-AD) Haines 255 (J): Kaysers Beach, East London distr. (-BA) Haines 261 (J): Leach's Bay, East London distr. (-BB) Haines 265 (J)
- 3326 (Grahamstown): Kenton - on - Sea (-DA) Haines 242 (J): Port Alfred, west bank of Kowie River (-DB) Schonland 3304 (GRA): Cannon Rocks (-DC) Haines 237 (J)
- 3325 (Port Elizabeth): Sondags Rivier, Port Elizabeth distr. (-DB) Haines 288 (J): Humewood Beach (-DC) Haines 222 (J): Uitenhage distr. (-DB/DC?) Ecklon 1422 (G-DC)
- 3425 (Skoenmakerskop): The Island State Forest (-AB) Haines 224 (J)

subspecies transvaalensis (Phillips & Schweickerdt) J.Paiva

Type: South Africa, north eastern Transvaal, between Woodbush and Haenertsberg, Hutchins sn (Lecto., here designated: K!).

Syn: *B. uniflora* Harv. in Harv. & Sond., Fl. Cap. 3: 117 (1865); Phillips & Schweickerdt in Bothalia 3: 211 (1937). Type: Natal, on mountain ranges 30 - 60 miles from the sea, Sutherland sn (K!).
Syn: *B. transvaalensis* Phillips & Schweickerdt in Bothalia 3: 214 (1937); Hilliard & Burtt in Notes Royal Bot. Gard. Edinb. 31,1: 3 (1971). Type: South Africa, Transvaal, Pietersburg, between Woodbush and Haenertsberg, Hutchins sn (K!).

Large shrub or tree up to c. 25(30)m tall. Branches grooved, minutely tomentellous or glabrescent. Leaves petiolate. Female heads 1 -10(12)(13) flowered; involucral bracts in (3)4 - 6(7) series; invouere (3)4 - 8(9) mm long, (1)2 - 4(4.5) mm broad, shorter than the pappus; bracts ovate to lanceolate

inwards. Corolla tube (2.8)3 - 5(6) mm long usually widened at the base; lobes *(0.35)0.4 - 0.7(0.9) mm long, ovate to linear obtuse.* Pappus 3 - 6(7) mm long, obscurely plumose. Male heads 1 - 16(21) flowered; involucral bracts in (3)4 - 5 series, shorter than the pappus involucre (2)3 - 4.5(5) mm long, (1)2 - 4 mm broad, funnel shaped to subcylindric. Corolla tube (3)4 - 5(6) mm long, cylindric; lobes 1 -2 mm long, lanceolate to linear, usually *obtuse*, sometimes subacuminate and subacute. Filaments (0.7)0.9 - 1.5 mm long, linear; anthers (0.9) 1 - 2.5 mm long, linear acute, tailed at the base. Style (4)5 - 6(7.5) mm long cylindric. Papus (2)3 - 4 mm long, less copious than in female florets.

Members of this subspecies have a predominantly inland distribution and usually occur above 75m altitude. They occur as forest elements in the Natal region and extend into the Transvaal through the northern Natal region and across Swaziland

The type of *Brachylaena discolor* subsp. *transvaalensis* presents something of a small problem. According to G. Ll. Lucas (pers. comm., 1987), keeper of the Kew herbarium, when Phillips and Schweickerdt described *B. transvaalensis* in 1937 they cited the *holotype* as *"Pietersburg distr.: Forest between* Woodbush and Haenertsburg, 4 000 - 6 000 ft., *Hutchins* (typed deposited in *Herb. Hort. Bot. Reg. Kew)"* and later in the same paper commented "The specific epithet was given by Dr. J. Hutchinson but no description published."

There are three sheets at Kew that are possible contenders for type status. All three of the sheets bear a dot slip with the name '*B. transvaalensis* Hutchinson' and the stamp 'Flora of Transvaal - Det. J. Burtt Davy, Kew. 1920 - 1923'. The writing is in a variety of hands and according to Lucas (pers. comm., 1987) none of these is that of Burtt Davy.

When viewing the typed manuscript copy of "A Manual of the Flowering Plants and Ferns of the Transvaal and Swaziland, South Africa", it is

apparent that there are two sheets that correspond to the D. E. Hutchins collection. One has a label in Hutchins' hand and is dated 27/9/03 with a note in another hand 'Reed. Oct. 10, 1903.' The other sheet, which has a 'Type Specimen' label on it merely has an abbreviated locality written onto the sheet and the date Oct. 10, 1903'. The name 'B. transvaalensis Hutchinson' is written in pencil on the sheet but this is apparently not in Hutchinson's hand. The two specimens are also different in appearance in that they have quite different leaf margins. The third sheet is part of the 'Oranje' collection. This sheet also has a duplicate of the label appearing on the 'Hutchins' sheet as well as a label with the collectors name 'Oranje' on it. Both of these labels cannot belo.. to the same specimen as the collection date on the 'Oranje' label is 'Oct. 1905' therefore this specimen was not considered for the type material.

When Paiva (1972) transferred the taxon to subspecific rank under *B. discolor* he merely duplicated Phillips and Schweickerdt's citation of the holotype. To avoid further confusion the Hutchins specimen with the label *in Hutchins' hand and without the* 'Type Specimen' label is nominated to represent the lectotype of *B. discolor* subsp. *transvaalensis.*

Representative specimens

Female material

-2230 (Messina): Tato Vondo, Venda (-CC) Haines 330 (J), Hemm 268 (J)
-2229 (Waterpoort): Bluegumspoort, Louis Trichardt (-DD) Haines 324 (J)
-2330 (Tzaneen): Modjadji Nature Reserve (-CB) Haines 339 (J); Magoboeskloof (-CC) Haines 333 (J)
-2329 (Pietersburg): Ben Lavin Nature Reserve, Louis Trichardt distr. (-BB) Haines 322 (J); Woodbush State Forest (-DD) Haines 338 (J)
-2430 (Pilgrim's Rest): Thabina, nr. New Agatha (-AA) Haines 342 (J); Mariepskop, Klaserie distr. (-DB) Haines 345 (J), Mount Sheba (-DC) Haines 344 (J)

-2429 (Zebediela): Makapan Valley, Potgietersrus distr. (-AA) Haines 316 (J)
-2531 (Komatipoort): Kaalrug, Kaapmuiden distr. (-AD) Haines 301 (J); Koedoeskop, Kaapmuiden distr. (-CB) Haines 298 (J)
-2530 (Lydenburg): *Schoemanskloof, Nelspruit distr. (-AD) Haines 296 (J)*; Long Tom Pass (-BA) Haines 308 (J); Rietfontein State Forest (-BB) Haines 310 (J); Berlin State Forest (-DA) Haines 305 (J)
-2732 (Ubombo): Gwalaweni Forest, Jozini distr. *(-AA) Haines 213 (J)*
-2731 (Louwsburg): Ngome State Forest, Vryburg distr. (-CD) Haines 218 (!)
-2831 (Nkandla): Nkandla Forest, Nkandla distr. (-CA) Forbes 766 (NH, NU); Edwards 1529 (NH, NU)
-3030 (Port Shepstone): Dumisa, nr. Dumisa Station (-BC) Haines 119 (J); Scottburgh South (-BD) Haines 127 (J); Oribi Gorge Nature Reserve (-CB) Haines 97 (J); Uvongo River (-CD) Strey 8824 (NH,NU)
-3130 (Port Edward) Port Edward, Pont Drift (-AA) Haines 39 (J)

Male material

-2230 (Messina): Tate Vondo, Venda (-CC) Haines 329 (J), Hemm 268 (J)
-2229 (Waterpoort): *Bluegumspoort, Louis Trichardt (-DD) Haines 323 (J)*
-2330 (Tzaneen): Magoebeskloof (-CC) Haines 334 (J); between Woodbush and Haenertsburg (-CC) Hutchins sn (K)
-2329 (Pietersburg): Woodbush State Forest *(-DD) Haines 335 (J)*
-2430 (Pigrim's Rest): Thabina, nr. New Agatha (-AA) Haines 343 (J); Mount Sheba (-DC) Kerfoot K8769 (J)
-2429 (Zebediela): Makapan Valley, Potgietersrus distr. (-AA) Haines 317 (J)
-2531 (Komatipoort): Kaalrug, Kaapmuiden distr. (-AD) Haines 302 (J); Koedoeskop, Kaapmuiden distr. (-CB) Haines 299 (J)
-2530 (Lydenburg): Long Tom Pass (-BA) Haines 309 (J); Bergvliet Forest Reserve (-BB) Haines 312 (J); Berlin State Forest (-DA) Haines 307 (J)
-2732 (Ubombo): Gwalaweni Forest, Jozini distr. (-AA) Haines 214 (J)
-2731 (Louwsburg): Ngome State Forest, Vryburg distr. (-CD) Haines 217 (J)

-2831 (Nkandla): Nkandla Forest, Nkandla distr. (-CA) Haines 173 (J): Ngoya *Forest*, Mtunzini distr. (-DC) Haines 176 (J)
-3030 (Port Shepstone): Dumisa, nr. Dumisa Station (-BC) Haines 120 (J): Scottburgh South (-BD) Haines 126 (J): Oribi Gorge Nature Reserve (-CB) Haines 96 (J)

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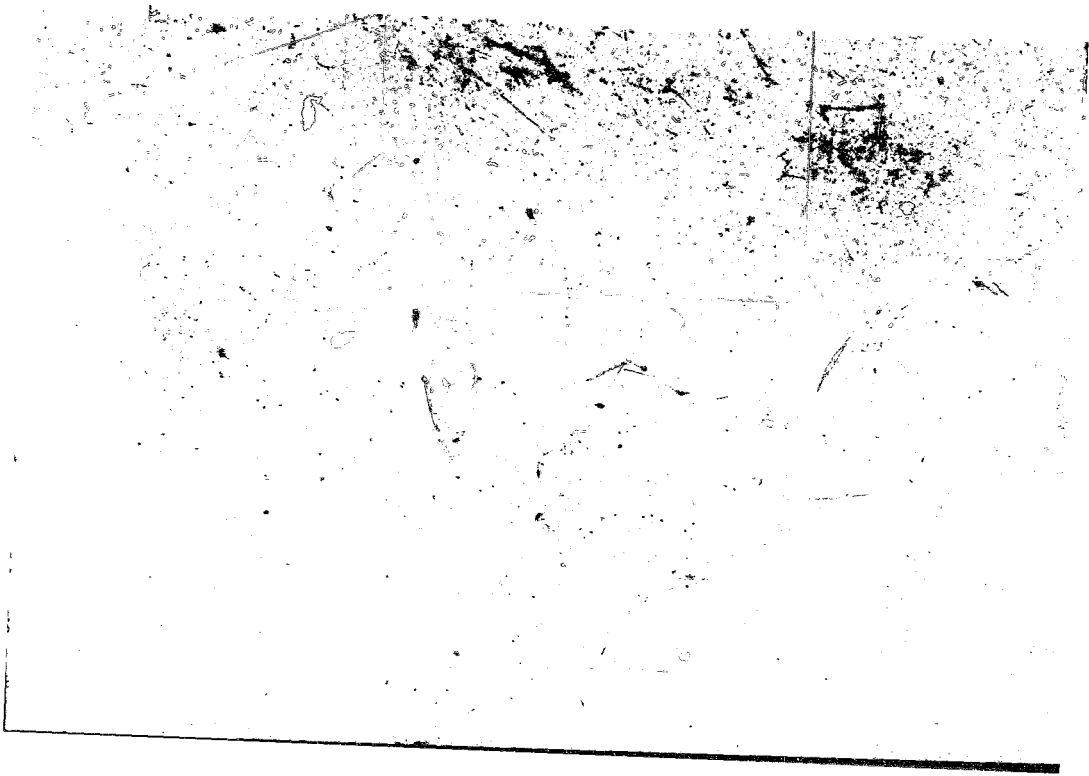
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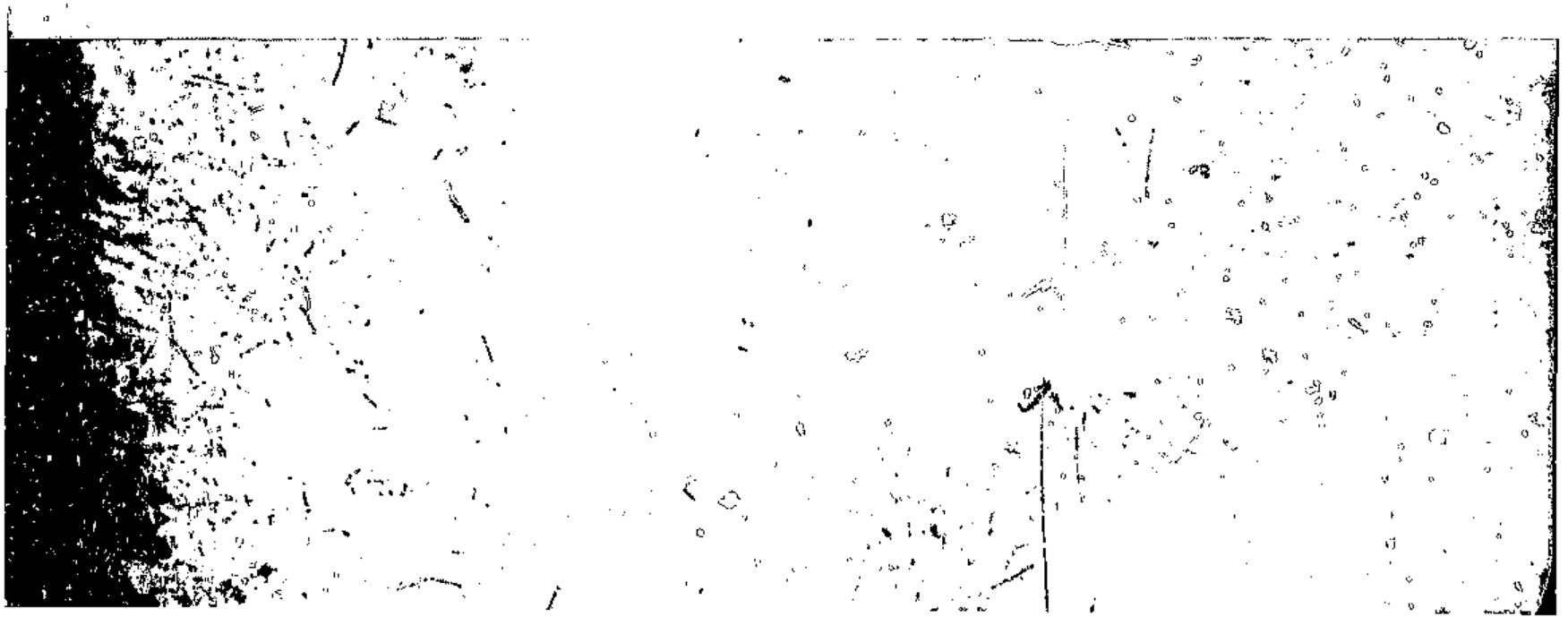
APPENDIX IA

Pearsons and Spearmans Correlation Coefficients for the Female Data Set

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
RACHLEN	150	54.78506667	14.30947711	54.17000000	26.01000000	90.84000000
INTNDLN	150	5.06086667	1.43782551	4.96000000	2.06000000	10.63000000
NBR	150	6.55600000	1.50558156	6.80000000	3.80000000	9.60000000
IBRL	150	6.45160000	2.20524880	6.81000000	2.72000000	10.87000000
OBRL	150	1.84093333	0.57208596	1.90000000	0.64000000	3.30000000
IBRW	150	1.15786667	0.21914799	1.17000000	0.50000000	1.88000000
OBRW	150	1.10000000	0.31950463	1.10000000	0.34000000	2.02000000
INMXL	150	9.25026667	3.23170887	9.54500000	3.41000000	15.44000000
INMXW	150	4.81840000	1.59514115	5.10000000	1.14000000	7.54000000
PMXL	150	5.73506667	2.30685926	5.63000000	1.78000000	16.10000000
LBRP	150	3.11813333	1.04350474	2.98000000	1.40000000	7.16000000
INFL	150	12.64460000	3.37381759	12.66500000	6.67000000	19.23000000
INFW	150	5.26653333	1.45964737	5.40000000	2.52000000	8.87000000
VANGS	150	56.74666667	6.28963851	58.00000000	43.00000000	70.00000000
VANGB	150	57.64000000	13.02000526	58.00000000	29.00000000	89.00000000
MIWDL	150	9.49033333	1.69055545	9.42000000	6.05000000	13.46000000
SHINL	150	66.57800000	3.67771997	66.38000000	56.54000000	77.72000000
LNWDRL	150	3.27513333	0.64200058	3.18500000	1.91000000	6.34000000
MXLNL	150	92.03866667	17.38092967	89.97500000	55.80000000	139.60000000
MXWDL	150	28.65333333	5.69784684	28.20000000	18.35000000	43.50000000
APXAN	150	81.70000000	21.19856586	80.50000000	28.00000000	131.00000000
APXPS	150	3.77920000	1.23939394	3.72500000	1.26000000	9.01000000
BSAN	150	46.52000000	13.16071029	45.50000000	17.00000000	92.00000000
BSPS	150	92.14880000	2.31372790	92.54500000	85.54000000	97.46000000
SVINS	150	1.29620000	0.60108143	1.11500000	0.38000000	4.40000000
NSECV	150	19.56000000	3.16541716	19.00000000	12.00000000	28.00000000
PINSV	150	29.38440000	15.89499902	26.97000000	0.00000000	77.78000000
PTLLN	150	9.89266667	2.72498622	9.67500000	3.55000000	18.55000000
INTLN	150	9.89633333	3.70504869	9.15000000	4.00000000	23.90000000
NFLOR	150	13.33333333	6.55027707	14.00000000	1.00000000	30.00000000
CORLLN	150	0.58833333	0.12662589	0.56000000	0.36000000	1.02000000
CORLWD	150	0.20620000	0.02516176	0.21000000	0.14000000	0.29000000
CORTWD	150	0.45220000	0.05876663	0.44000000	0.34000000	0.65000000
HASL	150	279.32666667	458.92716295	60.00000000	1.00000000	1800.00000000
PAPMXLN	150	6.66673333	1.94230593	7.10000000	3.16000000	11.10000000
TFLLN	150	10.26546667	2.28399438	10.32000000	5.44000000	15.66000000
DFRS	150	58.98886667	120.28099277	1.00000000	0.00000000	440.00000000
STMXLN	150	7.19973333	1.78983369	7.54500000	3.62000000	11.18000000
STMXLOL	150	0.68213333	0.11331838	0.66000000	0.42000000	1.18000000
STBLN	150	0.80700000	0.28632537	0.80000000	0.34000000	1.52000000
STBWD	150	0.37906667	0.06106819	0.38000000	0.26000000	0.88000000
ACMXLN	150	2.91840000	0.72280037	2.78000000	1.74000000	4.74000000
ACMXWD	150	0.74320000	0.08593208	0.76000000	0.48000000	1.02000000
NVPAC	150	8.07333333	0.75704004	8.80000000	6.80000000	10.20000000
CRMXLN	150	5.72726667	1.47524490	6.10000000	2.88000000	8.80000000
CRMXWD	150	0.51866667	0.04149338	0.52000000	0.43000000	0.65000000
CRMNWD	150	0.28820000	0.02712313	0.29000000	0.18000000	0.37000000
NWNOFHD	150	1.17499687	0.35314780	1.10031583	0.63346846	2.20303289
IBLWR	150	5.61020012	1.80951471	5.75811688	2.44615385	11.81521739
OBLWR	150	1.67570901	0.21601178	1.66440731	1.20930233	2.41304348
INVLWR	150	1.94327919	0.35254974	1.91384008	1.21662125	3.07258065
GRLLWR	150	2.86942032	0.58612176	2.78260870	1.80000000	4.42105263
AGLWR	150	3.93342437	0.88550588	3.79284098	2.45783133	6.98360656
CORLWR	150	11.06[illegible]808	2.71886266	11.70069930	5.41071429	16.29629630
CORLMWR	150	20.10469860	5.65346079	20.98275862	8.18918919	32.25000000



VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
STLLBR	150	10.61672801	2.43498171	10.26215278	5.35135135	17.00000000
TFLPLR	150	1.59120554	0.22223932	1.53238430	1.22938144	2.28070175
INFLWR	150	2.43626464	0.37250747	2.40595451	1.51216389	3.46486486
LRNFHR	150	4.36993718	2.39296599	4.35744989	0.34467419	11.46000000

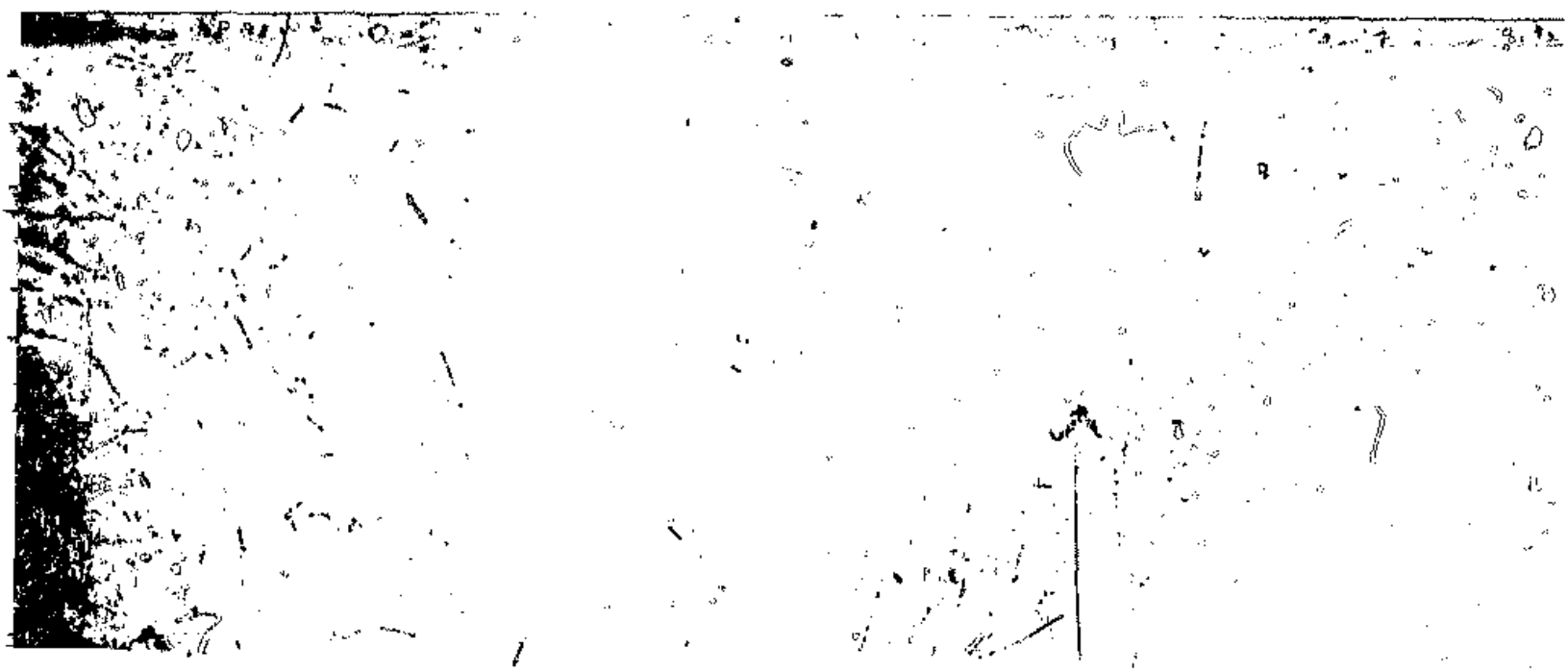


PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	RACMLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INNXL	INMXW	PMXL	LBRP	INFL	INFW
RACMLEN	1.00000 0.0000	0.62301 0.0001	-0.03383 0.6811	-0.02646 0.7479	-0.01691 0.8373	0.05986 0.4668	0.01576 0.8482	-0.02207 0.7807	0.02664 0.7462	0.01744 0.8323	-0.01532 0.8524	0.01286 0.8759	0.05311 0.5186
INTNDLN	0.62301 0.0001	1.00000 0.0000	0.06402 0.4368	0.06792 0.4089	0.03205 0.6970	0.13879 0.0903	0.05851 0.4769	0.05586 0.4970	0.11660 0.1553	-0.02371 0.7734	0.00720 0.9303	0.01008 0.9080	0.00975 0.9058
KBB	-0.03383 0.6811	0.06402 0.4368	1.00000 0.0000	0.85931 0.0001	0.70497 0.0001	0.34308 0.0001	0.59909 0.0001	0.89918 0.0001	0.80799 0.0001	0.68167 0.0001	0.50938 0.0001	0.87225 0.0001	0.73707 0.0001
IBRL	-0.02646 0.7479	0.06792 0.4089	0.85931 0.0001	1.00000 0.0000	0.85115 0.0001	0.48833 0.0001	0.74012 0.0001	0.98217 0.0001	0.90031 0.0001	0.62000 0.0001	0.62110 0.0001	0.94794 0.0001	0.76015 0.0001
OBRL	-0.01691 0.8373	0.03205 0.6970	0.70497 0.0001	0.85115 0.0001	1.00000 0.0000	0.40801 0.0001	0.91966 0.0001	0.84196 0.0001	0.93830 0.0001	0.63967 0.0001	0.50978 0.0001	0.81570 0.0001	0.88008 0.0001
IBRW	0.05986 0.4668	0.13879 0.0903	0.50908 0.0001	0.48233 0.0001	0.40901 0.0001	1.00000 0.0000	0.49188 0.0001	0.42003 0.0001	0.57338 0.0001	0.28157 0.0134	0.23101 0.0045	0.39371 0.0001	0.36398 0.0001
OBRW	0.01576 0.8482	0.05851 0.4769	0.59909 0.0001	0.74012 0.0001	0.91966 0.0001	0.49188 0.0001	1.00000 0.0000	0.73274 0.0001	0.77084 0.0001	0.96145 0.0001	0.50308 0.0001	0.70684 0.0001	0.55114 0.0001
INNXL	-0.02207 0.7807	0.05586 0.4970	0.89918 0.0001	0.98217 0.0001	0.94196 0.0001	0.48093 0.0001	0.73274 0.0001	1.00000 0.0000	0.90811 0.0001	0.61640 0.0001	0.60263 0.0001	0.96174 0.0001	0.88808 0.0001
INMXW	0.02664 0.7462	0.11660 0.1553	0.80799 0.0001	0.90031 0.0001	0.93350 0.0001	0.57836 0.0001	0.77034 0.0001	0.90811 0.0001	1.00000 0.0000	0.98358 0.0001	0.55409 0.0001	0.89059 0.0001	0.82936 0.0001
PMXL	0.01744 0.8323	-0.02371 0.7734	0.68167 0.0001	0.62000 0.0001	0.63967 0.0001	0.28157 0.0134	0.96145 0.0001	0.61640 0.0001	0.98358 0.0001	1.00000 0.0000	0.60132 0.0001	0.63909 0.0001	0.60284 0.0001
LBRP	-0.01532 0.8524	0.00720 0.9303	0.50938 0.0001	0.62110 0.0001	0.50978 0.0001	0.23101 0.0045	0.50308 0.0001	0.60263 0.0001	0.55409 0.0001	0.60132 0.0001	1.00000 0.0000	0.59100 0.0001	0.48741 0.0001
INFL	0.01286 0.8759	0.01008 0.9080	0.87225 0.0001	0.94794 0.0001	0.81570 0.0001	0.39371 0.0001	0.70684 0.0001	0.96174 0.0001	0.89059 0.0001	0.63909 0.0001	0.59100 0.0001	1.00000 0.0000	0.83708 0.0001
INFW	0.05311 0.5186	0.00975 0.9058	0.73707 0.0001	0.76015 0.0001	0.88025 0.0001	0.36398 0.0001	0.55114 0.0001	0.76608 0.0001	0.82936 0.0001	0.60284 0.0001	0.48741 0.0001	0.83750 0.0001	1.00000 0.0000
VANOS	0.04003 0.6268	0.09708 0.2485	0.15304 0.0615	0.04436 0.5899	0.02088 0.7998	0.03911 0.6347	0.00267 0.9741	0.07346 0.3717	0.08208 0.3180	-0.00839 0.9188	0.05541 0.5007	0.05183 0.5268	0.03279 0.6904
VANCB	-0.04775 0.5618	-0.05473 0.5059	0.36511 0.0001	0.32377 0.0001	0.24866 0.0023	0.04151 0.6140	0.18173 0.0260	0.05901 0.4801	0.27002 0.0006	0.17694 0.0303	0.14832 0.0802	0.31948 0.0001	0.23521 0.0038
MHWDL	0.21634 0.0078	0.25222 0.0018	-0.32032 0.0067	-0.17554 0.0317	-0.10472 0.2096	0.01317 0.8729	-0.14399 0.0788	-0.18733 0.0217	-0.15725 0.0546	-0.25227 0.0018	-0.18829 0.0210	-0.21344 0.0087	-0.19979 0.0142
SHINL	-0.00277 0.9732	-0.08886 0.2796	-0.12735 0.1204	-0.19623 0.0161	-0.15609 0.0565	0.00608 0.9411	-0.11704 0.1538	-0.18401 0.0249	-0.18255 0.0254	-0.17848 0.0289	-0.09402 0.2524	-0.16575 0.0427	-0.22384 0.0059

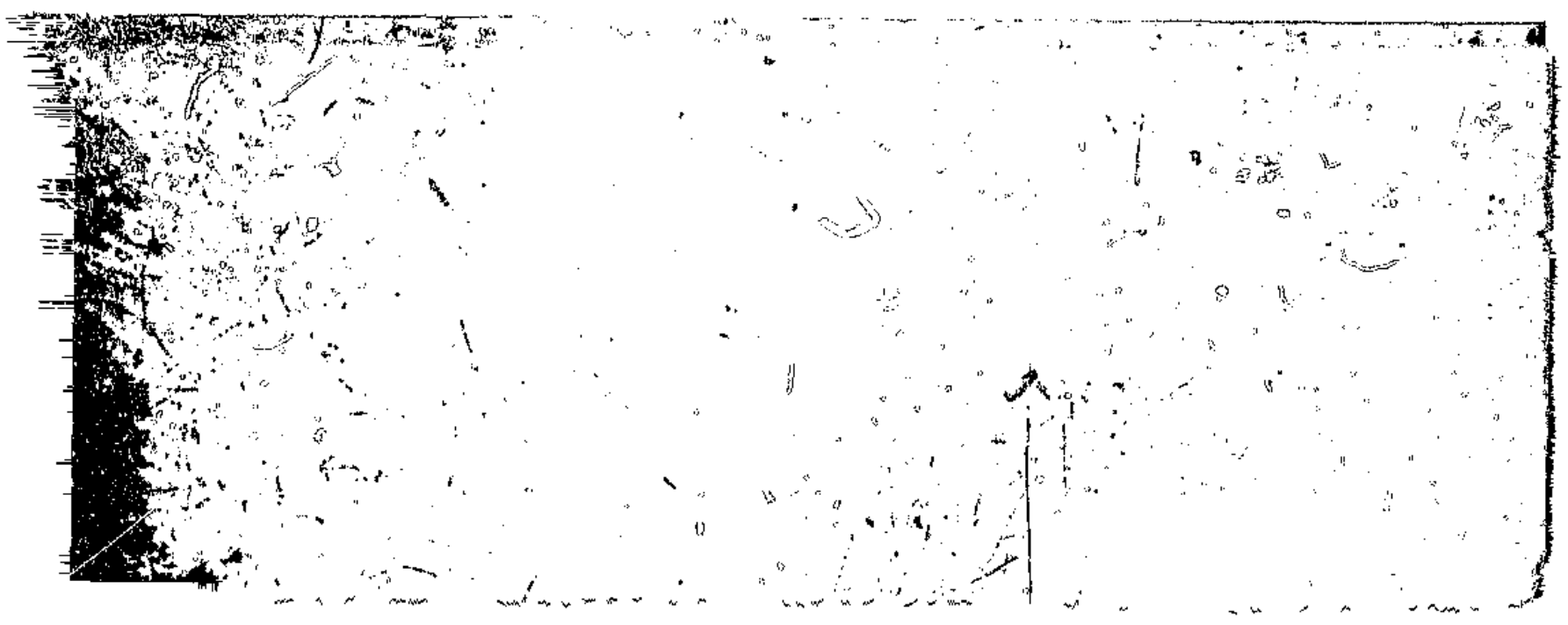
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	RAGMLEN	INTNDLN	NDR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	INFL	INFW
LNWDRL	-0.08462 0.3032	-0.17828 0.0291	-0.30455 0.0002	-0.36106 0.0001	-0.39432 0.0002	-0.16570 0.0228	-0.27165 0.0008	-0.35740 0.0001	-0.39438 0.0001	-0.26007 0.0013	-0.21513 0.0082	-0.35513 0.0001	-0.38062 0.0001
MXLNL	0.12878 0.1163	0.07472 0.3635	-0.47540 0.0001	-0.49676 0.0001	-0.42942 0.0001	-0.17114 0.0363	-0.37121 0.0001	-0.49086 0.0001	-0.49646 0.0001	-0.44985 0.0001	-0.37518 0.0001	-0.50906 0.0001	-0.50876 0.0001
MXWDL	0.19084 0.0193	0.25363 0.0017	-0.16523 0.8433	-0.10434 0.2039	-0.12661 0.1226	0.01125 0.8914	-0.10056 0.2208	-0.12454 0.1289	-0.09063 0.2700	-0.17744 0.0298	-0.13941 0.0889	-0.14757 0.0715	-0.11704 0.1538
APXAN	0.00441 0.9573	0.11683 0.1545	0.31631 0.0001	0.29451 0.0003	0.13863 0.0905	0.20271 0.0129	0.15595 0.0567	0.27658 0.0006	0.29066 0.0003	0.20581 0.0115	0.19354 0.0607	0.27784 0.0006	0.32399 0.0001
APXPS	0.01195 0.8846	-0.03700 0.6531	-0.25820 0.0014	-0.28289 0.0005	-0.27426 0.0007	-0.15167 0.0639	-0.26723 0.0009	-0.27934 0.0005	-0.27780 0.0006	-0.22506 0.0056	-0.[illegible]306 0.[illegible]515	-0.27699 0.0006	-0.25756 0.0015
BSAN	0.06122 0.4567	0.10475 0.2021	0.33527 0.0001	0.43395 0.0001	0.36017 0.0001	0.16838 0.0419	0.38383 0.0001	0.42904 0.0001	0.42857 0.0001	0.25097 0.0019	0.27021 0.0006	0.41865 0.0001	0.38110 0.0001
BSPS	0.04957 0.5469	0.06660 0.4181	0.29737 0.0002	0.32686 0.0001	0.32215 0.0001	0.13189 0.1077	0.25944 0.0016	0.32895 0.0001	0.34760 0.0001	0.24928 0.0021	0.27403 0.0007	0.32417 0.0001	0.30812 0.0001
SVINS	0.04419 0.5913	0.04660 0.5712	0.12448 0.1291	0.07790 0.3434	0.[illegible]1786 0.[illegible]8282	-0.01888 0.8187	0.03207 0.6968	0.07645 0.3525	0.09225 0.2616	0.06241 0.4480	0.02917 0.7231	0.07781 0.3439	0.12624 0.1237
NSECV	0.02705 0.7424	-0.00632 0.9389	-0.23054 0.0045	-0.29340 0.0003	-0.35615 0.0001	-0.18676 0.0221	-0.31295 0.0001	-0.28609 0.0004	-0.39899 0.0001	-0.26403 0.0011	-0.16059 0.0496	-0.30462 0.0002	-0.28236 0.0005
PINSV	0.17817 0.0292	0.24079 0.0030	-0.23569 0.0037	-0.23035 0.0046	-0.23666 0.0038	-0.03239 0.6939	-0.19669 0.0158	-0.24756 0.0023	-0.23161 0.0043	-0.19222 0.0184	-0.21226 0.0091	-0.29021 0.0003	-0.28673 0.0004
PTLLN	0.11604 0.1573	0.05297 0.5197	0.24752 0.0023	0.26070 0.0013	0.22713 0.0052	0.07491 0.3623	0.21147 0.0094	0.26630 0.0010	0.17451 0.0327	0.02600 0.0054	0.08565 0.2974	0.20962 0.0008	0.20948 0.0130
INTLN	0.15650 0.0557	0.09565 0.2443	-0.03358 0.6833	-0.00993 0.9040	-0.02933 0.7216	0.05629 0.4938	-0.03259 0.6922	-0.03114 0.7852	0.02244 0.7051	-0.04939 0.5484	0.08416 0.3059	-0.02387 0.7719	0.00886 0.9143
NFLOR	0.00996 0.9037	0.35517 0.5025	0.71097 0.0001	0.79406 0.0001	0.77824 0.0001	0.38314 0.0001	0.68562 0.0001	0.88328 0.0001	0.88328 0.0001	0.56779 0.0001	0.81685 0.0001	0.76207 0.0001	0.77082 0.0001
CORLLN	0.04963 0.5464	0.10972 0.1814	0.35080 0.0001	0.38079 0.0001	0.14051 0.0863	0.36487 0.4303	0.87687 0.3498	0.35886 0.0001	0.28036 0.0005	0.19133 0.0190	0.14694 0.0728	0.38614 0.0001	0.30910 0.0001
CORLWD	-0.14357 0.0797	-0.07973 0.3321	0.14189 0.0833	0.15775 0.0539	0.15541 0.0576	0.19649 0.0160	0.15962 0.0510	0.13883 0.0902	0.14091 0.0854	0.18525 0.0232	0.05197 0.5276	0.17541 0.0318	0.20469 0.0180
CORTWD	0.02595 0.7526	-0.01723 0.8342	0.05871 0.5377	0.08003 0.3303	0.09165 0.2647	0.08721 0.2886	0.07871 0.3384	0.07790 0.3434	0.06634 0.4060	0.04371 0.5954	-0.15172 0.0638	0.13289 0.1050	0.08677 0.2911
HASL	0.04663 0.5710	-0.03103 0.7062	-0.69948 0.0001	-0.70285 0.0001	-0.55631 0.0001	-0.43248 0.7061	-0.43484 0.0001	-0.69464 0.0001	-0.68281 0.0801	-0.59841 0.0001	-0.51310 0.0001	-0.67126 0.0801	-0.64796 0.0001
PAPMXLN	-0.06419 0.4352	0.03423 0.6776	0.83935 0.0001	0.96940 0.0001	0.82315 0.0001	0.38246 0.0001	0.70657 0.0001	0.98890 0.0001	0.87011 0.0001	0.61741 0.0001	0.62718 0.0001	0.94531 0.0001	0.78246 0.0001



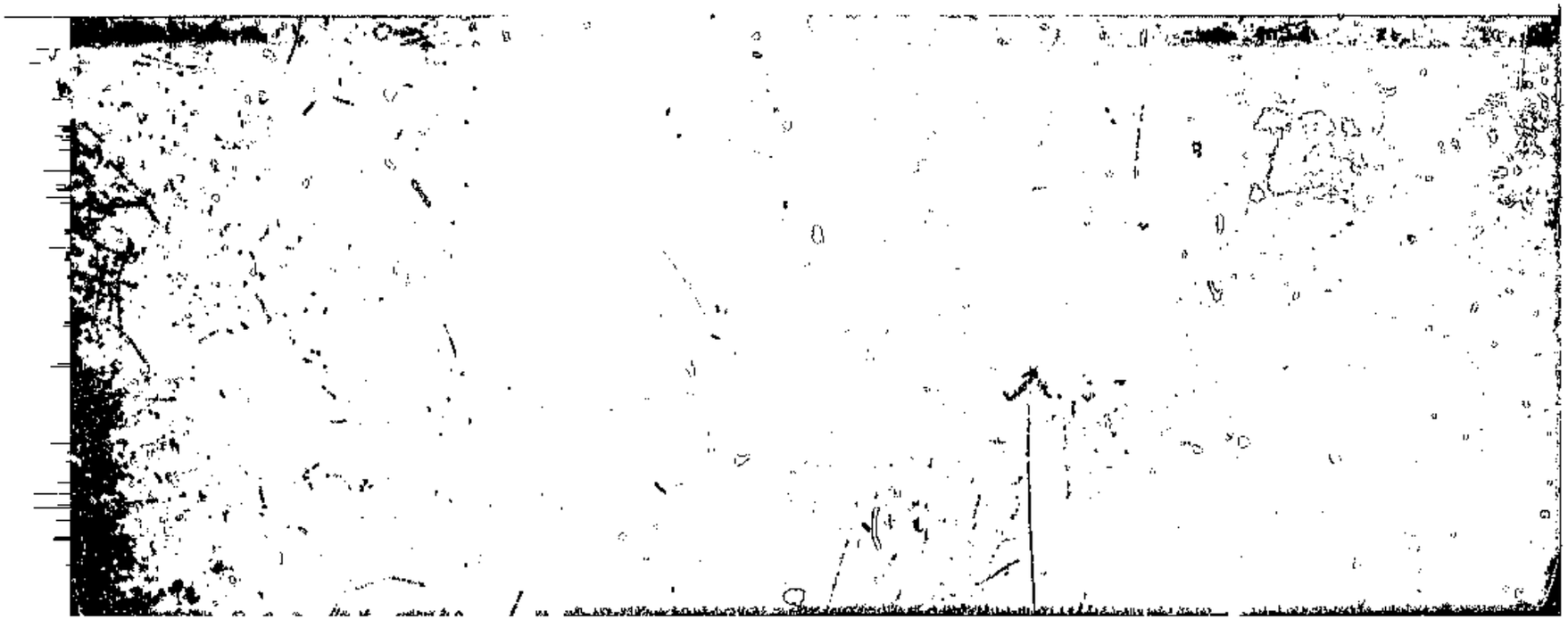
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	RACMLEN	INTNDLN	NBR	LBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	INFL	INFW
LNWDRL	-0.08462 0.3032	-0.17828 0.0291	-0.30455 0.0002	-0.35106 0.0001	-0.30432 0.0002	-0.18576 0.0228	-0.27165 0.0008	-0.35740 0.0001	-0.39438 0.0601	-0.26007 0.0013	-0.21513 0.0082	-0.35513 0.0001	-0.38062 0.0001
MXLNL	0.12878 0.1163	0.07472 0.3635	-0.47540 0.0001	-0.49676 0.0001	-0.42942 0.0001	-0.17114 0.0363	-0.37121 0.0001	-0.49066 0.0001	-0.49646 0.0001	-0.44985 0.0001	-0.37518 0.0001	-0.50906 0.0001	-0.50876 0.0001
MXWDL	0.19084 0.0193	0.25363 0.0017	-0.16523 0.0433	-0.10434 0.2039	-0.12661 0.1226	0.01125 0.8914	-0.10056 0.2208	-0.18454 0.1289	-0.09063 0.2700	-0.17744 0.0298	-0.13947 0.0889	-0.14757 0.0715	-0.11704 0.1536
APXAN	0.00441 0.9573	0.11683 0.1545	0.31631 0.0001	0.29456 0.0003	0.17869 0.0905	0.20271 0.0129	0.15595 0.0567	0.27658 0.0006	0.09066 0.0003	0.20581 0.0115	0.15354 0.0607	0.27784 0.0008	0.32399 0.0001
APXPS	0.01195 0.8846	-0.03700 0.6531	-0.25820 0.0014	-0.28289 0.0005	-0.27426 0.0007	-0.19167 0.0639	-0.26723 0.0009	-0.27934 0.0005	-0.27780 0.0006	-0.22506 0.0056	-0.15306 0.0615	-0.27699 0.0006	-0.25756 0.0015
BSAN	0.06122 0.4567	0.10475 0.2021	0.33527 0.0001	0.44395 0.0001	0.36017 0.0001	0.16638 0.0419	0.30757 0.0001	0.42904 0.0001	0.42457 0.0001	0.25097 0.0019	0.21821 0.0006	0.41065 0.0001	0.38110 0.0001
BSPS	0.04957 0.5469	0.06660 0.4181	0.29737 0.0002	0.32686 0.0001	0.32215 0.0001	0.13189 0.1077	0.25544 0.0018	0.32895 0.0001	0.34760 0.0001	0.24920 0.0021	0.27403 0.0007	0.32417 0.0001	0.30812 0.0001
SVINS	0.04419 0.5913	0.04660 0.5712	0.12448 0.1291	0.07790 0.3434	0.01786 0.8282	-0.31888 0.8187	0.03207 0.6968	0.07645 0.3525	0.09225 0.2616	0.06241 0.4480	0.02917 0.7231	0.07781 0.3439	0.12624 0.1237
NSECV	0.02705 0.7424	-0.00632 0.9389	-0.33054 0.0045	-0.29340 0.0003	-0.35615 0.0001	-0.18676 0.0221	-0.31295 0.0001	-0.28609 0.0004	-0.35059 0.0001	-0.26403 0.0011	-0.16059 0.0496	-0.30462 0.0002	-0.28236 0.0005
PINSVL	0.17817 0.0292	0.24079 0.0030	-0.23569 0.0037	-0.23035 0.0046	-0.23666 0.0035	-0.03239 0.6939	-0.19669 0.0158	-0.34756 0.0023	-0.23161 0.0043	-0.19222 0.0184	-0.21226 0.0091	-0.29021 0.0003	-0.28673 0.0004
PTLLN	0.11604 0.1573	0.05297 0.5197	0.24752 0.0023	0.26070 0.0013	0.22713 0.0052	0.07491 0.3623	0.21147 0.0094	0.26630 0.0010	0.17451 0.0327	0.22600 0.0054	0.08565 0.2974	0.26962 0.0008	0.20248 0.0130
INTLN	0.15699 0.0557	0.09565 0.2443	-0.03358 0.6833	-0.00993 0.9040	-0.02933 0.7216	0.05629 0.4938	-0.03259 0.6922	-0.03114 0.7052	0.02244 0.7851	-0.04939 0.6464	0.08416 0.3059	-0.02387 0.7719	0.00888 0.9143
NFLOR	0.00996 0.9037	0.05517 0.5025	0.71097 0.0001	0.79406 0.0001	0.77824 0.0001	0.38314 0.0001	0.68562 0.0001	0.80528 0.0001	0.88374 0.0001	0.56779 0.0001	0.51685 0.0001	0.78207 0.0001	0.77032 0.0001
CORLLN	0.04963 0.5464	0.10972 0.1814	0.35080 0.0001	0.38079 0.0001	0.14053 0.0863	0.06487 0.4303	0.07687 0.3498	0.35886 0.0001	0.28036 0.0005	0.19133 0.0190	0.14694 0.0728	0.38614 0.0001	0.38240 0.0001
CORLWD	-0.14357 0.0797	-0.07973 0.3321	0.14189 0.0833	0.15775 0.0539	0.15541 0.0576	0.19649 0.0160	0.15962 0.0510	0.13883 0.0902	0.14091 0.0854	0.18525 0.0232	0.05197 0.5276	0.17541 0.0318	0.20460 0.0120
CORTWD	0.02595 0.7526	-0.01723 0.8342	0.05071 0.5377	0.08003 0.3303	0.09165 0.2647	0.08721 0.2886	0.07871 0.3384	0.07790 0.3434	0.04834 0.4060	0.04371 0.5954	-0.15172 0.0638	0.13289 0.1050	0.08677 0.2911
HASL	0.04663 0.5710	-0.03103 0.7062	-0.69948 0.0001	-0.70285 0.0001	-0.55631 0.0001	-0.13248 0.1061	-0.43484 0.0001	-0.69444 0.0001	-0.60281 0.0001	-0.59841 0.0001	-0.51319 0.0001	-0.67126 0.0001	-0.64796 0.0001
PAPMXLN	-0.06419 0.4352	0.03423 0.6776	0.83935 0.0001	0.96940 0.0001	0.82315 0.0001	0.38246 0.0001	0.70657 0.0001	0.94950 0.0001	0.87011 0.0001	0.61741 0.0001	0.62713 0.0001	0.94531 0.0001	0.78246 0.0001



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / N = 150

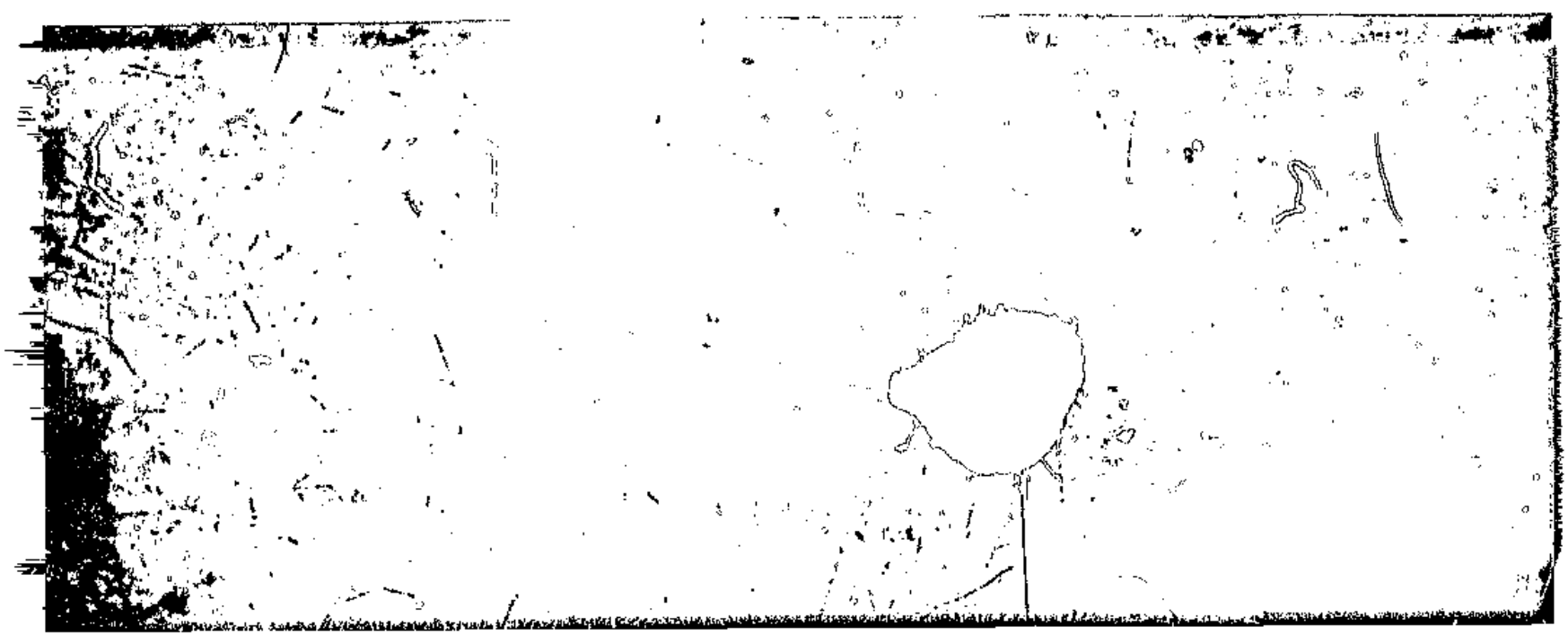
	RACHLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PNXL	LDRP	INFL	INFW
TFLLN	0.01944 0.8133	0.00446 0.9568	0.80331 0.0001	0.92748 0.0001	0.78743 0.0001	0.34944 0.0001	0.57096 0.0001	0.91453 0.0001	0.84185 0.0001	0.61457 0.0001	0.59554 0.0001	0.97130 0.0001	0.82560 0.0001
DFRS	0.07716 0.3478	-0.01370 0.8679	-0.65605 0.0001	-0.64156 0.0001	-0.47358 0.0001	-0.10498 0.2011	-0.33395 0.0001	-0.62715 0.0001	-0.51441 0.0001	-0.57709 0.0001	-0.50681 0.0001	-0.69920 0.0001	-0.57322 0.0001
STMXLN	-0.01813 0.8029	0.02988 0.7166	0.81968 0.0001	0.94871 0.0001	0.88934 0.0001	0.39821 0.0001	0.71267 0.0001	0.92956 0.0001	0.86035 0.0001	0.60907 0.0001	0.51109 0.0001	0.94824 0.0001	0.78398 0.0001
S MXLOL	0.05633 0.4935	0.21174 0.0093	0.43744 0.0001	0.42044 0.0001	0.26115 0.0012	0.03407 0.6839	0.21799 0.0074	0.42389 0.0001	0.38710 0.0001	0.23851 0.0036	0.20561 0.0116	0.42197 0.0001	0.34339 0.0001
STBLN	-0.01399 0.8651	-0.05442 0.5083	0.64996 0.0001	0.74182 0.0001	0.65799 0.0001	0.30820 0.0002	0.56982 0.0001	0.73630 0.0001	0.69157 0.0001	0.52123 0.0001	0.47767 0.0001	0.78241 0.0001	0.66156 0.0001
STBWD	0.15211 0.0631	0.15118 0.0648	0.33635 0.0001	0.24788 0.0022	0.08719 0.2910	0.02812 0.7330	0.20053 0.0139	0.24693 0.0023	0.89277 0.0003	0.17648 0.0808	0.11898 0.1470	0.89679 0.0002	0.32956 0.0001
ACMXLN	0.10353 0.2074	-0.08627 0.2939	0.83275 0.0001	0.51862 0.0001	0.41544 0.0001	0.11417 0.1642	0.33937 0.000	0.51895 0.0001	0.88772 0.0001	0.39175 0.0001	0.33176 0.0001	0.58183 0.0001	0.64294 0.0001
ACMXWD	-0.01039 0.8996	-0.15875 0.0523	0.09540 0.2455	0.14126 0.0847	0.11442 0.1632	0.28598 0.0117	0.17991 0.0276	0.13380 0.1026	0.15223 0.0629	0.07723 0.3475	-0.01808 0.9025	0.22797 0.0050	0.19491 0.0168
NVPAC	-0.12766 0.1195	0.03592 0.6625	0.55070 0.0001	0.62315 0.0001	0.60526 0.0001	0.06478 0.4301	0.55294 0.0001	0.60277 0.0001	0.58910 0.0001	0.52921 0.0001	0.49059 0.0001	0.59588 0.0001	0.54233 0.0001
CRMXLN	-0.01540 0.8510	0.07740 0.3465	0.83468 0.0001	0.95561 0.0001	0.82087 0.0001	0.39467 0.0001	0.71255 0.0001	0.93640 0.0001	0.86608 0.0001	0.60423 0.0001	0.49233 0.0001	0.83767 0.0001	0.77309 0.0001
CRMXWD	0.10916 0.1836	0.23863 0.0033	0.22359 0.0060	0.25236 0.0019	0.17399 0.0332	0.43268 0.0001	0.22224 0.0003	0.34621 0.0024	0.35846 0.0001	0.11537 0.1598	-0.00077 0.9928	0.28286 0.0005	0.32887 0.0001
CRMNWD	-0.05195 0.5278	0.06520 0.4280	-0.07788 0.3435	-0.12723 0.1208	-0.11036 0.1788	0.09185 0.2636	-0.09015 0.2726	-0.13982 0.0879	-0.02839 0.8044	-0.07669 0.3510	-0.10151 0.2165	-0.13963 0.0883	-0.06937 0.8989
NNNOFWD	0.43311 0.0001	0.13364 0.1030	-0.64270 0.0001	-0.75481 0.0001	-0.70319 0.0001	-0.44908 0.0001	-0.69514 0.0001	-0.79724 0.0001	-0.77191 0.0001	-0.51710 0.0001	-0.44469 0.0001	-0.70285 0.0001	-0.59553 0.0001
IBLWR	-0.07755 0.3456	-0.01150 0.8889	0.72985 0.0001	0.84121 0.0001	0.69963 0.0001	-0.11227 0.1714	0.58019 0.0001	0.38345 0.0001	0.68653 0.0801	0.55398 0.0001	0.54901 0.0001	0.79359 0.0001	0.81631 0.0001
OBLWR	-0.08186 0.3193	-0.06120 0.4569	0.37953 0.0001	0.48320 0.0001	0.34635 0.0801	-0.15851 0.0527	-0.33423 0.6775	0.38283 0.0001	0.25546 0.0016	0.35139 0.0001	0.34330 0.0001	0.35341 0.0001	0.38937 0.0001
INVLWR	-0.11526 0.1602	-0.18835 0.0913	0.23635 0.0036	0.18641 0.0418	-0.02660 0.7467	-0.39333 0.0001	-0.13164 0.0357	0.18689 0.0230	-0.20261 0.0129	0.15532 0.0577	0.15296 0.0017	0.16161 0.0482	-0.06592 0.4229
CRLLWR	0.12983 0.1133	0.16614 0.0422	0.28650 0.0004	0.30570 0.0001	0.05468 0.5063	-0.03954 0.6309	-0.31314 0.8732	0.29671 0.0002	0.21398 0.0086	0.08110 0.3239	0.12408 0.1303	0.29813 0.0002	0.20193 0.0132
ACLWR	0.11563 0.1568	-0.01194 0.8847	0.41388 0.0001	0.48210 0.0001	0.38560 0.0001	0.01114 0.8923	0.27045 0.0008	0.48625 0.0001	0.44349 0.0001	0.38730 0.0001	0.36518 0.0001	0.81504 0.0001	0.59689 0.0001



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

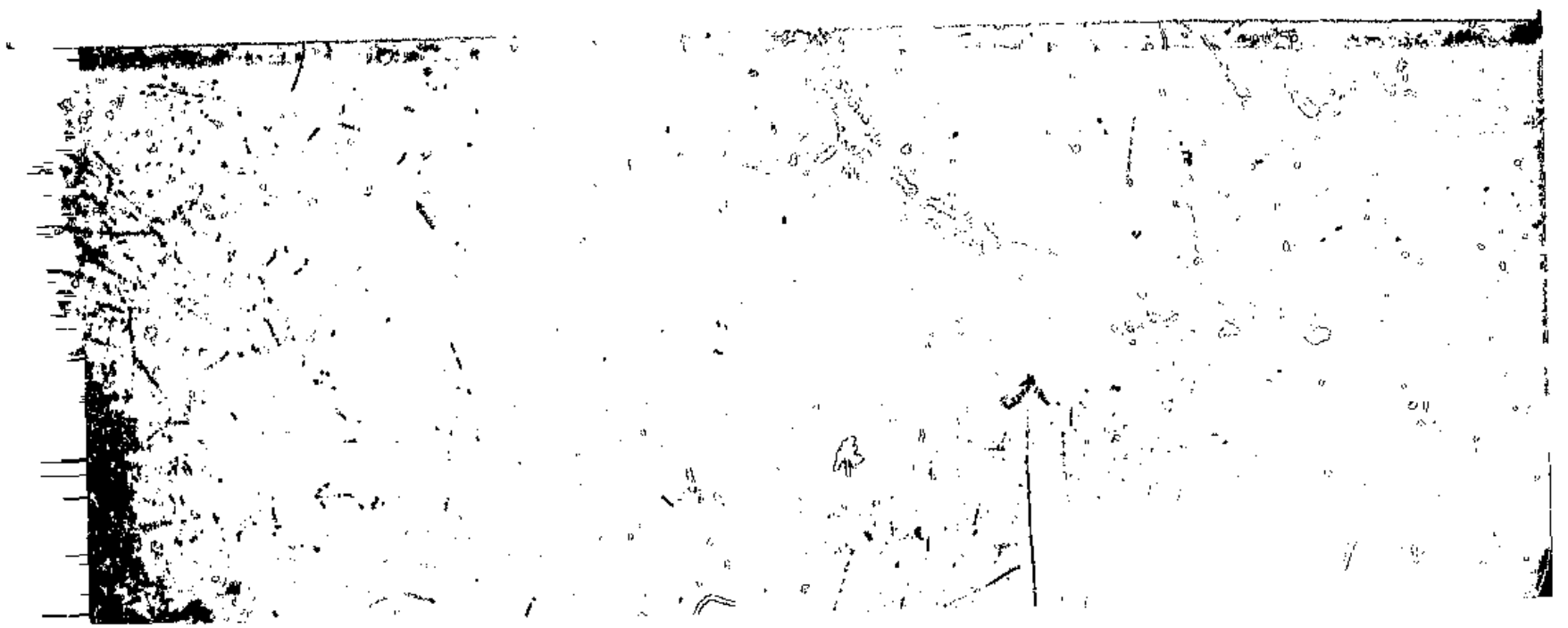
	RACMLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	INFL	INFW
CORLWR	-0.05477 0.5056	0.00191 0.9815	0.80773 0.0001	0.82097 0.0001	0.80947 0.0001	0.88381 0.0005	0.67963 0.0001	0.90498 0.0001	0.79665 0.0001	0.59981 0.0001	0.63892 0.0001	0.88136 0.0001	0.70706 0.0001
CORLMWR	-0.00204 0.9802	0.04295 0.6017	0.77876 0.0001	0.96153 0.0001	0.77477 0.0001	0.31151 0.0001	0.06983 0.0001	0.38078 0.0001	0.78206 0.0001	0.57494 0.0001	0.58341 0.0001	0.89192 0.0001	0.71749 0.0001
STLLBR	-0.05053 0.5392	-0.10589 0.1972	0.61943 0.0001	0.76932 0.0001	0.74498 0.0001	0.26052 0.0013	0.64172 0.0001	0.74799 0.0001	0.69197 0.0001	0.53426 0.0001	0.54224 0.0001	0.76888 0.0001	0.65139 0.0001
TFLPLR	0.17412 0.0331	-0.07808 0.3422	-0.67008 0.0001	-0.75245 0.0001	-0.64164 0.0001	-0.36982 0.0001	-0.56478 0.0001	-0.73083 0.0001	-0.67256 0.0001	-0.45335 0.0001	-0.48558 0.0001	-0.63025 0.0001	-0.51626 0.0001
INFLWR	-0.08462 0.3032	0.01050 0.7102	0.17638 0.0308	0.25456 0.0017	0.19354 0.0176	0.03562 0.6652	0.17415 0.0331	0.25752 0.0009	0.04728 0.5656	0.30933 0.9098	0.15159 0.0641	0.20036 0.0148	0.34451 0.0001
LRNFHR	-0.12177 0.1040	0.06428 0.4245	0.70758 0.0001	0.81334 0.0001	0.73169 0.0001	0.44188 0.0001	0.66237 0.0001	0.80918 0.0001	0.88196 0.0001	0.69056 0.0001	0.48589 0.0001	0.78390 0.0001	0.64891 0.0001

	VANGS	VANGB	MINWDL	SHINL	LNWDXL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV
RACMLEN	0.04003 0.6268	-0.04775 0.5618	0.31634 0.0078	-0.00277 0.9732	-0.08462 0.3032	0.12878 0.1163	0.19084 0.0193	0.00481 0.9573	0.01195 0.8846	0.36122 0.4567	0.04957 0.5469	0.04419 0.5913	0.02705 0.7424
INTNDLN	0.07708 0.3485	-0.05473 0.5059	0.25222 0.0012	-0.08866 0.2796	-0.17820 0.0291	0.07472 0.3635	0.25363 0.0017	0.11683 0.1545	-0.03700 0.6531	0.10478 0.2021	0.36660 0.4181	0.04660 0.5712	-0.00632 0.9389
NBR	0.15304 0.0615	0.36511 0.0001	-0.22032 0.0067	-0.12735 0.1204	-0.30455 0.0002	-0.47540 0.0001	-0.16523 0.0433	0.31631 0.0001	-0.25820 0.0014	0.33527 0.0001	0.29737 0.0002	0.12448 0.1291	-0.23054 0.0045
IBRL	0.04436 0.5899	0.32377 0.0001	-0.17554 0.0317	-0.19623 0.0161	-0.38106 0.0001	-0.49676 0.0001	-0.10434 0.2039	0.39491 0.0003	-0.28289 0.0005	0.34395 0.0001	0.32686 0.0001	0.07790 0.3434	-0.39340 0.0003
OBRL	0.02088 0.7998	0.24666 0.0023	-0.18473 0.0236	-0.15609 0.0565	-0.30432 0.0002	-0.42942 0.0001	-0.12661 0.1226	0.11869 0.0505	-0.27426 0.0007	0.36077 0.0001	0.32215 0.0001	0.01786 0.8282	-0.35615 0.0001
IBRW	0.03911 0.6347	0.04151 0.6160	0.01317 0.8729	0.00609 0.9411	-0.18576 0.0228	-0.17114 0.0363	0.01125 0.8914	0.20271 0.0129	-0.15167 0.0639	0.16638 0.0419	0.13189 0.1077	-0.01888 0.8187	-0.18676 0.0221
OBRW	0.00267 0.9741	0.18173 0.0260	-0.14399 0.0788	-0.11704 0.1538	-0.27165 0.0008	-0.37121 0.0001	-0.10056 0.2208	0.15595 0.0567	-0.38723 0.0009	0.30757 0.0001	0.25544 0.0016	0.03207 0.6968	-0.31298 0.0001
INMXL	0.07?16 0.37?7	0.35901 0.0001	-0.18733 0.0217	-0.16401 0.0449	-0.35740 0.0001	-0.49086 0.0001	-0.12454 0.1289	0.27658 0.0006	-0.27934 0.0005	0.42904 0.0001	0.32895 0.0001	0.07645 0.3525	-0.28609 0.0004
INMXW	0.08208 0.3180	0.27802 0.0006	-0.15725 0.0546	-0.18255 0.0254	-0.39438 0.0001	-0.49646 0.0001	-0.09067 0.2700	0.29066 0.0003	-0.27780 0.0006	0.42457 0.0001	0.34760 0.0001	0.09225 0.2616	-0.35059 0.0001
PMXL	-0.80839 0.9188	0.17694 0.0303	-0.25227 0.0018	-0.17848 0.0289	-0.26007 0.0013	-0.44985 0.0001	-0.17744 0.0298	0.88581 0.0115	-0.22506 0.0056	0.85097 0.0019	0.24926 0.0021	0.06241 0.4480	-0.86803 0.0811
LBRP	0.05541 0.5007	0.14332 0.0802	-0.18829 0.0210	-0.09402 0.2524	-0.21513 0.0082	-0.37518 0.0001	-0.13941 0.0889	0.15354 0.0607	-0.15306 0.0615	0.27821 0.0006	0.27403 0.0007	0.02917 0.7231	-0.16059 0.0496



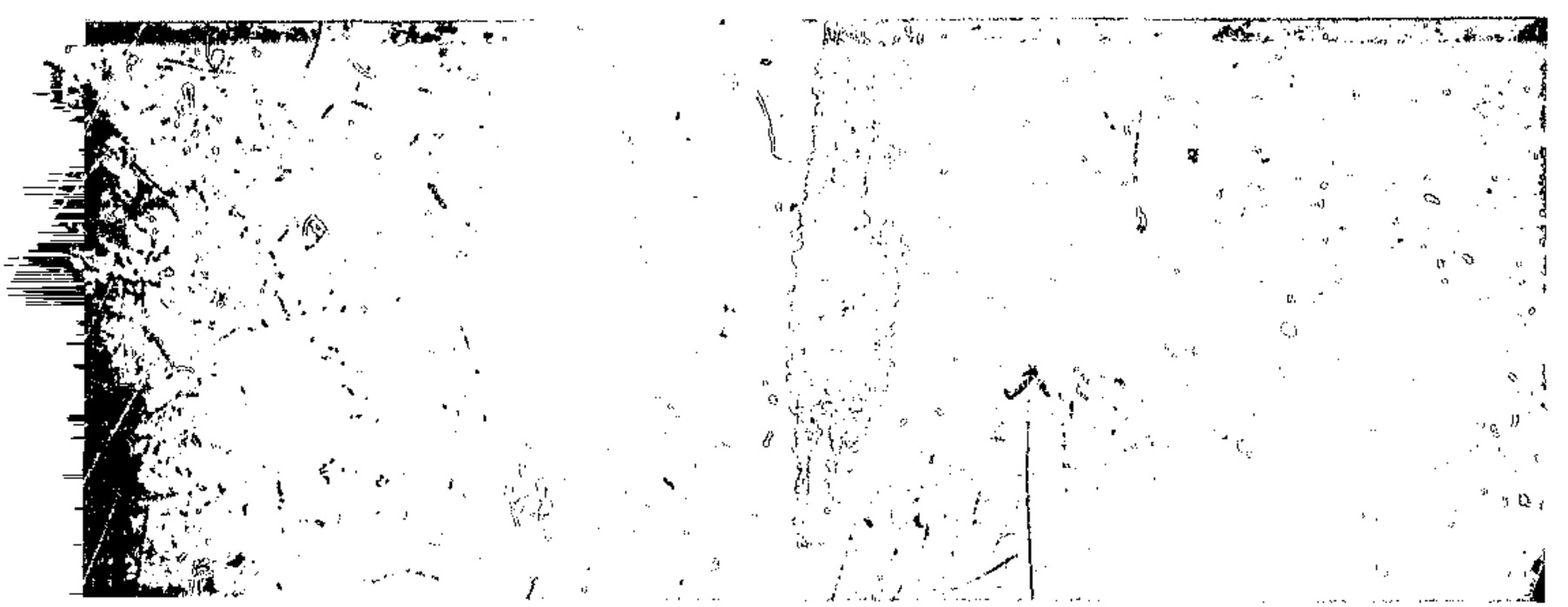
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	VANGS	VANGB	MHWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV
INFL	0.05183 0.5288	0.31948 0.0001	-0.21344 0.0087	-0.16575 0.0427	-0.35513 0.0001	-0.50906 0.0001	-0.14757 0.0715	0.27784 0.0006	-0.27699 0.0006	0.41858 0.0001	0.32417 0.0001	0.07781 0.3439	-0.30482 0.0002
INFW	0.03279 0.6904	0.23521 0.0038	-0.19979 0.0142	-0.22382 0.0059	-0.38062 0.0001	-0.50876 0.0001	-0.11704 0.1538	0.32399 0.0001	-0.25756 0.0015	0.38110 0.0001	0.30812 0.0001	0.12824 0.1237	-0.28236 0.0005
VANGS	1.00000 0.0000	0.30465 0.0002	0.09609 0.2421	0.00152 0.9271	-0.08925 0.2775	-0.00260 0.9740	0.08452 0.3038	0.07901 0.3365	0.04259 0.6048	0.17041 0.0371	0.24140 0.0029	0.30961 0.0001	0.12179 0.1376
VANGB	0.30465 0.0002	1.00000 0.0000	0.11999 0.1436	-0.14482 0.0770	-0.31642 0.0001	-0.18196 0.0477	0.14997 0.0670	0.18064 0.0270	-0.18240 0.0827	0.37385 0.0001	0.37378 0.0001	0.31746 0.0075	0.11126 0.1753
MHWDL	0.09609 0.2421	0.11999 0.1436	1.00000 0.0000	-0.20124 0.0135	-0.51080 0.0001	0.64762 0.0001	0.96056 0.0001	0.00280 0.9729	0.18181 0.0260	0.36652 0.0001	0.47068 0.0287	0.00124 0.9880	0.26843 0.0009
SHINL	0.00752 0.9273	-0.14482 0.0770	-0.20124 0.0135	1.00000 0.0000	0.78384 0.0001	0.34814 0.0001	-0.46005 0.0001	-0.35756 0.0001	-0.06035 0.4632	-0.32193 0.0001	0.16559 0.0429	-0.24336 0.0027	0.14613 0.0744
LNWDRL	-0.08925 0.2775	-0.31642 0.0001	-0.51080 0.0001	0.78384 0.0001	1.00000 0.0000	0.49413 0.0001	-0.49789 0.0001	-0.48628 0.0001	0.09754 0.2350	-0.61067 0.0001	-0.15942 0.0513	-0.24920 0.0021	0.26103 0.0013
MXLNL	-0.00260 0.9749	-0.18196 0.0477	0.64762 0.0001	0.34814 0.0001	0.49413 0.0001	1.00000 0.0000	0.48275 0.0001	-0.41527 0.0001	0.09309 0.0003	-0.21188 0.0092	-0.02541 0.7576	-0.17505 0.0322	0.07733 0.0001
MXWDL	0.08452 0.3038	0.14997 0.0670	0.96056 0.0001	-0.46005 0.0001	-0.49789 0.0001	0.48275 0.0001	1.00000 0.0000	0.11153 0.1742	0.18082 0.0268	0.42333 0.0001	0.11308 0.1683	0.06926 0.3997	0.19614 0.0151
APXAN	0.07901 0.3365	0.18064 0.0270	0.00280 0.9729	-0.35756 0.0001	-0.48628 0.0001	-0.41527 0.0001	0.11153 0.1742	1.00000 0.0000	-0.45840 0.0001	0.22684 0.0052	0.01885 0.8852	0.18301 0.0258	-0.18451 0.0443
APXPS	0.04259 0.6048	-0.18240 0.0821	0.18181 0.0260	-0.06035 0.4632	0.09754 0.2350	0.09309 0.0003	0.18082 0.0268	-0.45849 0.0001	1.00000 0.0000	-0.07439 0.3656	-0.08560 0.2977	0.01887 0.8188	0.18931 0.0891
BSAN	0.17041 0.0371	0.37385 0.0001	0.36652 0.0001	-0.32193 0.0001	-0.61067 0.0001	-0.21188 0.0092	0.42333 0.0001	0.22684 0.0052	-0.07439 0.3656	1.00000 0.0000	0.57324 0.0001	0.23353 0.0040	-0.03491 0.6715
BSPS	0.24140 0.0029	0.37378 0.0001	0.47068 0.0287	0.16559 0.0429	-0.15942 0.0513	-0.02541 0.7576	0.11308 0.1683	0.01885 0.8852	-0.08560 0.2977	0.57324 0.0001	1.00000 0.0000	0.06659 0.4181	0.00659 0.2921
SVINS	0.30961 0.0001	0.31746 0.0075	0.00124 0.9880	-0.24336 0.0027	-0.24920 0.0021	-0.17505 0.0322	0.06926 0.3997	0.18301 0.0258	0.01887 0.8188	0.23353 0.0040	0.06659 0.4181	1.00000 0.0000	0.01079 0.0096
NSECV	0.12179 0.1376	0.11126 0.1753	0.26843 0.0009	0.14613 0.0744	0.26103 0.0013	0.07733 0.0001	0.19614 0.0151	-0.18451 0.0443	0.18931 0.0891	-0.03491 0.6715	0.00659 0.2921	0.01079 0.0096	1.00000 0.0000
PINSV	0.09539 0.2456	-0.12227 0.1361	0.25187 0.0019	0.00335 0.9675	0.03464 0.6739	0.27355 0.0007	0.22445 0.0058	0.04506 0.5840	0.03286 0.6897	-0.06124 0.4566	-0.06770 0.4104	-0.13534 0.0987	-0.08027 0.3288
PTLLN	-0.05109 0.5346	-0.09372 0.2540	0.17809 0.0292	0.00079 0.9924	0.01887 0.8187	0.16891 0.0388	0.15920 0.0517	-0.01955 0.8123	-0.00634 0.9386	-0.02807 0.8074	-0.07866 0.3387	-0.12710 0.1212	0.00636 0.2411
INTLN	-0.02734 0.7398	-0.07426 0.3665	0.07151 0.0008	-0.09284 0.2565	-0.04168 0.6126	0.19448 0.0171	0.27981 0.0005	0.00987 0.9046	0.08218 0.3174	0.07363 0.3706	0.03719 0.6514	0.01660 0.8402	0.05654 0.4919



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

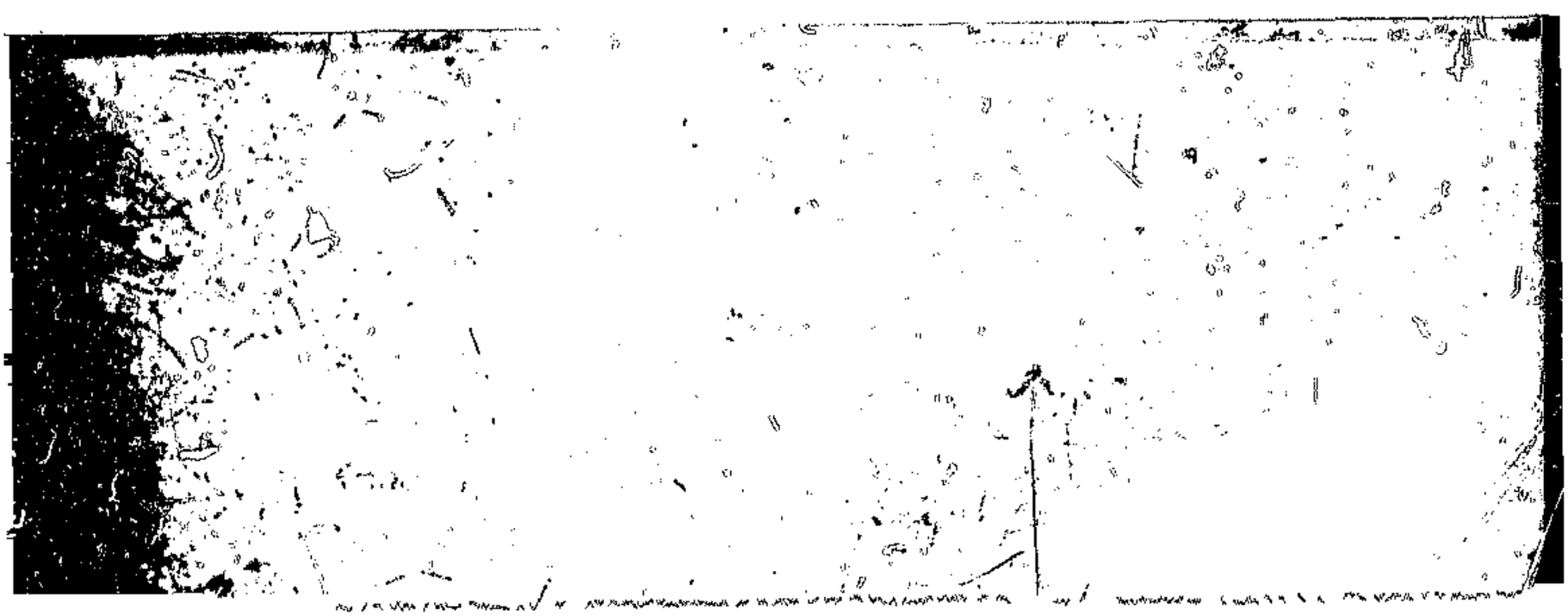
	VANGS	VANGB	MNWDL	SINNL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV
NFLOR	0.32230 0.7865	0.25187 0.0019	-0.15875 0.0523	-0.17177 0.0356	-0.33157 0.0001	-0.43159 0.0001	-0.09687 0.2383	0.18240 0.0255	-0.20848 0.0105	0.41499 0.0001	0.37998 0.0001	0.08130 0.3227	-0.31274 0.0001
CORLLN	0.00368 0.9644	0.09668 0.2392	0.04247 0.6058	-0.22238 0.0062	-0.28246 0.0028	-0.14971 0.0575	0.09869 0.2296	0.20293 0.0128	-0.06747 0.4120	0.26739 0.0004	0.12938 0.1146	0.13642 0.0960	0.02428 0.7681
CORLWD	-0.36422 0.4349	0.03656 0.6569	-0.00297 0.9712	-0.10604 0.1965	-0.15222 0.0630	-0.13138 0.1096	0.08827 0.7313	0.14355 0.0797	-0.08758 0.2865	0.17037 0.0371	0.14046 0.0865	-0.06136 0.4557	-0.02029 0.8053
CORTWD	-0.17171 0.0356	-0.05834 0.4782	0.08077 0.3258	-0.35422 0.5099	-0.08681 0.2908	-0.00108 0.9696	0.08678 0.2910	0.05279 0.5211	-0.08058 0.3270	0.10480 0.2014	0.10971 0.1814	-0.11957 0.1455	-0.06403 0.4363
HASL	-0.38780 0.2854	-0.36418 0.0001	0.09768 0.2344	0.11472 0.0001	0.42633 0.0001	0.43705 0.0001	-0.00026 0.9973	-0.38363 0.0001	0.35043 0.0001	-0.32818 0.0801	-0.31532 0.0081	-0.09968 0.2249	0.14037 0.0867
PAPMXLN	0.33983 0.6285	0.38689 0.0001	-0.18723 0.0218	-0.22425 0.0058	-0.40422 0.0001	-0.52250 0.0001	-0.10521 0.2001	0.33184 0.0001	-0.30572 0.0001	0.42506 0.0001	0.28024 0.0005	0.07986 0.3313	-0.31579 0.0001
TFLLN	0.03359 0.6832	0.24912 0.0021	-0.20769 0.0108	-0.18612 0.0226	-0.36705 0.0001	-0.51703 0.0001	-0.13367 0.1030	0.30340 0.0002	-0.26582 0.0010	0.39872 0.0001	0.27702 0.0006	0.05707 0.4879	-0.31793 0.0001
DFRS	-0.05781 0.4822	-0.06887 0.0011	0.11131 0.1751	0.23243 0.0042	0.29806 0.0002	0.36374 0.0001	0.02994 0.7161	-0.36333 0.0001	0.08298 0.0008	-0.24981 0.0020	-0.12252 0.1353	-0.05075 0.5374	0.09534 0.2458
STMXLN	0.04324 0.5993	0.25415 0.0017	-0.19578 0.0163	-0.32142 0.0065	-0.41108 0.0001	-0.03733 0.0001	-0.11368 0.1660	0.34563 0.0001	-0.29203 0.0003	0.40865 0.0001	0.25575 0.0016	0.06448 0.4330	-0.35551 0.0001
STMXLOL	0.12873 0.1164	0.09687 0.2287	-0.00014 0.9987	-0.18747 0.0805	-0.22605 0.0054	-0.17377 0.0334	0.04657 0.5720	0.14647 0.0737	-0.07557 0.3580	0.10186 0.2149	-0.25729 0.4862	0.10046 0.2213	-0.08343 0.3101
STBLN	0.04032 0.9571	0.31539 0.0001	-0.18219 0.0257	-0.30538 0.0117	-0.38689 0.0001	-0.43704 0.0001	-0.11303 0.1685	0.31050 0.0001	-0.25491 0.0016	0.31201 0.0001	0.17663 0.0306	0.10707 0.1922	-0.22838 0.0007
STBWD	-0.30586 0.9432	-0.00169 0.9836	-0.02151 0.7938	-0.02736 0.7396	-0.15185 0.0636	-0.15927 0.0514	-0.01044 0.8991	0.23904 0.0032	-0.16846 0.7865	0.13397 0.1022	0.15933 0.0515	-0.04401 0.5928	-0.20212 0.0131
ACMXLN	0.00134 0.9870	0.11152 0.1743	-0.18537 0.0231	0.00105 0.9898	-0.10964 0.1817	-0.[illegible]	[illegible]8 [illegible]2	0.36488 0.4302	-0.10791 0.1887	0.23353 0.0040	0.26215 0.0012	-0.01880 0.8194	-0.19167 0.0639
ACMXWD	-0.05834 0.4782	0.10571 0.1979	-0.04105 0.6100	0.17283 0.0344	0.37983 0.3315	-0.0[illegible] 0.8880	0.08247 0.3157	0.0[illegible]398 0.0652	-0.14958 0.0677	0.07380 0.3797	0.08059 0.3269	-0.06962 0.3973	0.06763 0.4109
NVPAC	0.00477 0.9538	0.13792 0.6923	-0.19756 0.0542	-0.25133 0.0019	-0.34338 0.0001	-0.43947 0.0001	-0.06542 0.4264	0.32908 0.0001	-0.36873 0.0001	0.20942 0.0101	0.03859 0.6392	0.04286 0.6025	-0.30292 0.0002
CRMXLN	0.03896 0.6359	0.28388 0.0004	-0.17907 0.0283	-0.29488 0.0017	-0.42249 0.0001	-0.52676 0.0001	-0.08954 0.2758	0.35698 0.0001	-0.30580 0.0001	0.42483 0.0001	0.27594 0.0006	0.09843 0.2308	-0.30595 0.0001
CRMXWD	0.08048 0.3276	-0.04450 0.5887	0.07288 0.3754	-0.06106 0.4579	-0.21366 0.0067	-0.13286 0.1051	0.08657 0.2922	0.24233 0.0028	-0.10829 0.1872	0.20460 0.0120	0.07522 0.3602	0.05254 0.5231	-0.10312 0.2092
CRMNWD	0.10628 0.1955	-0.05924 0.4714	0.11527 0.0761	-0.03447 0.6754	-0.01908 0.8167	0.12074 0.1411	0.11514 0.1606	0.03185 0.6988	0.00607 0.9413	0.05209 0.5267	0.11569 0.1586	-0.04988 0.5512	0.06810 0.4076



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

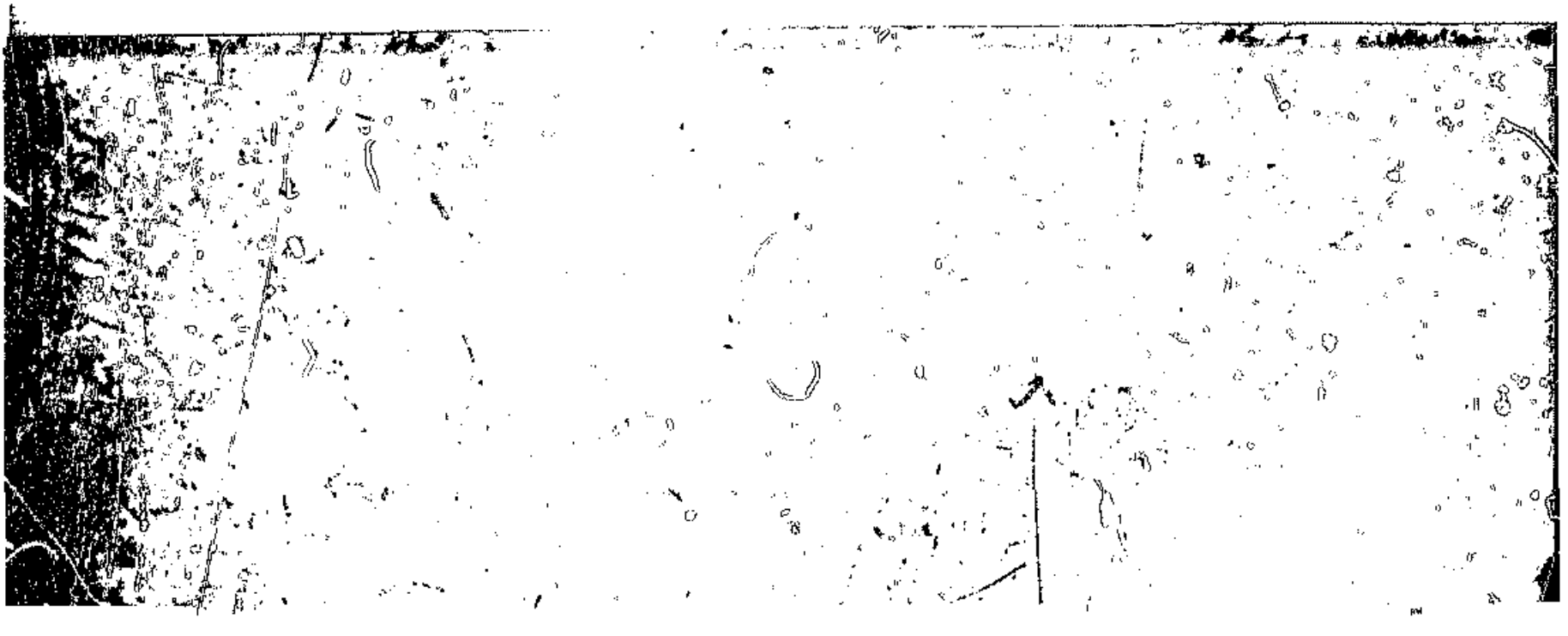
	VANGS	VANGB	MINDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV
NWNOFHD	-0.02069 0.8015	-0.27423 0.0007	0.24803 0.0026	0.21163 0.0087	0.33391 0.0001	0.51678 0.0001	0.15811 0.733	-0.28588 0.0004	0.24763 0.0022	-0.30668 0.0001	-0.22819 0.0050	-0.03918 0.6345	0.36038 0.0001
IBLWR	0.00592 0.9420	0.38938 0.0001	-0.23492 0.0083	-0.21056 0.0097	-0.38615 0.0001	-0.46808 0.0001	-0.13597 0.0971	0.22482 0.0058	-0.23122 0.0044	0.37853 0.0001	0.26128 0.0012	0.39247 0.2684	-0.22590 0.0054
OBLWR	0.05268 0.5221	0.19218 0.0185	-0.12354 0.1320	-0.17093 0.0365	-0.16900 0.0387	-0.23467 0.0038	-0.06290 0.4444	0.00414 0.9599	-0.02856 0.7287	0.18571 0.0229	0.18241 0.0255	0.01271 0.8774	-0.12154 0.1385
INVLWR	0.00089 0.9913	0.16434 0.0395	-0.05675 0.4903	-0.01552 0.8505	0.03058 0.7110	-0.02188 0.7904	-0.04601 0.5761	0.02258 0.7839	-0.00947 0.9085	0.00605 0.9414	-0.03965 0.4684	0.02728 0.7404	0.30742 0.0109
CRLLWR	0.02837 0.7303	0.08683 0.3255	0.03794 0.6446	-0.16358 0.0455	-0.15679 0.0554	-0.07878 0.3384	0.07741 0.3464	0.11520 0.1604	-0.01909 0.8167	0.16061 0.0270	0.04132 0.6756	0.18609 0.0226	0.04162 0.6131
ACLWR	0.02593 0.7528	0.04757 0.5608	-0.19432 0.0172	-0.08251 0.3155	-0.15131 0.0648	-0.33103 0.0001	-0.15172 0.0838	0.06317 0.4425	-0.03083 0.7076	0.08263 0.0129	0.24135 0.0029	0.01530 0.8526	-0.21143 0.0094
CORLWR	0.00920 0.9111	0.31206 0.0001	-0.32111 0.0065	-0.23910 0.0032	-0.36989 0.0001	-0.51448 0.0001	-0.13333 0.1038	0.29650 0.0002	-0.29158 0.0002	0.36647 0.0001	0.26642 0.0018	0.08345 0.3100	-0.29090 0.0003
CORLMHR	0.00388 0.9624	0.27581 0.0006	-0.31770 0.0074	-0.22550 0.0055	-0.35952 0.0001	-0.51087 0.0001	-0.13035 0.1119	0.30715 0.0001	-0.27539 0.0006	0.36272 0.0001	0.21094 0.0097	0.11961 0.1449	-0.29438 0.0003
STLLBR	-0.05006 0.5430	0.22847 0.0055	-0.23706 0.0076	-0.14454 0.0776	-0.31632 0.0001	-0.48643 0.0001	-0.15497 0.0589	0.29265 0.0003	-0.28609 0.0004	0.38579 0.0001	0.32461 0.0001	0.01257 0.8786	-0.34806 0.0001
TFLPLR	-0.00301 0.9709	-0.28305 0.0004	0.19082 0.2196	0.23480 0.0038	0.35793 0.0001	0.38318 0.0001	0.02824 0.7316	-0.30025 0.0002	0.38984 0.0001	-0.30999 0.0001	-0.17175 0.0356	-0.07379 0.3698	0.22191 0.0063
INFLWR	0.04248 0.6065	0.09377 0.2537	0.00173 0.9832	0.10929 0.1832	0.08396 0.3070	0.05798 0.4810	-0.09256 0.6925	-0.08971 0.2750	-0.01975 0.8104	-0.01224 0.8818	-0.04943 0.5481	-0.07262 0.3772	0.00254 0.9754
LRNFHR	0.06457 0.4324	0.28532 0.0004	-0.16421 0.0446	-0.20866 0.0077	-0.39368 0.0001	-0.49706 0.0001	-0.07463 0.3640	0.30504 0.0001	-0.24935 0.0021	0.39819 0.0001	0.28117 0.0005	0.07823 0.3413	-0.33247 0.0001

	PINSV	PTELN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPNXLN	TFLLN	DFRS	STMXLN	STMXLOL
RACMLEN	0.17817 0.0292	0.31604 0.1573	0.15659 0.0557	0.08996 0.9037	0.04963 0.5464	-0.14357 0.0797	0.02595 0.7526	0.04663 0.5710	-0.06419 0.4352	0.01944 0.8133	0.07718 0.3478	-0.01213 0.8829	0.05633 0.4935
INTNDLN	0.24079 0.0030	0.05297 0.5197	0.09565 0.2443	0.05617 0.5025	0.10972 0.1814	-0.07973 0.3321	-0.01723 0.8342	-0.03103 0.7062	0.03483 0.6776	0.00446 0.9566	-0.01370 0.8679	0.02988 0.7166	0.21174 0.0093
NBR	-0.23589 0.0037	0.24252 0.0023	-0.03358 0.6833	0.71897 0.0981	0.35000 0.0001	0.14189 0.0833	0.05071 0.5377	-0.69948 0.0201	0.03935 0.0001	0.80331 0.0001	-0.65505 0.0001	0.01968 0.0001	0.43744 0.0001
IBRL	-0.23835 0.8946	0.25078 0.0013	-0.08993 0.9840	0.79406 0.8001	0.38079 0.0001	0.19775 0.0839	0.08003 0.3303	-0.70285 0.0001	0.96940 0.0001	0.92748 0.0001	-0.64156 0.0001	0.94871 0.0001	0.42044 0.0001
OBRL	-0.23668 0.0035	0.22713 0.0052	-0.02933 0.7216	0.77824 0.0001	0.14051 0.0863	0.15541 0.0576	0.09165 0.2647	-0.55631 0.0001	0.82315 0.0001	0.78743 0.0001	-0.42358 0.0001	0.82934 0.0001	0.26115 0.0012



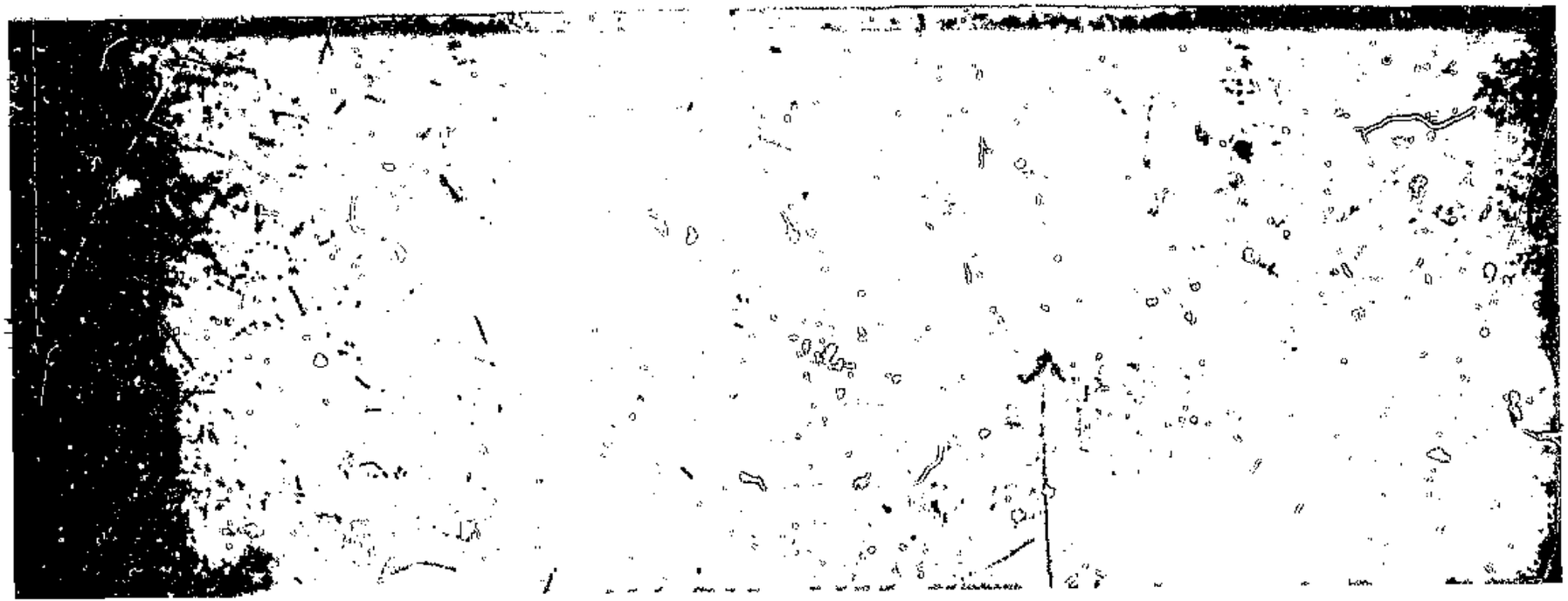
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN	TFLLN	DFRS	STMXLN	STMXLOL
IBRW	-0.03239 0.6939	0.07491 0.3623	0.05629 0.4938	0.38314 0.0001	0.86487 0.4303	0.19849 0.0160	0.08721 0.2886	-0.13248 0.1061	0.38246 0.0001	0.34944 0.0001	-0.10498 0.2011	0.39821 0.0001	0.23407 0.0039
OBRW	-0.19669 0.0158	0.21147 0.0094	-0.03259 0.6922	0.68562 0.0001	0.07687 0.3493	0.15962 0.0510	0.07871 0.3384	-0.43484 0.0001	0.70657 0.0001	0.67096 0.0001	-0.35394 0.0001	0.71267 0.0001	0.21799 0.0074
INMXL	-0.24756 0.0023	0.26638 0.0010	-0.03114 0.7052	0.80528 0.0001	0.35886 0.0001	0.13883 0.0902	0.07790 0.3434	-0.69464 0.0001	0.84950 0.0001	0.91893 0.0001	-0.62719 0.0001	0.92956 0.0001	0.42395 0.0001
INMXW	-0.23161 0.0043	0.17451 0.0327	0.02244 0.7851	0.88374 0.0001	0.28036 0.0005	0.14091 0.0854	0.06834 0.4060	-0.60281 0.0001	0.87011 0.0001	0.84185 0.0001	-0.51441 0.0001	0.86085 0.0081	0.38710 0.0001
PMXL	-0.19222 0.0184	0.22690 0.0054	-0.04939 0.5464	0.56779 0.0001	0.19133 0.0190	0.18525 0.0238	0.04371 0.5954	-0.59841 0.0001	0.61741 0.0001	0.61457 0.0001	-0.57789 0.0001	0.60907 0.0001	0.23651 0.0036
LBRP	-0.21226 0.0091	0.08565 0.2974	0.08036 0.3059	0.51685 0.0001	0.14694 0.0728	0.05197 0.5276	-0.15172 0.0638	-0.53310 0.0001	0.62713 0.0001	0.59554 0.0001	-0.50681 0.0001	0.61105 0.0001	0.20561 0.0116
INFL	-0.29621 0.0003	0.26962 0.0000	-0.02587 0.7719	0.78207 0.0001	0.38614 0.0001	0.17541 0.0318	0.13269 0.1050	-0.87186 0.0001	0.94531 0.0001	0.97130 0.0001	-0.88930 0.0001	0.94839 0.0001	0.42197 0.0001
INFW	-0.28673 0.0004	0.20248 0.0130	0.08686 0.9143	0.77032 0.0001	0.30970 0.0001	0.20468 0.0120	0.08877 0.2911	-0.64996 0.0001	0.78246 0.0001	0.82568 0.0001	-0.57322 0.0001	0.78386 0.0001	0.34339 0.0001
VANGS	0.09539 0.2456	-0.05109 0.5346	-0.02734 0.7398	0.02230 0.7865	0.00368 0.9644	-0.06422 0.4349	-0.17171 0.0356	-0.08780 0.2854	0.03983 0.6265	0.03359 0.6832	-0.05781 0.4822	0.04324 0.5993	0.12873 0.1164
VANGB	-0.21227 0.1361	-0.09372 0.2540	-0.07426 0.3665	0.25187 0.0019	0.09668 0.2392	0.03656 0.6569	-0.05834 0.4782	-0.36416 0.0001	0.30627 0.0001	0.24912 0.0021	-0.26367 0.0011	0.25415 0.0017	0.09887 0.2207
MKWDL	0.25167 0.0019	0.17809 0.0292	0.27161 0.0008	-0.19875 0.0523	0.04247 0.6058	-0.00297 0.9712	0.08077 0.3258	0.09768 0.2344	-0.18723 0.0218	-0.28769 0.0108	0.11131 0.1751	-0.19878 0.0163	-0.00014 0.9987
SWINL	0.00335 0.9675	0.08630 0.9888	-0.09284 0.2585	-0.17177 0.0356	-0.28238 0.0062	-0.10604 0.1965	-0.05422 0.5099	0.31472 0.0001	-0.22425 0.0858	-0.18612 0.0226	0.23243 0.0042	-0.32142 0.0065	-0.18747 0.0405
LNWDRL	0.03464 0.6719	0.01887 0.8187	-0.04168 0.6126	-0.33157 0.0001	-0.24246 0.0026	-0.15222 0.0830	-0.08681 0.2908	0.02633 0.0001	-0.40422 0.0001	-0.36705 0.0001	0.29806 0.0002	-0.01108 0.0001	-0.22605 0.0054
MXLNL	0.27355 0.0007	0.16891 0.0388	0.19448 0.0171	-0.43159 0.0001	-0.14971 0.0675	-0.13118 0.1096	-0.00108 0.9895	0.43705 0.0001	-0.52250 0.0001	-0.51703 0.0001	0.53374 0.0001	-0.53733 0.0001	-0.17377 0.0334
MXWDL	0.22445 0.0058	0.19920 0.0517	0.27981 0.0005	-0.09887 0.2383	0.09869 0.2296	0.02827 0.7313	0.08678 0.2910	-0.00020 0.9973	-0.10521 0.2001	-0.13367 0.1030	0.02994 0.7121	-0.11368 0.1660	0.04651 0.5720
APXAN	0.04506 0.5840	-0.01955 0.8123	0.00987 0.9046	0.18240 0.0255	0.20283 0.0128	0.14355 0.0797	0.05279 0.5211	-0.36363 0.0001	0.33184 0.0001	0.30348 0.0002	-0.36333 0.0001	0.34563 0.0001	0.14647 0.0737
APXPS	0.03286 0.6897	-0.00634 0.9386	0.08218 0.3174	-0.20848 0.0105	-0.06747 0.4120	-0.08358 0.2865	-0.38058 0.3270	0.35043 0.0001	-0.30572 0.0001	-0.26582 0.0010	0.30898 0.0003	-0.29803 0.0003	-0.07557 0.3580
BSAN	-0.06124 0.4566	-0.02007 0.8074	0.07363 0.3706	0.41499 0.0001	0.88739 0.0004	0.17037 0.0371	0.10490 0.2014	-0.32818 0.0001	0.42586 0.0001	0.39872 0.0001	-0.84981 0.0026	0.46465 0.0001	0.10186 0.2149



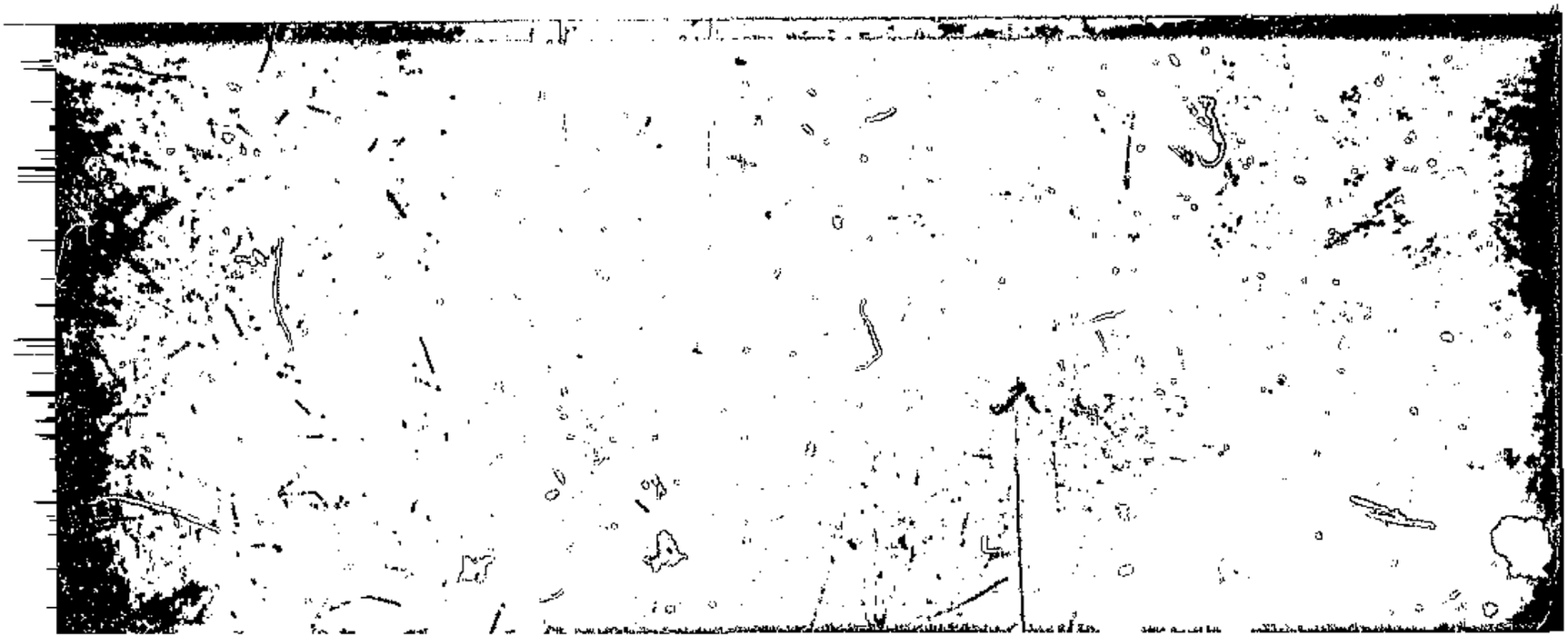
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN	TFLLN	DFRS	STMXLN	STMXLOL
BSPS	-0.06770 0.4104	-0.07866 0.3387	0.03719 0.6514	0.37998 0.0001	0.12936 0.1146	0.14046 0.0865	0.10971 0.1814	-0.21532 0.0081	0.28024 0.0005	0.27702 0.0006	-0.12252 0.1353	0.25575 0.0016	-0.09729 0.4862
SVINS	-0.14534 0.0987	-0.12710 0.1212	0.01660 0.8402	0.08130 0.3227	0.13642 0.0960	-0.06136 0.4557	-0.11957 0.1458	-0.09968 0.2249	0.07086 0.3913	0.05707 0.4879	-0.05075 0.5374	0.06449 0.4330	0.10046 0.2213
NSECV	-0.08027 0.3288	0.09630 0.2411	0.05654 0.4919	-0.31274 0.0001	0.02428 0.7681	-0.02029 0.8053	-0.06403 0.4363	0.14037 0.0867	-0.31339 0.0001	-0.31793 0.0001	0.09534 0.2458	-0.35551 0.0001	-0.08343 0.3101
PINSV	1.00000 0.0000	-0.02793 0.7348	0.08212 0.3178	-0.23302 0.0041	-0.02721 0.7410	-0.05383 0.5129	0.00312 0.9697	0.23230 0.0042	-0.23309 0.0041	-0.06970 0.0008	0.23595 0.0037	-0.21700 0.0076	-0.00298 0.9711
PTLLN	-0.02793 0.7348	1.00000 0.0000	-0.01777 0.8291	0.12772 0.1194	0.16794 0.0400	-0.01769 0.8299	0.13968 0.0882	-0.26454 0.0011	0.26351 0.0011	0.27270 0.0007	-0.36816 0.0001	0.26316 0.0011	0.08708 0.2893
INTLN	0.08212 0.3178	-0.01777 0.8291	1.00000 0.0000	-0.01131 0.8907	0.07221 0.3799	-0.10857 0.1860	-0.06865 0.4038	0.00534 0.9483	-0.01126 0.8913	0.00817 0.9209	-0.03057 0.7104	0.00354 0.9657	-0.06085 0.4595
NFLOR	-0.23302 0.0041	0.12772 0.1194	-0.01131 0.8907	1.00000 0.0000	0.16417 0.0447	0.06605 0.4220	0.03804 0.6439	-0.53880 0.0001	0.78733 0.0001	0.78853 0.8001	-0.84041 0.0801	0.75393 0.0001	0.21541 0.0081
CORLLN	-0.02721 0.7410	0.16794 0.0400	0.07221 0.3799	0.16417 0.0447	1.00000 0.0000	0.35925 0.0001	0.35729 0.0001	-0.28270 0.0005	0.38645 0.0001	0.38687 0.0001	-0.32659 0.0001	0.36868 0.0001	0.34169 0.0001
CORLWD	-0.05383 0.5129	-0.01769 0.8299	-0.10857 0.1860	0.06605 0.4220	0.35925 0.0001	1.00000 0.0000	0.50042 0.0001	-0.02126 0.7963	0.15270 0.0621	0.17227 0.0350	-0.01552 0.8505	0.17514 0.0321	0.10643 0.1949
CORTWD	0.00312 0.9697	0.13968 0.0882	-0.06865 0.4038	0.03804 0.6439	0.35729 0.0001	0.50042 0.0001	1.00000 0.0000	0.02812 0.7327	0.06953 0.3978	0.13974 0.0977	0.00897 0.9038	0.14941 0.0680	0.09040 0.2713
HASL	0.23230 0.0042	-0.26454 0.0011	0.00534 0.9483	-0.53880 0.0001	-0.28270 0.0005	-0.02126 0.7963	0.02812 0.7327	1.00000 0.0000	-0.78272 0.0001	-0.88882 0.0001	0.88821 0.0001	-0.69392 0.0001	-0.32834 0.0001
PAPMXLN	-0.23309 0.0041	0.26351 0.0011	-0.01126 0.8913	0.78733 0.0001	0.38645 0.0001	0.15270 0.0621	0.06953 0.3978	-0.78272 0.0001	1.00000 0.0000	0.94423 0.0001	-0.67452 0.0001	0.96454 0.0001	0.44833 0.0001
TFLLN	-0.26970 0.0008	0.27270 0.0007	0.00817 0.9209	0.78853 0.0001	0.38687 0.0001	0.17227 0.0350	0.13974 0.0977	-0.88882 0.0001	0.94423 0.0001	1.00000 0.0000	-0.81146 0.0001	0.86749 0.0801	0.42086 0.0001
DFRS	0.23595 0.0037	-0.36816 0.0001	-0.03057 0.7104	-0.84041 0.0001	-0.32659 0.0001	-0.01552 0.8505	0.00897 0.9038	0.88821 0.0001	-0.67452 0.0001	-0.81146 0.0001	1.00000 0.0000	-0.82457 0.0001	-0.29769 0.0002
STMXLN	-0.21700 0.0076	0.26316 0.0011	0.00354 0.9657	0.75393 0.0001	0.36868 0.0001	0.17514 0.0321	0.14941 0.0680	-0.69392 0.0001	0.96454 0.0001	0.86749 0.0001	-0.82457 0.0001	1.00000 0.0000	0.46236 0.0001
STMXLOL	-0.00298 0.9711	0.08708 0.2893	-0.06085 0.4595	0.21541 0.0081	0.34169 0.0001	0.10643 0.1949	0.09040 0.2713	-0.32834 0.0001	0.44833 0.0001	0.42086 0.0001	-0.29769 0.0002	0.46236 0.0001	1.00000 0.0000
STBLN	-0.18999 0.0199	0.01907 0.0071	0.02309 0.7791	0.54473 0.0001	0.28613 0.0004	0.05738 0.4856	0.18726 0.0218	-0.56918 0.0001	0.76064 0.0001	0.79019 0.0001	-0.51695 0.0001	0.79063 0.0001	0.38804 0.0001
STBWD	0.06189 0.4539	0.11028 0.1791	-0.02090 0.7998	0.19927 0.0145	0.08567 0.6116	0.26193 0.0012	0.34243 0.0001	-0.16660 0.0416	0.26286 0.0012	0.29237 0.0008	-0.14330 0.0802	0.31049 0.0001	0.21210 0.0092



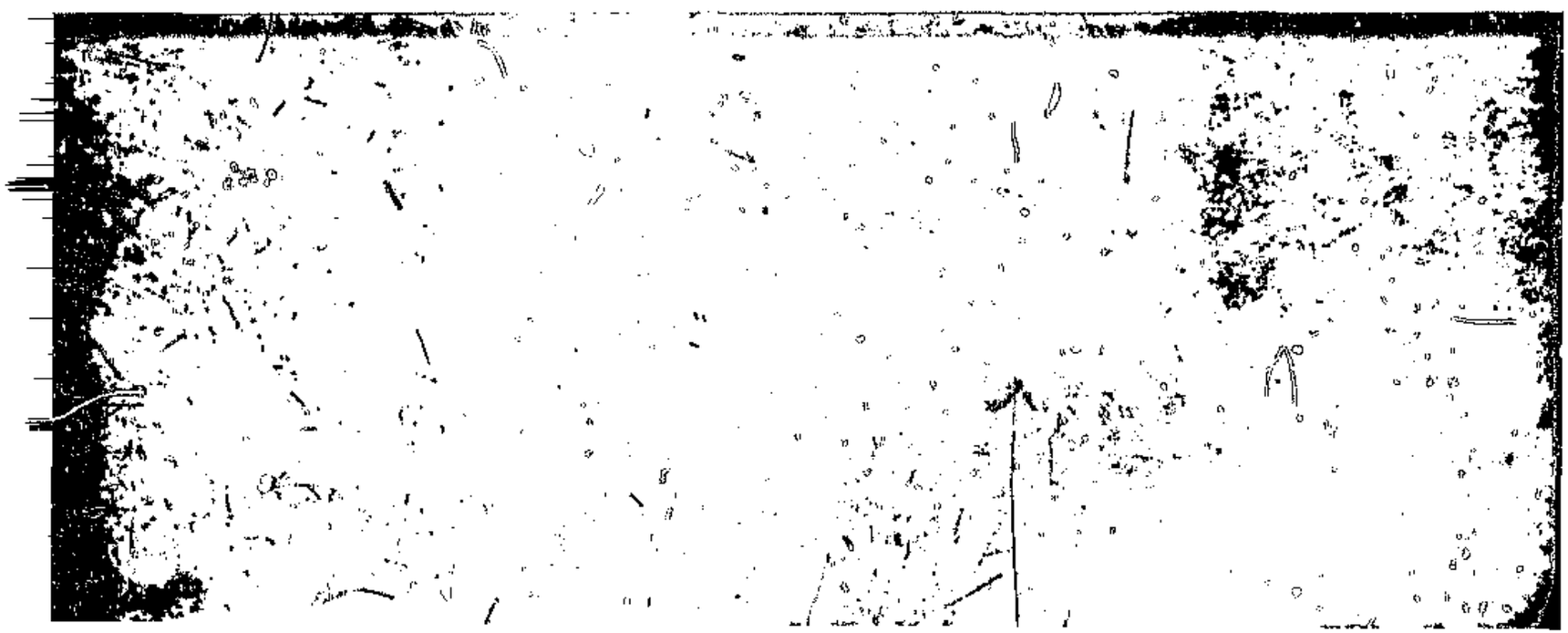
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN	TFLLN	DFRS	STMXLN	STMXLOL
ACMXLN	-0.33662 0.0001	0.11882 0.0286	0.82356 0.7748	0.40916 0.0001	0.29455 0.0017	0.13122 0.1095	0.19913 0.0518	-0.34563 0.0001	0.51971 0.0001	0.73484 0.0001	-0.28991 0.0003	0.55740 0.0001	0.14717 0.0723
ACMXWD	-0.14399 0.0788	0.12137 0.1390	-0.12079 0.1409	-0.00184 0.9822	0.17486 0.0323	0.12351 0.0001	0.33942 0.0001	-0.03304 0.6882	0.12515 0.1270	0.34853 0.0022	-0.03565 0.6649	0.16925 0.0384	0.09131 0.2665
AVPAC	-0.14352 0.0798	0.17097 0.0365	-0.00896 0.9907	0.47664 0.0001	0.19816 0.0151	0.25713 0.0015	0.09380 0.2536	-0.55245 0.0001	0.66402 0.0001	0.60041 0.0001	-0.55473 0.0001	0.64920 0.0001	0.33160 0.0001
CRMXLN	-0.18968 0.0201	0.86641 0.0010	0.03888 0.6366	0.76214 0.0001	0.38939 0.0001	0.16351 0.0456	0.13331 0.1039	-0.69904 0.0001	0.97198 0.0001	0.94389 0.0001	-0.63528 0.0001	0.97889 0.0001	0.48281 0.0001
CRMXWD	0.08399 0.3069	0.03277 0.6903	0.06456 0.4325	0.14092 0.0854	0.26079 0.0013	0.43095 0.0007	0.30645 0.0001	-0.10436 0.2037	0.86773 0.0009	0.29307 0.0003	-0.03727 0.6507	0.30587 0.0001	0.31583 0.0001
CRMNWD	0.16744 0.0406	-0.12790 0.1188	0.14927 0.0683	-0.10562 0.1981	0.12282 0.1343	0.35279 0.0001	0.22608 0.0054	0.15797 0.0535	-0.13259 0.1058	-0.15257 0.8523	0.10533 0.1996	-0.11919 0.1463	0.11415 0.1643
NWNOFHD	0.19769 0.0153	-0.08389 0.3074	0.08951 0.2760	-0.67871 0.0001	-0.14709 0.0725	-0.17681 0.0304	-0.03858 0.6392	0.52707 0.0001	-0.76218 0.0001	-0.07186 0.0001	0.41865 0.0001	-0.78216 0.0001	-0.28956 0.0003
IBLWR	-0.32493 0.0057	0.24303 0.0027	-0.05890 0.4740	0.64281 0.0001	0.34459 0.0001	0.06544 0.4263	0.02764 0.7371	-0.67897 0.0001	0.83748 0.0001	0.79715 0.0001	-0.68378 0.0001	0.79647 0.0001	0.20106 0.0002
OBLWR	-0.17779 0.0295	0.09296 0.2589	0.02238 0.7858	0.32944 0.0001	0.21154 0.0093	0.09928 0.9573	0.01895 0.8180	-0.42800 0.0001	0.48133 0.6801	0.61507 0.0007	-0.48568 0.0001	0.42088 0.0001	0.55208 0.0002
INVLWR	-0.11429 0.1638	0.08828 0.0088	-0.04966 0.5462	-0.18986 0.0200	0.27062 0.0008	-0.02057 0.8027	-0.01225 0.8817	-0.33979 0.0001	0.18495 0.0235	0.18172 0.0260	-0.41798 0.0001	0.15665 0.0556	0.13037 0.1118
CRLLWR	-0.31505 0.8550	0.18347 0.0246	0.13769 0.0929	0.14189 0.0833	0.82099 0.0001	-0.22892 0.0048	0.06951 0.3980	-0.28323 0.8004	0.31451 0.0001	0.29714 0.0002	-0.33496 0.0001	0.29869 0.0005	0.29869 0.0005
ACLWR	-0.28369 0.0004	0.11119 0.1755	0.88956 0.2757	0.43977 0.0003	0.17579 0.0314	-0.02618 0.7504	-0.00848 0.9160	-0.39037 0.0001	0.49891 0.0001	0.68806 0.0801	-0.28880 0.0003	0.81115 0.0001	0.10156 0.2162
CORLWR	-0.23467 0.0038	0.25893 0.0014	0.00876 0.9152	0.76087 0.0007	0.38875 0.0001	0.03291 0.6893	0.04049 0.6227	-0.70587 0.0001	0.93295 0.0001	0.89217 0.0001	-0.65342 0.0001	0.98738 0.0065	0.38225 0.0001
CORLMWR	-0.23319 0.0041	0.27228 0.0007	-0.02326 0.7776	0.72031 0.0001	0.30118 0.0002	0.01864 0.0209	0.03645 0.6404	-0.62493 0.0001	0.91972 0.0001	0.90069 0.0001	-0.61377 0.0001	0.91922 0.0001	0.37960 0.0001
STLLBR	-0.25260 0.0018	0.24511 0.0025	0.02117 0.7970	0.70510 0.0001	0.18647 0.0223	0.14227 0.0824	0.12492 0.1277	-0.57112 0.0001	0.77846 0.0001	0.78568 0.0001	-0.50012 0.0001	0.79702 0.0001	-0.15430 0.0594
TFLPLR	0.12582 0.1250	-0.23651 0.0036	0.03308 0.6878	-0.55411 0.0001	-0.24828 0.0022	-0.07224 0.3797	0.05742 0.4852	0.63025 0.0001	-0.79919 0.0001	-0.57484 0.0001	0.61277 0.0001	-0.67773 0.0001	-0.38063 0.0001
INFLWR	0.04628 0.5739	0.10545 0.1990	-0.01018 0.9016	-0.03622 0.6599	0.09443 0.2504	-0.07932 0.3346	0.09160 0.7930	0.03023 0.7135	0.21296 0.0089	0.17199 0.0353	-0.00702 0.9320	0.20999 0.0099	0.16268 0.0467
LRNFHR	-0.17264 0.0346	0.11607 0.1572	-0.03213 0.6963	0.70361 0.0001	0.29435 0.0003	0.18580 0.0228	0.10083 0.2195	-0.58138 0.0001	0.80547 0.0001	0.75339 0.0001	-0.49401 0.0001	0.78472 0.0001	0.34114 0.0001



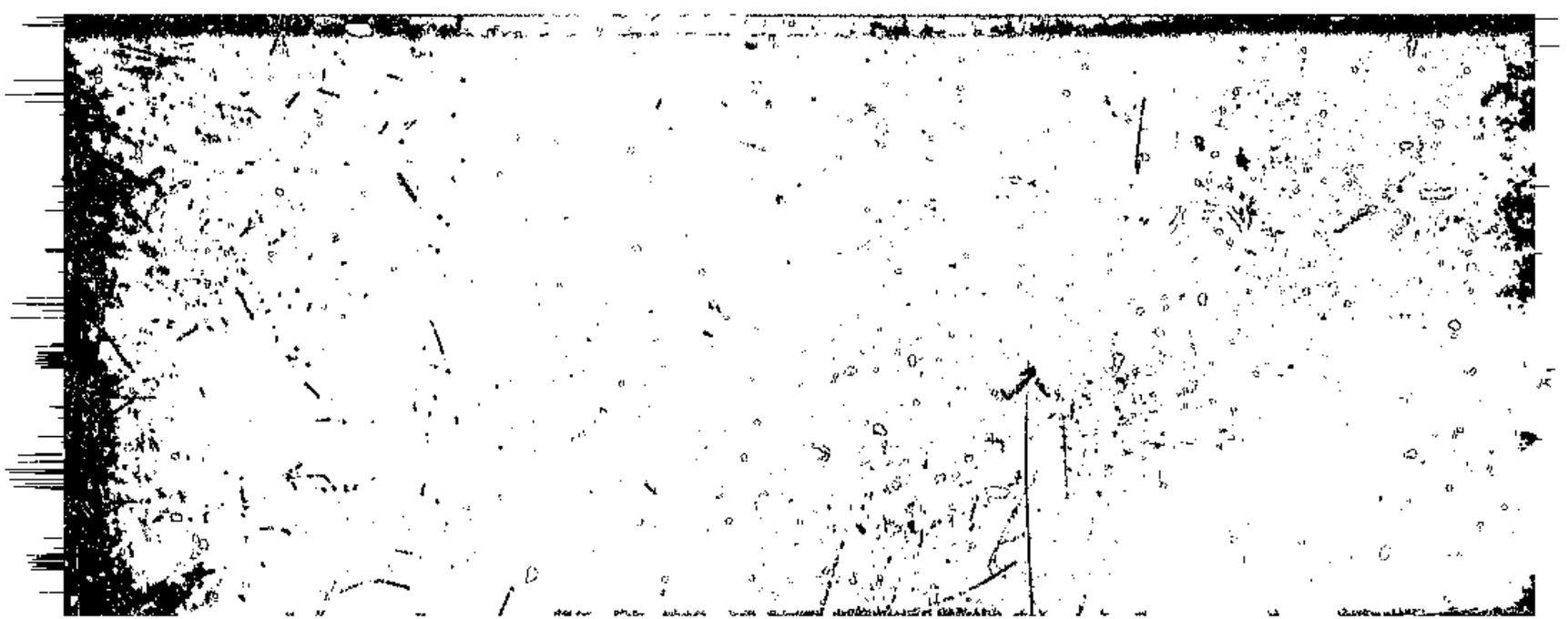
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD	NWNOFHO	IBLWR	OBLWR	INVLWR	CRLLWR
RACMLEN	-0.01399 0.8651	0.15211 0.0631	0.10353 0.2074	-0.01039 0.8996	-0.12766 0.1195	-0.01540 0.0518	0.18916 0.1836	-0.05195 0.5278	0.43311 0.0001	-0.07755 0.3456	-0.08186 0.3193	-0.11526 0.1602	0.12963 0.1133
INTRDLN	-0.05442 *0.5083*	0.15118 *0.0648*	-0.08627 *0.2939*	-0.15876 *0.0523*	0.03592 *0.6625*	0.07740 *0.. 55*	0.23863 *0.0033*	0.06520 *0.4280*	0.13364 0.1030	-0.01150 0.8889	-0.06120 0.4969	-0.13835 0.0913	0.16614 0.0422
NBR	0.64996 0.0001	0.33835 0.0001	0.43275 0.0001	0.09540 0.2455	0.55070 0.0001	0.89460 0.0001	0.22359 0.0060	-0.07788 0.3435	-0.64278 0.0001	0.72985 0.0001	0.37953 0.0001	0.23835 0.0036	0.28650 0.0300
IBRL	0.74182 0.0001	0.24768 0.0022	0.81862 0.0001	0.14126 0.0847	0.62315 0.0001	0.95581 0.0001	0.29236 0.0018	-0.12723 0.1208	-0.79481 0.0001	0.84321 0.0001	0.40328 0.0001	0.16641 0.0418	0.30570 0.0001
OBRL	0.65799 0.0001	0.26719 0.0110	0.41944 0.0001	0.11442 0.1638	0.60526 0.0001	0.82687 0.0001	0.17899 0.0332	-0.11086 0.1788	-0.70319 0.0001	0.69863 0.0001	0.34635 0.0001	-0.02680 0.7487	0.05468 0.5063
IBRW	0.30020 0.0002	0.22812 0.0050	0.11417 0.1642	0.20536 0.0117	0.36470 0.0001	0.38487 0.0001	0.43268 0.0001	0.09185 0.2836	-0.44808 0.0001	-0.11227 0.1714	-0.15851 0.0527	-0.39383 0.0001	-0.03954 0.6309
OBRW	0.56982 0.0001	0.20053 0.0139	0.33932 0.0001	0.17991 0.0276	0.55294 0.0001	0.71255 0.0001	0.C..24 0.0063	-0.09015 0.2726	-0.65514 0.0001	0.53810 0.0001	-0.03423 0.6775	-0.17164 0.0357	-0.01314 0.8732
INMXL	0.73830 0.0001	0.34693 0.0023	0.51853 0.0001	0.13380 0.1026	0.60277 0.0001	0.93648 0.0001	0.24621 0.0024	-0.13982 0.0879	-0.75124 0.0001	0.82145 0.0001	0.39267 0.0001	0.18668 0.0220	0.29671 0.0002
INMXW	0.69157 0.0001	0.29277 0.0003	0.48378 0.0001	0.15223 0.0629	0.58910 0.0001	0.86602 0.0001	0.39846 0.0001	-0.02939 0.8044	-0.77191 0.0001	0.64653 0.0001	0.89545 0.0016	-0.20261 0.0129	0.21898 0.0068
PMXL	0.58123 0.0001	0.17648 0.0300	0.39175 0.0001	0.07723 0.3475	0.52981 0.0001	0.80423 0.0001	0.11537 0.1598	-0.07669 0.3510	-0.51718 0.0001	0.55198 0.0001	0.39139 0.0001	0.15532 0.0577	0.08110 0.3839
LBRP	0.47767 0.0001	0.11898 0.1470	0.33176 0.0001	-0.01608 0.9025	0.49859 0.0001	0.60236 0.0001	-0.00074 0.9928	-0.10151 0.2165	-0.44469 0.0001	0.54981 0.0001	0.34338 0.0001	0.18296 0.0617	0.12408 0.1303
INFL	0.78241 0.0001	0.29679 0.0002	0.68163 0.0001	0.22797 0.0050	0.59588 0.0001	0.93767 0.0001	0.28280 0.0005	-0.13963 0.0883	-0.70255 0.0001	0.79393 0.0001	0.39341 0.0001	0.16161 0.0482	0.29813 0.0002
INFW	0.66156 0.0001	0.32956 0.0001	0.64294 *0.0001*	0.19491 *0.0168*	0.54232 *0.0001*	0.77309 *0.0001*	0.32887 *0.0001*	-0.06937 *0.3989*	-0.59553 *0.0001*	0.61631 *0.0001*	0.83937 0.0001	-0.06592 0.4229	0.20193 0.0132
VANGS	0.04832 0.5571	-0.00586 0.9432	0.00134 0.9870	-0.05837 0.4781	0.00477 0.9538	0.03896 0.6359	0.08048 0.3278	0.10628 0.1955	-0.02069 0.8015	0.00599 0.9420	0.05268 0.5221	0.00089 0.9913	0.62837 0.7308
VANGB	0.31539 0.0001	-0.00169 0.9836	0.11152 0.1743	0.10971 0.1979	0.13792 0.0923	0.26388 0.0004	-0.04450 0.5687	-0.05924 0.4714	-0.23423 0.0087	0.36938 0.0001	0.19218 0.0185	0.16804 0.0395	0.08083 0.3255
MHWDL	-0.16219 0.0257	-0.02151 0.7938	-0.18537 0.0231	-0.04105 0.6180	-0.15756 0.0542	-0.17907 0.0283	0.07288 0.3754	0.14522 0.0762	0.28403 0.0026	-0.21492 0.0083	-0.12354 0.1320	-0.05675 0.4903	0.03794 0.6448
SHINL	-0.20538 0.0117	-0.02736 0.7396	0.00105 0.9898	0.17283 0.0344	-0.25133 0.0019	-0.25482 0.0017	-0.06106 0.4579	0.03447 0.6754	0.21[illegible] 0.008[illegible]	-0.21056 0.0097	-0.17093 0.0305	-0.01552 0.8505	-0.16358 0.0455



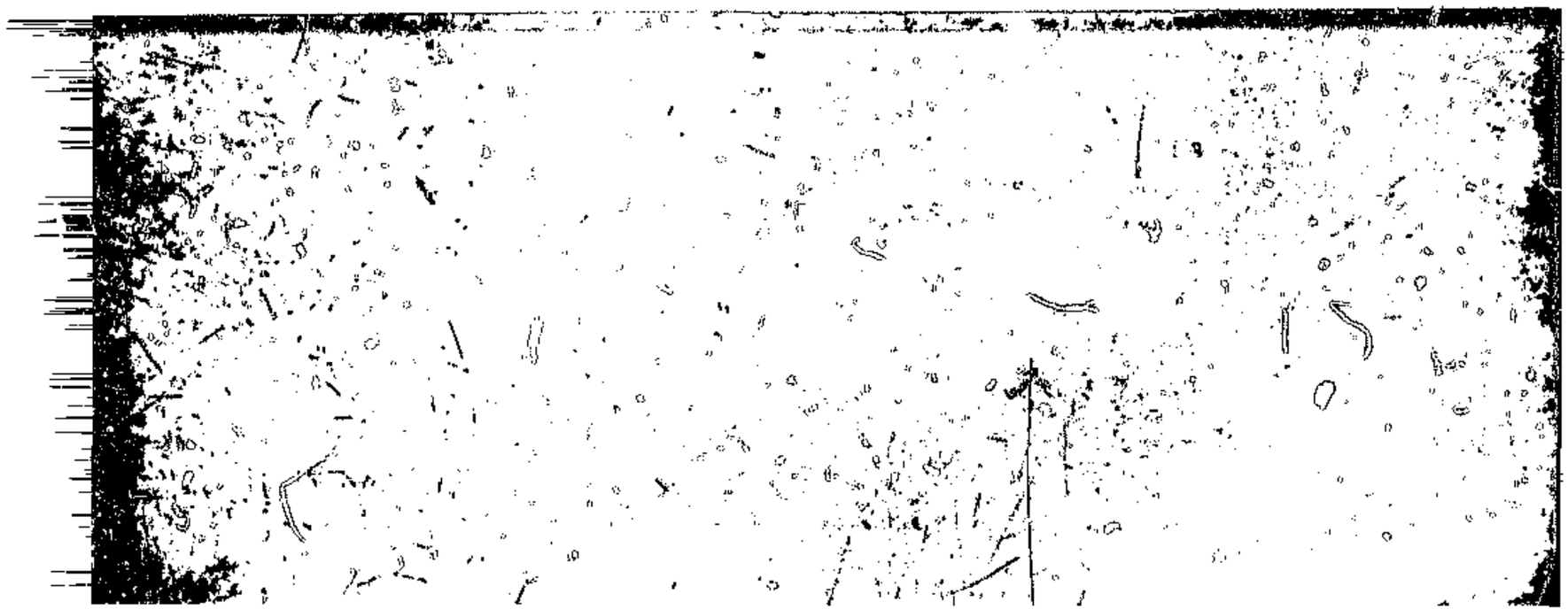
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / N = 150

	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR
LNWDRL	-0.13880 0.0001	-0.15185 0.0636	-0.10964 0.1817	0.07983 0.3315	-0.34338 0.0001	-0.42249 0.0001	-0.31366 0.0087	-0.01908 0.8167	0.33391 0.0001	-0.09815 0.0601	-0.16908 0.0387	0.03950 0.7110	-0.15679 0.0554
MXLNL	-0.43704 0.0001	-0.15927 0.0516	-0.28855 0.0003	-0.01159 0.8880	-0.43947 0.0001	-0.52676 0.0001	-0.13286 0.1051	0.12074 0.1411	0.51678 0.0001	-0.45898 0.0001	-0.23467 0.0038	-0.02188 0.7904	-0.07870 0.3384
MXWDL	-0.11303 0.1685	-0.01044 0.8991	-0.16608 0.0422	-0.08247 0.3157	-0.06542 0.4264	-0.08954 0.2758	0.08657 0.2922	0.11514 0.1606	0.15811 0.0533	-0.13597 0.0971	-0.06290 0.4444	-0.04601 0.5761	0.07741 0.3464
APXAN	0.31550 0.0001	0.23903 0.0032	0.06458 0.4302	0.01398 0.8652	0.32908 0.0001	0.35658 0.0001	0.24933 0.0028	0.03185 0.6980	-0.28548 0.0004	0.22422 0.0058	0.00414 0.9599	0.32258 0.7839	0.11528 0.1684
APXPS	-0.25491 0.0016	-0.10346 0.1865	-0.10791 0.1887	-0.14959 0.0677	-0.36873 0.0001	-0.38530 0.0001	-0.10829 0.1872	0.30607 0.9413	0.04763 0.0022	-0.23122 0.8004	-0.02853 0.7267	-0.00947 0.9085	-0.01809 0.8167
BSAN	0.31201 0.0001	0.13397 0.1022	0.23353 0.0040	0.07300 0.3747	0.20942 0.0101	0.42483 0.0001	0.20460 0.0120	0.05209 0.5267	-0.30668 0.0001	0.37053 0.0001	0.16571 0.0229	0.09605 0.9414	0.18061 0.0270
BSPS	0.17663 0.0306	0.15933 0.0515	0.26215 0.0012	0.08059 0.3269	0.03859 0.6392	0.27594 0.0006	0.07522 0.3602	0.11369 0.1586	-0.22819 0.0050	0.28128 0.0012	0.18241 0.0255	-0.09969 0.4684	0.04132 0.6156
SVINS	0.10707 0.1522	-0.04801 0.5928	-0.01880 0.8194	-0.06962 0.3973	0.04286 0.6025	0.09843 0.2308	0.05254 0.5231	-0.04904 0.5512	-0.03913 0.6345	0.09247 0.2804	0.01271 0.8774	0.03728 0.7484	0.18609 0.0226
NSECV	-0.27434 0.0007	-0.20212 0.0131	-0.15167 0.0639	0.06763 0.4109	-0.30292 0.0002	-0.30595 0.0001	-0.18312 0.2092	0.06010 0.4076	0.36038 0.0001	-0.22590 0.0054	-0.12154 0.1385	0.20742 0.0109	0.04162 0.6131
PINSV	-0.18999 0.0199	0.06189 0.4519	-0.33662 0.0001	-0.14399 0.0708	-0.14392 0.0798	-0.18960 0.0201	0.08399 0.3069	0.18744 0.0406	0.19769 0.0153	-0.22493 0.0057	-0.17779 0.0895	-0.11429 0.1638	-0.01505 0.8550
PTLLN	0.81927 0.0071	0.11028 0.1791	0.17882 0.0286	0.12137 0.1390	0.17097 0.0365	0.26541 0.0010	0.03277 0.6906	-0.12790 0.1188	-0.08389 0.3074	0.04303 0.0027	0.09276 0.2589	0.24280 0.0008	0.18347 0.0246
INTLN	0.02309 0.7791	-0.02090 0.7996	0.82356 0.7740	-0.12079 0.1409	-0.00096 0.9907	0.83888 0.6366	0.06456 0.4325	0.14927 0.0683	0.00951 0.2780	-0.09890 0.4740	0.02238 0.7850	-0.04966 0.5462	0.13769 0.0929
NFLOR	0.59473 0.0001	0.19927 0.0145	0.46916 0.0001	-0.00184 0.9822	0.47664 0.0001	0.76214 0.0001	0.14092 0.0854	-0.10562 0.1983	-0.87871 0.0001	0.84831 0.0001	0.32944 0.0001	-0.18906 0.0200	0.14189 0.0833
CORLLN	0.28613 0.0004	0.20567 0.2116	0.25455 0.0017	0.17408 0.0323	0.19816 0.0191	0.38939 0.0001	0.26079 0.0213	0.12282 0.1343	-0.14789 0.0729	0.34459 0.0001	0.21164 0.0093	0.27062 0.0008	0.82059 0.0001
CORLWD	0.05738 0.4056	0.26193 0.0012	0.13722 0.1095	0.32351 0.0001	0.25713 0.0015	0.16351 0.0456	0.43095 0.0087	0.39279 0.0001	-0.17631 0.0304	0.06544 0.4263	0.00028 0.9973	-0.08057 0.0027	-0.22892 0.8048
CORTWD	0.18726 0.0210	0.34243 0.0001	0.15913 0.0518	0.33848 0.0001	0.05360 0.2536	0.13381 0.1039	0.38645 0.0001	0.28608 0.0054	-0.01858 0.6392	0.02764 0.7371	0.07895 0.8180	-0.01225 0.8817	0.06951 0.3980
HASL	-0.58918 0.0001	-0.16660 0.0416	-0.34963 0.0001	-0.03304 0.6882	-0.85245 0.0001	-0.69994 0.0001	-0.10486 0.2037	0.15797 0.0535	0.52707 0.0001	-0.67897 0.0081	-0.42809 0.8001	-0.33979 0.0001	-0.28329 0.0084
PAPMXLN	0.76064 0.0001	0.26288 0.0012	0.51971 0.0001	0.12515 0.1270	0.66402 0.0001	0.87198 0.0001	0.26773 0.0009	-0.13259 0.1058	-0.76210 0.0001	0.83748 0.0001	0.42133 0.0001	0.10495 0.0235	0.31451 0.0001



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR
TFLLN	0.89019 0.0001	0.29237 0.0003	0.78444 0.0001	0.24853 0.0022	0.80041 0.0001	0.94309 0.0001	0.29307 0.0003	-0.15257 0.0623	-0.67186 0.0001	0.79715 0.0001	0.41597 0.0001	0.18172 0.0260	0.29714 0.0002
DFRS	-0.51696 0.0001	-0.14330 0.0802	-0.28991 0.0003	-0.03565 0.6649	-0.55473 0.0001	-0.63528 0.0001	-0.03727 0.6507	0.10533 0.1996	0.41665 0.0001	-0.63370 0.0001	-0.42586 0.0001	-0.41798 0.0001	-0.33496 0.0001
STMXLN	0.79063 0.0001	0.31049 0.0001	0.55740 0.0001	0.16925 0.0384	0.64960 0.0001	0.97880 0.0001	0.30587 0.0001	-0.11919 0.1463	-0.72216 0.0001	0.79847 0.0001	0.42008 0.0001	0.15665 0.0556	0.27909 0.0005
STMXLOL	0.38804 0.0801	0.21818 0.0092	0.14717 0.0723	0.09131 0.2065	0.33160 0.0001	0.46281 0.0001	0.31563 0.0001	0.11415 0.1643	-0.28858 0.0003	0.38186 0.0002	0.15206 0.0632	0.13037 0.1118	0.29380 0.0003
STBLN	1.00000 0.0000	0.23006 0.0046	0.53568 0.0001	0.20781 0.0107	0.54813 0.0001	0.77953 0.0001	0.26200 0.0012	-0.07493 0.3021	-0.55524 0.0001	0.62155 0.0001	0.35312 0.0001	0.11950 0.1452	0.26434 0.0011
STBWD	0.23006 0.0046	1.00000 0.0000	0.18016 0.0274	0.14599 0.0747	0.27180 0.0008	0.29523 0.0002	0.51572 0.0001	0.28156 0.0044	-0.16575 0.0427	0.15587 0.0568	0.03125 0.7042	-0.09158 0.2650	-0.05736 0.4857
ACMXLN	0.53566 0.0001	0.18016 0.0274	1.00000 0.0000	0.42710 0.0001	0.23338 0.0041	0.60050 0.0001	0.17891 0.0285	-0.17303 0.0342	-0.20247 0.0005	0.46587 0.0001	0.25160 0.0019	0.16550 0.1980	0.17273 0.0345
ACMXWD	0.20781 0.0107	0.14599 0.0747	0.42710 0.0001	1.00000 0.0000	0.10325 0.2086	0.13085 0.1105	0.32401 0.0001	0.16345 0.0457	-0.01527 0.0928	0.01102 0.8935	-0.13733 0.0938	-0.02758 0.7376	-0.01856 0.8217
NVPAC	0.54813 0.0001	0.27180 0.0008	0.23338 0.0041	0.10325 0.2086	1.00000 0.0000	0.63626 0.0001	0.37721 0.0001	0.04046 0.6230	-0.57485 0.0001	0.47121 0.0001	0.24909 0.0021	0.07511 0.3610	0.05277 0.5213
CRMXLN	0.77053 0.0001	0.29528 0.0002	0.50850 0.0001	0.13085 0.1105	0.63626 0.0001	1.00000 0.0000	0.30238 0.0002	-0.09802 0.2205	-0.73707 0.0001	0.80920 0.0001	0.40321 0.0001	0.18004 0.0504	0.31047 0.0001
CRMXWD	0.26200 0.0012	0.51572 0.0001	0.17891 0.0285	0.32401 0.0001	0.37721 0.0001	0.30238 0.0002	1.00000 0.0000	0.43080 0.0001	-0.22515 0.0056	0.03347 0.6843	-0.08410 0.3062	-0.02903 0.0048	0.31608 0.8452
CRMNWD	-0.07493 0.3621	0.28156 0.0044	-0.17303 0.0342	0.16345 0.0457	0.04046 0.6230	-0.09892 0.2285	0.43080 0.0001	1.00000 0.0000	0.10104 0.2186	-0.19250 0.0103	-0.06742 0.4124	-0.23060 0.0045	-0.08738 0.2877
NWNOFHD	-0.55524 0.0001	-0.16575 0.0427	-0.20247 0.0005	-0.01527 0.0928	-0.57485 0.0001	-0.73707 0.0001	-0.22515 0.0056	0.10104 0.2186	1.00000 0.0000	-0.80041 0.0001	-0.20555 0.0116	0.10873 0.1854	-0.05349 0.5156
IBLWR	0.62155 0.0001	0.15587 0.0568	0.46587 0.0001	0.01102 0.8935	0.47121 0.0001	0.80920 0.0001	0.03347 0.6243	-0.19250 0.0183	-0.80041 0.0001	1.00000 0.0000	0.51852 0.0001	0.39709 0.0001	0.32002 0.0001
OBLWR	0.35312 0.0001	0.03125 0.7042	0.25160 0.0019	-0.13733 0.0938	0.24909 0.0021	0.40321 0.0001	-0.08410 0.3062	-0.06742 0.4124	-0.20555 0.0116	0.51852 0.0001	1.00000 0.0000	0.39809 0.0001	0.21764 0.0075
INVLWR	0.11950 0.1452	-0.09158 0.2650	0.16550 0.1988	-0.02758 0.7376	0.07511 0.3610	0.18004 0.0504	-0.02903 0.0040	-0.23060 0.0045	0.10873 0.1854	0.39709 0.0001	0.39809 0.0001	1.00000 0.0000	0.29967 0.0002
CRLLWR	0.26434 0.0011	0.05736 0.4857	0.17273 0.0345	-0.01856 0.8217	0.05277 0.5213	0.31047 0.0001	0.01608 0.8452	-0.08738 0.2877	-0.05349 0.5156	0.32002 0.0001	0.21764 0.0075	0.29967 0.0002	1.00000 0.0000
ACLWR	0.47091 0.0001	0.13411 0.1018	0.86806 0.0001	-0.06510 0.4206	0.20419 0.0122	0.47627 0.0001	0.03725 0.7042	-0.28024 0.0005	-0.29704 0.0002	0.49589 0.0001	0.33866 0.0001	0.12799 0.1186	0.18752 0.0216



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

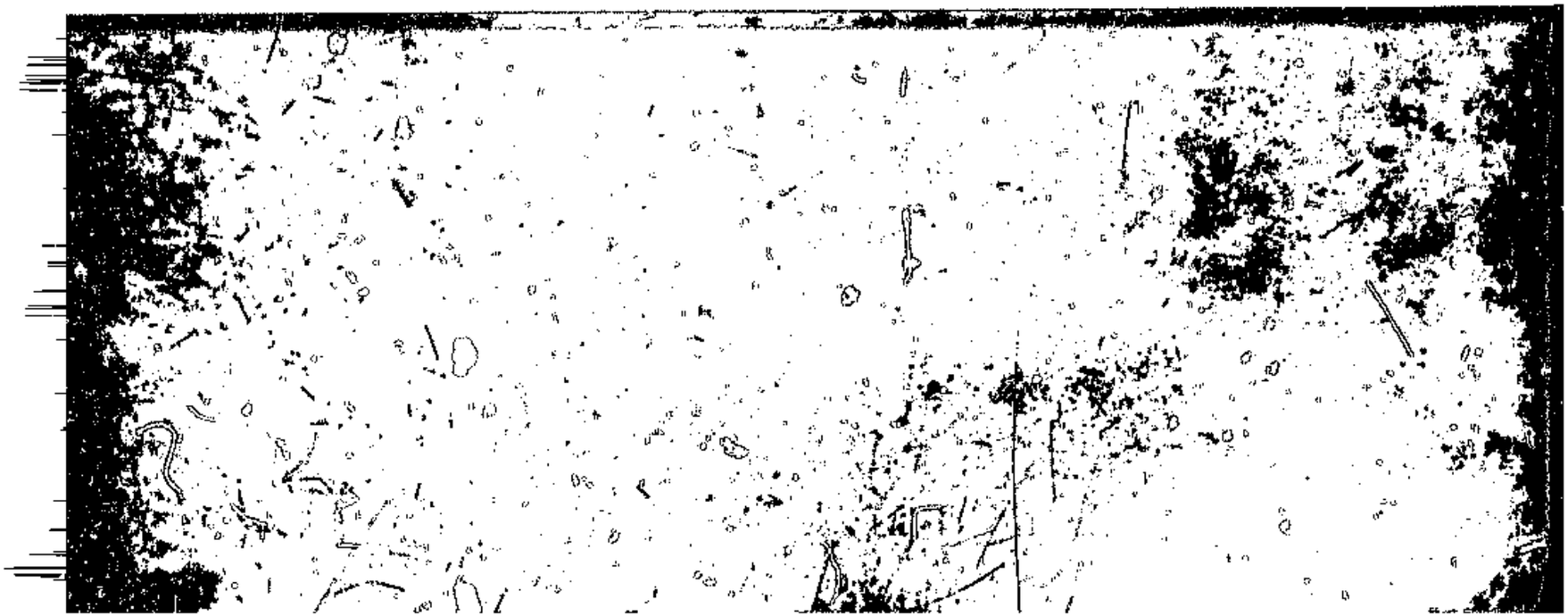
	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR
CORLWR	0.73473 0.0001	0.15300 0.0616	0.46845 0.0001	0.02891 0.7254	0.87276 0.0001	0.99099 0.0001	0.00023 0.9978	-0.24177 0.0029	-0.70740 0.0001	0.89728 0.0001	0.45132 0.0001	0.23618 0.0036	0.39389 0.0002
CORLMWR	0.72807 0.0001	0.18746 0.0216	0.83154 0.0001	0.06821 0.4098	0.56445 0.0001	0.93219 0.0001	0.12573 0.1253	-0.43964 0.0001	-0.69614 0.0001	0.80078 0.0001	0.38646 0.0007	0.23659 0.0036	0.38718 0.0001
STLLBR	0.60748 0.0001	0.22939 0.0047	0.50527 0.0001	0.10352 0.2075	0.49814 0.0001	0.77320 0.0001	0.11616 0.1569	-0.21455 0.0084	-0.68282 0.0001	0.69632 0.0001	0.36958 0.0001	0.09965 0.2250	0.10988 0.1807
TFLPLR	-0.49446 0.0001	-0.13456 0.1006	-0.80773 0.9252	0.14653 0.0756	-0.59367 0.0001	-0.73952 0.0001	-0.13677 0.0951	0.06663 0.4180	0.71368 0.0001	-0.33647 0.0001	-0.38237 0.0003	-0.12667 0.1224	-0.23074 0.0045
INFLWR	0.14102 0.0852	-0.09640 0.2806	-0.01597 0.8462	-0.00233 0.9774	0.06268 0.4446	0.21420 0.0085	-0.12323 0.1330	-0.09505 0.2473	-0.14527 0.0761	0.24431 0.0026	0.08236 0.3163	0.39261 0.0001	0.14642 0.0738
LANFHR	0.61012 0.0001	0.25841 0.0014	0.39340 0.0001	0.08133 0.3225	0.62821 0.0001	0.79891 0.0001	0.33879 0.0001	-0.10026 0.2222	-0.67820 0.0001	0.63205 0.0001	0.23768 0.0034	-0.03951 0.6312	0.19124 0.0191

	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LANFHR
RACMLEN	0.11563 0.1588	-0.05477 0.5056	-0.00204 0.9802	-0.05053 0.5392	0.17412 0.0331	-0.08862 0.3032	-0.13177 0.1080
INTNDLN	-0.01194 0.8847	0.00191 0.9815	0.04291 0.6017	-0.10589 0.1972	-0.07888 0.3422	0.83089 0.7102	0.06428 0.4345
NBR	0.41388 0.0001	0.80773 0.0001	0.77876 0.0001	0.61948 0.0001	-0.83802 0.0001	0.17638 0.0308	0.70256 0.0001
IBRL	0.48210 0.0001	0.92097 0.0001	0.90153 0.0001	0.76932 0.0001	-0.75245 0.0001	0.25456 0.0017	0.81334 0.0001
OBRL	0.38560 0.0001	0.80947 0.0001	0.77477 0.0001	0.74890 0.0001	-0.64164 0.0001	0.19354 0.0176	0.73168 0.0001
IBRW	0.01114 0.8923	0.28181 0.0005	0.81151 0.0001	0.36952 0.0013	-0.36982 0.0001	0.33562 0.6652	0.44164 0.5001
OBRW	0.27045 0.0008	0.67963 0.0001	0.66903 0.0001	0.64172 0.0001	-0.56478 0.0001	0.17415 0.0331	0.68237 0.0001
INMXL	0.48625 0.0001	0.90408 0.0001	0.88978 0.0001	0.74799 0.0001	-0.73083 0.0001	0.26752 0.0009	0.80918 0.0001
INMXW	0.44349 0.0001	0.79669 0.0001	0.78288 0.0001	0.89197 0.0001	-0.67256 0.0001	0.84728 0.5650	0.82193 0.0001
PMXL	0.38730 0.0001	0.59981 0.0001	0.57494 0.0001	0.53426 0.0001	-0.49835 0.0001	0.00933 0.9098	0.65056 0.0001
LBRP	0.36518 0.0001	0.63892 0.0001	0.58341 0.0001	0.54224 0.0001	-0.49550 0.0001	0.15159 0.0641	0.48569 0.0001



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFWR
INFL	0.61504 0.0001	0.89136 0.0001	0.89192 0.0001	0.76800 0.0001	-0.63025 0.0001	0.20036 0.0140	0.78390 0.0001
INFW	0.39689 0.0001	0.70706 0.0001	0.71749 0.0001	0.551[illegible] 0.0001	-0.51628 0.0001	-0.34451 0.0001	0.64891 0.0001
VANGS	0.02593 0.7528	0.00920 0.9117	0.00388 0.9624	-0.05006 0.5430	-0.20381 0.9709	0.04240 0.6065	0.06457 0.4324
VANGB	0.04787 0.5608	0.31206 0.0001	0.27581 0.0006	0.22547 0.0055	-0.28305 0.0004	0.09377 0.2537	0.28532 0.0004
MHWDL	-0.19432 0.0172	-0.22111 0.0065	-0.21770 0.0074	-0.21706 0.0076	0.10082 0.2196	0.00173 0.9832	-0.16421 0.0446
SHINL	-0.08251 0.3155	-0.23910 0.0032	-0.22550 0.0055	-0.14454 0.0776	0.23480 0.0038	0.10925 0.1832	-0.25366 0.0017
LNWDRL	-0.15131 0.0646	-0.36989 0.0001	-0.35952 0.0001	-0.31632 0.0001	0.35793 0.0001	0.08396 0.3070	-0.39762 0.0001
MXLNL	-0.31103 0.0001	-0.51448 0.0001	-0.51087 0.0001	-0.40643 0.0001	0.38318 0.0001	0.05798 0.4810	-0.49708 0.0001
MXWDL	-0.15172 0.0638	-0.13333 0.1038	-0.13035 0.1119	-0.15457 0.0589	0.02824 0.7316	-0.03256 0.6925	-0.07463 0.3640
APXAN	0.06117 0.5425	0.29850 0.0002	0.30715 0.0001	0.29265 0.0003	-0.30025 0.0002	-0.08971 0.2750	0.30504 0.0001
APXPS	-0.03088 0.7076	-0.29550 0.0002	-0.27539 0.0006	-0.28609 0.0004	0.30964 0.0001	-0.01975 0.8104	-0.24935 0.0021
BSAN	0.38263 0.8729	0.66647 0.0001	0.66272 0.0001	0.38579 0.0001	-0.30999 0.0001	-0.01224 0.8818	0.39819 0.0001
BSPS	0.24135 0.0029	0.26642 0.0010	0.21044 0.0097	0.32461 0.0001	-0.17175 0.0356	-0.04943 0.5481	0.28177 0.0005
SVINS	0.01530 0.8528	0.08345 0.3160	0.11961 0.1449	0.01257 0.8786	-0.07375 0.3698	-0.07262 0.3772	0.07823 0.3413
NSECV	-0.31143 0.0094	-0.29090 0.0003	-0.29850 0.0002	-0.34008 0.0001	0.22191 0.0003	0.00254 0.9754	-0.33247 0.0001
PINSV	-0.08369 0.0004	-0.23467 0.0038	-0.23319 0.6041	-0.25280 0.0018	0.12582 0.1250	0.04628 0.5738	-0.17264 0.0346
FILLN	0.11119 0.1755	0.25893 0.0014	0.27228 0.0007	0.24511 0.0025	-0.23657 0.0036	0.10545 0.1990	0.31607 0.1512
INTLN	0.38956 0.2757	0.00876 0.0152	-0.02326 0.7776	0.02117 0.7970	0.03808 0.6878	-0.01818 0.9018	-0.03213 0.6963



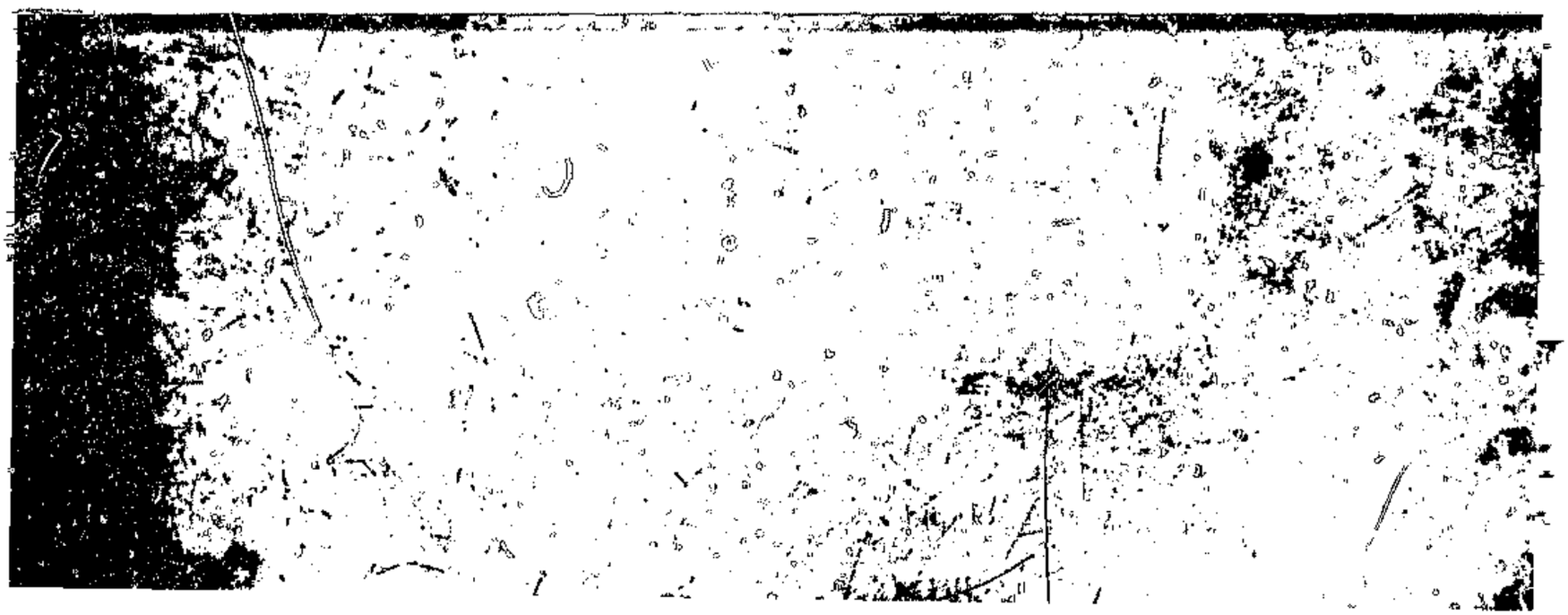
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	AGLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFWR
NFLOR	0.43977 0.0001	0.76087 0.0001	0.72001 0.0001	0.70510 0.0001	-0.59411 0.0001	-0.03622 0.6599	0.70361 0.0001
CORLLN	0.17579 0.0314	0.30675 0.0001	0.30110 0.0002	0.18647 0.0223	-0.24828 0.0022	0.09443 0.2504	0.29435 0.0003
CORLWD	-0.02618 0.7504	0.53291 0.6893	0.01864 0.8209	0.14227 0.0824	-0.07224 0.3797	-0.07932 0.3346	0.18580 0.0228
CORTWD	-0.00848 0.9180	0.04049 0.6227	0.03845 0.6404	0.12492 0.1277	0.05742 0.4852	0.02160 0.7930	0.10083 0.2195
HASL	-0.35937 0.0001	-0.70687 0.0001	-0.68423 0.0001	-0.57112 0.0001	0.03025 0.0001	0.03023 0.7135	-0.58138 0.0001
PAPMXLN	0.49251 0.0001	0.93895 0.0001	0.91972 0.0001	0.77046 0.0001	-0.79919 0.0001	0.21295 0.0089	0.80547 0.0001
TFLLN	0.66308 0.0001	0.89213 0.0001	0.90069 0.0001	0.78568 0.0001	-0.57484 0.0001	0.17199 0.0353	0.75339 0.0001
DFRS	-0.28880 0.0003	-0.65342 0.0001	-0.61377 0.0001	-0.50912 0.0001	0.61277 0.0001	-0.00702 0.9320	-0.49401 0.0001
STMXLN	0.51115 0.0001	0.92738 0.0001	0.81922 0.0001	0.79702 0.0001	-0.67773 0.0001	0.00999 0.0099	0.78472 0.0001
STMXLOL	0.10156 0.2162	0.38225 0.0001	0.37560 0.0001	-0.15430 0.0594	-0.38063 0.0001	0.16268 0.0467	0.34114 0.0001
STBLN	0.47001 0.0001	0.73473 0.0001	0.72803 0.0001	0.60748 0.0001	-0.49446 0.0001	0.14102 0.0852	0.61012 0.0001
STBWD	0.13411 0.1018	0.15300 0.0616	0.18746 0.0216	0.22939 0.0047	-0.13456 0.1006	-0.09640 0.2406	0.25841 0.0014
ACMXLN	0.86806 0.0001	0.46848 0.0001	0.52154 0.0001	0.50527 0.0001	-0.00773 0.9252	-0.01597 0.8466	0.39340 0.0001
ACMXWD	-0.06510 0.4286	0.02891 0.7254	0.06221 0.4495	0.10352 0.2075	0.14553 0.0756	-0.00233 0.9774	0.08133 0.3225
NVPAC	0.20419 0.0122	0.87276 0.0001	0.86445 0.0001	0.49514 0.0001	-0.59367 0.0001	0.06288 0.4446	0.69421 0.0001
CRMXLN	0.47827 0.0001	0.95059 0.0001	0.93219 0.0001	0.77320 0.0001	-0.73952 0.0001	0.21420 0.0085	0.79891 0.0001
CRMXWD	0.03125 0.7042	0.00023 0.9978	0.12573 0.1253	0.11616 0.1569	-0.13677 0.0951	-0.12323 0.1330	0.33879 0.0001
CRMNWD	-0.88024 0.0005	-0.84177 0.0029	-0.43964 0.0001	-0.31456 0.0084	0.06661 0.4180	-0.09505 0.2478	-0.10026 0.2222



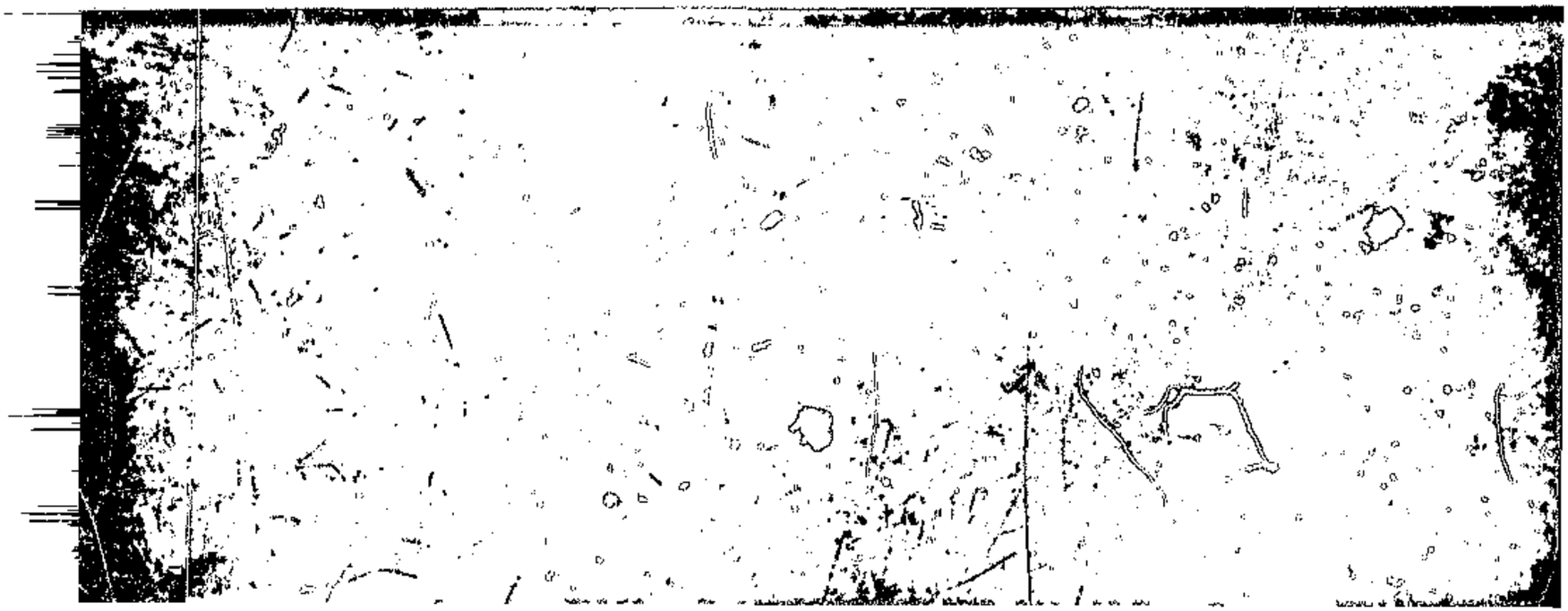
PEARSON CORRELATION COE[illegible]ENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR
NMNOFHD	-0.29704 0.0002	-0.70740 0.0001	-0.69814 0.0001	-0.60982 0.0001	0.71362 0.0001	-0.14527 0.0761	-0.87820 0.0001
IBLWR	0.49589 0.0001	0.83728 0.0001	0.80078 0.0001	0.69832 0.0001	-0.63641 0.0001	0.24431 0.0026	0.63205 0.0001
OBLWR	0.33838 0.0001	0.45132 0.0001	0.38846 0.0001	0.36958 0.0001	-0.29227 0.0003	0.08236 0.3163	0.33768 0.0034
INVLWR	0.12799 0.1186	0.23618 0.0036	0.23659 0.0036	0.09965 0.2258	-0.12667 0.1224	0.39261 0.0001	-0.03951 0.6312
CRLLWR	0.18752 0.0216	0.30089 0.0002	0.30718 0.0001	0.10988 0.1801	-0.23074 0.0045	0.14642 0.0738	0.19128 0.0191
ACLWR	1.00000 0.0000	0.48735 0.0001	0.53236 0.0001	0.49682 0.0001	-0.07374 0.3699	-0.02685 0.7443	0.38026 0.0001
CORLWR	0.48735 0.0001	1.00000 0.0000	0.93638 0.0001	0.77861 0.0001	-0.78954 0.0001	0.26097 0.0013	0.72959 0.0001
CORLMWR	0.53236 0.0001	0.93638 0.0001	1.00000 0.0000	0.76899 0.0001	-0.68861 0.0001	0.23170 0.0043	0.75919 0.0001
STLLBR	0.49688 0.0001	0.77841 0.0001	0.76899 0.0001	1.00000 0.0000	-0.51221 0.0001	0.10668 0.1938	0.61941 0.0001
TFLPLR	-0.07374 0.3699	-0.78954 0.0001	-0.68861 0.0001	-0.51221 0.0001	1.00000 0.0000	-0.17922 0.0282	-0.65000 0.0001
INFLWR	-0.02685 0.7443	0.26097 0.0013	0.23170 0.0043	0.10668 0.1938	-0.17922 0.0282	1.00000 0.0000	0.17589 0.0313
LRNFHR	0.38026 0.0001	0.72959 0.0001	0.75919 0.0001	0.61941 0.0001	-0.65000 0.0001	0.17589 0.0313	1.00000 0.0000



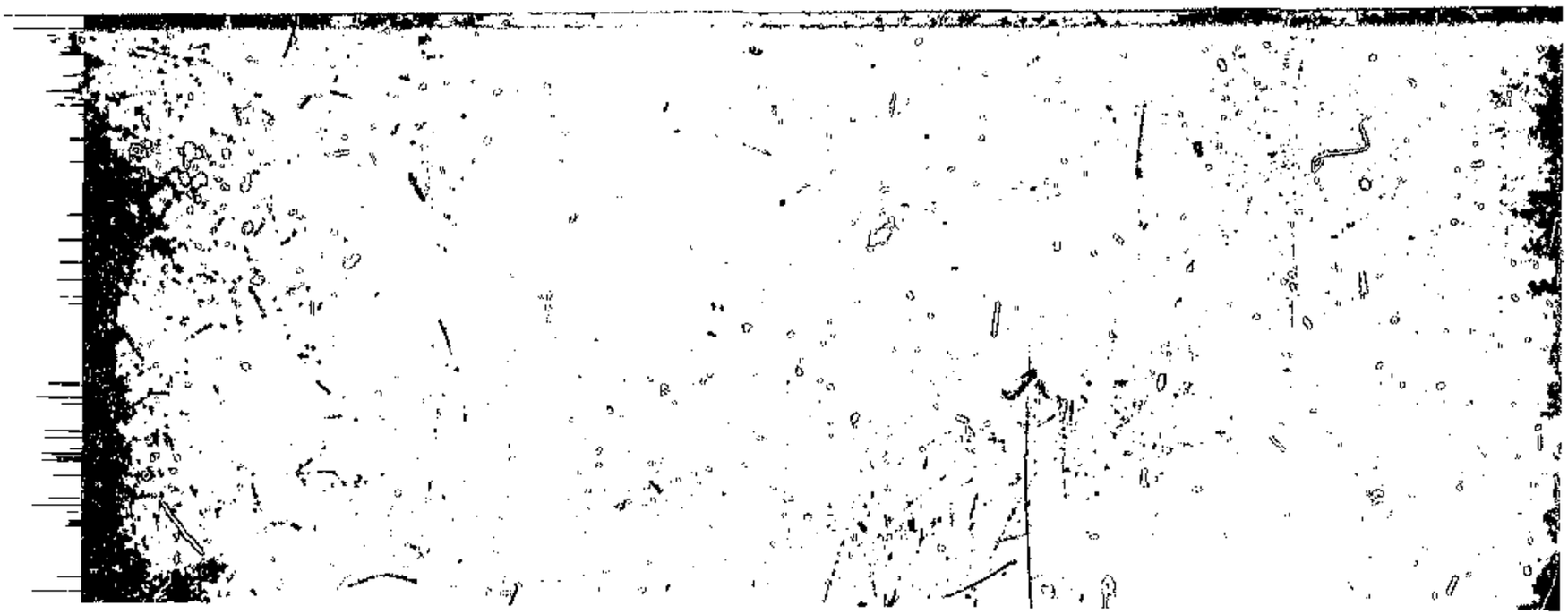
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	RACHLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	INFL	INFW
RACHLEN	1.00000 0.0000	0.06801 0.0001	-0.05661 0.4914	-0.02639 0.7485	-0.01445 0.8606	0.06196 0.4513	0.02353 0.7750	-0.02656 0.7470	0.80322 0.0000	-0.03037 0.7122	-0.04926 0.5494	0.00148 0.9857	0.01754 0.8313
INTNDLN	0.66001 0.0001	1.00000 0.0000	0.02829 0.7311	0.03169 0.7003	0.03641 0.6582	0.12392 0.1308	0.06024 0.4640	0.02125 0.7969	0.88141 0.3220	-0.01758 0.8309	0.02709 0.7421	-0.01973 0.0100	-0.02815 0.7324
NBR	-0.05661 0.4914	0.02829 0.7311	1.00000 0.0000	0.82534 0.0001	0.78715 0.0001	0.32379 0.0001	0.60616 0.0001	0.87356 0.0001	0.80072 0.0001	0.63447 0.0001	0.52591 0.0001	0.85675 0.0001	0.73693 0.0001
IBRL	-0.02639 0.7485	0.03169 0.7003	0.82534 0.0001	1.00000 0.0000	0.84986 0.0001	0.39585 0.0001	0.74874 0.0001	0.97342 0.0001	0.88577 0.0001	0.63030 0.0001	0.64207 0.0001	0.94023 0.0001	0.74101 0.0001
OBRL	-0.01445 0.8606	0.03641 0.6582	0.78715 0.0001	0.84986 0.0001	1.00000 0.0000	0.33128 0.0001	0.91415 0.0001	0.83747 0.0001	0.79407 0.0001	0.60079 0.0001	0.62308 0.0001	0.81612 0.0001	0.65310 0.0001
IBRW	0.06196 0.4513	0.12392 0.1308	0.32379 0.0001	0.09535 0.0001	0.33128 0.0001	1.00000 0.0000	0.40956 0.0001	0.40061 0.0001	0.52987 0.0001	0.14299 0.0809	0.22450 0.0057	0.36688 0.0001	0.31718 0.0001
OBRW	0.02353 0.7750	0.06024 0.4640	0.60616 0.0001	0.74874 0.0001	0.91415 0.0001	0.40556 0.0001	1.00000 0.0000	0.74013 0.0001	0.74209 0.0001	0.62348 0.0001	0.55075 0.0001	0.71253 0.0001	0.56127 0.0001
INMXL	-0.02656 0.7470	0.02125 0.7969	0.87356 0.0001	0.97342 0.0001	0.83747 0.0001	0.40081 0.0001	0.74013 0.0001	1.00000 0.0000	0.90034 0.0001	0.62956 0.0001	0.61017 0.0001	0.85558 0.0001	0.75136 0.0001
INMXW	0.80322 0.0001	0.88141 0.3220	0.80072 0.0001	0.88577 0.0001	0.79487 0.0001	0.52987 0.0001	0.74209 0.0001	0.90034 0.0001	1.00000 0.0000	0.68896 0.0001	0.58421 0.0001	0.89057 0.0001	0.88807 0.0001
PMXL	-0.03037 0.7122	-0.01758 0.8309	0.63447 0.0001	0.63030 0.0001	0.60818 0.0001	0.14299 0.0809	0.62348 0.0001	0.62956 0.0001	0.68806 0.0001	1.00000 0.0000	0.68688 0.0001	0.65357 0.0001	0.62548 0.0001
LBRP	-0.04926 0.5494	0.02709 0.7421	0.52901 0.0001	0.64207 0.0001	0.62308 0.0001	0.22450 0.0057	0.55075 0.0001	0.61017 0.0001	0.58421 0.0001	0.68688 0.0001	1.00000 0.0000	0.68817 0.0001	0.40734 0.0001
INFL	0.00148 0.9857	-0.01973 0.8106	0.85675 0.0001	0.94023 0.0001	0.81812 0.0001	0.36688 0.0001	0.71253 0.0001	0.85552 0.0001	0.85957 0.0001	0.65357 0.0001	0.68017 0.0001	1.00000 0.0000	0.84147 0.0001
INFW	0.01754 0.8313	-0.02815 0.7324	0.73693 0.0001	0.74101 0.0001	0.65310 0.0001	0.31718 0.0001	0.56127 0.0001	0.75136 0.0001	0.82807 0.0001	0.62548 0.0001	0.48734 0.0001	0.84147 0.0001	1.00000 0.0000
VANOS	0.80502 0.7618	0.06089 0.4609	0.16221 0.0474	0.06170 0.4532	0.01496 0.8178	0.83864 0.6367	-0.01322 0.8724	0.08230 0.3167	0.09789 0.2334	0.00309 0.9701	0.81910 0.8185	0.67337 0.3788	0.04746 0.5641
VANOB	-0.05859 0.4763	-0.04520 0.5829	0.35259 0.0001	0.31728 0.0001	0.22914 0.0048	0.03150 0.7020	0.15562 0.0572	0.34956 0.0001	0.28616 0.0018	0.80595 0.0115	0.19548 0.0165	0.30300 0.0002	0.22474 0.0057
MHWDL	0.19923 0.0145	0.23882 0.0035	-0.26137 0.0012	-0.17189 0.0373	-0.21164 0.0093	0.00189 0.9817	-0.14791 0.0709	-0.19612 0.0198	-0.17341 0.8338	-0.25037 0.0020	-0.18495 0.0235	-0.22887 0.0048	-0.22217 0.0063
SHINL	0.02633 0.7491	-0.04005 0.6265	-0.10274 0.2109	-0.16471 0.0597	-0.10791 0.1887	0.02075 0.8011	-0.13592 0.0972	-0.13678 0.0951	-0.15666 0.0586	-0.17337 0.0839	-0.15088 0.0653	-0.12574 0.1252	-0.18630 0.0224



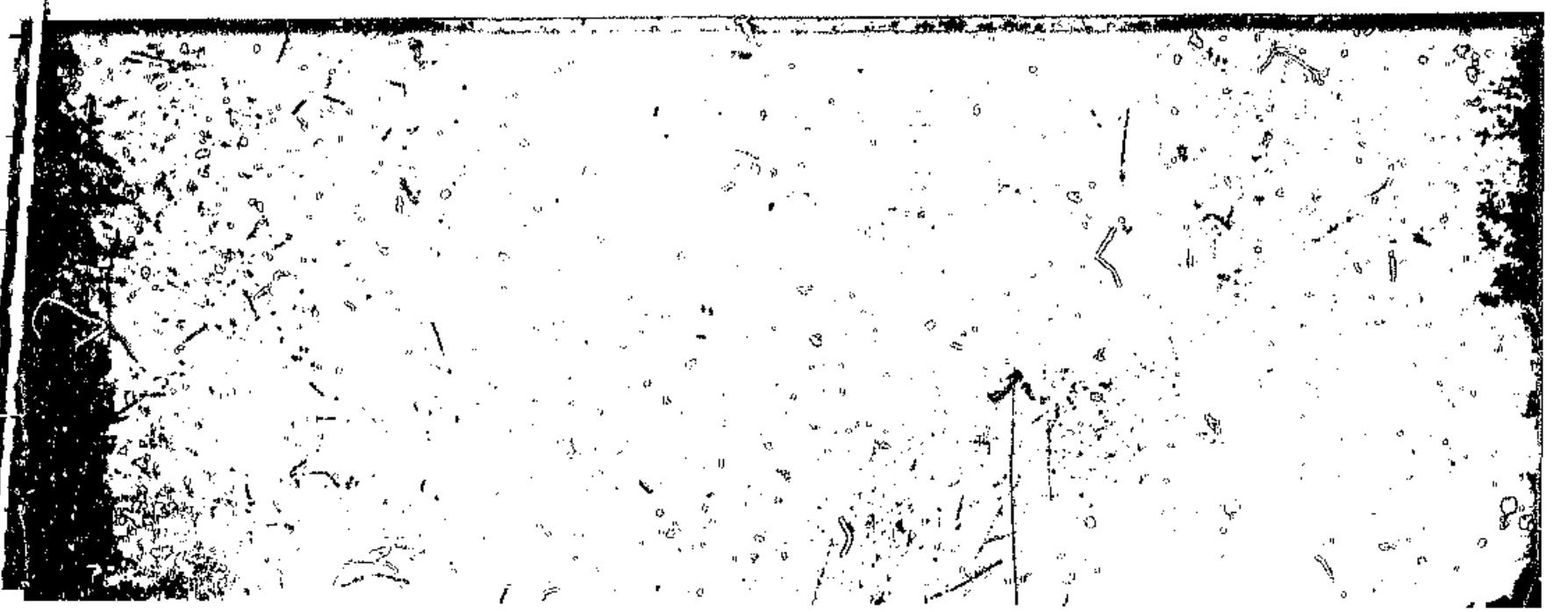
SPEARMAN C[illegible]ATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	RACHLEN	INTNDLN	NBR	[illegible]	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	INFL	INFW
LNWDRL	-0.03673 0.6554	-0.12440 0.1293	-0.25327 0.0018	-0.33068 0.0001	-0.[illegible]3257 0.0042	-0.11799 0.1504	-0.25559 0.0016	-0.31165 0.0001	-0.34276 0.0001	-0.24197 0.0029	-0.25737 0.0015	-0.30703 0.0001	-0.35101 0.0001
MXLNL	0.12467 0.1285	0.10992 0.1806	-0.46423 0.0001	-0.47901 0.0001	-0.[illegible] 0.[illegible]	-0.13701 0.0945	-0.38233 0.0001	-0.46864 0.0001	-0.43802 0.0001	-0.43395 0.0001	-0.38727 0.0001	-0.50138 0.0001	-0.52038 0.0001
MXWDL	0.18244 0.0255	0.22275 0.0061	-0.20533 0.0117	-0.10659 0.1942	-0.14998 0.0670	-0.08081 0.9921	-0.08335 0.3105	-0.13074 0.1108	-0.11252 0.1704	-0.17584 0.0314	-0.13753 0.0933	-0.16511 0.0435	-0.14292 0.0810
APXAN	-0.00790 0.9236	0.07351 0.3713	0.30392 0.0002	0.25938 0.0013	0.16276 0.0466	0.18573 0.0229	0.21265 0.0090	0.25509 0.0016	0.27386 0.0007	0.21068 0.0097	0.18783 0.0213	0.27749 0.0006	0.31374 0.0001
APXPS	0.02952 0.7199	-0.01565 0.8493	-0.00470 0.0120	-0.22721 0.0052	-0.26341 0.0018	-0.15700 0.0550	-0.26387 0.0011	-0.02149 0.0065	-0.[illegible]871 0.0033	-0.17381 0.0334	-0.12507 0.1273	-0.23862 0.0033	-0.23556 0.0037
BSAN	0.08063 0.3267	0.10477 0.2020	0.35092 0.0001	0.46018 0.0001	0.36728 0.0001	0.18710 0.0219	0.31486 0.0001	0.44782 0.0001	0.44690 0.0001	0.29319 0.0003	0.38184 0.0001	0.41782 0.0001	0.39535 0.0001
BSPS	0.04270 0.6032	0.06668 0.4161	0.28067 0.0005	0.34168 0.0001	0.31080 0.0001	0.10920 0.1835	0.24216 0.0028	0.33176 0.0001	0.33702 0.0001	0.26919 0.0009	0.27780 0.0006	0.31957 0.0001	0.29585 0.0002
SVIN3	0.01268 0.8776	0.00655 0.9337	0.12247 0.1354	0.08226 0.3170	0.00140 0.9864	0.03654 0.6571	0.04231 0.6072	0.07636 0.3530	0.07755 0.3455	0.12908 0.1154	0.15041 0.0662	0.08067 0.3264	0.07649 0.3522
MSECV	-0.01504 0.0551	-0.00694 0.9328	-0.02891 0.0048	-0.26646 0.0010	-0.33393 0.0001	-0.13211 0.1871	-0.26784 0.0009	-0.26082 0.0013	-0.30732 0.0001	-0.29712 0.0002	-0.18061 0.0270	-0.29386 0.0003	-0.29111 0.0003
PINSV	0.17874 0.0305	0.23600 0.0036	-0.29878 0.0003	-0.25864 0.0014	-0.26419 0.0011	-0.03269 0.6972	-0.22495 0.0056	-0.27733 0.0006	-0.28262 0.0005	-0.18838 0.0210	-0.23776 0.0043	-0.31158 0.0001	-0.30062 0.0002
PTLLN	0.99977 0.2245	0.02256 0.7841	0.21956 0.0069	0.24449 0.0026	0.27881 0.0007	0.09458 0.3035	0.26236 0.0005	0.24493 0.0025	0.15693 0.0551	0.28982 0.0037	0.19802 0.0927	0.25840 0.0013	0.20506 0.0118
PNTLN	0.13050 0.1106	0.07805 0.3425	-0.03626 0.6598	-0.03022 0.7135	-0.02702 0.7427	0.10847 0.1989	-0.01877 0.8197	-0.04806 0.5592	0.03947 0.0315	-0.23885 0.7079	0.05347 0.5158	-0.02968 0.7189	0.01246 0.8798
MFLOR	-0.02443 0.7666	0.03077 0.7085	0.71918 0.0001	0.78975 0.0001	0.77122 0.0001	0.31895 0.0001	0.69569 0.0001	0.81028 0.0001	0.87596 0.0001	0.61178 0.0001	0.54335 0.0001	0.78788 0.0001	0.77416 0.0001
CORLLN	0.03404 0.6793	0.08380 0.3080	0.36038 0.0001	0.38669 0.0001	0.16930 0.0384	0.15538 0.0576	0.14516 0.0763	0.37239 0.0001	0.32622 0.0001	0.22819 0.0[illegible]	0.15514 0.0580	0.37894 0.0001	0.30049 0.0002
CORLWD	-0.07395 0.3685	-0.01508 0.8546	0.13369 0.1029	0.18481 0.0236	0.19[illegible]5 0.0[illegible]4	0.21861 0.0072	0.22640 0.0053	0.15075 0.0656	0.14916 0.0685	0.22099 0.0066	0.06093 0.4589	0.16591 0.0425	0.19228 0.0184
CORTWD	0.81999 0.0081	-0.03162 0.7063	0.02262 0.7635	0.07720 0.3477	0.09700 0.2377	0.14697 0.0727	0.11132 0.1750	0.07108 0.3874	0.05527 0.5017	0.04852 0.5555	-0.13048 0.1115	0.10510 0.2005	0.06797 0.4086
MASL	0.04228 0.6074	-0.07320 0.3734	-0.30794 0.0001	-0.70459 0.0001	-0.67930 0.0001	-0.87267 0.0007	-0.65182 0.0001	-0.73325 0.0001	-0.70528 0.0001	-0.59625 0.0001	-0.53341 0.0001	-0.69623 0.0001	-0.52591 0.0001
PAPMXLN	-0.06449 0.4830	0.28070 0.9032	0.80279 0.0001	0.95217 0.0001	0.81693 0.0001	0.33882 0.0001	0.70800 0.0001	0.92822 0.0001	0.84896 0.0001	0.65733 0.0001	0.84646 0.0001	0.93886 0.0001	0.76204 0.0001



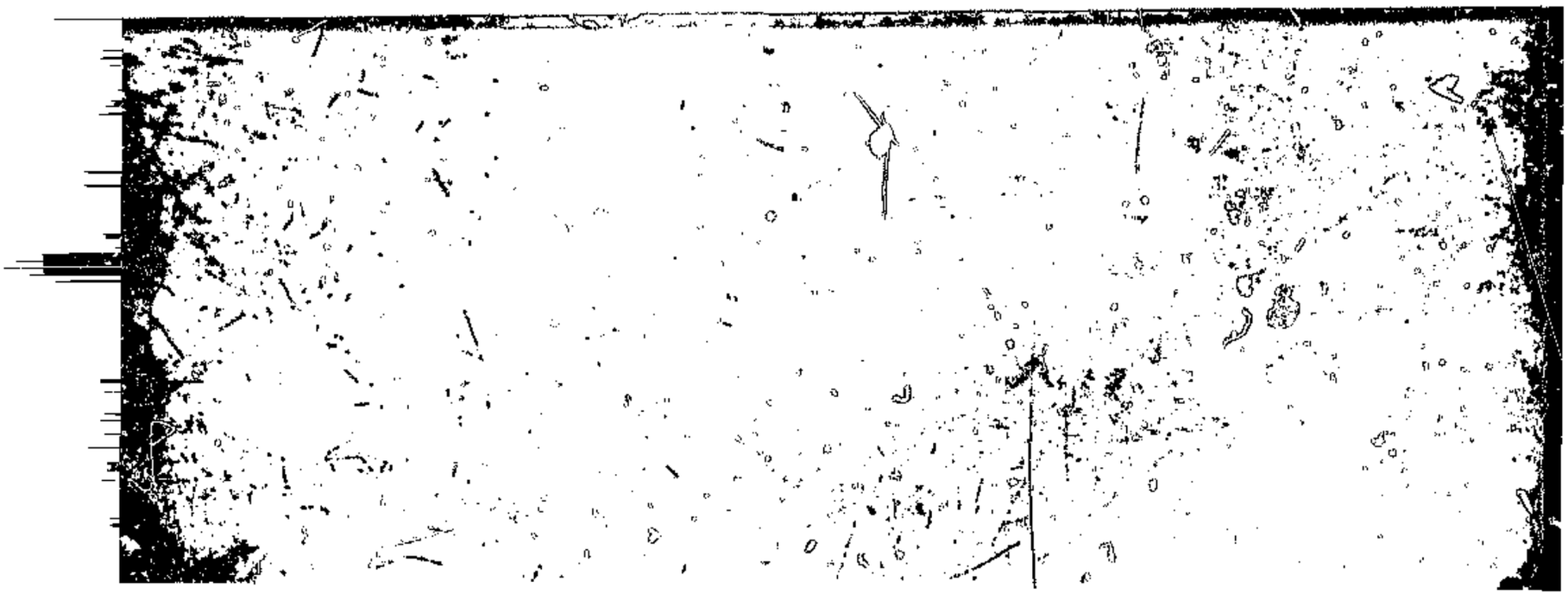
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	RACMLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	INFL	INFW
TFLLN	-0.00727 0.9296	-0.04609 0.5754	0.79197 0.0001	0.91339 0.0001	0.78542 0.0001	0.32648 0.0001	0.67177 0.0001	0.89994 0.0001	0.83939 0.0001	0.65469 0.0001	0.62522 0.0001	0.96863 0.0001	0.88472 0.0001
TFRS	0.06220 0.4496	-0.05255 0.5231	-0.76882 0.0001	-0.72276 0.0001	-0.90122 0.0001	-0.39945 0.0002	-0.56279 0.0001	-0.75379 0.0001	-0.72993 0.0001	-0.51191 0.0001	-0.46768 0.0001	-0.72002 0.0001	-0.84078 0.0001
TMXLN	-0.01349 0.8508	-0.01407 0.8643	0.79584 0.0001	0.83268 0.0001	0.81998 0.0001	0.37886 0.0001	0.71109 0.0001	0.91212 0.0001	0.84273 0.0001	0.64272 0.0001	0.63907 0.0001	0.98550 0.0001	0.77559 0.0001
TMXLOL	0.06459 0.4323	0.18075 0.0269	0.42136 0.0001	0.39639 0.0001	0.24095 0.0030	0.32306 0.0061	0.21902 0.0071	0.39498 0.0001	0.37206 0.0001	0.27410 0.0006	0.24973 0.0021	0.40809 0.0001	0.33107 0.0001
TBLN	-0.02573 0.7546	-0.05573 0.4981	0.68291 0.0001	0.75261 0.0001	0.67399 0.0001	0.29563 0.0002	0.58729 0.0001	0.75976 0.0001	0.72443 0.0001	0.57425 0.0001	0.53126 0.0001	0.81408 0.0001	0.71598 0.0001
TBWD	0.13679 0.0951	0.19948 0.0144	0.84488 0.0001	0.31631 0.0001	0.33803 0.0034	0.06212 0.0001	0.28914 0.0009	0.38080 0.0008	0.40843 0.0001	0.28226 0.0012	0.10364 0.2069	0.34733 0.0001	0.41170 0.0001
CHXLN	0.06601 0.4222	-0.11397 0.1669	0.40822 0.0001	0.50825 0.0001	0.41875 0.0001	0.08577 0.2967	0.31557 0.0001	0.49396 0.0001	0.50038 0.0001	0.37540 0.0001	0.29574 0.0002	0.65830 0.0001	0.65642 0.0001
CHXWD	-0.03466 0.6737	-0.16759 0.0404	0.32377 0.1313	0.20398 0.0123	0.11456 0.1627	0.24600 0.0024	0.13279 0.1052	0.17766 0.0296	0.20493 0.0119	0.06564 0.4249	-0.01619 0.8482	0.25561 0.0076	0.21663 0.0078
FAC	-0.11946 0.1454	0.01391 0.8658	0.53193 0.0001	0.59419 0.0001	0.60544 0.0001	0.35007 0.0001	0.57575 0.0001	0.57234 0.0001	0.57964 0.0001	0.55147 0.0001	0.53797 0.0001	0.59020 0.0001	0.59522 0.0001
FXLN	-0.01777 0.8291	0.03943 0.6405	0.80726 0.0001	0.93576 0.0001	0.81648 0.0001	0.35915 0.0001	0.71419 0.0001	0.91748 0.0001	0.84889 0.0001	0.64143 0.0001	0.62569 0.0001	0.93317 0.0001	0.76653 0.0001
FXWD	0.13839 0.0912	0.26018 0.0013	0.22218 0.0063	0.26387 0.0011	0.17380 0.0334	0.46094 0.0001	0.23589 0.0033	0.25623 0.0016	0.36710 0.0001	0.14556 0.0755	0.01957 0.8121	0.26288 0.0005	0.34483 0.0001
FNWD	-0.01292 0.8753	0.06464 0.4319	-0.09297 0.2578	-0.15655 0.0557	-0.14284 0.0812	0.13075 0.1107	-0.09760 0.2348	-0.16305 0.0462	-0.03155 0.7015	-0.06701 0.4152	-0.08332 0.3108	-0.15356 0.0606	-0.05938 0.4704
FNUFHD	0.49595 0.0001	0.18953 0.0202	-0.61587 0.0001	-0.70180 0.0001	-0.65676 0.0001	-0.32053 0.0001	-0.60845 0.0001	-0.69977 0.0001	-0.70734 0.0001	-0.57257 0.0001	-0.49646 0.0001	-0.65962 0.0001	-0.56515 0.0001
GLWR	-0.07771 0.3445	-0.02535 0.7581	0.74922 0.0001	0.85029 0.0001	0.73989 0.0001	-0.08479 0.3022	0.59568 0.0001	0.82572 0.0001	0.67055 0.0001	0.63291 0.0001	0.59694 0.0001	0.79607 0.0001	0.62364 0.0001
IBLWR	-0.09406 0.2523	-0.05992 0.4064	0.38633 0.0001	0.39548 0.0001	0.35096 0.0001	-0.12792 0.1188	0.84961 0.5466	0.39082 0.0001	0.38145 0.0002	0.43816 0.0001	0.40230 0.0001	0.40478 0.0001	0.37795 0.0001
INVLWR	-0.11241 0.1708	-0.13169 0.1082	0.35026 0.0001	0.31526 0.0001	0.16245 0.0470	-0.25034 0.0820	0.34274 0.6035	0.32475 0.0001	-0.03519 0.6690	0.27375 0.0007	0.29578 0.0002	0.26124 0.0005	0.03582 0.6678
CRLLWR	0.10995 0.1804	0.14563 0.0754	0.29142 0.0003	0.29784 0.0002	0.07082 0.3891	0.04131 0.6157	0.83035 0.7124	0.30862 0.0002	0.28148 0.0012	0.10665 0.1940	0.13428 0.1014	0.29497 0.0002	0.19796 0.0152
RCLWR	0.09147 0.2656	-0.02843 0.7298	0.40081 0.0001	0.47594 0.0001	0.40512 0.0001	-0.80060 0.9942	0.27690 0.0006	0.47343 0.0001	0.45960 0.0001	0.37744 0.0001	0.35992 0.0001	0.61844 0.0001	0.62219 0.0001



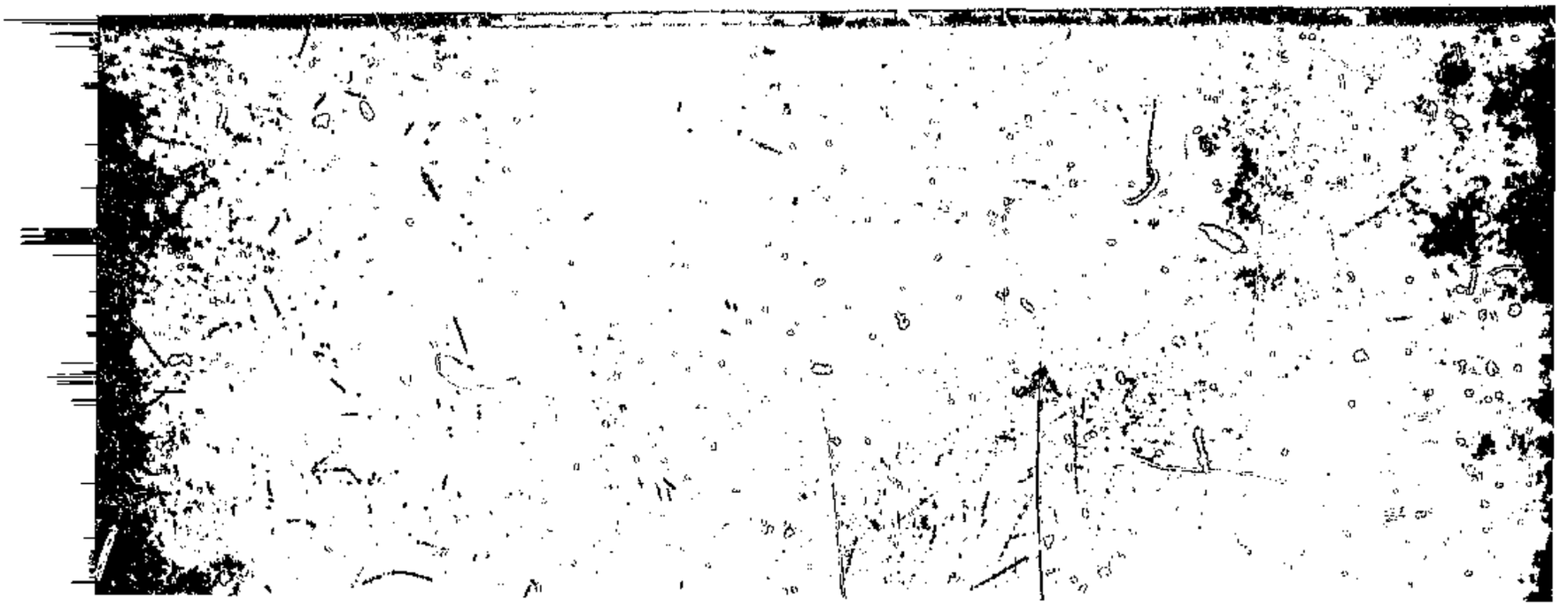
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	RACMLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	INFL	INFW
CORLWR	-0.07226 0.3795	-0.06377 0.4382	0.76787 0.0001	0.88985 0.0001	0.79487 0.0001	0.21384 0.0086	0.67561 0.0001	0.86456 0.0001	0.75301 0.0001	0.63975 0.0001	0.68456 0.0001	0.86545 0.0001	0.67436 0.0001
CORLMWR	-0.00464 0.9550	0.00678 0.9344	0.74486 0.0001	0.86040 0.0001	0.76037 0.0001	0.25924 0.0014	0.66279 0.0001	0.86106 0.0001	0.74656 0.0001	0.60587 0.0001	0.68003 0.0001	0.87215 0.0001	0.68931 0.0001
STLLBR	-0.07427 0.3664	-0.10361 0.2070	0.62180 0.0001	0.76182 0.0001	0.76586 0.0001	0.29136 0.0019	0.66824 0.0001	0.73844 0.0001	0.69278 0.0001	0.57869 0.0001	0.89445 0.0001	0.76517 0.0001	0.65596 0.0001
TFLPLR	0.21033 0.0098	-0.07144 0.3850	-0.58786 0.0001	-0.63971 0.0001	-0.57589 0.0001	-0.27782 0.0006	-0.54299 0.0001	-0.62190 0.0001	-0.58274 0.0001	-0.49186 0.0001	-0.53129 0.0001	-0.51061 0.0001	-0.41418 0.0001
INFLWR	-0.08187 0.3193	0.00336 0.9675	0.17575 0.0315	0.30357 0.0002	0.33891 0.0037	0.07228 0.3794	0.21197 0.0092	0.39112 0.0002	0.07562 0.3577	0.05227 0.5253	0.16415 0.0241	0.21740 0.0075	-0.30605 0.0001
LRNFHR	-0.16395 0.0450	0.04337 0.5982	0.89402 0.0001	0.86781 0.0001	0.75122 0.0001	0.39363 0.0001	0.71243 0.0001	0.80504 0.0001	0.82674 0.0001	0.87872 0.0001	0.55829 0.0001	0.77833 0.0001	0.67552 0.0001
	VANGS	VANGB	MRWDL	SHINL	LNNDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV
RACMLEN	0.02502 0.7612	-0.05859 0.4763	0.19923 0.0145	0.02633 0.7491	-0.03673 0.6554	0.12467 0.1285	0.18244 0.0255	-0.00790 0.9236	0.02952 0.7199	0.08863 0.3267	0.04278 0.6032	0.01268 0.8776	-0.01504 0.8551
INTNDLN	0.06049 0.4621	-0.04526 0.5829	0.23682 0.0035	-0.03005 0.7265	-0.12440 0.1293	0.10992 0.1806	0.20275 0.0061	0.07351 0.3713	-0.01565 0.8493	0.10477 0.2020	0.06686 0.4161	0.00685 0.9337	-0.00694 0.9329
NBR	0.16221 0.0474	0.35259 0.0001	-0.26137 0.0012	-0.10274 0.2109	-0.25327 0.0010	-0.46423 0.0001	-0.20533 0.0117	0.38392 0.0002	-0.20470 0.0120	0.35052 0.0001	0.28067 0.0065	0.12247 0.1354	-0.22891 0.0048
IBRL	0.06170 0.4532	0.31728 0.0001	-0.17439 0.0323	-0.19471 0.0587	-0.33868 0.0001	-0.47901 0.0001	-0.10659 0.1942	0.25038 0.0013	-0.22721 0.0052	0.46018 0.0001	0.34168 0.0001	0.08226 0.3170	-0.26646 0.0010
OBRL	0.01896 0.8178	0.22914 0.0048	-0.21164 0.0093	-0.19791 0.1807	-0.23257 0.0042	-0.47576 0.0001	-0.14998 0.0670	0.16276 0.0460	-0.25341 0.0018	0.35728 0.0001	0.31838 0.0001	0.00140 0.9864	-0.33393 0.0001
IBRW	0.03864 0.6387	0.03150 0.7020	0.00189 0.9817	0.02079 0.8011	-0.11799 0.1504	-0.13701 0.0945	-0.00081 0.9921	0.18573 0.0229	-0.15700 0.0550	0.18710 0.0219	0.18920 0.1035	0.03694 0.6571	-0.13211 0.1071
OBRW	-0.01322 0.8724	0.15562 0.0572	-0.14791 0.0709	-0.13592 0.0972	-0.25559 0.0016	-0.38233 0.0001	-0.08335 0.3105	0.21265 0.0090	-0.26307 0.0011	0.31406 0.0001	0.24216 0.0028	0.04231 0.6072	-0.26784 0.0009
INMXL	0.08230 0.3167	0.34956 0.0001	-0.19812 0.0198	-0.18678 0.0951	-0.37165 0.0001	-0.46864 0.0001	-0.13074 0.1108	0.25589 0.0016	-0.22149 0.0085	0.44782 0.0001	0.38178 0.0001	0.07636 0.3530	-0.26082 0.0013
INMXW	0.09789 0.2334	0.26618 0.0010	-0.17341 0.0338	-0.19666 0.0556	-0.34276 0.0001	-0.43802 0.0001	-0.11252 0.1704	0.27386 0.0007	-0.23871 0.0033	0.44698 0.0001	0.33702 0.0001	0.07755 0.3455	-0.30732 0.0001
PMXL	0.00309 0.9701	0.20595 0.0115	-0.25037 0.0020	-0.17337 0.0339	-0.24197 0.0029	-0.49105 0.0001	-0.17584 0.0314	0.23068 0.0097	-0.17381 0.0334	0.29319 0.0003	0.26819 0.0009	0.12908 0.1154	-0.29712 0.0002
LBRP	0.01910 0.8165	0.19548 0.0165	-0.18495 0.0235	-0.15088 0.0653	-0.25737 0.0015	-0.38727 0.0001	-0.16753 0.0933	0.18783 0.0213	-0.12507 0.1273	0.35384 0.0001	0.27700 0.0006	0.15041 0.0662	-0.18061 0.0270



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	VANGS	VANGB	MHWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV
INFL	0.07237 0.3788	0.39300 0.0002	-0.32887 0.0048	-0.12574 0.1252	-0.30783 0.0001	-0.59138 0.0001	-0.16511 0.0435	0.27749 0.0006	-0.08862 0.0033	0.41702 0.0001	0.31937 0.0001	0.06067 0.3264	-0.29366 0.0003
INFW	0.04746 0.5641	0.22474 0.0057	-0.22217 0.0068	-0.18630 0.0224	-0.35101 0.0001	-0.52033 0.0001	-0.14292 0.0810	0.31734 0.0001	-0.33556 0.0037	0.39535 0.0001	0.29187 0.0082	0.07649 0.3522	-0.29111 0.0003
VANGS	1.00000 0.0000	0.30373 0.0002	0.11886 0.1502	-0.06784 0.4095	-0.12340 0.1325	-0.01362 0.8878	0.11247 0.1706	0.08172 0.3202	0.09931 0.2266	0.22804 0.0061	0.20136 0.0085	0.30649 0.0001	0.10686 0.1931
VANGB	0.30373 0.0002	1.00000 0.0000	0.10332 0.2083	-0.13743 0.0935	-0.25985 0.0013	-0.13513 0.0992	0.11599 0.1575	0.16208 0.0475	-0.10916 0.1836	0.17418 0.0001	0.39437 0.0001	0.22688 0.0052	0.11205 0.1722
MHWDL	0.11806 0.1502	0.10332 0.2083	1.00000 0.0000	-0.22438 0.0058	-0.31220 0.0001	0.07228 0.0001	0.85497 0.0001	-0.02101 0.3986	0.13882 0.0902	0.32013 0.0001	0.13753 0.6933	0.08683 0.5693	0.29657 0.0002
SHINL	-0.06784 0.4095	-0.13743 0.0935	-0.22438 0.0058	1.00000 0.0000	0.79908 0.0001	0.28461 0.0004	-0.47118 0.0001	-0.36854 0.0001	-0.07193 0.3817	-0.32408 0.0001	0.19267 0.8182	-0.30753 0.0001	0.16081 0.0493
LNWDRL	-0.12340 0.1325	-0.25985 0.0013	-0.31220 0.0001	0.79908 0.0001	1.00000 0.0000	0.41849 0.0001	-0.49771 0.0001	-0.52985 0.0001	0.09686 0.2368	-0.61292 0.0001	-0.06556 0.4254	-0.06616 0.0810	0.23938 0.0032
MXLNL	-0.01162 0.8878	-0.13513 0.0992	0.07222 0.0081	0.28461 0.0004	0.41849 0.0001	1.00000 0.0000	0.52550 0.0001	-0.43171 0.0001	0.29622 0.0002	-0.21361 0.0082	-0.02246 0.7850	-0.17422 0.0330	0.44060 0.0001
MXWDL	0.11247 0.1706	0.11599 0.1575	0.95497 0.0001	-0.47113 0.0001	-0.49771 0.0001	0.52550 0.0001	1.00000 0.0000	0.07812 0.3420	0.14295 0.0810	0.36081 0.0001	0.05335 0.5167	0.13071 0.1109	0.22317 0.0060
APXAN	0.08172 0.3202	0.16208 0.0475	-0.02101 0.7986	-0.36854 0.0001	-0.52985 0.0001	-0.43171 0.0001	0.07812 0.3420	1.00000 0.0000	-0.47743 0.0001	0.24306 0.0027	-0.00047 0.0037	0.10533 0.0432	-0.17680 0.0304
APXPS	0.09931 0.2266	-0.10916 0.1836	0.13882 0.0902	-0.07193 0.3817	0.09686 0.2368	0.29622 0.0002	0.14293 0.0810	-0.47743 0.0001	1.00000 0.0000	-0.04133 0.6155	-0.03284 0.6899	0.01628 0.0432	0.10026 0.2222
BSAN	0.22804 0.0061	0.17418 0.0001	0.32013 0.0001	-0.32408 0.0001	-0.61992 0.0001	-0.21361 0.0087	0.36321 0.0001	0.24306 0.0027	-0.04133 0.6155	1.00000 0.0000	0.57047 0.0001	0.27098 0.0008	-0.03984 0.6284
BSPS	0.20136 0.0085	0.39437 0.0001	0.13753 0.0933	0.19267 0.0182	-0.36556 0.4294	-0.02246 0.7050	0.05335 0.5167	-0.02047 0.8037	-0.03284 0.6899	0.57047 0.0001	1.00000 0.0000	0.03156 0.7014	0.07695 0.3493
SVINS	0.30649 0.0001	0.22688 0.0052	0.08683 0.5693	-0.30753 0.0001	-0.06616 0.0810	-0.17422 0.0330	0.13071 0.1109	0.10533 0.0432	0.01628 0.8432	0.27098 0.0008	0.03156 0.7014	1.00000 0.0000	0.24063 0.0030
NSECV	0.10686 0.1931	0.11205 0.1722	0.29657 0.0002	0.16081 0.0493	0.23938 0.0032	0.44060 0.0001	0.22317 0.0060	-0.17680 0.0304	0.10026 0.2222	-0.03984 0.6284	0.07695 0.3493	0.24063 0.0030	1.00000 0.0000
PINSV	0.06074 0.4603	-0.13384 0.1025	0.29807 0.0002	0.01177 0.8863	0.03278 0.6905	0.36567 0.0001	0.27408 0.0007	-0.00733 0.9286	0.05946 0.4898	-0.10091 0.2192	-0.09263 0.2596	-0.18850 0.0202	-0.06105 0.4580
PTLLN	-0.05112 0.5348	-0.08287 0.3133	0.16765 0.0405	0.01658 0.8407	0.03014 0.7143	0.18313 0.0249	0.15282 0.0619	-0.03580 0.6653	0.00962 0.9070	-0.31537 0.0519	-0.06601 0.4222	-0.10586 0.1994	0.09958 0.2257
INTLN	-0.09928 0.8268	-0.07729 0.3472	0.22756 0.0051	-0.08796 0.2846	-0.38228 0.3172	0.17794 0.0294	0.23776 0.0034	-0.02122 0.7961	0.09927 0.2208	0.08654 0.2924	0.04576 0.5782	0.02245 0.7051	0.02698 0.7483



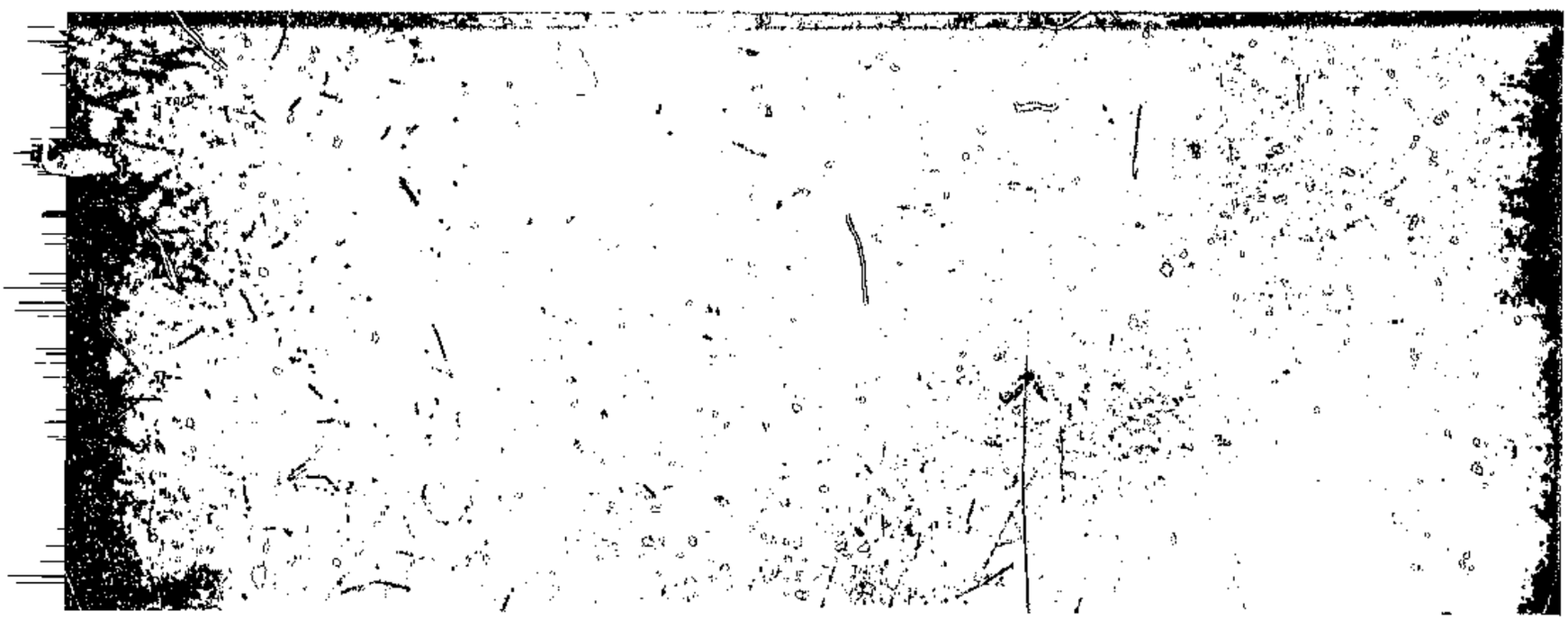
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	VANGS	VANGB	MNWDL	SH1NL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV
NFLOR	0.03414 0.6763	0.24134 0.0029	-0.16829 0.0395	-0.17762 0.0297	-0.29755 0.0002	-0.44996 0.0001	-0.10615 0.1961	0.19804 0.0151	-0.19634 0.8196	0.44293 0.0001	0.16059 0.0001	0.05906 0.4728	-0.30781 0.0001
CORLLN	-0.00638 0.9382	0.07764 0.3450	0.04312 0.5987	-0.18691 0.0220	-0.30731 0.0109	-0.13654 0.0957	0.10560 0.1984	0.16166 0.0481	-0.04796 0.5680	0.19611 0.0162	0.10771 0.1896	0.18909 0.1154	-0.01582 0.8476
CORLWD	-0.36800 0.4084	-0.03034 0.7125	-0.06219 0.9786	-0.04868 0.5542	-0.09169 0.2676	-0.14115 0.0849	0.01975 0.8104	0.15213 0.0631	-0.11249 0.1705	0.07162 0.3838	0.09607 0.2822	-0.02520 0.7595	-0.06188 0.4519
CORTWD	-0.21302 0.0089	-0.09947 0.2259	0.08029 0.3287	0.01890 0.8184	-0.05201 0.5273	0.02187 0.7980	0.09177 0.2640	0.06587 0.4232	-0.09372 0.2540	0.33264 0.3917	0.10956 0.1820	-0.10597 0.1968	-0.06653 0.4589
HASL	-0.22371 0.0059	-0.33004 0.0001	0.10779 0.1892	0.24769 0.0022	0.35142 0.0001	0.38370 0.0001	0.03566 0.6649	-0.29890 0.0002	0.28390 0.0004	-0.38422 0.0001	-0.25625 0.0016	-0.15766 0.0540	0.20406 0.0123
PAPHXLN	0.05580 0.4909	0.41030 0.0001	-0.19907 0.0146	-0.19929 0.0515	-0.34905 0.0001	-0.80727 0.0001	-0.12372 0.1315	0.27993 0.0005	-0.33139 0.0044	0.44693 0.0001	0.30575 0.0001	0.09243 0.2606	-0.88575 0.0010
TFLLN	0.34929 0.5492	0.28599 0.0086	-0.23568 0.0037	-0.14363 0.0795	-0.13123 0.0801	-0.51682 0.0001	-0.16461 0.0441	0.29733 0.0002	-0.22004 0.0068	0.41123 0.0001	0.20827 0.0003	0.06101 0.4524	-0.31077 0.8001
OFRS	-0.23145 0.0044	-0.34366 0.0001	0.10223 0.2132	0.17564 0.0316	0.32803 0.0001	0.33198 0.0001	0.05584 0.4973	-0.34923 0.0001	0.25243 0.0018	-0.37689 0.0007	-0.28087 0.0005	-0.12941 0.1145	0.12200 0.1370
STMXLN	0.05279 0.5212	0.03871 0.0037	-0.20399 0.0123	-0.17226 0.8350	-0.36990 0.0001	-0.52987 0.0001	-0.12595 0.1246	0.32880 0.0001	-0.24508 0.0025	0.42681 0.0001	0.26777 0.0089	0.06766 0.4093	-0.33823 0.0001
STMXLOL	0.13556 0.0981	0.03072 0.7090	-0.01484 0.8570	-0.16080 0.0493	-0.30900 0.0103	-0.17081 0.0368	0.03953 0.6311	0.10152 0.2164	-0.05902 0.4731	0.06781 0.4096	-0.10709 0.1921	0.06032 0.3285	-0.06502 0.3009
STBLN	0.36398 0.4367	0.32645 0.0001	-0.17955 0.0279	-0.20843 0.0101	-0.34464 0.0001	-0.43666 0.0001	-0.09588 0.2431	0.32615 0.0001	-0.23456 0.0039	0.36248 0.0001	0.19756 0.0154	0.12601 0.1244	-0.27836 0.0006
STBWD	0.08993 0.4659	-0.05878 0.4749	0.02168 0.7923	-0.02902 0.7245	-0.15931 0.0577	-0.15183 0.0638	0.03775 0.6465	0.27389 0.0807	-0.13058 0.1112	0.12357 0.1319	0.11754 0.1520	-0.02400 0.7707	-0.21356 0.0087
ACMXLN	-0.02013 0.8068	0.08418 0.3060	-0.21181 0.0093	0.00156 0.9847	-0.12664 0.1225	-0.31480 0.0001	-0.18529 0.0232	0.13111 0.1098	-0.13438 0.1011	0.19963 0.0143	0.25679 0.0015	-0.05875 0.4750	-0.20442 0.0121
ACMXWD	-0.01397 0.8653	0.12358 0.1320	-0.06874 0.4932	0.13551 0.0230	0.36083 0.4596	-0.04404 0.5926	-0.11522 0.1603	0.38204 0.3183	-0.21730 0.8076	0.02496 0.7613	0.06879 0.4029	0.00064 0.9938	0.05343 0.5161
NVPAC	0.30303 0.9706	0.11604 0.1573	-0.10925 0.0204	-0.22495 0.0057	-0.31910 0.0001	-0.43895 0.0001	-0.09714 0.2370	0.31795 0.0001	-0.34392 0.0001	0.30838 0.0111	0.03303 0.6882	0.07062 0.3905	-0.28899 0.0003
CRMXLN	0.04565 0.5791	0.28260 0.0005	-0.17802 0.0293	-0.21292 0.0089	-0.38809 0.0001	-0.51122 0.0001	-0.09016 0.2726	0.33176 0.0001	-0.24966 0.0029	0.45054 0.0001	0.39102 0.8803	0.10764 0.1898	-0.28126 0.0005
CRMXWD	0.06758 0.4118	-0.06741 0.4124	0.07021 0.8932	-0.04083 0.6199	-0.19106 0.0192	-0.13476 0.1001	0.07346 0.3717	0.25039 0.0020	-0.10931 0.1838	0.28453 0.0121	0.04460 0.5078	0.06835 0.4059	-0.13407 0.1019
CRMNWD	0.08726 0.2889	-0.08366 0.3088	0.13561 0.0975	0.08563 0.2972	0.02681 0.7447	0.11197 0.1725	0.08878 0.2800	0.31148 0.8893	-0.20778 0.9248	0.04319 0.5980	0.08908 0.2783	-0.85406 0.5112	0.06660 0.4181



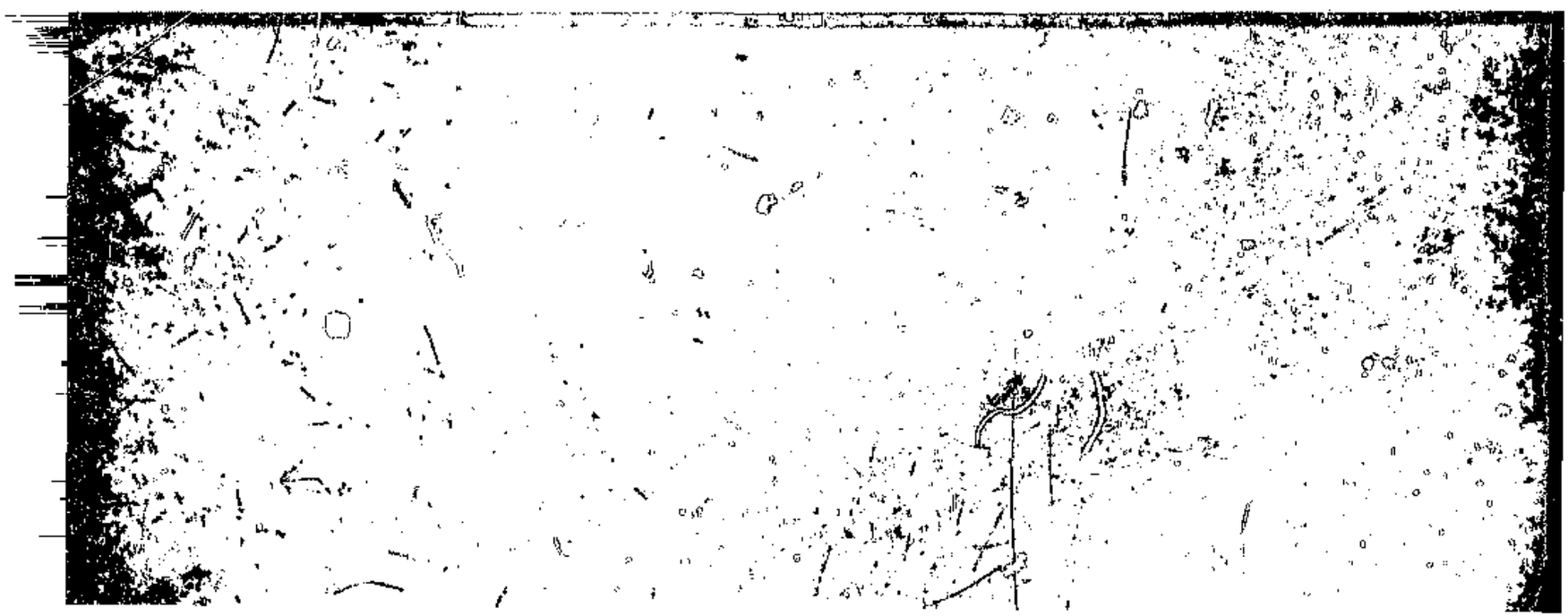
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	VANGS	VANGB	MINDL	SHINL	LNWDRL	MXLNL	MDWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV
MHNOFND	-0.03205 0.6971	-0.28217 0.0005	0.25179 0.0019	0.25020 0.0020	0.32730 0.0001	0.50241 0.0001	0.15830 0.0530	-0.26163 0.0012	0.20429 0.0122	-0.27075 0.0008	-0.16562 0.0428	-0.05864 0.4760	0.28387 0.0004
IBLWR	0.03445 0.6758	0.33754 0.0001	-0.22639 0.0053	-0.19244 0.0183	-0.29273 0.0003	-0.48548 0.0001	-0.14714 0.0724	0.26998 0.0099	-0.17644 0.0308	0.37848 0.0001	0.36337 0.0011	0.09541 0.2455	-0.20337 0.0126
OBLWR	0.09061 0.2701	0.34630 0.0024	-0.10826 0.1873	-0.17649 0.0307	-0.18923 0.0204	-0.23025 0.0046	-0.05020 0.5418	0.04572 0.5785	0.04046 0.5955	0.03559 0.0033	0.18559 0.0230	0.00330 0.9680	-0.13500 0.0995
INVLWR	-0.01379 0.8670	0.22609 0.0054	-0.04823 0.5570	-0.07542 0.3590	-0.07530 0.3598	-0.07292 0.3752	-0.02697 0.7432	0.09685 0.2888	-0.05109 0.5882	0.10916 0.1836	0.00883 0.9146	0.11619 0.1568	0.10907 0.1840
CRLLWR	0.04093 0.6190	0.08841 0.2820	0.04472 0.5869	-0.14889 0.0690	-0.15516 0.0580	-0.06253 0.4471	0.09004 0.2732	0.08340 0.3103	-0.00926 0.9105	0.15307 0.0615	0.06119 0.4569	0.12990 0.1131	0.03274 0.6909
ACLWR	0.02123 0.7965	0.05096 0.5357	-0.31023 0.0096	-0.08567 0.2973	-0.16667 0.0415	-0.33143 0.0001	-0.16082 0.0493	0.10698 0.1926	-0.33597 0.6621	0.19824 0.0150	0.23089 0.0045	-0.03352 0.6 39	-0.25771 0.0015
CORLWR	0.01611 0.8448	0.18289 0.0001	-0.21645 0.8078	-0.22804 0.0068	-0.33867 0.0001	-0.49788 0.0001	-0.12533 0.1265	0.27678 0.0006	-0.24097 0.0030	0.39091 0.0001	0.37636 0.0006	0.11468 0.1623	-0.26631 0.0010
CORLMWR	0.30659 0.9362	0.27747 0.0008	-0.23029 0.0046	-0.20593 0.0115	-0.32779 0.0001	-0.48974 0.0001	-0.13034 0.0914	0.33386 0.0004	-0.21028 0.0090	0.36056 0.0001	0.30253 0.0129	0.13044 0.1116	-0.27366 0.0007
STLLBR	-0.04082 0.6199	0.23439 0.0039	-0.24183 0.0029	-0.11436 0.1635	-0.28314 0.0004	-0.49282 0.0001	-0.17971 0.0278	0.33073 0.0001	-0.29703 0.0002	0.37915 0.0001	0.32518 0.0001	0.04516 0.5832	-0.33303 0.0001
TFLPLR	-0.03271 0.6911	-0.30767 0.0001	0.09704 0.2374	0.23523 0.0038	0.32176 0.0001	0.35098 0.0001	0.01635 0.8426	-0.28578 0.0004	0.28772 0.0051	-0.33593 0.0001	-0.14923 0.0684	-0.11821 0.1497	0.13266 0.1056
INFLWR	0.03097 0.7067	0.11324 0.1677	0.00609 0.9811	0.09443 0.2504	0.06078 0.4600	0.04657 0.5715	-0.01414 0.8636	-0.06298 0.4439	-0.02224 0.7871	0.02153 0.7937	-0.00563 0.9455	0.01381 0.8868	-0.00836 0.9192
LRNFHR	0.25524 0.5820	0.23858 0.0006	-0.20879 0.0103	-0.33816 0.0033	-0.36388 0.0001	-0.50896 0.0001	-0.12194 0.1371	0.30728 0.0001	-0.21902 0.0071	0.35507 0.0001	0.23722 0.0035	0.09086 0.2688	-0.32246 0.0001
	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	RASL	PAPMXLN	TFLLN	DFRS	STMXLN	STMXLOL
RACNLEN	0.17674 0.0305	0.09977 0.2245	0.13080 0.1106	-0.02443 0.7666	0.03404 0.6793	-0.07395 0.3685	0.01999 0.8081	0.04228 0.6074	-0.06449 0.4330	-0.00727 0.9296	0.06220 0.4496	-0.01549 0.8508	0.06459 0.4323
INTNDLN	0.23600 0.0036	0.02256 0.7841	0.07865 0.3485	0.03077 0.7085	0.08380 0.3060	-0.31508 0.8546	-0.03102 0.7063	-0.07320 0.3734	0.00070 0.9932	-0.04609 0.5754	-0.05255 0.6231	-0.01407 0.8643	0.18075 0.0269
NBR	-0.49070 0.0003	0.21956 0.0069	-0.03626 0.8596	0.71918 0.0001	0.36078 0.0001	0.13369 0.1029	0.02262 0.7835	-0.70794 0.0001	0.80275 0.0001	0.79797 0.0001	-0.76882 0.0001	0.79584 0.0001	0.42136 0.0001
IBRL	-0.35864 0.0014	0.24449 0.0026	-0.03022 0.7135	0.78975 0.0001	0.38669 0.0001	0.18461 0.0236	0.07720 0.8477	-0.72455 0.0001	0.95277 0.6001	0.91389 0.0001	-0.72276 0.0001	0.93286 0.0001	0.39639 0.0001
OBRL	-0.36415 0.0011	0.27331 0.0007	-0.02702 0.7427	0.73122 0.0001	0.16930 0.0384	0.11235 0.0184	0.09700 0.2377	-0.67930 0.0001	0.81603 0.0001	0.78542 0.0001	-0.60102 0.0001	0.81998 0.0001	0.24095 0.0030



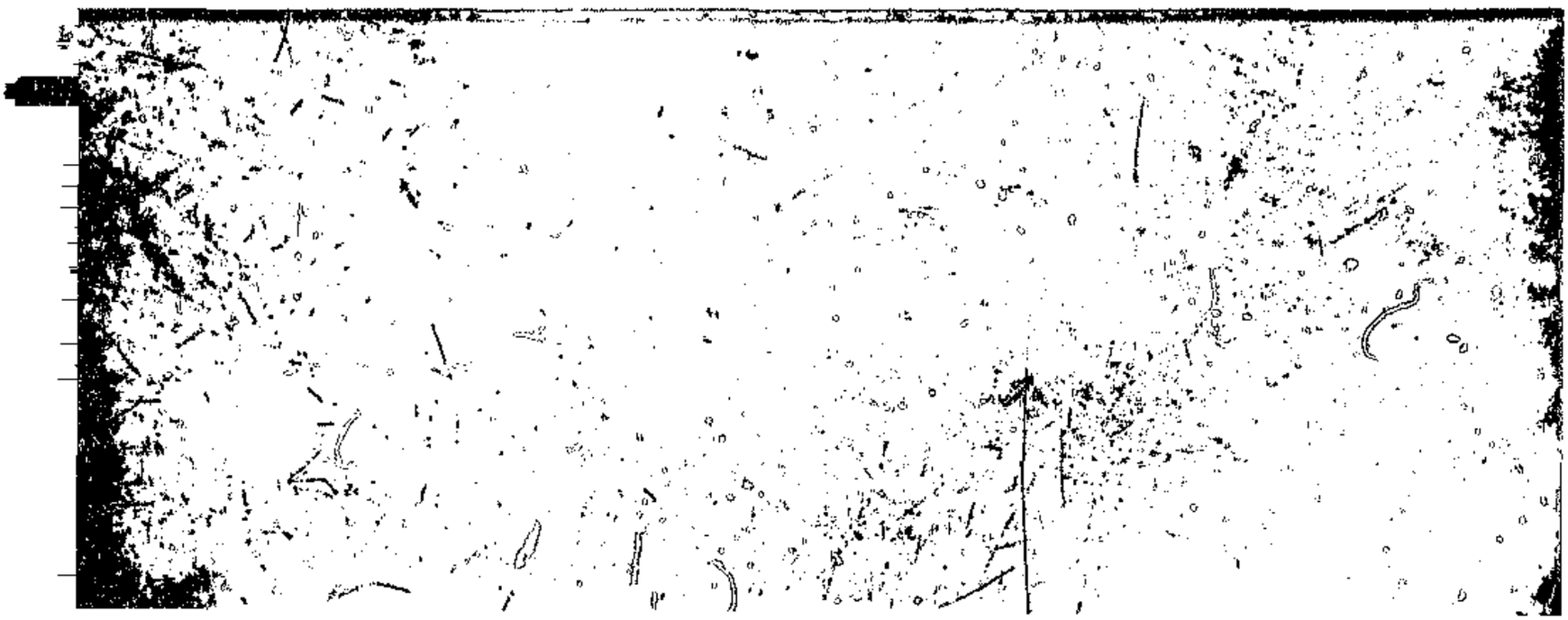
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN	TFLLN	DFRS	STMXLN	STMXLOL
IBRW	-0.03269 0.6912	0.88458 0.3035	0.10547 0.1989	0.33895 0.0001	0.15538 0.0576	0.21861 0.0072	0.14697 0.0727	-0.27267 0.0007	0.83682 0.0001	0.32648 0.0001	-0.29945 0.0302	0.37606 0.0001	0.22306 0.0061
OBRW	-0.32495 0.0056	0.24928 0.0085	-0.01677 0.8191	0.69569 0.0001	0.14516 0.0763	0.22640 0.0053	0.11132 0.1750	-0.65182 0.8001	0.70808 0.0001	0.67177 0.0001	-0.56279 0.0001	0.71109 0.0001	0.21902 0.0071
INMXL	-0.27713 0.0006	0.24493 0.0025	-0.04806 0.5592	0.81028 0.0001	0.37239 0.0001	0.15075 0.0656	0.07108 0.3874	-0.73325 0.0001	0.92822 0.0001	0.89994 0.0001	-0.75379 0.0001	0.91212 0.0001	0.19408 0.0001
INMXW	-0.20262 0.0005	0.15693 0.0551	0.03947 0.6315	0.82606 0.0001	0.38682 0.0001	0.14916 0.0685	0.09527 0.5017	-0.76928 0.0001	0.84896 0.0001	0.83389 0.0001	-0.72993 0.0001	0.84873 0.0001	0.37806 0.0001
PMXL	-0.18836 0.0210	0.23582 0.0037	-0.03085 0.7079	0.61178 0.0001	0.32819 0.0050	0.22099 0.0066	0.04852 0.5555	-0.53625 0.0001	0.65733 0.0001	0.65489 0.0001	-0.61191 0.0001	0.64872 0.0001	0.27618 0.0006
LBRP	-0.23176 0.0043	0.13802 0.0921	0.05347 0.5158	0.58385 0.0001	0.15514 0.0580	0.06093 0.4589	-0.13048 0.1115	-0.53341 0.0001	0.64646 0.0001	0.62522 0.0001	-0.46382 0.0001	0.63907 0.0001	0.24973 0.0021
INFL	-0.31152 0.0001	0.85940 0.0013	-0.02963 0.7189	0.78783 0.0001	0.87894 0.0001	0.16591 0.0425	0.10510 0.2005	-0.69623 0.0001	0.83588 0.0001	0.86883 0.0001	-0.72908 0.0001	0.94550 0.0001	0.48809 0.0001
INFW	-0.38062 0.0002	0.20506 0.0118	0.01246 0.8798	0.77416 0.0001	0.30049 0.0002	0.19228 0.0184	0.06797 0.4085	-0.58381 0.0001	0.76204 0.0001	0.83472 0.0001	-0.64078 0.0001	0.77559 0.0001	0.33107 0.0001
VANGS	0.06074 0.4603	-0.05112 0.5344	-0.09928 0.2268	0.03414 0.6783	-0.00638 0.9362	-0.06806 0.4084	-0.21302 0.0089	-0.22371 0.0059	0.05990 0.4989	0.04929 0.5492	-0.23185 0.0044	0.05279 0.5212	0.18556 0.0961
VANGB	-0.13384 0.1025	-0.08287 0.3133	-0.07729 0.3472	0.04134 0.6029	0.07764 0.3450	-0.03034 0.7125	-0.09947 0.2259	-0.33004 0.0001	0.30308 0.0002	0.23599 0.0036	-0.34366 0.0001	0.23571 0.0037	0.03072 0.7090
MHWDL	0.29847 0.0002	0.16765 0.0403	0.22756 0.0051	-0.16829 0.0395	0.09332 0.2987	-0.00215 0.9780	0.08829 0.3287	0.10779 0.1892	-0.19907 0.0146	-0.23568 0.0037	0.10223 0.2132	-0.28399 0.0123	-0.01484 0.8570
SHINL	0.01177 0.8863	0.01654 0.8407	-0.08706 0.2845	-0.17762 0.0297	-0.18691 0.0220	-0.04868 0.5502	0.01898 0.8184	0.84769 0.0022	-0.15925 0.0919	-0.14863 0.0795	0.17564 0.0316	-0.17226 0.0350	-0.16080 0.0493
LNWDRL	0.03278 0.6905	0.03014 0.7143	-0.08222 0.3172	-0.29755 0.0002	-0.20731 0.0109	-0.09109 0.2676	-0.09201 0.5273	0.85142 0.0001	-0.34905 0.0001	-0.33123 0.0001	0.32803 0.0001	-0.36990 0.0001	-0.20900 0.0103
MXLNL	0.30587 0.0001	0.18313 0.0249	0.17794 0.0294	-0.44696 0.0001	-0.15654 0.0957	-0.10115 0.0849	0.02107 0.7980	0.36370 0.8001	-0.50727 0.0001	-0.51688 0.0001	0.37108 0.0001	-0.82927 0.0001	-0.13681 0.0368
MXWDL	0.27408 0.0007	0.15282 0.0619	0.23776 0.0034	-0.10615 0.1961	0.10560 0.1984	0.01979 0.8104	0.09177 0.2640	0.83566 0.6049	-0.12372 0.1315	-0.16461 0.8441	0.05584 0.4973	0.12595 0.1245	0.03953 0.6311
APXAN	-0.00733 0.9206	-0.03560 0.6653	-0.02128 0.7961	0.19804 0.0151	0.16166 0.0481	0.15213 0.0631	0.06587 0.4232	-0.89280 0.0002	0.23993 0.0009	0.29733 0.0002	-0.34923 0.0001	0.32830 0.8001	0.10152 0.2164
APXPS	0.05946 0.4698	0.00962 0.9070	0.09927 0.2268	-0.19034 0.0196	-0.04796 0.5600	-0.11249 0.1705	-0.09372 0.2540	0.88390 0.0084	-0.03189 0.0044	-0.22804 0.9068	0.25243 0.0018	-0.24508 0.8025	-0.05902 0.4731
BSAN	-0.10091 0.2192	-0.81537 0.8519	0.08654 0.2924	0.44893 0.0001	0.19611 0.0162	0.87162 0.3638	0.03264 0.6917	-0.30422 0.8001	0.48682 0.0001	0.41123 0.0001	-0.37399 0.0001	0.42601 0.0001	0.06781 0.4096



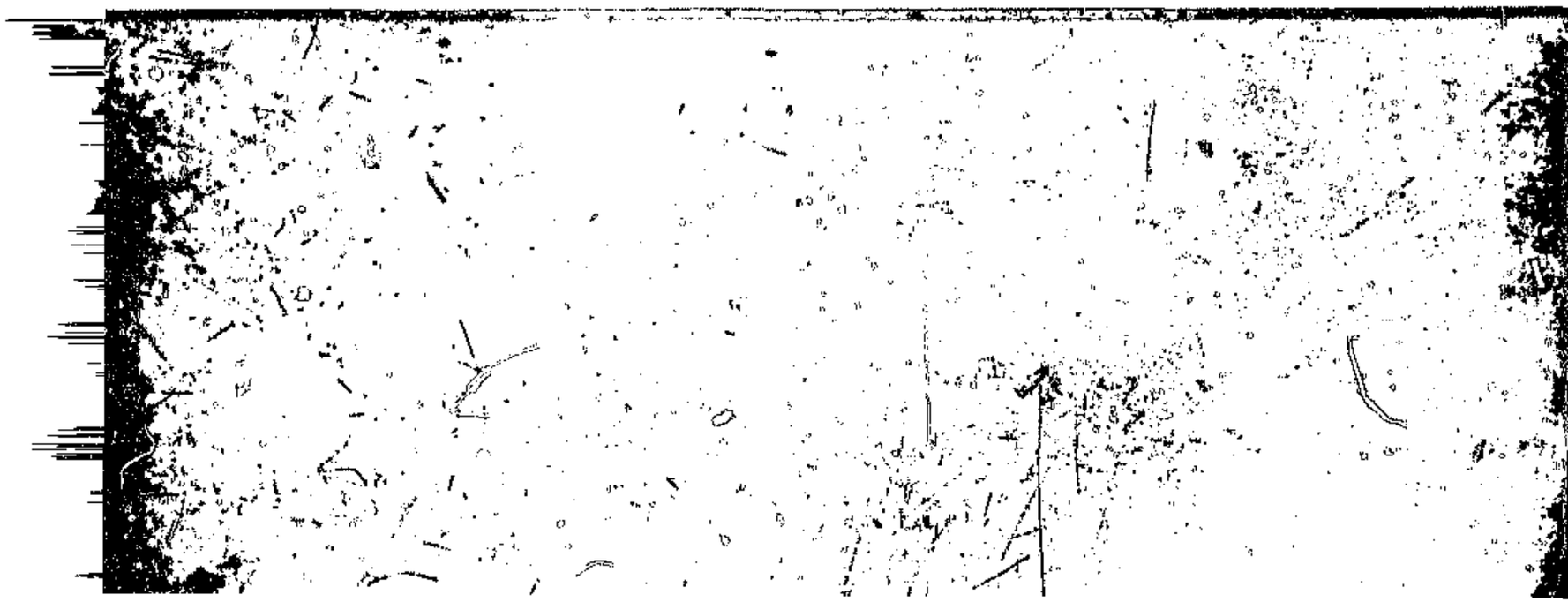
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN	TFLLN	DFRS	STMXLN	STMXLOL
BSPS	-0.09263 0.2596	-0.06601 0.4222	0.04576 0.5782	0.36069 0.0001	0.10771 0.1896	0.89607 0.2422	0.10956 0.1820	-0.25625 0.0015	0.30575 0.0001	0.38827 0.0003	-0.38067 0.0005	0.06788 0.0088	-0.10709 0.1921
SVINS	-0.18950 0.0202	-0.10536 0.1994	0.02245 0.7851	0.35906 0.4728	0.12909 0.1154	-0.32520 0.7595	-0.10597 0.1968	-0.15768 0.0540	0.39243 0.2604	0.06181 0.4524	-0.12941 0.1145	0.26988 0 0099	0.08882 0 3285
NSECV	-0.06105 0.4580	0.09950 0.2257	0.02696 0.7433	-0.30781 0.0001	-0.01582 0.8476	-0.06188 0.4519	-0.06653 0.4185	0.20406 0.0123	-0.26575 0.0010	-0.31077 0.0001	0.12200 0.1370	-0.33823 0.0001	-0.08502 0.3009
PINSV	1.00000 0.0000	-0.04183 0.6112	0.10405 0.2051	-0.26795 0.0009	-0.34699 0.5680	-0.02086 0.8000	-0.02289 0.7810	0.25060 0.0020	-0.24721 0.0023	-0.29434 0.0003	0.25687 0.0015	-0.24869 0.0068	-0.00093 0.9910
PTLLN	-0.04183 0.6112	1.00000 0.0000	-0.06010 0.4650	0.14036 0.0867	0.19118 0.0191	0.02782 0.7354	0.14370 0.0794	-0.29702 0.0002	0.24210 0.0028	0.27681 0.0006	-0.30063 0.0002	0.27039 0 0008	0.11827 0.1495
INTLN	0.10405 0.2051	-0.06010 0.4650	1.00000 0.0000	0.00010 0.9990	0.10935 0.1828	-0.01659 0.8403	-0.01727 0.8339	0.02965 0.7187	-0.04109 0.6176	0.00332 0.9670	-0.02936 0.7214	-0.00829 0.9198	-0.01769 0.8299
NFLOR	-0.26795 0.0009	0.14036 0.0867	0.00018 0.9990	1.00000 0.0000	0.20194 0.0132	0.06513 0.4285	0.01927 0.8149	-0.65838 0.0001	0.75755 0.0001	0.73787 0.0001	-0.63470 0.0001	0.75110 0.0001	0.20059 0.0138
CORLLN	-0.04699 0.5680	0.19118 0.0191	0.10935 0.1828	0.20194 0.0132	1.00000 0.0000	0.28114 0.0005	0.32340 0.0001	-0.24144 0.0029	0.38069 0.0001	0.37133 0.0001	-0.29831 0.0002	0.36211 0.0001	0.26889 0.0009
CORLWD	-0.02086 0.8000	0.02782 0.7354	-0.01659 0.8403	0.06513 0.4285	0.28114 0.0005	1.00000 0.0000	0.46593 0.0001	-0.02232 0.7863	0.17723 0.0300	0.16971 0.0379	-0.03324 0.6864	0.19955 0.0144	0.06194 0.4515
CORTWD	-0.02289 0.7810	0.14370 0.0794	-0.01727 0.8339	0.01927 0.8149	0.32340 0.0001	0.46593 0.0001	1.00000 0.0000	0.02533 0.7583	0.07668 0.3510	0.11783 0.1510	0.02110 0.7977	0.15126 0.0646	-0.02396 0.7710
HASL	0.25060 0.0020	-0.29702 0.0002	0.02965 0.7187	-0.65838 0.0001	-0.24144 0.0029	-0.02232 0.7863	0.02533 0.7583	1.00000 0.0000	-0.69749 0.0001	-0.66414 0.0001	0.66289 0.0001	-0.69599 0.0001	-0.34060 0.0001
PAPMXLN	-0.24721 0.0023	0.24210 0.0028	-0.04109 0.6176	0.75755 0.0001	0.38069 0.0001	0.17723 0.0300	0.07668 0.3510	-0.69749 0.0001	1.00000 0.0000	0.93526 0.0001	-0.70406 0.0001	0.94936 0.0001	0.41249 0.0001
TFLLN	-0.29434 0.0003	0.27681 0.0006	0.00332 0.9678	0.73737 0.0001	0.37133 0.0001	0.16971 0.0379	0.11783 0.1510	-0.66414 0.0001	0.93526 0.0001	1.00000 0.0000	-0.68606 0.0001	0.96434 0.0001	0.40786 0.0001
DFRS	0.25687 0.0015	-0.30063 0.0002	-0.02936 0.7214	-0.63470 0.0001	-0.29831 0.0002	-0.03324 0.6864	0.02110 0.7977	0.66289 0.0001	-0.70406 0.0001	-0.68606 0.0001	1.00000 0.0000	-0.70382 0.0001	-0.36179 0.0001
STMXLN	-0.24869 0.0024	0.27039 0.0008	-0.00829 0.9198	0.75110 0.0001	0.36211 0.0001	0.19955 0.0144	0.15126 0.0646	-0.69599 0.0001	0.94936 0.0001	0.96434 0.0001	-0.70382 0.0001	1.00000 0.0000	0.42928 0.0001
STMXLOL	-0.00093 0.9910	0.11827 0.1495	-0.01769 0.8299	0.20059 0.0138	0.26889 0.0009	0.06194 0.4515	-0.02396 0.7710	-0.34060 0.0001	0.41249 0.0001	0.40786 0.0001	-0.36179 0.0001	0.42928 0.0001	1.00000 0.0000
STBLN	-0.23713 0.0035	0.25270 0.0018	0.00939 0.9092	0.59314 0.0001	0.29084 0.0002	0.07701 0.3489	0.17263 0.0346	-0.64415 0.0001	0.78460 0.0001	0.82105 0.0001	-0.66041 0.0001	0.88389 0.0001	0.38364 0.0001
STBWD	0.10741 0.1908	0.13865 0.1170	0.36825 0.4060	0.24422 0.0026	0.25086 0.0020	0.39948 0.0001	0.28429 0.0004	-0.83112 0.0044	0.38188 0.0001	0.34243 0.0001	-0.27901 0.0005	0.36901 0.0001	0.36656 0.0001



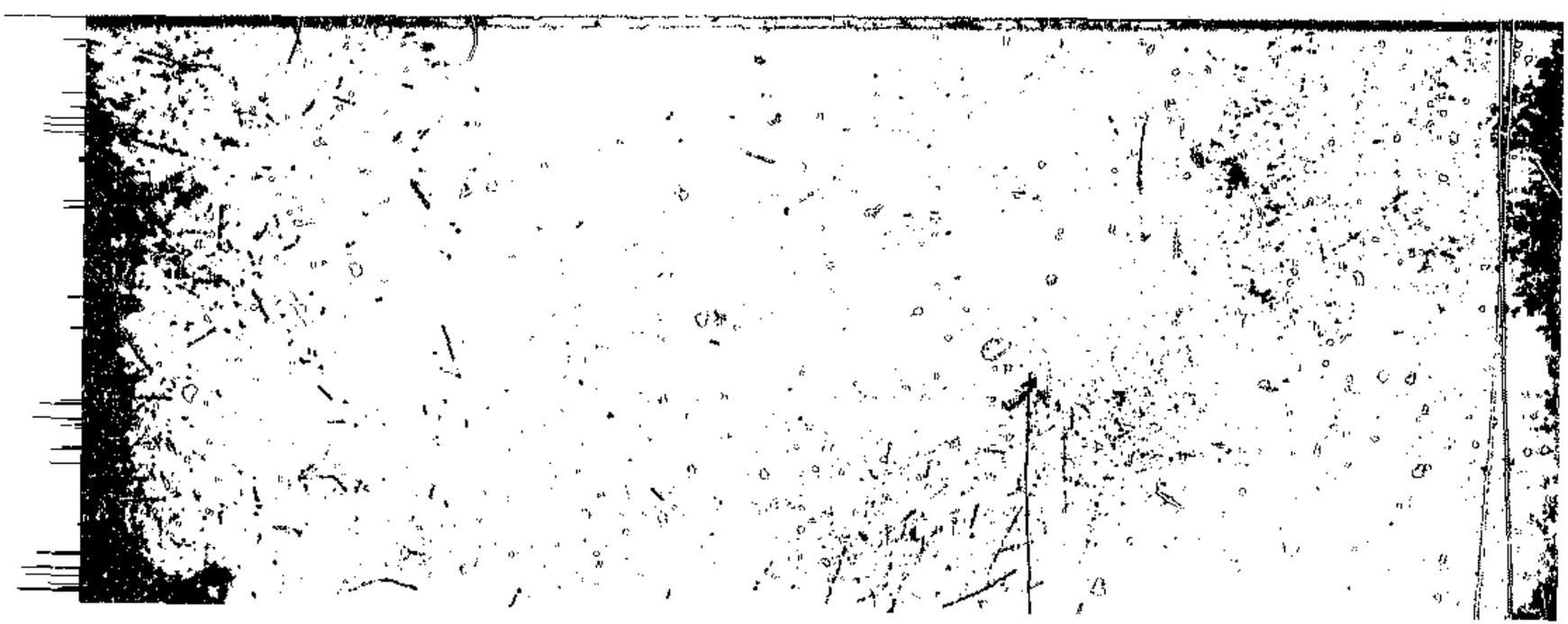
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN	TFLLN	DFRS	STMXLN	STMXLOL
ACMXLN	-0.38886 0.0001	0.13350 0.1034	0.03380 0.6813	0.39916 0.0001	0.23175 0.0043	0.11304 0.1684	0.19915 0.0517	-0.27517 0.0007	0.52839 0.0001	0.72506 0.0001	-0.30346 0.0002	0.56684 0.0001	0.16166 0.0481
ACMXWD	-0.17220 0.0351	0.07147 0.3848	-0.09616 0.2418	0.30862 0.9166	0.17104 0.0364	0.27969 0.0065	0.38718 0.0001	-0.02566 0.7552	0.18794 0.0213	0.37773 0.0006	-0.07219 0.3800	0.22497 0.0056	0.10166 0.2158
AVPAC	-0.16227 0.0473	0.15868 0.0524	-0.80557 0.9460	0.49116 0.0001	0.17532 0.0319	0.24083 0.0030	0.05724 0.4866	-0.55406 0.0001	0.64168 0.0001	0.60216 0.0001	-0.50938 0.0001	0.62497 0.0001	0.33694 0.0001
CRMXLN	-0.23381 0.0124	0.26544 0.0010	0.03156 0.7015	0.78733 0.0001	0.39418 0.0001	0.18482 0.0236	0.15005 0.0668	-0.70795 0.0001	0.95851 0.0001	0.93798 0.0001	-0.71676 0.0001	0.96918 0.0001	0.41254 0.0001
CRMXWD	0.11656 0.1555	0.02857 0.7285	0.11601 0.1574	0.16018 0.0502	0.24045 0.0030	0.46977 0.0001	0.29569 0.0002	-0.16960 0.0380	0.28019 0.0005	0.27829 0.0006	-0.20170 0.0133	0.30765 0.0007	0.32763 0.0001
CRMNWD	0.20001 0.0141	-0.11465 0.1624	0.16474 0.0440	-0.13031 0.1129	0.35913 0.4723	0.37185 0.0001	0.21604 0.6079	0.13245 0.1062	-0.14168 0.0837	-0.15687 0.0552	0.08070 0.3263	-0.12659 0.1227	0.88244 0.3159
MNNOFHD	0.26003 0.0013	-0.04748 0.5640	0. 2	-0.64898 0.0001	-0.17945 0.0280	-0.16649 0.0417	-0.02924 0.7225	0.63468 0.0001	-0.70908 0.0001	-0.63424 0.0001	0.58204 0.0001	-0.66519 0.0001	-0.87146 0.0000
IBLWR	-0.26513 0.0010	0.26410 0.0011	-0.06973 0.3965	0.68734 0.0001	0.35300 0.0001	0.05783 0.4821	-0.00487 0.9529	-0.67577 0.0001	0.84881 0.0001	0.79473 0.0001	-0.66697 0.0001	0.79781 0.0001	0.31726 0.0001
OBLWR	-0.18920 0.0204	0.18351 0.2075	0.00916 0.9114	0.35717 0.0001	0.21598 0.0078	0.01109 0.8929	0.02594 0.7527	-0.31461 0.0001	0.42879 0.0001	0.43413 0.0001	-0.37383 0.0001	0.47325 0.0001	0.17040 0.0371
INVLWR	-0.10763 0.1899	0.28013 0.0013	-0.08870 0.2804	-0.02520 0.7596	0.39939 0.0002	0.03537 0.6874	0.01236 0.8806	-0.38704 0.0084	0.32988 0.0001	0.30862 0.0001	-0.31166 0.0001	0.30533 0.0001	0.16125 0.0864
CRLLWR	-0.04104 0.6112	0.16952 0.0202	0.12025 0.1427	0.17853 0.8268	0.61478 0.0001	-0.28995 0.0008	0.03403 0.6793	-0.35774 0.0015	0.30162 0.0002	0.29214 0.0003	-0.31419 0.0001	0.26740 0.0009	0.26816 0.0009
ACLWR	-0.32780 0.0001	0.12639 0.1233	0.08980 0.2786	0.44917 0.0001	0.19682 0.0160	-0.04663 0.5709	0.00646 0.9374	-0.32773 0.0001	0.50062 0.0001	0.67487 0.0001	-0.62370 0.0001	0.52532 0.0001	0.13576 0.0976
CORLWR	-0.26189 0.0012	0.21185 0.0043	0.00849 0.9952	0.75959 0.0001	0.29185 0.0003	0.03898 0.7067	0.02922 0.7226	-0.70687 0.0001	0.89446 0.0001	0.87019 0.0001	-0.68789 0.0001	0.89752 0.0001	0.32854 0.0001
CORLMWR	-0.25849 0.0014	0.27822 0.0006	-0.03176 0.6996	0.71773 0.0001	0.30268 0.0002	0.00200 0.9806	0.02857 0.8027	-0.67339 0.0001	0.88754 0.0001	0.87985 0.0001	-0.65813 0.0001	0.88889 0.0001	0.34832 0.0001
STLLBR	-0.39499 0.0002	0.26637 0.0010	0.01329 0.8510	0.78721 0.0001	0.19732 0.0155	0.14675 0.0731	0.19110 0.1399	-0.81413 0.0001	0.78389 0.0001	0.78429 0.0001	-0.57381 0.0001	0.79595 0.0001	-0.12063 0.1415
TFLPLR	0.09192 0.2632	-0.18078 0.0200	0.05909 0.4726	-0.55844 0.0001	-0.28890 0.0037	-0.34358 0.5964	0.13301 0.1047	0.62422 0.0001	-0.67731 0.0001	-0.45287 0.0001	0.58588 0.0001	-0.54083 0.0001	-0.31291 0.0001
INFLWR	0.00681 0.9341	0.07838 0.3404	-0.07743 0.8323	-0.00572 0.9446	0.09825 0.2316	-0.05687 0.4894	0.01779 0.8289	-0.20697 0.0110	0.26771 0.0009	0.18993 0.0199	-0.13100 0.1101	0.25116 0.0019	0.15604 0.0565
LRNFHR	-0.22256 0.8062	0.13649 0.0958	-0.01008 0.9028	0.74102 0.0001	0.85064 0.0013	0.17717 0.0301	0.04554 0.5800	-0.71985 0.0001	0.38108 0.0001	0.74944 0.0001	-0.68583 0.0001	0.77118 0.0001	0.83034 0.0001



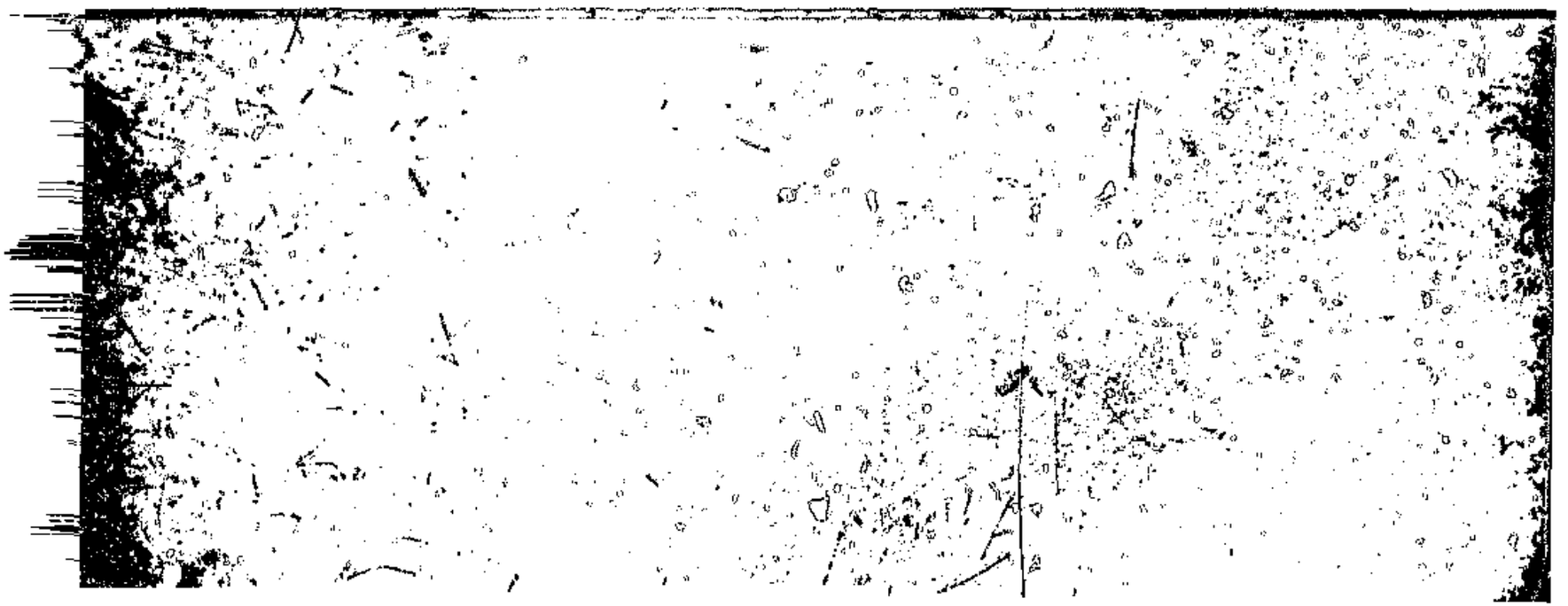
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR
MACMLEN	-0.02573 0.7546	0.13673 0.0951	0.06601 0.4222	-0.03466 0.6737	-0.11946 0.1454	-0.01777 0.8291	0.13639 0.0912	-0.01292 0.8753	0.49595 0.0001	-0.07771 0.3445	-0.09406 0.2523	-0.11241 0.1700	0.10995 0.1804
INTNDLN	-0.05573 0.4981	0.19948 0.0144	-0.11397 0.1649	-0.16759 0.0404	0.01391 0.8658	0.03843 0.6405	0.26016 0.0013	0.04464 0.4319	0.18953 0.0202	-0.02535 0.7581	-0.05992 0.4664	-0.13169 0.1082	0.14563 0.0754
NBR	0.68291 0.0001	0.34482 0.0001	0.40822 0.0001	0.12377 0.1313	0.53193 0.0001	0.80726 0.0001	0.22218 0.0063	-0.09297 0.2578	-0.61587 0.0001	0.74922 0.0001	0.38633 0.0001	0.35026 0.0001	0.29142 0.0003
IBRL	0.75261 0.0001	0.31031 0.0001	0.50825 0.0001	0.20398 0.0123	0.59419 0.0001	0.93576 0.0001	0.26337 0.0011	-0.15659 0.0557	-0.70180 0.0001	0.85029 0.0001	0.39542 0.0001	0.31526 0.0001	0.29764 0.0002
OBRL	0.67398 0.0001	0.23803 0.0034	0.41075 0.0001	0.11456 0.1627	0.60544 0.0001	0.81048 0.0001	0.17380 0.0334	-0.14284 0.0812	-0.65676 0.0001	0.73989 0.0001	0.38096 0.0001	0.16245 0.0470	0.07082 0.3891
IBRW	0.29563 0.0002	0.36232 0.0001	0.08577 0.2967	0.24600 0.0024	0.35007 0.0001	0.35915 0.0001	0.46094 0.0001	0.13075 0.1107	-0.32053 0.0001	-0.08479 0.3022	-0.12792 0.1188	-0.25034 0.0020	0.04131 0.6157
OBRW	0.58729 0.0001	0.25914 0.0009	0.31557 0.0001	0.13279 0.1052	0.57875 0.0001	0.71418 0.0001	0.23069 0.0033	-0.09760 0.2348	-0.60845 0.0001	0.58558 0.0001	0.04961 0.5466	0.04274 0.6035	0.03038 0.7184
INMXL	0.75976 0.0001	0.30080 0.0002	0.49398 0.0001	0.17766 0.0296	0.57234 0.0001	0.91748 0.0001	0.25823 0.0016	-0.16305 0.0462	-0.69977 0.0001	0.82572 0.0001	0.38002 0.0001	0.32475 0.0001	0.30062 0.0002
INMXW	0.72443 0.0001	0.40843 0.0001	0.50038 0.0001	0.20493 0.0119	0.57964 0.0001	0.84889 0.0001	0.36719 0.0001	-0.03155 0.7015	-0.70734 0.0001	0.67855 0.0001	0.30145 0.0002	-0.03519 0.6690	0.26748 0.0012
PMXL	0.57425 0.0001	0.26226 0.0012	0.37540 0.0001	0.06564 0.4249	0.55147 0.0001	0.64183 0.0001	0.14556 0.0755	-0.06701 0.4152	-0.57257 0.0001	0.63891 0.0001	0.43816 0.0001	0.27875 0.0007	0.10665 0.1940
LBRP	0.53186 0.0001	0.10364 0.2069	0.29574 0.0002	-0.01619 0.8442	0.58797 0.0001	0.62569 0.0001	0.01957 0.8121	-0.08332 0.3108	-0.49646 0.0001	0.59694 0.0001	0.40230 0.0001	0.29838 0.0002	0.13428 0.1014
INFL	0.51408 0.0001	0.34783 0.0001	0.65030 0.0001	0.25561 0.0016	0.59920 0.0001	0.93317 0.0001	0.38288 0.0005	-0.15396 0.0606	-0.85962 0.0001	0.79607 0.0001	0.30478 0.0001	0.29124 0.0005	0.29497 0.0008
INFW	0.71598 0.0001	0.41170 0.0001	0.65642 0.0001	0.21663 0.0078	0.54522 0.0001	0.76653 0.0001	0.34483 0.0001	-0.05938 0.4704	-0.56515 0.0001	0.62364 0.0001	0.37795 0.0001	0.33582 0.0678	0.19796 0.0152
VANGS	0.06398 0.4367	0.05998 0.4659	-0.02013 0.8068	-0.01397 0.8653	0.00303 0.9706	0.04565 0.5791	0.06750 0.4110	0.08716 0.2808	-0.03205 0.6971	0.03445 0.6756	0.09061 0.2701	-0.01379 0.8670	0.04093 0.6190
VANGB	0.32645 0.0001	-0.05878 0.4749	0.08418 0.3060	0.12355 0.1320	0.11604 0.1573	0.28260 0.0005	-0.06741 0.4124	-0.08366 0.3000	-0.38217 0.0005	0.33164 0.0001	0.24630 0.0024	0.28609 0.0054	0.08841 0.2820
MMWDL	-0.17955 0.0279	0.02168 0.7923	-0.21181 0.0093	-0.06874 0.4032	-0.16925 0.0204	-0.11892 0.0293	0.07021 0.3932	0.13581 0.0975	0.35179 0.0019	-0.22639 0.0053	-0.18826 0.1073	-0.04833 0.5579	0.04472 0.5869
SHINL	-0.20943 0.0101	-0.02902 0.7245	0.00158 0.9847	0.18551 0.0230	-0.22455 0.0057	-0.21292 0.0089	-0.04083 0.6199	0.08568 0.2972	0.25020 0.0020	-0.19244 0.0183	-0.17649 0.0307	-0.07542 0.3590	-0.14889 0.0690



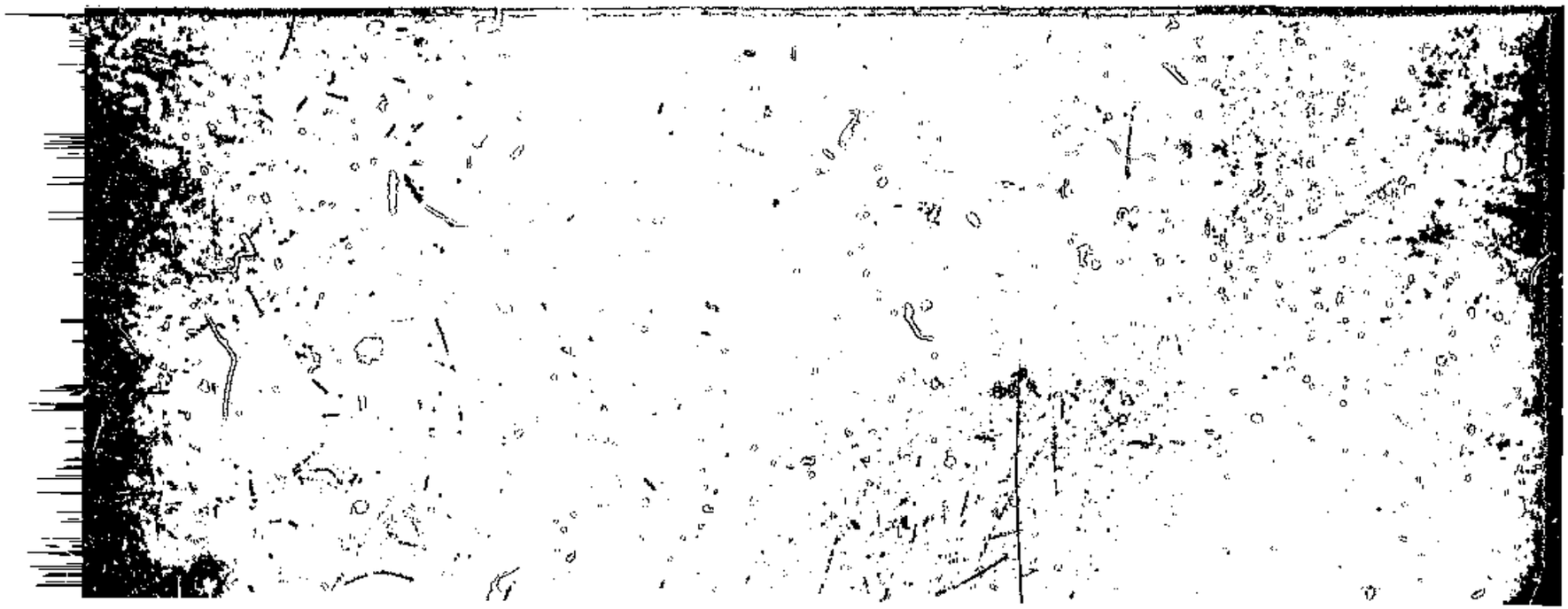
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 130

	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR
LNWDRL	-0.34464 0.0001	-0.15531 0.0577	-0.12664 0.1225	0.06083 0.4596	-0.37910 0.0001	-0.38809 0.0001	-0.19106 0.0192	0.02681 0.7447	0.32730 0.0001	-0.29273 0.0003	-0.18923 0.0204	-0.07530 0.3598	-0.15516 0.0580
MXLNL	-0.43666 0.0001	-0.15183 0.0636	-0.31480 0.0001	-0.04484 0.5926	-0.43095 0.0001	-0.51122 0.0001	-0.13476 0.1001	0.11197 0.1725	0.50241 0.0001	-0.46540 0.0001	-0.23025 0.0046	-0.07292 0.3752	-0.06253 0.4471
MXWDL	-0.09588 0.2931	0.03775 0.6465	-0.18529 0.0232	-0.11522 0.1603	-0.09714 0.2870	-0.39016 0.2726	0.07346 0.3717	0.06875 0.2800	0.15830 0.0530	-0.14714 0.0724	-0.05020 0.5418	-0.02697 0.7432	0.09004 0.2732
APXAN	0.32615 0.0001	0.27388 0.0007	0.13111 0.1098	0.08804 0.3183	0.31795 0.0001	0.33178 0.0001	0.25039 0.0020	0.01146 0.8893	-0.26163 0.0012	0.20998 0.0099	0.04572 0.5785	0.09885 0.2288	0.08340 0.3103
APXPS	-0.23456 0.0039	-0.13058 0.1117	-0.13438 0.1011	-0.21730 0.0076	-0.34792 0.0001	-0.24166 0.0029	-0.10931 0.1830	-0.00778 0.9248	0.20429 0.0122	-0.17644 0.0308	0.00046 0.9955	-0.05189 0.5282	-0.00926 0.9105
BSAN	0.36248 0.0001	0.12357 0.1319	0.19963 0.0143	0.02496 0.7617	0.20638 0.0113	0.65054 0.0001	0.28453 0.0121	0.04339 0.5980	-0.27075 0.0000	0.37848 0.0001	0.23559 0.0037	0.10918 0.1636	0.15307 0.0615
BSPS	0.19750 0.0154	0.11754 0.1520	0.25679 0.0019	0.06879 0.4029	0.03393 0.6892	0.39192 0.0003	0.04460 0.5878	0.08908 0.2783	-0.16562 0.0428	0.26337 0.0011	0.18559 0.0236	0.00883 0.9146	0.06179 0.4569
SVINS	0.12601 0.1244	-0.02400 0.7707	-0.05876 0.4750	0.00064 0.9938	0.07062 0.3905	0.10764 0.1698	0.06035 0.4059	-0.05406 0.5112	-0.05864 0.4760	0.09541 0.2455	0.00330 0.9660	0.11619 0.1568	0.12990 0.1131
NSECV	-0.27836 0.0006	-0.21356 0.0007	-0.30442 0.0121	0.05343 0.5161	-0.28899 0.0003	-0.28126 0.0005	-0.13407 0.1019	0.06668 0.4161	0.28587 0.0004	-0.20337 0.0126	-0.13500 0.0995	0.10907 0.1840	0.03274 0.6909
PINSV	-0.23713 0.0035	0.10741 0.1908	-0.34886 0.0001	-0.17228 0.0351	-0.16227 0.0473	-0.20381 0.0124	0.11656 0.1555	0.20001 0.0141	0.26003 0.0013	-0.26518 0.0010	-0.18920 0.0204	-0.10763 0.1899	-0.04184 0.6112
PTLLN	0.25270 0.0018	0.13065 0.1110	0.13350 0.1034	0.07147 0.3848	0.15868 0.0524	0.26544 0.0010	0.02657 0.7285	-0.11465 0.1624	-0.04746 0.5640	0.26410 0.0011	0.10351 0.2075	0.26073 0.0013	0.18952 0.0202
INTLN	0.00939 0.9092	0.06825 0.4066	0.03380 0.6813	-0.09616 0.2418	-0.00557 0.9460	0.33156 0.7015	0.11601 0.1574	0.16474 0.0440	0.07618 0.3542	-0.08973 0.3965	0.00916 0.9114	-0.08870 0.2004	0.12025 0.1427
NFLOR	0.59674 0.0001	0.34422 0.0026	0.39916 0.0001	0.00062 0.9166	0.49116 0.0001	0.76783 0.0001	0.18018 0.0502	-0.13831 0.1120	-0.34890 0.0001	0.68734 0.0001	0.35717 0.0001	-0.02520 0.7996	0.17853 0.0208
CORLLN	0.29684 0.0002	0.25086 0.0020	0.23175 0.0043	0.17104 0.0364	0.17532 0.0319	0.39412 0.0001	0.24845 0.0030	0.05913 0.4723	-0.17945 0.0280	0.35790 0.0001	0.31598 0.0079	0.39930 0.0002	0.61475 0.0001
CORLWD	0.07701 0.3489	0.39940 0.0001	0.11304 0.1684	0.27969 0.0005	0.24083 0.0030	0.18482 0.0236	0.46977 0.0001	0.37105 0.0001	-0.16649 0.0411	0.05783 0.4821	0.01109 0.8929	0.03537 0.6674	-0.26993 0.0008
CORTWD	0.17263 0.0346	0.28429 0.0004	0.15915 0.0517	0.34712 0.0001	0.05724 0.4866	0.15005 0.0668	0.29569 0.0002	0.01504 0.8079	-0.02924 0.7225	-0.00487 0.9529	0.02594 0.7527	0.01238 0.8806	0.03403 0.6793
HASL	-0.64475 0.0001	-0.28712 0.0044	-0.07517 0.0007	-0.02566 0.7552	-0.55406 0.0001	-0.70795 0.0001	-0.18960 0.0380	0.13245 0.1062	0.63468 0.0001	-0.37617 0.0001	-0.31461 0.0001	-0.28704 0.0004	-0.25774 0.0015
PAPMXLN	0.78460 0.0001	0.38388 0.0001	0.52859 0.0001	0.18794 0.0213	0.64168 0.0001	0.95851 0.0001	0.28019 0.0005	-0.14168 0.0837	-0.70908 0.0001	0.84561 0.0001	0.42879 0.0001	0.32988 0.0001	0.30182 0.0002



SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

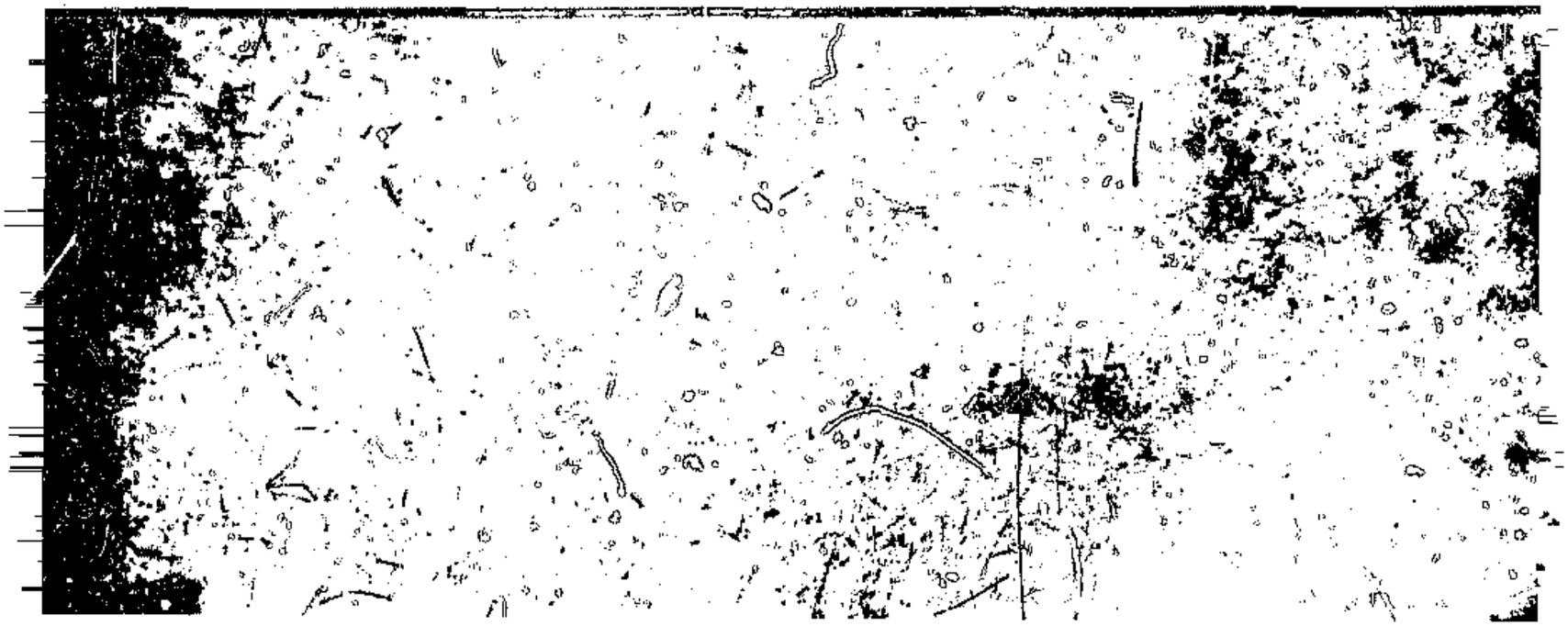
	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR
TFLLN	0.82105 0.0001	0.34243 0.0001	0.72506 0.0001	0.37773 0.0006	0.60216 0.0001	0.93790 0.0001	0.27829 0.0006	-0.15687 0.0552	-0.03884 0.0001	0.78473 0.0001	0.43413 0.0001	0.30662 0.0001	0.29214 0.0003
DFRS	-0.36041 0.0001	-0.27901 0.0005	-0.30346 0.0002	-0.07219 0.3800	-0.50938 0.0001	-0.71676 0.0001	-0.20170 0.0133	0.38070 0.3263	0.58204 0.0001	-0.66607 0.0001	-0.31363 0.0001	-0.31166 0.0001	-0.31419 0.0001
STMXLN	0.80629 0.0001	0.36901 0.0001	0.56684 0.0001	0.22497 0.0056	0.62497 0.0001	0.96910 0.0001	0.30765 0.0001	-0.12659 0.1227	-0.66519 0.0001	0.79781 0.0001	0.43325 0.0001	0.30533 0.0001	0.26740 0.0009
STMXLOL	0.38364 0.0001	0.36656 0.0001	0.16166 0.0481	0.10166 0.2158	0.83694 0.0001	0.81254 0.0001	0.32763 0.0001	0.08244 0.3159	-0.27146 0.0000	0.81726 0.0001	0.17040 0.0371	0.18125 0.0264	0.26816 0.0009
STBLN	1.00000 0.0000	0.92076 0.0001	0.54999 0.0001	0.90341 0.0125	0.56828 0.0001	0.88828 0.0001	0.28977 0.0003	-0.09812 0.2223	-0.86979 0.0001	0.87118 0.0001	0.39444 0.0001	0.23688 0.0035	0.25153 0.0019
STBWD	0.92076 0.0001	1.00000 0.0000	0.23592 0.0037	0.26221 0.0012	0.36434 0.0001	0.35684 0.0001	0.76469 0.0001	0.32374 0.0001	-0.23822 0.0033	0.12948 0.1143	0.04040 0.6235	-0.14028 0.0869	0.01978 0.8101
ACMXLN	0.54992 0.0001	0.23592 0.0037	1.00000 0.0000	0.43571 0.0001	0.28239 0.0005	0.52378 0.0001	0.17286 0.0344	-0.15573 0.0570	-0.26913 0.0009	0.42608 0.0001	0.28124 0.0005	0.10223 0.2132	0.17031 0.0372
ACMXWD	0.30341 0.0125	0.26221 0.0012	0.43671 0.0001	1.00000 0.0000	0.13655 0.0957	0.18895 0.0206	0.32538 0.0001	0.20140 0.0135	-0.05088 0.5364	0.08188 0.3186	-0.07831 0.3408	0.00125 0.9879	0.01561 0.8496
NVPAC	0.56878 0.0001	0.36434 0.0001	0.28239 0.0005	0.13655 0.0957	1.00000 0.0000	0.59942 0.0001	0.36388 0.0001	0.02097 0.7990	-0.59865 0.0001	0.48181 0.0001	0.26372 0.0011	0.15822 0.0531	0.05578 0.4978
CRMXLN	0.80128 0.0001	0.35664 0.0001	0.52378 0.0001	0.18895 0.0206	0.59942 0.0001	1.00000 0.0000	0.31686 0.0001	-0.10380 0.2062	-0.68555 0.0001	0.82668 0.0001	0.42668 0.0001	0.30077 0.0002	0.30756 0.0001
CRMXWD	0.28977 0.0003	0.76469 0.0001	0.17286 0.0344	0.32538 0.0001	0.36388 0.0001	0.31686 0.0001	1.00000 0.0000	0.40663 0.0001	-0.19903 0.0146	0.02120 0.7968	-0.08763 0.2863	-0.16487 0.0438	-0.02011 0.8010
CRMNWD	-0.09812 0.2323	0.32374 0.0001	-0.15573 0.0570	0.20140 0.0135	0.02097 0.7990	-0.10380 0.2062	0.40663 0.0001	1.00000 0.0000	0.09571 0.2440	-0.20327 0.0126	-0.08026 0.3289	-0.23896 0.0032	-0.14045 0.0865
NWNOFHD	-0.86979 0.0001	-0.23822 0.0033	-0.26913 0.0009	-0.05088 0.5364	-0.59865 0.0001	-0.68555 0.0001	-0.19903 0.0146	0.09571 0.2440	1.00000 0.0000	-0.59660 0.0001	-0.25159 0.0005	-0.09151 0.2654	-0.09434 0.2508
IBLWR	0.87118 0.0001	0.12948 0.1148	0.42608 0.0001	0.08188 0.3186	0.48181 0.0001	0.82668 0.0001	0.02120 0.7968	-0.20327 0.0126	-0.59660 0.0001	1.00000 0.0000	0.52583 0.0001	0.50512 0.0001	0.33425 0.0001
OBLWR	0.39444 0.0001	0.04040 0.6235	0.28124 0.0005	-0.07831 0.3408	0.26372 0.0011	0.41689 0.0001	-0.08763 0.2863	-0.08026 0.3289	-0.25159 0.0005	0.52583 0.0001	1.00000 0.0000	0.39077 0.0001	0.19923 0.0145
INVLWR	0.23688 0.0035	-0.14028 0.0869	0.10223 0.2132	0.00125 0.9879	0.15822 0.0531	0.30077 0.0002	-0.16487 0.0438	-0.23896 0.0032	-0.09151 0.2654	0.50512 0.0001	0.39077 0.0001	1.00000 0.0000	0.27214 0.0008
CRLLWR	0.25153 0.0019	0.01978 0.8101	0.17031 0.0372	0.01561 0.8496	0.05578 0.4978	0.30756 0.0001	-0.02011 0.8070	-0.14045 0.0865	-0.09434 0.2508	0.33425 0.0001	0.19923 0.0145	0.27214 0.0008	1.00000 0.0000
ACLWR	0.53793 0.0001	0.12184 0.1311	0.87270 0.0001	-0.00687 0.9085	0.85737 0.0015	0.49846 0.0001	0.01365 0.8633	-0.27627 0.0007	-0.27662 0.0006	0.46795 0.0001	0.38691 0.0001	0.13593 0.0972	0.22194 0.0065



SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

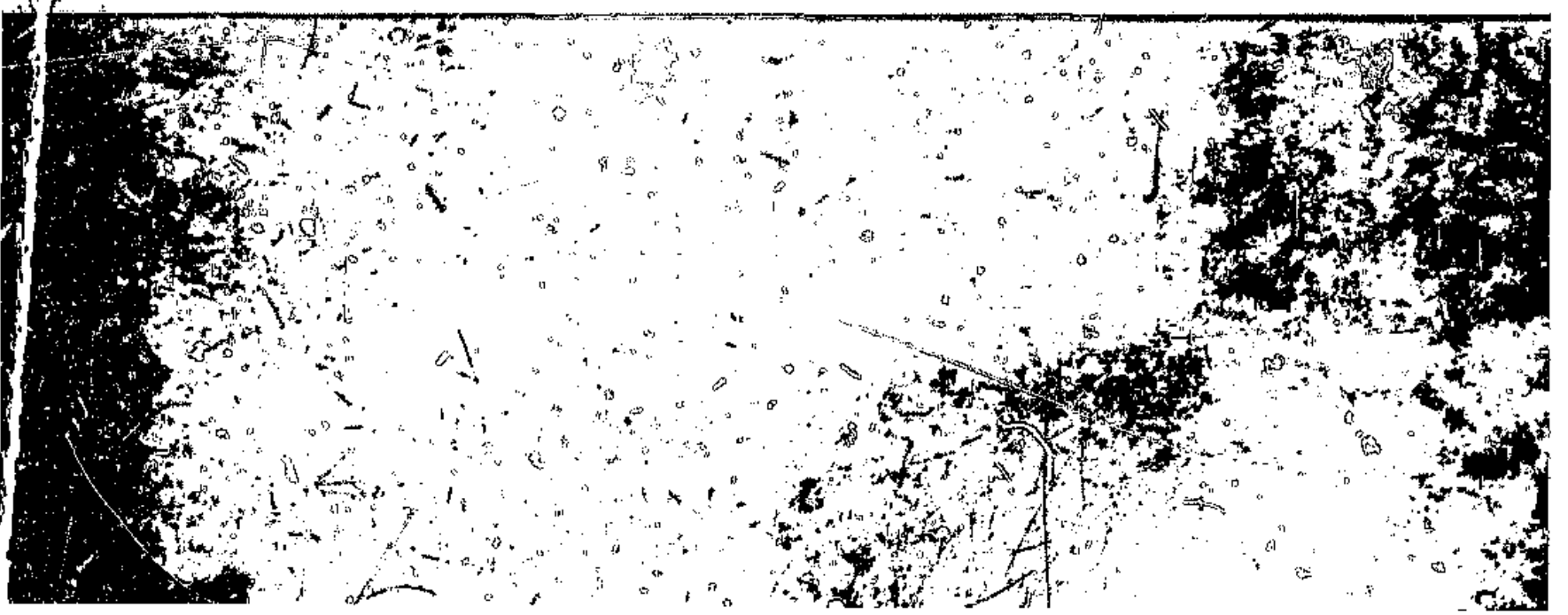
	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR
CORLWR	0.73296 0.0001	0.09626 0.2413	0.45997 0.0001	0.06278 0.4453	0.52612 0.0001	0.92107 0.0001	-0.02841 0.7300	-0.28528 0.0038	-0.64912 0.0001	0.65738 0.0001	0.46260 0.0001	0.38516 0.0001	0.29055 0.0003
CORLMWR	0.74092 0.0001	0.17163 0.0357	0.50243 0.0001	0.08349 0.3097	0.54134 0.0001	0.90597 0.0001	0.10922 0.1834	-0.46313 0.0001	-0.63791 0.0001	0.60170 0.0001	0.38600 0.0001	0.37419 0.0001	0.32161 0.0001
STLLBR	0.65548 0.0001	0.14374 0.0793	0.48748 0.0001	0.11545 0.1595	0.61807 0.0001	0.78028 0.0001	0.10496 0.2012	-0.28528 0.0038	-0.60071 0.0001	0.69485 0.0001	0.38432 0.0001	0.32234 0.0062	0.10899 0.1843
TFLPLR	-0.43782 0.0001	-0.13005 0.1127	0.11443 0.1632	0.18125 0.0487	-0.52386 0.0001	-0.60682 0.0001	-0.09253 0.2601	0.10094 0.2191	0.64414 0.0001	-0.61633 0.0001	-0.26559 0.0010	-0.26468 0.0011	-0.23977 0.0031
INFLWR	0.14010 0.0873	-0.11437 0.1634	-0.04027 0.6247	0.02696 0.7433	0.07116 0.3869	0.28955 0.0021	-0.12074 0.1411	-0.10528 0.1998	-0.17347 0.0338	0.28489 0.0004	0.06754 0.4115	0.43391 0.0001	0.14860 0.0696
LRNFHR	0.85160 0.0001	0.86155 0.0001	0.37110 0.0001	0.07957 0.3331	0.64693 0.0001	0.79233 0.0001	0.33854 0.0001	-0.11047 0.1784	-0.61682 0.0001	0.65948 0.0001	0.28080 0.0005	0.08869 0.2805	0.19015 0.0198

	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR
RACMLEN	0.09547 0.2656	-0.07226 0.3795	-0.00464 0.9550	-0.07427 0.3664	0.21033 0.0098	-0.08187 0.3193	-0.16395 0.0450
INTNDLN	-0.02843 0.7298	-0.06377 0.4382	0.00676 0.9344	-0.10361 0.2070	-0.07144 0.3850	0.00336 0.9675	0.04337 0.5982
NBR	0.40081 0.0001	0.76787 0.0001	0.78486 0.0001	0.62188 0.0001	-0.58786 0.0801	0.17575 0.0315	0.69402 0.0001
IBRL	0.47454 0.0001	0.88285 0.0001	0.86840 0.0001	0.76182 0.0001	-0.63511 0.0001	0.30357 0.0002	0.80781 0.0001
OBRL	0.40512 0.0001	0.79487 0.0001	0.76037 0.0001	0.76506 0.0001	-0.57535 0.0001	0.23591 0.0037	0.75122 0.0001
IBRW	-0.00060 0.9942	0.21384 0.0086	0.25924 0.0014	0.25136 0.0019	-0.27702 0.0006	0.07228 0.3794	0.39363 0.0001
OBRW	0.87690 0.0006	0.67861 0.0001	0.66279 0.0001	0.66824 0.0001	-0.54299 0.0001	0.21197 0.0092	0.71243 0.0001
INWXL	0.47343 0.0001	0.86456 0.0001	0.88106 0.0001	0.73848 0.0001	-0.62150 0.0001	0.30112 0.0002	0.80508 0.0001
INWXW	0.45960 0.0001	0.75301 0.0001	0.74886 0.0001	0.69219 0.0001	-0.56274 0.0001	0.07562 0.3577	0.82870 0.0001
PMXL	0.37744 0.0001	0.63975 0.0001	0.60507 0.0001	0.57830 0.0001	-0.48186 0.0001	0.05227 0.5253	0.67872 0.0001
LBRF	0.35992 0.0001	0.68456 0.0001	0.62003 0.0001	0.59445 0.0001	-0.53129 0.0001	0.18415 0.0241	0.55829 0.0001



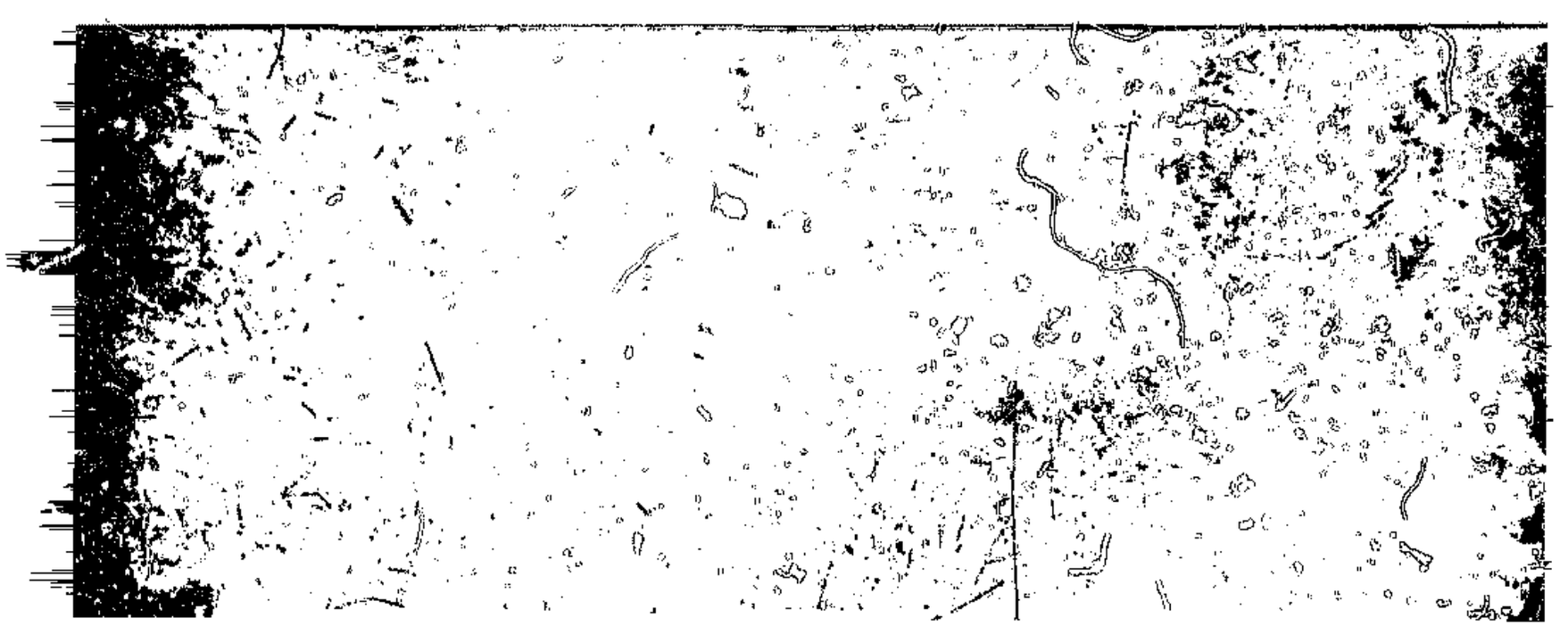
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	ACLWR	CORLWR	CORLWWR	STLLBR	TFLPLR	INFLWR	LRNFHR
INFL	0.61644 0.0001	0.85545 0.0001	0.87215 0.0001	0.76517 0.0001	-0.51061 0.0001	0.21740 0.0075	0.77833 0.0001
INEW	0.42219 0.0001	0.67436 0.0001	0.68931 0.0001	0.55596 0.0001	-0.41418 0.0001	-0.30605 0.0001	0.67552 0.0001
VARGS	0.02123 0.7965	0.01611 0.8448	0.00658 0.9362	-0.04082 0.6199	-0.03271 0.6911	0.03097 0.7067	0.05568 0.8020
VARGB	0.05096 0.5357	0.32289 0.0001	0.27747 0.0006	0.23439 0.0039	-0.30767 0.0001	0.11324 0.1677	0.27658 0.0006
MMMDL	-0.21023 0.0098	-0.21645 0.0078	-0.28089 0.0045	-0.24183 0.0029	0.09704 0.2374	0.00609 0.9411	-0.28878 0.0983
SHINL	-0.08567 0.8975	-0.22004 0.0096	-0.20593 0.0115	-0.11436 0.1635	0.23523 0.0038	0.09443 0.2504	-0.28878 0.0983
LRWDRL	-0.16667 0.0415	-0.33667 0.0001	-0.32779 0.0001	-0.28314 0.0004	0.32176 0.0001	0.06078 0.4608	-0.36380 0.0001
MXLNL	-0.33143 0.0001	-0.49788 0.0001	-0.48974 0.0001	-0.49282 0.0001	0.35098 0.0001	0.04657 0.5715	-0.50806 0.0001
DGMDL	-0.16082 0.0493	-0.12533 0.1265	-0.13834 0.0914	-0.17971 0.0278	0.01635 0.8426	-0.01414 0.8636	-0.12194 0.1371
MPXAN	0.10698 0.1926	0.27678 0.0006	0.28388 0.0004	0.33073 0.0001	-0.28578 0.0004	-0.06298 0.4439	0.30725 0.0001
MXPS	-0.03597 0.6621	-0.24097 0.0030	-0.21020 0.0098	-0.29703 0.0002	0.28178 0.0001	-0.02224 0.7871	-0.21902 0.0071
MSAN	0.19824 0.0150	0.39091 0.0001	0.36056 0.0001	0.37915 0.0001	-0.31593 0.0001	0.02153 0.7937	0.35507 0.0001
MSPS	0.23089 0.0045	0.27885 0.0006	0.20253 0.0129	0.32518 0.0001	-0.34523 0.0001	-0.00563 0.9455	0.23722 0.0035
SVINS	-0.03352 0.6839	0.11468 0.1623	0.13044 0.1116	0.04516 0.5832	-0.11821 0.1497	0.01381 0.8668	0.09086 0.2688
MSECV	-0.25771 0.0015	-0.26631 0.0010	-0.29356 0.0007	-0.33303 0.0001	0.13266 0.1056	-0.00836 0.9192	-0.32246 0.0001
PINSV	-0.32780 0.0001	-0.26189 0.0012	-0.25849 0.0014	-0.29499 0.0002	0.09192 0.2632	0.00681 0.9341	-0.22256 0.0062
PTLLN	0.12639 0.1233	0.23185 0.0043	0.27822 0.0006	0.26637 0.0010	-0.18978 0.0200	0.07838 0.3404	0.13649 0.0958
PTLN	0.08940 0.2766	0.00049 0.9952	-0.03176 0.6996	0.01129 0.8910	0.05909 0.4726	-0.01743 0.8323	-0.01008 0.9026



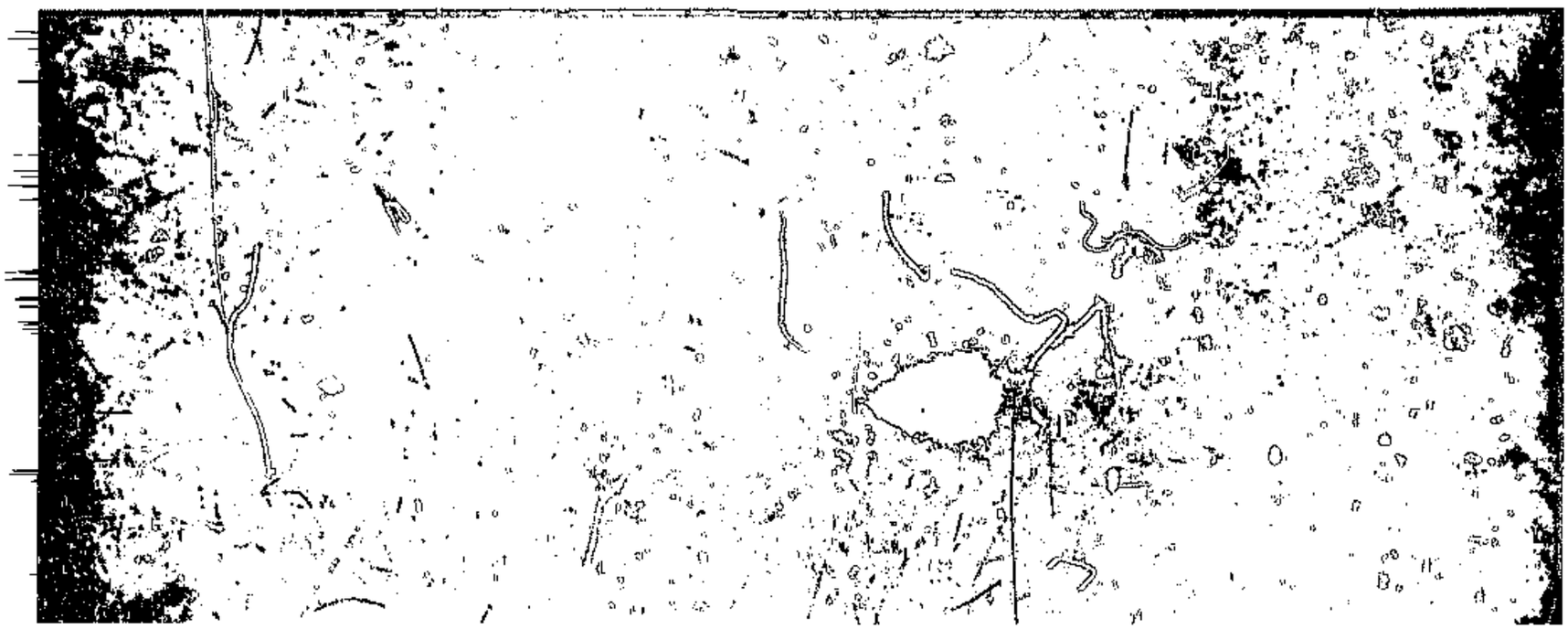
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	AGLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFWR
NFLOR	0.44917 0.0001	0.75959 0.0001	0.71773 0.0001	0.70721 0.0001	-0.55844 0.0001	-0.00572 0.9446	0.74102 0.0001
CORLLN	0.19642 0.0160	0.29185 0.0003	0.30268 0.0002	0.19732 0.0155	-0.23590 0.0037	0.09825 0.2316	0.26064 0.0013
CORLWD	-0.04663 0.5709	0.03098 0.7067	0.00200 0.9806	0.14675 0.0731	-0.04358 0.5964	-0.05687 0.4894	0.17717 0.0301
CORTWD	0.00646 0.9374	0.02922 0.7226	0.02057 0.8027	0.12119 0.1399	0.13301 0.1047	0.01779 0.8289	0.04554 0.5800
HASL	-0.32773 0.0001	-0.70607 0.0001	-0.67339 0.0001	-0.61413 0.0001	0.62422 0.0001	-0.20697 0.0110	-0.71985 0.0001
PAPMXLN	0.50062 0.0001	0.89446 0.0001	0.88754 0.0001	0.76369 0.0001	-0.67731 0.0001	0.26771 0.0009	0.80109 0.0001
TELLN	0.67487 0.0001	0.87018 0.0001	0.87925 0.0001	0.78429 0.0001	-0.45287 0.0001	0.18993 0.0199	0.74944 0.0001
DFRS	-0.32270 0.0001	-0.68789 0.0001	-0.65813 0.0001	-0.57581 0.0001	0.58506 0.0001	-0.13100 0.1101	-0.66953 0.0001
STMXLN	0.52532 0.0001	0.89756 0.0001	0.88490 0.0001	0.79595 0.0001	-0.54053 0.0001	0.25116 0.0019	0.77118 0.0001
STMXLOL	0.13576 0.0976	0.32854 0.0001	0.34882 0.0001	-0.12063 0.1415	-0.31291 0.0001	0.15604 0.0565	0.33034 0.0001
STBLN	0.53793 0.0001	0.73296 0.0001	0.74092 0.0001	0.65584 0.0001	-0.43782 0.0001	0.14010 0.0873	0.65160 0.0001
STBWD	0.12384 0.1311	0.09626 0.2413	0.17163 0.0357	0.14374 0.0793	-0.13005 0.1127	-0.11437 0.1634	0.36155 0.0001
ACMXLN	0.87270 0.0001	0.45997 0.0001	0.50243 0.0001	0.48748 0.0001	0.11443 0.1632	-0.04027 0.6247	0.37710 0.0001
ACMXWD	-0.00687 0.9335	0.06278 0.4453	0.08349 0.3097	0.11545 0.1595	0.16125 0.0487	0.02696 0.7453	0.07957 0.3331
NVPAC	0.25737 0.0015	0.52612 0.0001	0.54134 0.0001	0.51807 0.0001	-0.52386 0.0001	0.07116 0.3869	0.64693 0.0001
CRMXLN	0.49846 0.0001	0.92101 0.0001	0.90597 0.0001	0.78020 0.0001	-0.60682 0.0001	0.24955 0.0021	0.79233 0.0001
CRMBWD	0.01365 0.8683	-0.02841 0.7300	0.10922 0.1834	0.10496 0.2012	-0.09253 0.2601	-0.12074 0.1411	0.33054 0.0001
CRMHWD	-0.27527 0.0007	-0.26520 0.0010	-0.46313 0.0001	-0.23524 0.0038	0.10094 0.2191	-0.10528 0.1998	-0.11047 0.1784



SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / N = 150

	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR
NWNOFHD	-0.27682 0.0006	-0.64912 0.0001	-0.63791 0.0001	-0.60011 0.0001	0.64410 0.0001	-0.17347 0.0338	-0.91682 0.0001
IBLWR	0.46795 0.0001	0.85738 0.0001	0.80170 0.0001	0.69485 0.0001	-0.61613 0.0001	0.28489 0.0004	0.65940 0.0001
OBLWR	0.38091 0.0001	0.46269 0.0001	0.98600 0.0001	0.38432 0.0001	-0.26559 0.0010	0.06754 0.4115	0.88080 0.0005
INVLWR	0.13593 0.0972	0.38518 0.0001	0.37419 0.0001	0.22234 0.0062	-0.26468 0.0011	0.43391 0.0001	0.08069 0.2805
CRLLWR	0.22194 0.0063	0.29055 0.0003	0.32161 0.0001	0.10899 0.1843	-0.23977 0.0031	0.14860 0.0696	0.19015 0.0198
ACLWR	1.00000 0.0000	0.50108 0.0001	0.53260 0.0001	0.49885 0.0001	0.02178 0.7913	-0.02903 0.7243	0.37603 0.0001
CORLWR	0.50108 0.0001	1.00000 0.0000	0.91498 0.0001	0.78231 0.0001	-0.62343 0.0001	0.30677 0.0001	0.70044 0.0001
CORLMWR	0.53260 0.0001	0.91498 0.0001	1.00000 0.0000	0.76751 0.0001	-0.59150 0.0001	0.26948 0.0009	0.74026 0.0001
STLLBR	0.49885 0.0001	0.78231 0.0001	0.76751 0.0001	1.00000 0.0000	-0.47044 0.0001	0.15512 0.0580	0.66725 0.0001
TFLPLR	0.02178 0.7913	-0.62343 0.0001	-0.59150 0.0001	-0.47044 0.0001	1.00000 0.0000	-0.20029 0.0140	-0.62070 0.0001
INFLWR	-0.02903 0.7243	0.30677 0.0001	0.26948 0.0009	0.15512 0.0580	-0.20029 0.0140	1.00000 0.0000	0.16976 0.0378
LRNFHR	0.67603 0.0001	0.70844 0.0001	0.74026 0.0001	0.66725 0.0001	-0.62070 0.0001	0.16976 0.0378	1.00000 0.0000



OBS	_TYPE_	_NAME_	RACMLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP
1	MEAN		54.7851	5.06087	6.556	6.4516	1.84093	1.15787	1.1	9.25027	4.8184	5.73507	3.11813
2	STD		14.3095	1.43783	1.50558	2.20525	0.572086	0.219348	0.319505	3.23171	1.59514	2.30686	1.04356
3	N		150	150	150	150	150	150	150	150	150	150	150
4	CORR	RACMLEN	1	0.623095	-.033826	-.026465	-.016908	.0598613	.0157567	-.022069	.0266391	.0174357	-.015315
5	CORR	INTNDLN	0.623005	1	.0640203	.0679247	.0320548	0.138791	.0585104	.0558802	0.116595	-.023706	.0072015
6	CORR	NBR	-.033826	.0640203	1	0.859314	0.704973	0.343082	0.599093	0.899176	0.807995	0.601667	0.509378
7	CORR	IBRL	-.026465	.0679247	0.859314	1	0.851146	0.422327	0.740118	0.982174	0.90031	0.608682	0.621101
8	CORR	OBRL	-.016908	.0320548	0.704973	0.851146	1	0.400007	0.91966	0.841953	0.8235	0.639666	0.589775

OBS	INFL	INFW	VANGS	VANGB	MIWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN
1	12.6446	5.26653	56.7467	57.64	9.49033	66.578	3.27513	92.0387	28.6533	81.7	3.7792	46.52
2	3.37362	1.45965	6.28964	13.02	1.69056	3.67772	0.642001	17.3809	5.69785	21.1986	1.23939	13.1607
3	150	150	150	150	150	150	150	150	150	150	150	150
4	.0128557	.0531112	.0400256	-.047748	0.216344	-.002768	-.084615	0.128779	0.190837	.0044115	.0119519	.0612202
5	.0100767	.0097476	.0770801	-.054727	0.252216	-.088657	-.178284	.0747154	0.253628	0.116834	-.036999	0.10475
6	0.872248	0.737074	0.153036	0.365114	-.220321	-.127347	-.304554	-.475402	-0.16523	0.316311	-.256202	0.335268
7	0.947943	0.760151	.0443569	0.323768	-.175543	-0.19623	-.381057	-.496757	-.104338	0.294509	-0.28289	0.443948
8	0.815702	0.649252	.0208818	0.246658	-.184717	-.156089	-.304318	-.429417	-.126615	0.138685	-.274261	0.360168

OBS	BSPS	SVINS	NSECV	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN
1	92.1488	1.2962	19.56	29.3844	9.89267	9.89633	13.3333	0.588333	0.2062	0.4522	279.327	6.66673
2	2.31373	0.601081	3.16542	15.895	2.72499	3.70505	6.55028	0.126626	.0251618	.0587666	458.927	1.94231
3	150	150	150	150	150	150	150	150	150	150	150	150
4	.0495738	.0441879	.0270535	0.178168	0.116037	0.156587	0.009957	.0496334	-.143567	.0259514	.0466265	-0.06419
5	.0666008	.0465974	-.006315	0.240795	.0529727	.0956523	.0551688	0.109718	-.079733	-.017235	-.031027	.0342267
6	0.297371	0.124479	-.230535	-.235694	0.247524	-.033585	0.710867	0.350804	0.141892	.0507099	-.699479	0.839351
7	0.326865	.0778985	-.293399	-.230345	0.260701	-.009935	0.794055	0.380794	0.157748	0.080031	-.702848	0.969395
8	0.322152	.0178648	-.356154	-.236662	0.227131	-.029328	0.778244	0.140511	0.155413	.0916477	-.556313	0.82315

OBS	TFLLN	DFRS	STMXLN	STMXLOL	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWO	CRMNWD
1	10.2655	58.9889	7.19973	0.682133	0.807	0.379067	2.9184	0.7432	8.67333	5.72727	0.518667	0.2882
2	2.28399	120.281	1.78983	0.113318	0.286325	.0610682	0.7228	.0859321	0.75704	1.47524	.0414934	.0271231
3	150	150	150	150	150	150	150	150	150	150	150	150
4	.0194409	.0771845	-.012133	.0563326	-.013985	0.152107	0.103531	-.010388	-.127662	-.015405	0.109155	-.051953
5	.0044558	-.013699	.0298827	0.211742	-.054424	0.151182	-0.08627	-.158765	.0359248	.0774033	0.23863	.0651953
6	0.803315	-0.65605	0.819678	0.437438	0.649961	0.33635	0.432752	.0954035	0.550698	0.8346	0.223586	-.077882
7	0.927419	-.641558	0.948712	0.420436	0.74162	0.247879	0.516625	0.141258	0.62315	0.955614	0.252364	-.127227
8	0.787426	-.473585	0.829342	0.261146	0.657995	0.207191	0.415442	0.114425	0.605258	0.820872	0.173989	-.110358

OBS	NWNOFHO	IBLWR	OBLWR	INVLWR	CRLLWR	ACLWR	CORLWR	CORLWWR	BTLLBR	TFLPLR	INFLWR	LRNFHR
1	1.175	5.6102	1.67571	1.94327	2.86948	3.93342	11.0422	20.1049	10.6167	1.59121	2.43626	4.36994
2	0.353148	1.80951	0.216012	0.35255	0.586122	0.885506	2.71686	5.65346	2.43498	0.222239	0.372507	2.39297
3	150	150	150	150	150	150	150	150	150	150	150	150
4	0.433113	-.077547	-.081859	-.115259	0.129834	0.115628	-.054771	-.002039	-0.05053	0.174116	-.084619	-.131774
5	0.133637	-.011504	-.061204	-.138348	0.166142	-.011944	.0019077	.0429537	-.105889	-.078082	.0305877	0.064277
6	-.642783	0.729848	0.379531	0.236352	0.286499	0.413884	0.807729	0.778764	0.619435	-.670017	0.176376	0.702575
7	-.754806	0.841207	0.403276	0.166412	0.305701	0.482104	0.920973	0.901529	0.769317	-.752451	0.254555	0.813343
8	-.703185	0.699629	0.34635	-.026595	.0546763	0.385601	0.80947	0.77477	0.744899	-.641638	0.193543	0.73169



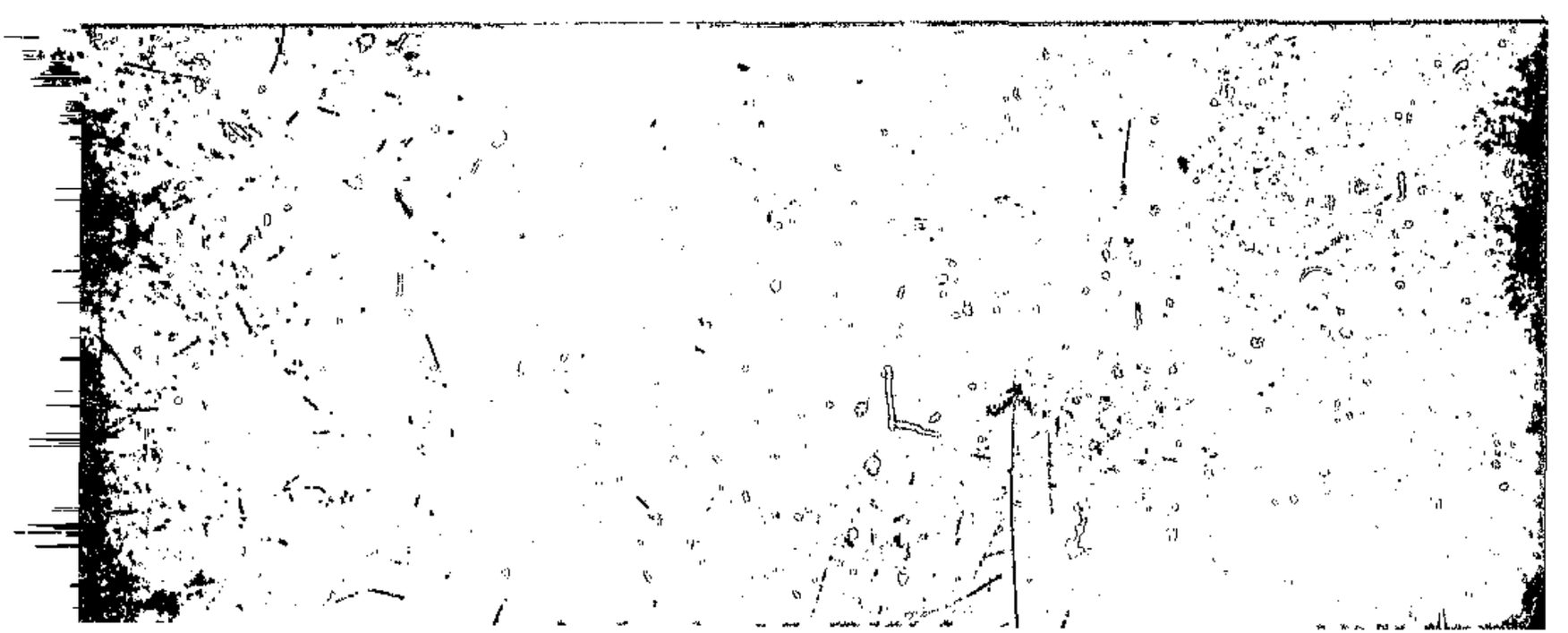
OBS	_TYPE_	_NAME_	RACNLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP
9	CORR	IBRW	.0598613	0.138791	0.343082	0.422327	0.400007	1	0.491883	0.420427	0.573361	0.201574	0.231011
10	CORR	OBRW	.0157567	.0585104	0.599093	0.740118	0.91966	0.491883	1	0.732736	0.770844	0.561453	0.503082
11	CORR	INMXL	-.022069	.0558802	0.899176	0.982174	0.841955	0.420427	0.732736	1	0.908109	0.616404	0.602628
12	CORR	INMXW	.0266391	0.116595	0.807995	0.90031	0.8235	0.573361	0.770844	0.908109	1	0.583577	0.554885
13	CORR	PMXL	.0174357	-.023706	0.601667	0.608682	0.639666	0.201574	0.561453	0.616404	0.583577	1	0.601316
14	CORR	LBRP	-.015315	.0072015	0.509378	0.621101	0.589775	0.231011	0.503082	0.602628	0.554885	0.601316	1
15	CORR	INFL	.0128557	.0100767	0.872248	0.947943	0.815702	0.393707	0.706844	0.961744	0.890589	0.639091	0.591005
16	CORR	INFW	.0531112	.0097476	0.737074	0.760151	0.649252	0.363981	0.551144	0.765995	0.829357	0.602835	0.487409

OBS	INFL	INFW	VANGS	VANGB	MHWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN
9	0.393707	0.363981	.0391068	.0415124	0.013167	.0060863	-.185763	-.171137	0.011245	0.202711	-.151669	0.166383
10	0.706844	0.551144	.0026718	0.181726	-.143992	-.117043	-.271647	-.371208	-.100556	0.155948	-.267231	0.307566
11	0.961744	0.765995	.0731593	0.359011	-.187332	-.164008	-.357397	-.490856	-.124535	0.27658	-.279338	0.429038
12	0.890589	0.829357	.0620787	0.278016	-.157246	-.182551	-.394375	-.496463	-.090632	0.290658	-.277798	0.424569
13	0.639091	0.602835	-.008394	0.176945	-.252268	-.178479	-.260069	-.449848	-.177443	0.205813	-.225064	0.250972
14	0.591005	0.487409	0.055409	0.143324	-.188285	-.094024	-.215131	-.375101	-.139412	0.15354	-.153064	0.278212
15	1	0.837498	.0518297	0.319478	-.213437	-0.16575	-.355128	-.509061	-.141573	0.27784	-.276992	0.410646
16	0.837498	1	.0327858	0.235214	-.199792	-.223839	-.380623	-.508761	-.117038	0.323986	-.257561	0.381101

OBS	BSPS	SVINS	NSECV	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN
9	0.131887	-.018876	-.186756	-.032394	.0749116	.0562948	0.383137	.0648706	0.196489	.0872116	-.132484	0.382459
10	0.255444	.0320739	-.312953	-.196694	0.211468	-.032588	0.885622	.0768723	0.159619	.0707088	-.434835	0.706573
11	0.328951	.0764466	-.286094	-.247557	0.266296	-.031137	0.805284	0.358862	0.138829	.0778975	-0.69969	0.949496
12	0.347608	.0922459	-.350592	-.231606	0.174514	.0224439	0.883737	0.280357	0.14091	.0683396	-.602809	0.870109
13	0.249201	0.062407	-.264025	-.192225	0.226	-.049387	0.567791	0.191328	0.185253	.0437057	-.598411	0.617413
14	0.274029	.0291724	-.160593	-.212262	.0856455	.0841621	0.516846	0.14694	.0519718	-.151721	-0.5131	0.62713
15	0.32417	.0778114	-0.30462	-.290214	0.269622	-.023868	0.782067	0.386137	0.17541	0.132885	-.671264	0.945311
16	0.300123	0.126244	-.282362	-.286728	0.202461	.0088559	0.770315	0.309099	0.204596	0.086765	-.647962	0.782464

OBS	TFLLN	DFRS	STMXLN	STMXLOL	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD
9	0.349443	-.104978	0.398215	0.234067	0.300199	0.22812	0.114171	0.205385	0.364699	0.394671	0.432685	.0918528
10	0.670956	-.353944	0.71267	0.217993	0.569825	0.200535	0.339316	0.179912	0.552944	0.712554	0.22224	-.090147
11	0.914533	-.627154	0.929559	0.423952	0.736299	0.246928	0.518933	0.133801	0.602768	0.936399	0.246213	-.139821
12	0.841852	-.514407	0.860346	0.387097	0.691574	0.292769	0.487716	0.152231	0.569104	0.866022	0.358455	-.020368
13	0.61457	-.577087	0.609072	0.236508	0.521232	0.176476	0.391754	.0772315	0.529209	0.60423	0.115369	-.076686
14	0.595539	-.506812	0.61105	0.205607	0.477665	0.118975	0.33176	-.010081	0.490587	0.602378	-7.4E-04	-.101509
15	0.971302	-0.5992	0.948393	0.42197	0.782414	0.296794	0.681831	0.227971	0.595879	0.937671	0.282799	-.139633
16	0.825604	-.573222	0.783955	0.343392	0.661956	0.329558	0.642943	0.194908	0.542326	0.773094	0.328869	-.069374

OBS	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR
9	-.449082	-.112268	-.158512	-0.39333	-.039542	.0111433	0.281806	0.311508	0.260525	-.369817	.0356233	0.441616
10	-0.65514	0.530102	-.034229	-.171641	-.013141	0.270448	0.679634	0.669025	0.641717	-0.56478	0.174152	0.682375
11	-.751242	0.821446	0.392665	0.186876	0.296714	0.486246	0.904085	0.889776	0.747992	-.730825	0.267517	0.809178
12	-.771511	0.646578	0.255458	-0.20261	0.213984	0.443493	0.796686	0.78206	0.69197	-.672562	.0472751	0.821959
13	-0.5171	0.55191	0.35139	0.155315	.0810973	0.387297	0.599814	0.5[illegible]943	0.534261	-.453345	.0093286	0.650561
14	-.444686	0.549006	0.343305	0.152956	0.124076	0.365184	0.63892	0.5[illegible]412	0.542239	-0.49558	0.15159	0.485[illegible]09
15	-.702553	0.793529	0.393408	0.161605	0.29813	0.615042	0.891361	0.891921	0.767996	-.630245	0.20036	0.783964
16	-.595532	0.616315	0.339372	-.065921	0.201929	0.596891	0.707063	0.717495	0.651389	-0.51628	-.344905	0.64891



OBS	_TYPE_	_NAME_	RACMLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP
17	CORR	VANGS	.0400256	.0770801	0.153036	.0443569	.0208818	.0391068	.0026718	.0734593	.0620787	-.008394	0.055409
18	CORR	VANGB	-.047748	-.054727	0.365114	0.323760	0.246658	.0415124	0.181726	0.359011	0.278016	0.176945	0.143324
19	CORR	MHWDL	0.216344	0.252216	-.220321	-.175543	-.184717	0.013167	-.143992	-.187332	-.157246	-.252268	-.189289
20	CORR	SHINL	-.002768	-.088857	-.127347	-0.19623	-.156089	.0060863	-.117043	-.164008	-.182551	-.178479	-.094024
21	CORR	LNWDRL	-.084615	-.178284	-.304554	-.381057	-.304318	-.185763	-.271647	-.357397	-.394375	-.260069	-.218131
22	CORR	MXLNL	0.128779	.0747154	-.475402	-.496757	-.429417	-.171137	-.371208	-.490856	-.496463	-.449848	-.375181
23	CORR	MXWDL	0.190837	0.253628	-0.16523	-.104338	-.126615	0.011245	-.100556	-.124535	-.090632	-.177443	-.139412
24	CORR	APXAN	.0044115	0.116834	0.316311	0.294509	0.138685	0.202711	0.155948	0.27658	0.290658	0.205813	0.15354

OBS	INFL	INFW	VANGS	VANGB	MHWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN
17	.0516297	.0327858	1	0.304654	.0960937	.0075158	-.089245	-.002596	.0845217	.0790079	.0425909	0.170409
18	0.319476	0.235214	0.304654	1	0.119988	-0.14482	-.316421	-.161961	0.149966	0.18064	-.142403	0.373855
19	-.213437	-.199792	.0960937	0.119988	1	-.201235	-.310801	0.647616	0.960558	.0028007	0.151812	0.366522
20	-0.16575	-.223839	.0075158	-0.14482	-.201235	1	0.783441	0.348139	-.460051	-.357558	-.060352	-.321932
21	-.355128	-.380623	-.089245	-.316421	-.310801	0.783441	1	0.494133	-.497892	-.486277	.0975405	-0.61067
22	-.509061	-.508761	-.002596	-.161961	0.647616	0.348139	0.494133	1	0.482762	-.415265	0.293994	-.211878
23	-.147573	-.117038	.0845217	0.149966	0.960558	-.460051	-.497892	0.482762	1	0.111532	0.18082	0.42333
24	0.27784	0.323986	.0790079	0.18064	.0028007	-.357558	-.486277	-.415265	0.111532	1	-.456493	0.226836

OBS	BSPS	SVINS	NSECV	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN
17	0.2414	0.30961	0.121787	.0953926	-.051093	-.027343	0.022296	.0036797	-.064223	-.171705	-.087795	.0398276
18	0.373778	0.217458	0.111261	-.122272	-0.09372	-.074256	0.251869	.0966816	.0365638	-.058341	-.364179	0.306269
19	0.178679	.0812363	0.268431	0.251869	0.178091	0.27161	-.156745	.0424717	-.002968	.0807673	0.097678	-.187235
20	0.165586	-.243363	0.146132	0.003355	7.9E-04	-.092845	-.171765	-0.22238	-.106036	-.054223	0.314721	-.224251
21	-.159423	-.249294	0.261028	.0.46389	.0188695	-.041677	-.331566	-.242456	-.152217	-.086808	0.426333	-0.40422
22	-.025412	-.175048	0.477331	0.27355	0.168906	0.194481	-.431589	-0.14971	-.131178	-.001076	0.437052	-.522499
23	0.113077	.0692622	0.198138	0.224454	0.159201	0.279814	-.096868	0.098689	.0202701	.0867761	-2.8E-04	-.105212
24	.0108477	0.183006	-.164509	.0450608	-.019551	.0098682	0.182401	0.202933	0.143554	.0527908	-.383629	0.331841

OBS	TFLLN	DFRS	STMXLN	STMXLOL	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMTWD
17	.0335899	-.057812	.0432407	0.126733	.0483208	-.005862	.0013422	-.058342	.0047736	0389619	0.080475	0.106284
18	0.24912	-0.26387	0.254149	.0988703	0.315389	-.001692	0.111519	0.105711	0.137923	0.283878	-.044499	-.059242
19	-.207694	0.111312	-.195779	-1.4E-04	-.182187	-.021515	-.165365	-.041046	-0.15756	-.179067	.0728832	0.145224
20	-0.18612	0.23243	-.221424	-0.16747	-.205376	-0.02736	.0010519	0.172829	-.251329	-.254815	-.061058	.0344656
21	-.367053	0.298059	-.411082	-0.22605	-.338799	-.151854	-.109644	.0798331	-.343379	-.422489	-.213665	-.019084
22	-.517033	0.363744	-0.53733	-.173772	-.437036	-.159265	-.288549	-.011594	-.439471	-.526763	-.132859	0.120738
23	-.133667	.0299363	-.113682	.0465094	-.113027	-.010435	-.166076	-.082471	-.065421	-.089544	.0865718	0.115143
24	0.303396	-.363527	0.345632	0.146472	0.310504	0.239039	.0648779	.0139781	0.329085	0.356583	0.242331	.0318545

OBS	NWNDFLR	IBLWR	OBLWR	INVLWR	CRLLWR	ACLWR	CORLWR	CORLWWR	STLLBR	TFLPLR	INFLWR	LRNFWR
17	-.020694	.0059892	.0526752	8.9E-04	.0283744	.0259293	0.009198	.0038805	-.050057	-.003008	.0423962	.0645698
18	-0.27423	0.309376	0.192182	0.168335	.0808301	.0478658	0.312056	0.275807	0.225473	-.283052	.0937666	0.28532
19	0.244032	-.214922	-.123539	-0.05675	.0379393	-.194322	-.221112	-.217696	-.217058	0.10082	.0017304	-.164215
20	0.213632	-.210557	-.170932	-.015518	-.163583	-.082507	-.239097	-.225499	-.144536	0.2348	0.109254	-0.25366
21	0.333915	-0.30813	-0.169	.0305012	-.156793	-.151313	-.369885	-.359522	-.316315	0.357931	.0839632	-.397618
22	0.516777	-.458084	-.234666	-.021865	-.078698	-.311025	-.514484	-.510871	-.486434	0.383184	.0579793	-.497085
23	0.158114	-0.13597	-.062903	-.046012	.0774107	-.151724	-.133327	-.130346	-.154568	.0282384	-.032559	-.074634
24	-.285479	0.224218	.0041447	.0225795	0.1152	.0631728	0.296496	0.30715	0.292652	-.300246	-0.06971	0.305038



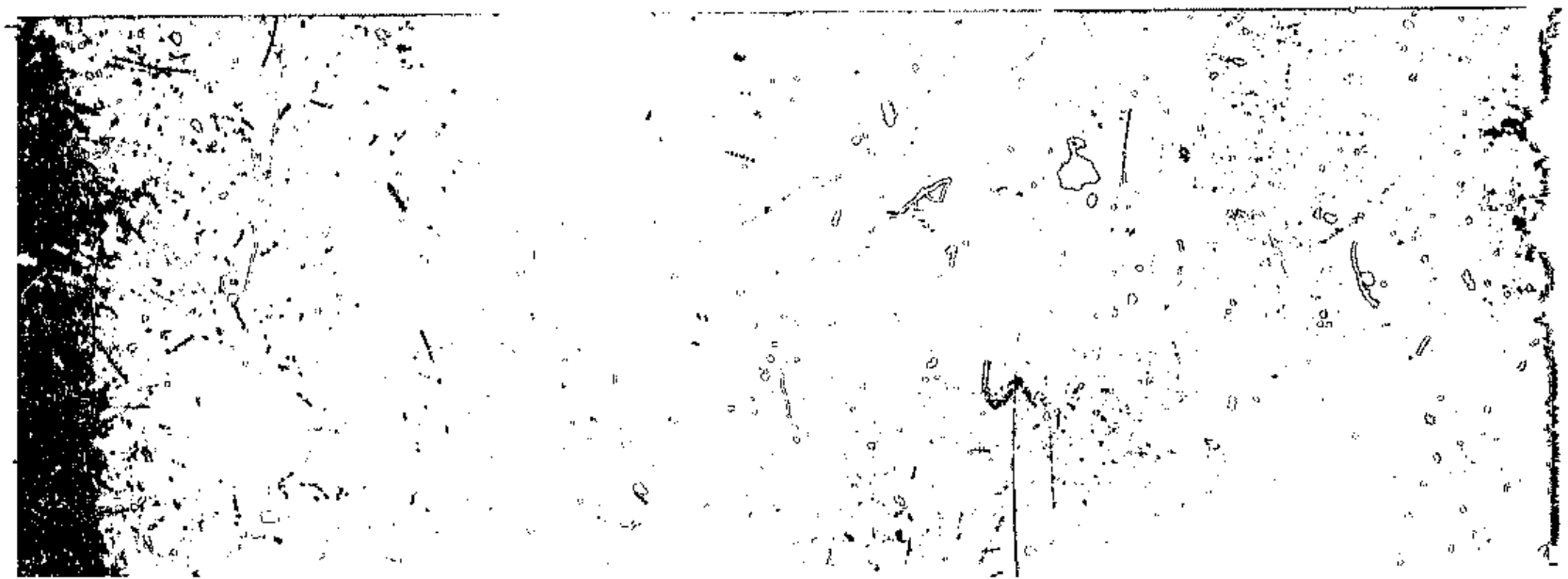
OBS	_TYPE_	_NAME_	RACHLEN	INTNDLN	%BR	IDRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LERP
25	CORR	APXPS	.0119519	-.036999	-.258202	-0.28289	-.274261	-.151669	-.267231	-.279338	-.277798	-.225064	-.153064
26	CORR	BSAN	.0612202	0.10475	0.335268	0.443948	0.360168	0.166383	0.307566	0.429038	0.424569	0.250972	0.278212
27	CORR	BSPS	.0495738	.0666008	0.297371	0.326865	0.322152	0.131887	0.255444	0.328951	0.347604	0.249201	0.274029
28	CORR	SVINS	.0441879	.0465974	0.124479	.0778965	.0178648	-.018876	.0320739	.0764466	.0922459	0.062407	.0291724
29	CORR	NSECV	.0270535	-.006315	-.230535	-.293399	-.356154	-.186756	-.312953	-.286094	-.350592	-.264025	-.160593
30	CORR	PINSV	0.170168	0.240795	-.235694	-.230345	-.236662	-.032394	-.196694	-.247557	-.231606	-.192225	-.212262
31	CORR	PTLLN	0.116037	.0529727	0.241324	0.260701	0.227131	.0749116	0.211468	0.266296	0.174514	0.226	.0856455
32	CORR	INTLN	0.156587	.0956523	-.033565	-.009935	-.029328	.0562948	-.032586	-.031137	.0224439	-.049387	.0841621

OBS	INFL	INFW	VANGS	VANGB	MNWDL	SHINL	LIWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN
25	-.276992	-.257561	.0425909	-.142403	0.181812	-.060352	.0975405	0.293994	0.18082	-.456493	1	-.074386
26	0.410646	0.381101	0.170809	0.373855	0.366522	-.321932	-0.61067	-.211878	0.42333	0.226836	-.074386	1
27	0.32417	0.308123	0.2414	0.373778	0.176679	0.165586	-.159423	-.025412	0.113077	.0108477	-.085595	0.573242
28	.0778114	0.126244	0.30961	0.217458	.0012363	-.243363	-.249294	-.175048	.0692622	0.183006	.0188659	0.233528
29	-0.30462	-.282362	0.121787	0.111261	0.268431	0.146132	0.261028	0.477331	0.198136	-.164509	0.139314	-.034908
30	-.290214	-.286726	.0953926	-.122272	0.251869	.003355	.0346389	0.27355	0.224454	.0450608	0.032861	-0.06124
31	0.269622	0.202481	-.051093	-0.09372	0.178091	7.9E-04	.0188695	0.168906	0.159201	-.019551	-.006341	-.020067
32	-.023868	.0088559	-.027343	-.074258	0.27161	-.092845	-.041677	0.194481	0.279814	.8098682	.0821824	.0736279

OBS	BSPS	SVINS	NSECV	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN
25	-.085595	.0188659	0.139314	0.032861	-.006341	.0821824	-.208479	-.067469	-.087581	-.080575	0.350434	-.305725
26	0.573242	0.233526	-.034908	-0.06124	-.020067	.0736279	0.414987	0.287387	0.170374	0.104899	-.328176	0.425056
27	1	.0665901	.0865885	-.067703	-.078658	.0371877	0.379982	0.129384	0.140461	0.109711	-.215316	0.28024
28	.0665901	1	0.210792	-.135339	-.127096	.0165987	.0812955	0.136415	-.061356	-.119575	-.059676	0.079861
29	.0865885	0.210792	1	-.080269	.0962986	.0565433	-.312745	.0242789	-.020291	-.064033	0.140366	-.313395
30	-.067703	-.135339	-.080269	1	-.027934	.0821194	-.233019	-0.02721	-.053834	.0031229	0.232305	-.233094
31	-.078658	-.127096	.0962986	-.027934	1	-0.01777	0.127715	0.167937	-.017686	0.139693	-.264538	0.263509
32	.0371877	.0165987	.0565433	.0821194	-0.01777	1	-0.01131	.0722072	-.108569	-.068654	.0053399	-.011256

OBS	TFLLN	OFRS	STMXLN	STMXLDL	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD
25	-.265817	0.292978	-.292033	-.075571	-.254913	-.108456	-.107911	-.149594	-.368729	-.305304	-.108287	.0060661
26	0.398722	-.249806	0.404651	0.101856	0.31201	0.133968	0.233527	.0729959	0.209415	0.424828	0.204679	.0520879
27	0.277021	-0.12252	0.255749	-.057291	0.17663	0.159333	0.26215	.0805874	0.038569	0.275942	.0752245	0.115691
28	.0570673	-.050754	.0644921	0.100456	0.107071	-.044015	-.018802	-.069616	.0428575	.0984256	.0525376	-0.04904
29	-.317932	.0953402	-.355506	-.083433	-.274339	-0.20212	-.151671	.0676345	-.302922	-.305953	-.103116	.0681021
30	-.269696	0.235953	-.216998	-.002982	-.199991	.0618851	-.336623	-.143992	-.143517	-.189677	.0839889	0.16744
31	0.272696	-.368156	0.263162	.0870756	0.219068	0.110283	0.178816	0.121366	0.170966	0.265406	.0327669	-.127897
32	0.008172	-.030571	.0035446	-.060853	.0230874	-.020897	.0235566	-.120792	-9.6E-04	.0388826	.0645566	0.1[illegible]265

OBS	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR
25	0.247627	-.231216	-.028555	-.009467	-.019085	-.030875	-.297576	-.275395	-.286095	0.309639	-.019751	-.249348
26	-.306681	0.378525	0.185706	.0060547	0.180609	0.202634	0.366472	0.362722	0.385792	-.309989	-.012239	0.398191
27	-.228188	0.261284	0.182411	-.059652	.0413204	0.241355	0.266416	0.210438	0.32461	-.171754	-.049428	0.281173
28	-.039125	.0924665	.0127057	.0272792	0.186092	.0153007	.0834466	0.119613	.0125725	-.073751	-.072617	.0762337
29	0.360382	-.225901	-.121538	0.207421	.0416186	-.211433	-.290897	-.294297	-.340064	0.221909	.0025437	-.332472
30	0.19769	-.224925	-.177794	-.114286	-.015048	-.283694	-0.23467	-.233188	-.252805	0.125822	.0462783	-.172636
31	-.083892	0.24303	.0927579	0.2422	0.183466	0.111192	0.258935	0.272277	0.245115	-.236514	0.10545	0.116067
32	.0895094	-.058899	.0223786	-.049661	0.137689	.0895621	.0087636	-.023257	.0211732	.0330788	-.010178	-.032128



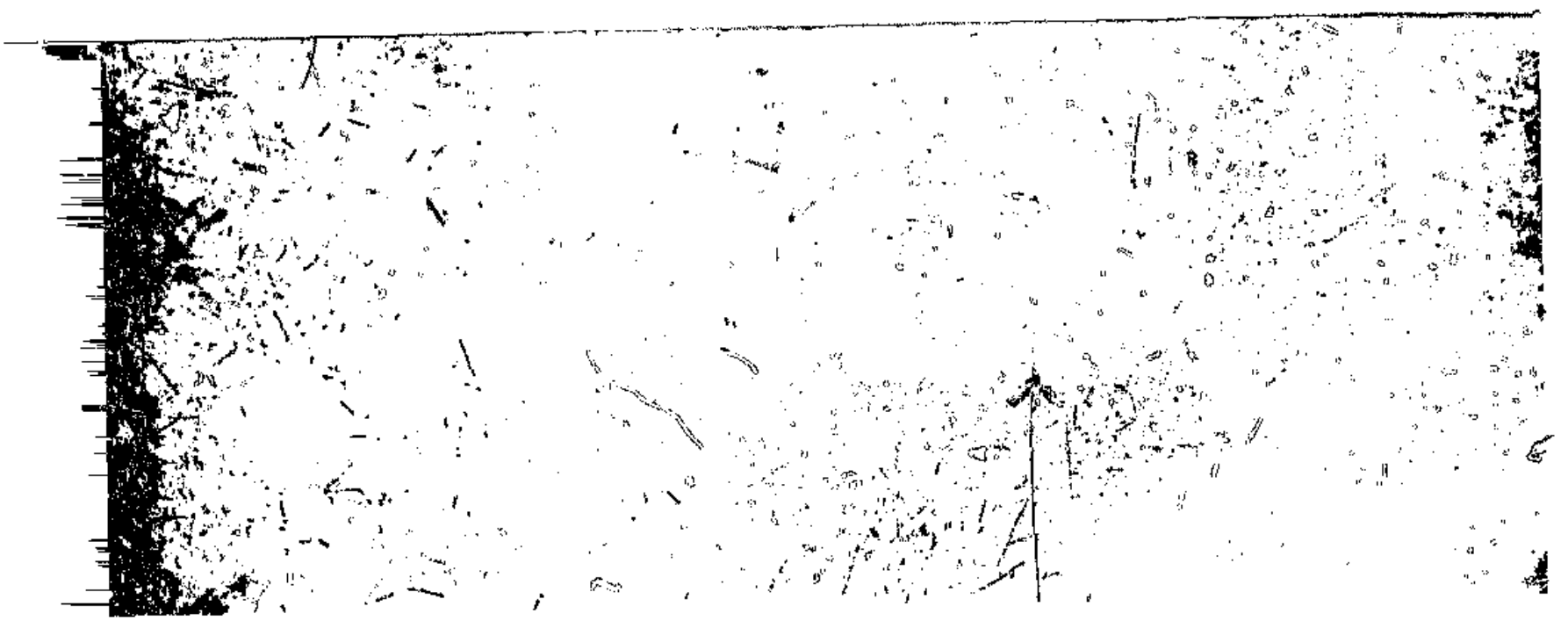
OBS	_TYPE_	_NAME_	RACHLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP
33	CORR	NFLOR	0.009957	.0551688	0.710967	0.794055	0.778244	0.383137	0.685622	0.805284	0.883737	0.567791	0.516846
34	CORR	CORLLN	.0496334	0.109718	0.350804	0.380794	0.145511	.0648706	.0768723	0.358862	0.280357	0.191320	0.14694
35	CORR	CORLWD	-.143567	-.079733	0.141892	0.157748	0.155413	0.196489	0.159619	0.138829	0.14091	0.185253	.0519718
36	CORR	CORTWD	.0259514	-.017235	.0507099	0.080031	.0916477	.0872116	.0787088	.0778975	.0683396	.0497057	-.151721
37	CORR	HASL	.0466265	-.031027	-.699479	-.702848	-.556313	-.132484	-.434835	-0.69464	-.602809	-.598411	-0.5131
38	CORR	PAPHXLN	-0.06419	.0342267	0.839351	0.969395	0.82315	0.382457	0.706573	0.949496	0.870109	0.617413	0.62713
39	CORR	TFLLN	.0194409	.0044558	0.802315	0.927419	0.787426	0.349445	0.670956	0.914533	0.841852	0.61457	0.595539
40	CORR	DFRS	.0771845	-.013699	-0.65605	-.641558	-.473585	-.104978	-.353944	-.627154	-.514407	-.577087	-.506812

OBS	INFL	INFW	VANGS	VANGB	MHWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN
33	0.782067	0.770715	0.022296	0.251869	-.158745	-.171765	-.331566	-.431589	-.096866	0.182401	-.208479	0.414987
34	0.386137	0.309299	.0036797	.0966816	.0424717	-0.22238	-.242456	-0.14971	0.098689	0.202933	-.067469	0.287387
35	0.17541	0.204596	-.064223	.0365638	-.002968	-.106036	-.152217	-.131178	.0282701	0.143554	-.087581	0.170374
36	0.132885	0.086765	-.171705	-.058341	.0807673	-.054223	-.086808	-.001076	.0867761	.0527908	-.080575	0.104899
37	-.671264	-.647962	-.087795	-.364179	0.097678	0.314721	0.426333	0.437052	-2.8E-04	-.383629	0.350434	-.328176
38	0.545311	0.782464	.0398276	0.306269	-.187235	-.224251	-0.40422	-.522499	-.105212	0.331841	-.305725	0.425056
39	0.971302	0.825604	.0335899	0.24912	-.207694	-0.18612	-.367053	-.517033	-.133667	0.303196	-.265837	0.398722
40	-0.5992	-.573222	-.057812	-0.26387	0.111312	0.23243	0.298059	0.363744	.0299363	-.363327	0.292978	-.249806

OBS	BSPS	SVINS	NSECV	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPHXLN
33	0.379982	.0812955	-.312745	-.233019	0.127715	-0.01131	1	0.164172	.0660486	.0380433	-.536804	0.757331
34	0.129384	0.136415	.0242789	-0.02721	0.167937	.0722072	0.164172	1	0.359254	0.357289	-.282697	0.386448
35	0.140461	-.061356	-.020291	-.053834	-.017686	-.108569	.0660486	0.359254	1	0.500422	-.021257	0.152699
36	0.109711	-.119575	-.064033	.0031229	0.139683	-.068654	.0380433	0.357289	0.500422	1	.0281182	.0695337
37	-.215318	-.099676	0.140366	0.232305	-.264538	.0053399	-.536804	-.282697	-.021257	.0281182	1	-.732718
38	0.28024	0.079861	-.313395	-.233094	0.263509	-.011256	0.757331	0.386448	0.152699	.0695337	-.732718	1
39	0.277021	.0570673	-.317932	-.269696	0.272696	0.008172	0.728526	0.386865	0.172268	0.135735	-.682018	0.944231
40	-0.12252	-.050754	.0953402	0.235951	-.368156	-.030571	-.440411	-.326594	-.015521	.0099708	0.888208	-.674521

OBS	TFLLN	DFRS	STMXLN	STMXLOL	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD
33	0.728526	-.440411	0.753927	0.215405	0.344725	0.199266	0.409159	-.001836	0.476641	0.762141	0.140915	-.105621
34	0.386865	-.326594	0.36868	0.341689	0.286135	0.205666	0.254553	0.174859	0.198157	0.389387	0.260794	0.122816
35	0.172268	-.015521	0.175142	0.10643	.0573751	0.261925	0.13122	0.323508	0.257133	0.163509	0.430951	0.352707
36	0.135735	.0099708	0.14941	.0903973	0.187262	0.342433	0.159129	0.338424	.0938026	0.133307	0.306447	0.226083
37	-.682018	0.888208	-.693923	-.328338	-.969182	-.166604	-.349628	-.033035	-0.55245	-.699942	-.104364	0.157972
38	0.944231	-.674521	0.964542	0.448326	0.760643	0.262856	0.519707	0.325146	0.664019	0.971963	0.267726	-.132592
39	?	-.611456	0.967494	0.420863	0.790187	0.29237	0.734444	0.248529	0.600406	0.943088	0.29307	-.152574
40	-.611456	1	-.624565	-.297693	-.516958	-.143296	-.289913	-.035654	-.554729	-.635277	-.037268	0.105328

OBS	NWNOFHD	IBLWR	OBLWR	INVLWR	URLLWR	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFWR
33	-.678714	0.642309	0.329441	-.189 .9	0.141892	0.439769	0.76087	0.720009	0.705103	-.594111	-.036218	0.703613
34	-.147094	0.34459	0.211636	0.270621	0.820588	0.175786	0.306746	0.383102	0.186468	-.248281	0.094428	0.294352
35	-.176814	.0654381	2.8E-04	-.020572	-.228916	-.026184	0.032915	.0186369	0.142269	-.072239	-.079321	0.185804
36	-.038585	.0276379	.0189487	-.012249	.0895062	-.008479	.0404917	.0384491	0.124917	.0574163	.0215995	0.100831
37	0.527068	-.678969	-0.428	-.339789	-0.28323	-.359367	-.706873	-.684229	-.571118	0.630253	.0302272	-.581384
38	-.762102	0.837402	0.421335	0.184951	0.314511	0.492511	0.932954	0.919722	0.770463	-.799191	0.212949	0.805475
39	-.671856	0.797147	0.415971	0.181716	0.297137	0.663057	0.892169	0.900687	0.785682	-.574837	0.171989	0.753388
40	0.416651	-.633703	-.425858	-.417977	-.334963	-.286798	-.653423	-0.61377	-.509116	0.612769	-.007021	-.494011



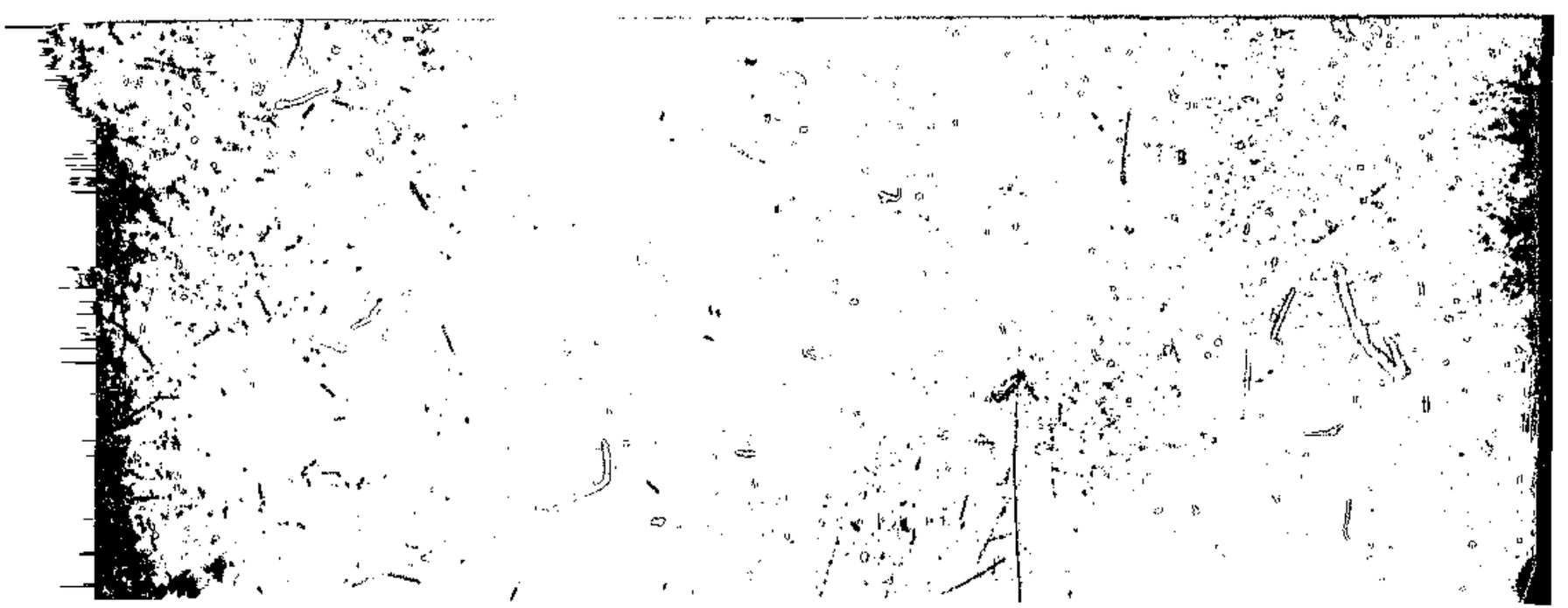
OBS	_TYPE_	_NAME_	RACMLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP
41	CORR	STMXLN	-.012133	.0298827	0.819678	0.948712	0.829342	0.398215	0.71267	0.929559	0.860346	0.609072	0.61105
42	CORR	STMXLOL	.0563326	0.211742	0.437438	0.420436	0.261146	0.234067	0.217993	0.423952	0.387097	0.236508	0.205607
43	CORR	STBLN	-.013985	-.054424	0.649961	0.74182	0.657995	0.300199	0.569825	0.736299	0.691574	0.521232	0.477665
44	CORR	STBWD	0.152107	0.151182	0.33635	0.247879	0.207191	0.22812	0.200535	0.246928	0.292769	0.176476	0.118975
45	CORR	ACMXLN	0.103531	-0.08627	0.432752	0.516625	0.415442	0.114171	0.339316	0.518933	0.487716	0.391754	0.33176
46	CORR	ACMXWD	-.010388	-.158765	.0954035	0.141258	0.114425	0.205385	0.179912	0.133801	0.152231	.0772315	-.010081
47	CORR	NVPAC	-.127662	.0359248	0.550698	0.62315	0.605258	0.364699	0.552944	0.602768	0.589104	0.529209	0.490587
48	CORR	CRMXLN	-.015405	.0774033	0.8346	0.955614	0.820872	0.394671	0.712554	0.936399	0.866022	0.60423	0.602378

OBS	INFL	INFW	VANGS	VANGB	MMWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN
41	0.748393	0.783955	.0432407	0.254149	-.195779	-.221424	-.411082	-0.53733	-.113682	0.345632	-.292033	0.404651
42	0.42197	0.343392	0.128733	.0988703	-1.4E-04	-0.16747	-0.22605	-.173772	.0465094	0.146472	-.075571	0.101856
43	0.782414	0.661556	.0483208	0.315389	-.182187	-.205376	-.338799	-.437036	-.113027	0.310504	-.254913	0.31201
44	0.296794	0.329556	-.005862	-.001692	-.021515	-0.02736	-.151854	-.159265	-.010435	0.239039	-.108456	0.133968
45	0.681831	0.642943	.0013422	0.111519	-.185365	.0010519	-.109644	-.288549	-.166076	.0648779	-.107911	0.233527
46	0.227971	0.194908	-.056342	0.105711	-.041046	0.172829	.0798331	-.011594	-.062471	.0139781	-.149594	.0729959
47	0.595879	0.542326	.0047736	0.137923	-0.15756	-.251329	-.343379	-.439471	-.065421	0.329085	-.368729	0.209415
48	0.937671	0.773094	.0389619	0.283876	-.179067	-.254815	-.422489	-.526763	-.089544	0.356583	-.305304	0.424828

OBS	BSPS	SVINS	NSECV	PINSV	PTLLN	INTLN	NFLOR	CORLEN	CORLWD	CORTWD	HASL	PAPMXLN
41	0.295749	.0644921	-.355506	-.216998	0.263162	.0035446	0.753927	0.36868	0.175142	0.14941	-.693923	0.964542
42	-.057291	0.100456	-.083433	-.002982	.0870758	-.060853	0.215405	0.341689	0.10643	.0903973	-.328338	0.448326
43	0.17663	0.107071	-.274339	-.189991	0.219068	.0230874	0.544725	0.286135	.0573751	0.187262	-.569182	0.760643
44	0.159333	-.044015	-0.20212	.0673851	0.110283	-.020897	0.199266	0.205666	0.261925	0.342433	-.166604	0.262856
45	0.26215	-.018802	-.151671	-.336623	0.178816	.0235566	0.409159	0.254553	0.13122	0.159129	-.349628	0.519707
46	.0805874	-.069616	.0676345	-.143992	0.121366	-.120792	-.001836	0.174859	0.323508	0.338424	-.033035	0.125146
47	0.038589	.0428575	-.302922	-.143517	0.170966	-9.6E-04	0.478641	0.198157	0.257133	.0938026	-0.55245	0.664019
48	0.275942	.0984256	-.305953	-.189677	0.265406	.0388826	0.762141	0.389387	0.183509	0.133307	-.699942	0.971983

OBS	TFLLN	DFRS	STMXLN	STMXLOL	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD
41	0.967494	-.624565	1	0.462357	0.790631	0.310486	0.557401	0.169248	0.649195	0.978798	0.305869	-.119194
42	0.420863	-.297693	0.462357	1	0.388041	0.212102	0.147173	.0913051	0.331597	0.462814	0.315628	0.11415
43	0.790187	-.516958	0.790631	0.388041	1	0.23006	0.535661	0.207808	0.548128	0.77953	0.262003	-.074935
44	0.29237	-.143296	0.310486	0.212102	0.23006	1	0.180158	0.145986	0.271799	0.29523	0.515722	0.231558
45	0.734444	-.289913	0.557401	0.147173	0.535661	0.180158	1	0.427101	0.233378	0.508503	0.178906	-.173029
46	0.248529	-.035654	0.169248	.0913051	0.207808	0.145986	0.427101	1	0.103249	0.13085	0.324012	0.163452
47	0.600406	-.554729	0.649195	0.331597	0.548128	0.271799	0.233378	0.103249	1	0.638258	0.317209	.0404646
48	0.943088	-.635277	0.978798	0.462814	0.77953	0.29523	0.508503	0.13085	0.638258	1	0.302383	-.098917

OBS	NWNOFWD	IBLWR	OBLWR	INVLWR	CRLLWR	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFWR
41	-.722159	0.79647	0.420877	0.158646	0.279087	0.511146	0.927378	0.919216	0.797017	-.677733	0.209993	0.784[illegible]3
42	-.289559	0.301055	0.15208	0.13037	0.293805	0.101564	0.382252	0.375605	-.154296	-.380628	0.162676	0.341138
43	-.555243	0.621554	0.353121	0.1195	0.264144	0.470908	0.73473	0.728073	0.607484	-.494455	0.141019	0.610118
44	-.165749	0.15587	.0312534	-.091582	.0573578	0.134109	0.152996	0.187456	0.229389	-.134564	-.096397	0.258412
45	-.282475	0.465871	0.251599	0.105503	0.172733	0.868057	0.468454	0.521536	0.505269	-.007725	-.015972	0.393403
46	-.015274	.0110241	-.137327	-.027582	-.018557	-.065104	.0289114	.0622123	0.103516	0.14553	-0.00233	.0813328
47	-.574847	0.471209	0.249089	.0751102	.0527735	0.204186	0.572756	0.56445	0.495143	-.593675	.0628837	0.624206
48	-.737874	0.809198	0.403212	0.160038	0.310469	0.478274	0.95059	0.932191	0.773197	-.739524	0.214196	0.798913



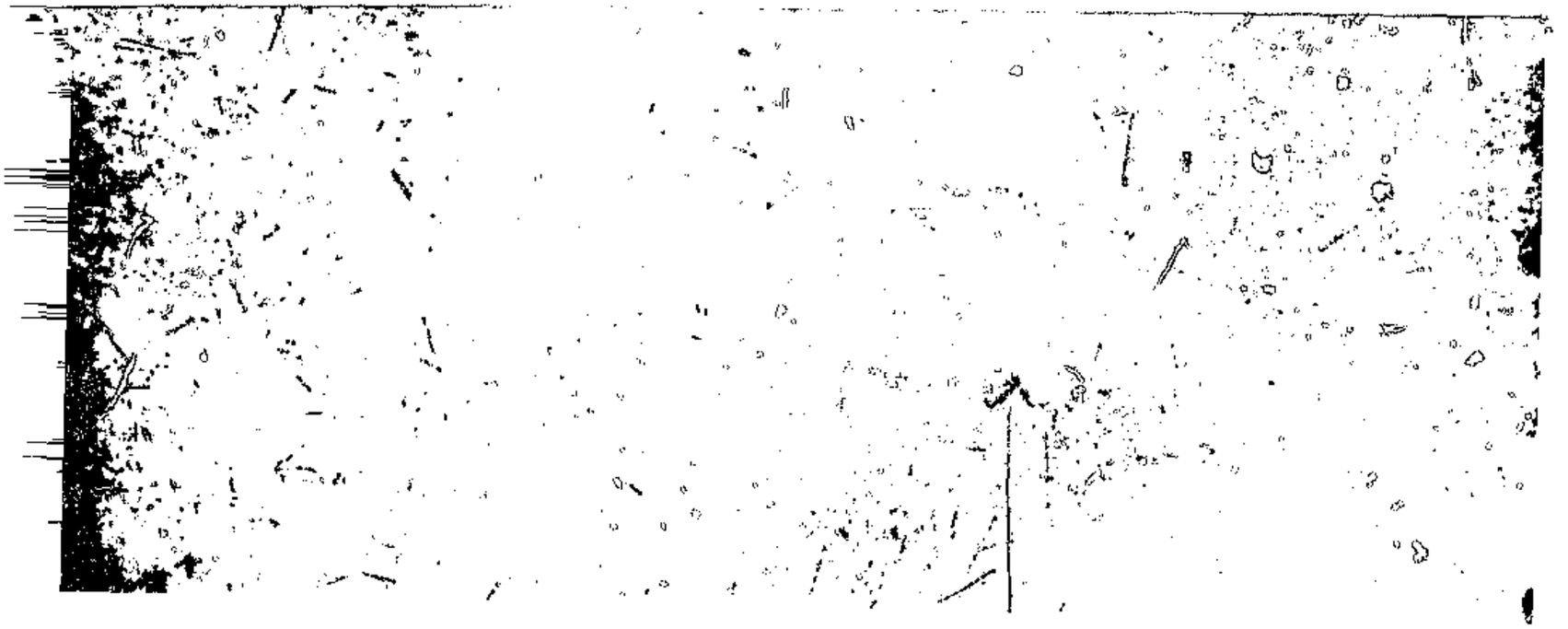
OBS	_TYPE_	_NAME_	RACMLEN	INTKDLN	NBR	IBRL	OBRL	IBRW	OBRW	INNXL	INNXW	PNXL	LBRP
49	CORR	CRMXWD	0.109155	0.23863	0.223586	0.252364	0.173989	0.432685	0.22224	0.246213	0.358455	0.115369	-7.4E-04
50	CORR	CRMNWD	-.051953	.0651953	-.077682	-.127227	-.110358	.0918528	-.090147	-.139821	-.020388	-.076686	-.101509
51	CORR	NWNOFHD	0.433113	0.133637	-.642783	-.754806	-.703185	-.449082	-0.65514	-.751242	-.771511	-0.5171	-.444686
52	CORR	IBLWR	-.077547	-.011504	0.729848	0.841207	0.699629	-.112268	0.530102	0.821446	0.646528	0.551976	0.549006
53	CORR	OBLWR	-.081859	-.061204	0.379531	0.403276	0.34635	-.158512	-.034229	0.392665	0.255458	0.35139	0.343305
54	CORR	INVLWR	-.115259	-.138348	0.236352	0.166412	-.026595	-0.39333	-.171641	0.186876	-0.20261	0.155315	0.152956
55	CORR	CRLLWR	0.129834	0.166142	0.286499	0.305701	.0546763	-.039542	-.013141	0.296714	0.213964	.0810973	0.724076
56	CORR	ACLWR	0.115628	-.011944	0.413884	0.482104	0.385601	.0111433	0.270448	0.486246	0.443493	0.387297	0.365184

OBS	INFL	INFW	VANGS	VANGB	MAWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN
49	0.282799	0.328869	0.080475	-.044499	.0728832	-.061058	-.213665	-.132859	.0865718	0.242331	-.108287	0.204679
50	-.139633	-.069374	0.106284	-.059242	0.145224	.0344656	-.019084	0.120738	0.115143	.0318545	.0060661	.0520879
51	-.702553	-.595532	-.020694	-0.27423	0.244032	0.213632	0.333915	0.516777	0.158114	-.285479	0.247627	-.306681
52	0.793529	0.616315	.0059892	0.309376	-.214922	-.210557	-0.30815	-.456084	-0.13597	0.224218	-.231216	0.378525
53	0.393408	0.339372	.0526752	0.192182	-.123539	-.170932	-0.169	-.234666	-.062903	.0041447	-.028555	0.185706
54	0.161605	-.065921	8.9E-04	0.168335	-0.05675	-.015518	.0305012	-.021885	-.046012	.0225795	-.009467	.0060547
55	0.29813	0.201929	.0283744	.0808301	.0379393	-.163583	-.156793	-.078698	.0774107	0.1152	-.019085	0.180609
56	0.615042	0.596891	.0259293	.0478658	-.194322	-.082507	-.151313	-.311025	-.151724	.0631728	-.030875	0.202634

OBS	BSPS	SVINS	NSECV	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN
49	.0752845	.0525376	-.103116	.0639889	.0327669	.0645566	0.140915	0.260754	0.430951	0.306447	-.104364	0.267726
50	0.115691	-0.04904	.0681021	0.16744	-.127897	0.149265	-.105621	0.122816	0.352787	0.226083	0.157972	-.132592
51	-.228188	-.039125	0.360382	0.19769	-.083392	.0895094	-.678714	-.147094	-.176814	-.038585	0.527068	-.762102
52	0.261284	.0924665	-.225901	-.224925	0.24303	-.058899	0.642309	0.34459	.0654381	.0276379	-.678969	0.837402
53	0.182411	.0127057	-.121538	-.177794	.0927579	.0223786	0.329441	0.211636	2.6E-04	.0189487	-0.428	0.421335
54	-.059652	.0272792	0.207421	-.114286	0.2422	-.049661	-.189858	0.270621	-.020572	-.012249	-.339789	0.184951
55	.0413204	0.186092	.0416186	-.015048	0.183466	0.137689	0.141892	0.820588	-.228916	.0695062	-4.28323	0.314511
56	0.241355	.0153007	-.211433	-.283694	0.111192	.0895621	0.439769	0.175786	-.026184	-.008479	-.359367	0.492511

OBS	TFLLN	DFRS	STMXLN	STMXLOL	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD
49	0.29307	-.037268	0.305869	0.315628	0.262003	0.515722	0.178906	0.324012	0.317209	0.302383	1	0.430797
50	-.152574	0.105328	-.119194	0.11415	-.074935	0.231558	-.173029	0.163452	.0404646	-.098917	0.430797	1
51	-.671656	0.416651	-.722159	-.289559	-.555243	-.165749	-.282475	-.015274	-.574847	-.737874	-.225148	0.101038
52	0.797147	-.633703	0.79647	0.301055	0.621554	0.15587	0.465871	.0110241	0.471209	0.809198	.0334741	-.192495
53	0.415971	-.425858	0.420877	0.15206	0.353121	.0312534	0.251599	-.137327	0.249089	0.403212	-0.0841	-0.06742
54	0.181718	-.417977	0.156646	0.13037	0.1195	-.091582	0.105503	-.027582	.0751102	0.160038	-.229029	-.230596
55	0.297137	-.334963	0.279087	0.293805	0.264144	.0573578	0.172733	-.018557	.0527735	0.310469	.0160778	-.087381
56	0.663057	-.288798	0.511146	0.101564	0.470903	0.334109	0.868057	-.065104	0.204186	0.478274	.0312516	-.280243

OBS	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR
49	-.225148	.0334741	-0.0841	-.229029	.0160778	.0312516	2.3E-04	0.125731	0.116163	-.136767	-.123227	0.330787
50	0.101038	-.192495	-0.06742	-.230596	-.087381	-.280243	-.241772	-.439642	-.214558	.0666131	-0.09505	-.100262
51	1	-.580409	-.205546	0.10873	-.053495	-.297042	-.707398	-.698139	-.608817	0.713622	-.145274	-.878198
52	-.580409	1	0.518524	0.397089	0.320018	0.49589	0.837284	0.800778	0.698317	-.636408	0.244308	0.632048
53	-.205546	0.518524	1	0.398085	0.21764	0.33838	0.457337	0.388464	0.369585	-.292269	0.082363	0.23768
54	0.10873	0.397089	0.398085	1	0.299673	0.127988	0.236185	0.236591	0.0996472	-.126673	0.392606	-.059508
55	-.053495	0.320018	0.21764	0.299673	1	0.187517	0.303691	0.307179	0.10988	-.230736	0.146419	0.191244
56	-.297042	0.49589	0.33838	0.127988	0.187517	1	0.487347	0.532361	0.496821	-.073736	-.026847	0.388263



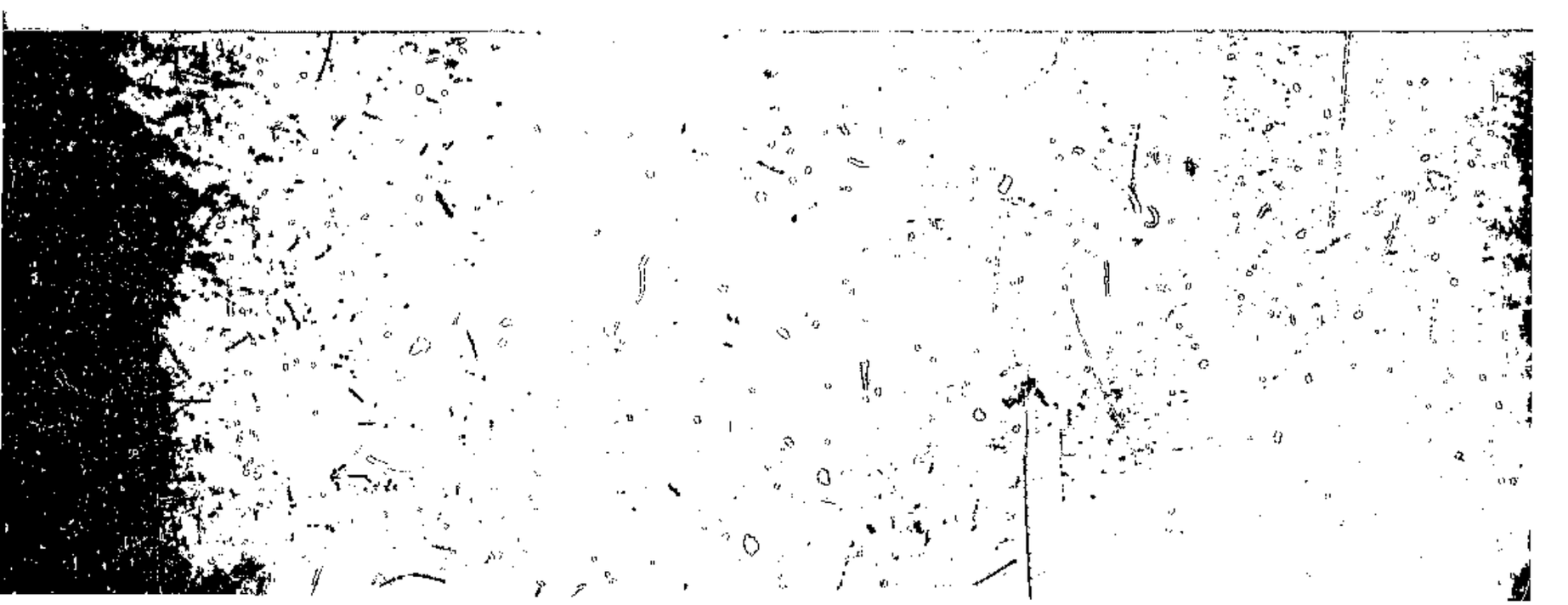
OBS	_TYPE_	_NAME_	RACHLEN	INTNDLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP
57	CORR	CORLWR	-.054771	.0019077	0.807729	0.920973	0.80947	0.281806	0.679634	0.904085	0.796686	0.599814	0.63892
58	CORR	CORLMWR	-.002039	.0429537	0.778764	0.901529	0.77477	0.311508	0.669025	0.889776	0.78206	0.574943	0.583412
59	CORR	STLLBR	-0.05053	-.105889	0.619435	0.769317	0.744899	0.260525	0.641717	0.747992	0.69197	0.534261	0.542239
60	CORR	TFLPLR	0.174116	-.078082	-.670017	-.752451	-.641638	-.369817	-0.56478	-.730825	-.672562	-.453345	-0.49558
61	CORR	INFLWR	-.084619	.0305877	0.176376	0.254555	0.193543	.0356233	0.174152	0.267517	.0472757	.0093286	0.15159
62	CORR	LRNFHR	-.131774	0.064277	0.702575	0.813343	0.73169	0.441616	0.682375	0.809178	0.821955	0.650561	0.485689

OBS	INFL	INFW	VANGS	VANGB	MHWDL	SHINL	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN
57	0.891361	0.707063	0.009198	0.312058	-.221112	-.239097	-.369865	-.514484	-.133327	0.296496	-.297576	0.366472
58	0.891921	0.717495	.0038805	0.275607	-.217696	-.225499	-.359522	-.510871	-.130346	0.30715	-.275395	0.362722
59	0.767996	0.651389	-.050057	0.225473	-.217058	.144536	-.316315	-.486434	-.154568	0.292652	-.286095	0.385792
60	-.630245	-0.51628	-.003008	-.263052	0.10082	0.2348	0.357931	0.383184	.0282384	-.300246	0.309639	-.309989
61	0.26036	-.344505	.0423962	.0937666	.0097304	0.109254	.0839632	.0579793	-.032559	-0.08971	-.019751	-.012239
62	0.733904	0.64891	.0645698	0.28532	-.164215	-0.25366	-.397618	-.497085	-.074634	0.305038	-.249348	0.398191

OBS	BSPS	SVINS	NSECV	PINSV	PTLLN	INTLN	NFLOR	CORLLN	CORLWD	CORTWD	HASL	PAPMXLN
57	0.266416	.0834466	-.290897	-0.23467	0.258935	.0087636	0.76087	0.306746	0.033915	.0404917	-.706873	0.932954
58	0.210438	0.119613	-.294297	-.233188	0.272277	-.023257	0.720009	0.301102	.0186369	.0384491	-.684229	0.919722
59	0.32461	.0125725	-.340064	-.252805	0.245115	.0211732	0.705103	0.186468	0.142269	0.124917	-.571118	0.770463
60	-.171754	-.073751	0.221909	0.125822	-.236514	.0330788	-.594111	-.248261	-.072239	.0574163	0.630253	-.799191
61	-.049428	-.072617	.0025437	.0462783	0.10545	-.010178	-.036218	0.094428	-.079321	.0215995	.0302272	0.212949
62	0.281173	.0782337	-.332472	-.172636	0.116067	-.032128	0.703613	0.294352	0.185804	0.100831	-.581384	0.805475

OBS	TFLLN	D/RS	STMXLN	STMXLOL	STBLN	STBWD	ACMXLN	ACMXWD	NVPAC	CRMXLN	CRMXWD	CRMNWD
57	0.892169	-.653423	0.927378	0.382252	0.73473	0.152996	0.468454	.0289114	0.572756	0.95059	2.3E-04	-.241772
58	0.900687	-0.61377	0.919216	0.375605	0.728073	0.187456	0.521536	.0622123	0.56445	0.932191	0.125731	-.439642
59	0.785682	-.509518	0.797017	-.154296	0.607484	0.229389	0.505269	0.103516	0.495143	0.773197	0.116163	-.214558
60	-.574837	0.612769	-.677733	-.380628	-.494455	-.134564	-.007725	0.14553	-.593675	-.739524	-.136767	.0666131
61	0.171989	-.007021	0.209993	0.162576	0.141019	-.096397	-.015972	-0.00233	.0628837	0.214196	-.123227	-0.09505
62	0.753388	-.494011	0.784723	0.341138	0.610110	0.258412	0.393403	.0813328	0.624206	0.798913	0.330787	-.100262

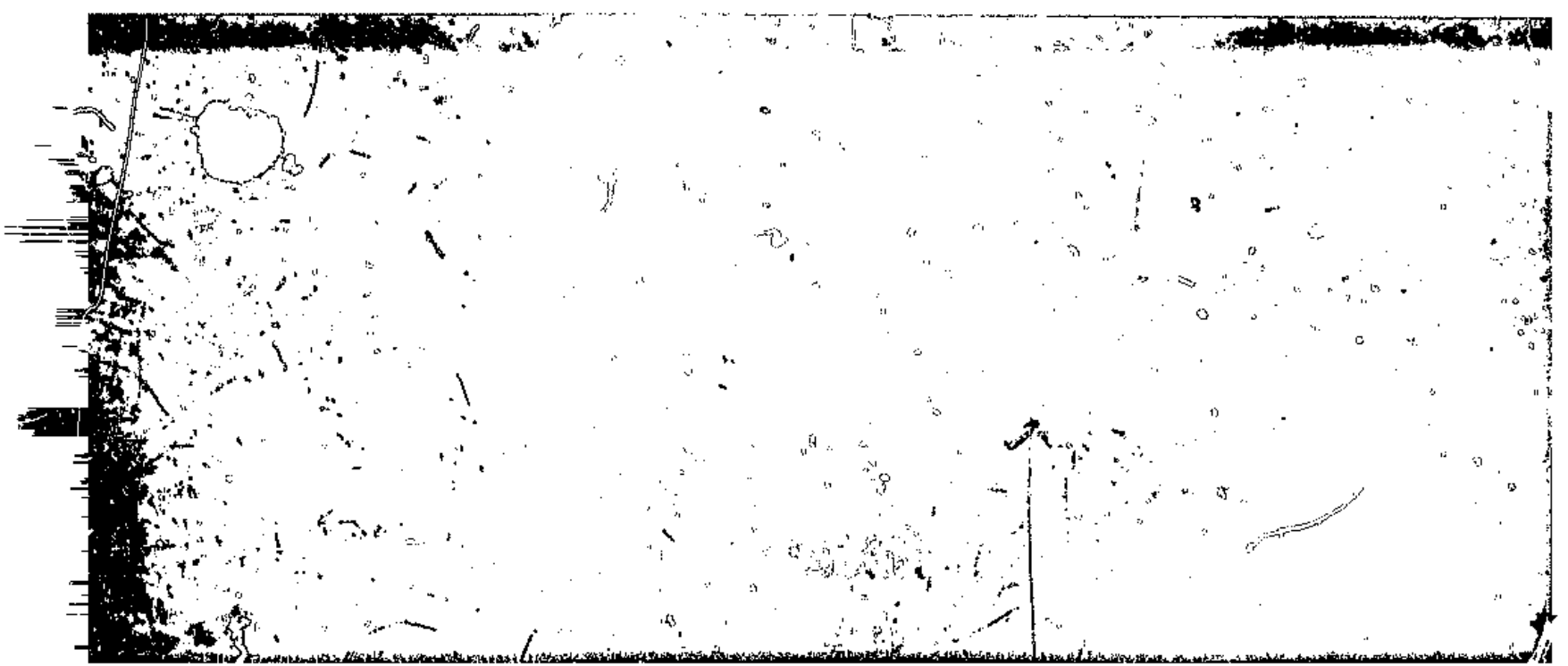
OBS	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	ACLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR
57	-.707398	0.837284	0.451317	0.236165	0.303891	0.487347	1	0.938381	0.776411	-.739539	0.260968	0.729588
58	-.698139	0.800778	0.388464	0.236591	0.307179	0.532361	0.938381	1	0.76899	-.668607	0.231701	0.759169
59	-.608817	0.698317	0.369585	.0996472	0.10988	0.496821	0.776411	0.76899	1	-.512212	0.106679	0.639415
60	0.713622	-.636408	-.292269	-.126673	-.230736	-.073736	-.739539	-.688607	-.512212	1	-.179218	-0.65
61	-.145274	0.244308	0.082363	0.392606	0.146419	-.026847	0.260968	0.231701	0.106679	-.179218	1	0.175892
62	-.878198	0.632048	0.23768	-.039508	0.191244	0.388263	0.729588	0.759189	0.639415	-0.65	0.175892	1



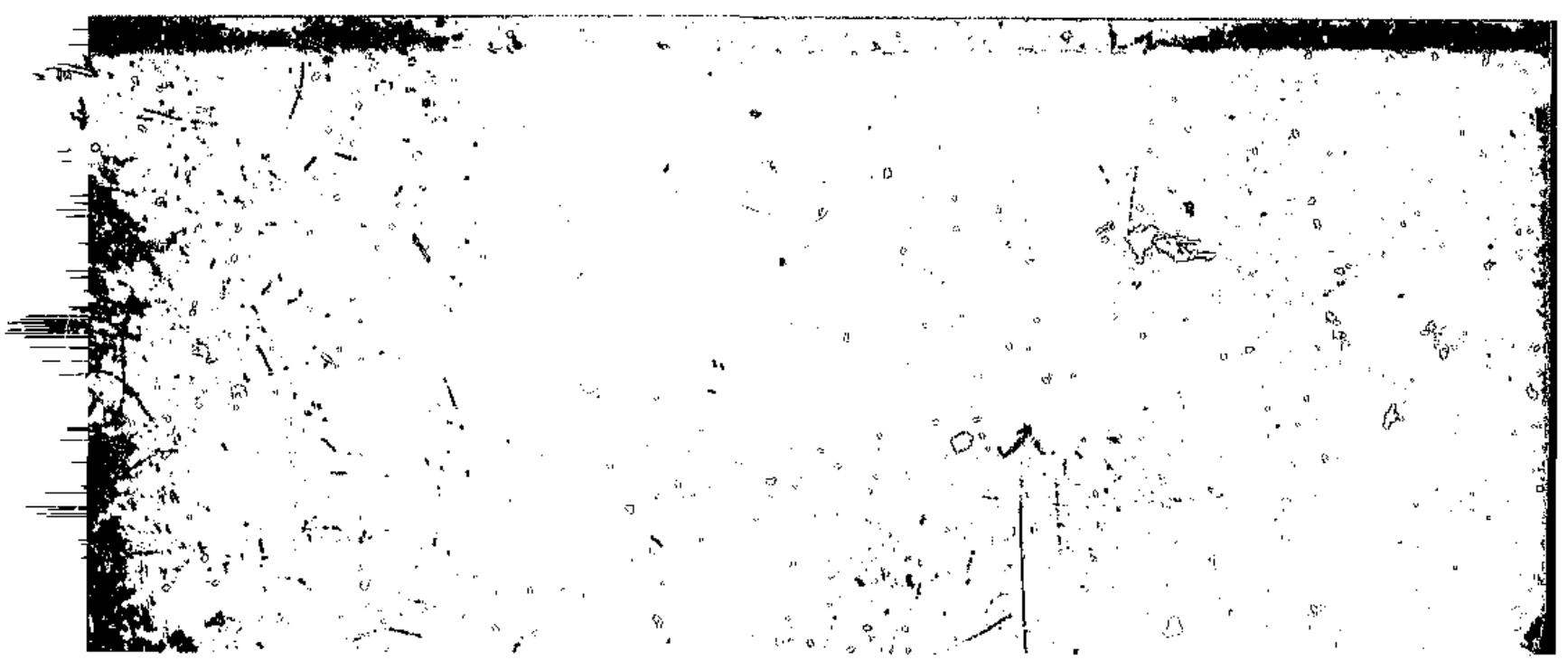
APPENDIX IB

Pearsons and Spearmans Correlation
Coefficients for the Male Data Set

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
RACHLEN	137	53.00189781	15.15477800	51.67000000	18.27000000	95.07000000
INTNDLN	137	5.13708321	1.56550848	5.12000000	1.76000000	9.66000000
LNWDRL	138	3.13652174	0.55569862	3.09500000	2.05000000	5.67000000
MXLNL	138	87.18869555	17.74586185	85.82500000	46.65000000	143.75000000
MXWDL	138	28.15615942	5.54130954	27.67500000	16.95000000	42.65000000
APXAN	138	80.04347826	17.70062045	81.00000000	32.00000000	126.00000000
APAPS	138	3.39753623	1.28397979	3.40500000	0.91000000	7.86000000
BSAN	138	45.16666667	11.15890356	44.00000000	26.00000000	78.00000000
BSPS	138	92.28166667	2.37685420	92.62000000	86.48000000	96.73000000
SVINS	138	1.29659420	0.66664921	1.13000000	0.40000000	4.90000000
NSECV	138	18.56521739	2.89211493	18.00000000	12.00000000	28.00000000
PINSV	138	29.37782609	16.92931262	26.67000000	9.00000000	73.68000000
PTLLN	138	9.60224638	2.54825603	9.47500000	3.70000000	15.30000000
INTLN	138	10.16666667	3.93757092	9.47500000	3.75000000	23.50000000
WBR	138	5.44130435	0.91736916	5.60000000	3.60000000	7.40000000
LBRL	138	3.90884058	1.27856219	4.08000000	1.12000000	6.44000000
DBRL	138	1.90623188	0.54675580	2.00000000	0.72000000	3.28000000
IBRW	138	0.84898551	0.15718922	0.84000000	0.41000000	1.30000000
OBRW	138	1.03942029	0.28963548	1.08000000	0.34000000	1.76000000
INMXL	138	6.22876812	2.14276936	6.72500000	1.82000000	10.94000000
INMXW	138	4.86427536	1.74747028	5.15000000	1.04000000	8.10000000
PMXL	138	4.74855406	1.89027266	4.91000000	1.12000000	9.38000000
LBRP	138	2.06231884	0.59212384	2.09000000	0.76000000	3.79000000
NFLOR	138	25.17681159	12.63253412	27.10000000	1.00000000	62.60000000
CORLLN	138	1.77826087	0.32796411	1.78000000	1.00000000	2.70000000
CORLWD	138	0.45789855	0.04780515	0.45000000	0.34000000	0.58000000
CORTWD	138	0.93123188	0.13619194	0.94000000	0.56000000	1.38000000
LCTPFA	138	3.48159420	0.81426205	3.50000000	1.12000000	5.58000000
INFW	138	8.75050725	2.77[illegible]	9.34000000	1.56000000	14.23000000
INFL	138	9.81108696	2.85901556	9.97500000	4.46000000	16.28000000
PAPMXLN	138	4.58166667	1.13482600	4.70500000	2.21000000	7.86000000
TFLLN	138	8.17123188	1.38091763	8.29000000	4.20000000	12.34000000
FMXLN	138	1.53884058	0.36115806	1.53000000	0.68000000	2.48000000
AMXLN	138	2.61195652	0.40126417	2.62000000	1.60000000	4.10000000
STMXLN	138	7.69804348	1.34529885	7.78000000	3.90000000	11.60000000
STMXLOL	138	0.40528986	0.11393552	0.38000000	0.20000000	0.74000000
VACMXLN	138	0.47978261	0.14551428	0.51000000	0.18000000	1.24000000
CRMXLN	138	5.99978261	1.15701886	6.08000000	3.07000000	9.52000000
CRMXWD	138	0.78949275	0.14231312	0.79500000	0.44000000	1.28000000
CRMNWD	138	0.39188406	0.05712773	0.38500000	0.27000000	0.58000000
VANGS	138	57.50724638	7.66377999	58.00000000	40.00000000	90.00000000
VANGB	138	58.10144928	12.86668865	59.50000000	30.00000000	88.00000000
SHINL	138	66.85326087	3.26862684	66.59000000	57.89000000	76.19000000
NWNOFHD	137	1.25012517	0.40761435	1.14612804	0.55630250	2.30059548
IBLWR	138	4.57822815	1.23997410	4.62716450	1.75000000	8.03225806
OBLWR	138	1.84520559	0.25469008	1.81174089	1.35135135	2.43478261
INVLWR	138	1.32457831	0.26497561	1.28163949	0.94590164	2.61538462
CRLLWR	138	3.91263085	0.78407821	3.82608696	2.03773585	6.92307692
CORLWR	138	7.71512677	1.42935873	7.57369403	3.07000000	11.96610169
CORLMWR	138	15.54864841	3.36321070	15.59899749	6.67391304	26.44444444
STLLBR	138	19.86133709	4.44529535	20.09761905	7.02127660	29.57575758
TFLPLR	138	1.83171321	0.24124634	1.78507806	1.30815710	2.79674797
INFLWR	138	1.23734299	0.56341873	1.08522649	0.84472050	4.53409091
LRNFHR	137	3.75337175	2.27083412	3.81366139	0.26763727	12.75263158
ALFMLR	138	1.75860698	0.32779224	1.72570533	0.65322581	2.79411765



VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
LCPFCLR	138	0.57637349	0.04780051	0.57679487	0.36482085	0.69680851

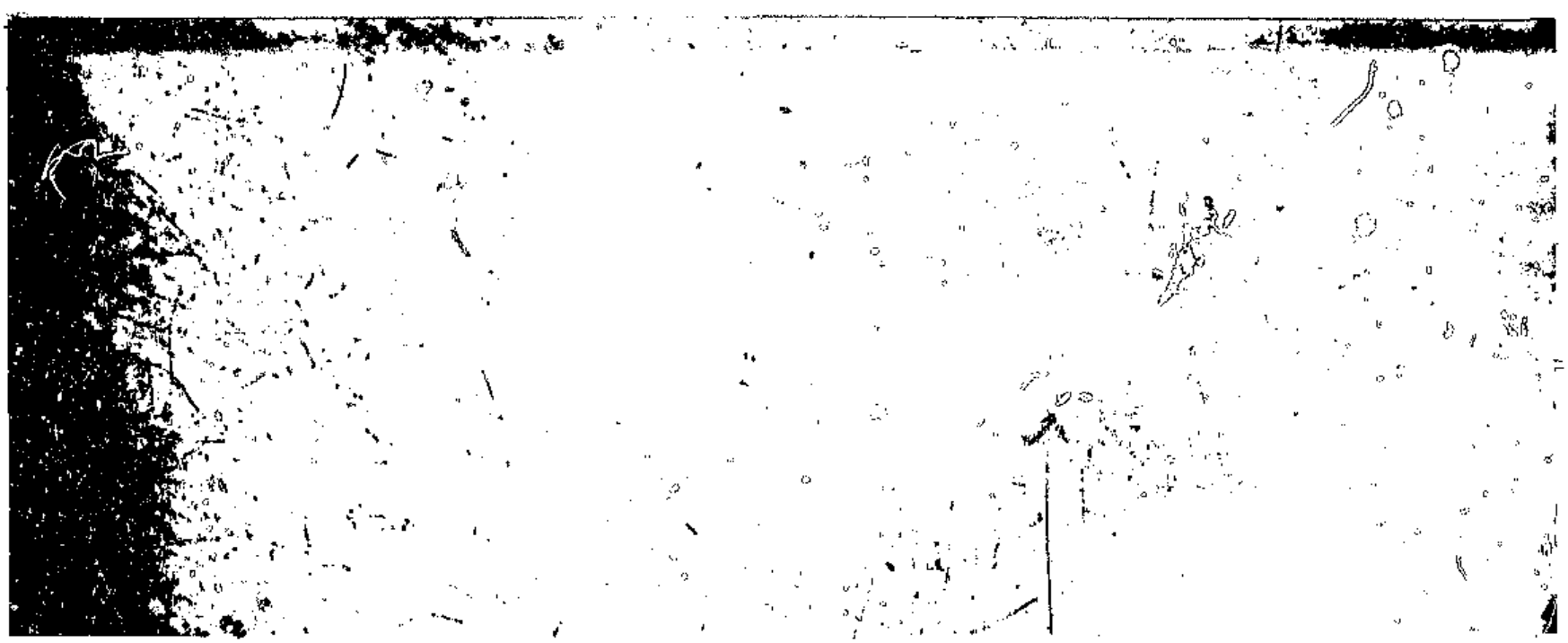


PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
RACMLEN	1.00000 0.0000 137	0.62298 0.0001 137	0.11995 0.1627 137	0.21625 0.0111 137	0.09721 0.2584 137	-0.08961 0.2977 137	-0.10400 0.2265 137	-0.13755 0.1090 137	-0.09271 0.2813 137	-0.00205 0.9810 137	0.08811 0.3059 137	-0.01309 0.8793 137	0.09726 0.2582 137
INTNDLN	0.62298 0.0001 137	1.00000 0.0000 138	0.04459 0.6049 137	0.11378 0.1856 137	0.07137 0.4072 137	-0.06446 0.4543 137	-0.12862 0.1342 137	0.01702 0.8435 137	-0.04675 0.5875 137	-0.12697 0.1393 137	-0.02726 0.7518 137	0.00681 0.9370 137	0.22465 0.0083 137
LNWDRL	0.11995 0.1627 137	0.04459 0.6049 137	1.00000 0.0000 138	0.49513 0.0001 138	-0.37147 0.0001 138	-0.46917 0.0001 138	0.03941 0.6463 138	-0.49416 0.0001 138	0.03164 0.7126 138	-0.29183 0.0005 138	0.22814 0.0071 138	0.13743 0.1080 138	0.20808 0.0007 138
MXLNL	0.21625 0.0111 137	0.11378 0.1856 137	0.49813 0.0001 138	1.00000 0.0000 138	0.60409 0.0001 138	-0.26578 0.0016 138	0.02824 0.7423 138	-0.15771 0.0647 138	0.11979 0.1617 138	0.04363 0.6114 138	0.57180 0.0001 138	0.30774 0.0002 138	0.36161 0.0001 138
MXWDL	0.09721 0.2584 137	0.07137 0.4072 137	-0.37147 0.0001 138	0.60409 0.0001 138	1.00000 0.0000 138	0.11894 0.1680 138	-0.00239 0.9778 138	0.27471 0.0011 138	0.07511 0.3813 138	0.33278 0.0001 138	0.38351 0.0001 138	0.18467 0.0301 138	0.12340 0.1493 138
APXAN	-0.08961 0.2977 137	-0.06446 0.4543 137	-0.46917 0.0001 138	-0.26578 0.0016 138	0.11894 0.1680 138	1.00000 0.0000 138	-0.41444 0.0001 138	0.04506 0.5997 138	-0.15715 0.0657 138	0.24308 0.0041 138	-0.14649 0.0854 138	-0.07186 0.4022 138	-0.21529 0.0112 138
APXPS	-0.10400 0.2265 137	-0.12862 0.1342 137	0.03941 0.6463 138	0.02824 0.7423 138	-0.00239 0.9778 138	-0.41444 0.0001 138	1.00000 0.0000 138	0.16640 0.0511 138	0.20033 0.0185 138	-0.09492 0.2681 138	-0.04849 0.5722 138	0.02279 0.7907 138	0.33168 0.7105 138
BSAN	-0.13755 0.1090 137	0.01702 0.8435 137	-0.49416 0.0001 138	-0.15771 0.0647 138	0.27471 0.0011 138	0.04506 0.5997 138	0.16640 0.0511 138	1.00000 0.0000 138	0.56081 0.0001 138	0.04957 0.5637 138	0.03688 0.6676 138	-0.03407 0.6916 138	-0.06614 0.4408 138
BSPS	-0.09271 0.2813 137	-0.04675 0.5875 137	0.03164 0.7126 138	0.11979 0.1617 138	0.07511 0.3813 138	-0.15715 0.0657 138	0.20033 0.0185 138	0.56081 0.0001 138	1.00000 0.0000 138	-0.06748 0.4317 138	0.22223 0.0088 138	0.04565 0.5949 138	0.15018 0.0787 138
SVINS	-0.00205 0.9810 137	-0.12697 0.1393 137	-0.29183 0.0005 138	0.04363 0.6114 138	0.33278 0.0001 138	0.24308 0.0041 138	-0.09492 0.2681 138	0.04957 0.5637 138	-0.06748 0.4317 138	1.00000 0.0000 138	0.03410 0.6957 138	-0.04907 0.5676 138	-0.07074 0.4097 138
NSECV	0.08811 0.3059 137	-0.02726 0.7518 137	0.22814 0.0071 138	0.57180 0.0001 138	0.38351 0.0001 138	-0.14649 0.0854 138	-0.04849 0.5722 138	0.03688 0.6676 138	0.22223 0.0088 138	0.03410 0.6957 138	1.00000 0.0000 139	0.63421 0.6904 138	0.61028 0.0002 138
PINSV	-0.01309 0.8793 137	0.00681 0.9370 137	0.13743 0.1080 138	0.30774 0.0002 138	0.18467 0.0301 138	-0.07186 0.4022 138	0.02279 0.7907 138	-0.03407 0.6916 138	0.04565 0.5949 138	-0.04907 0.5676 138	0.03421 0.6904 138	1.00000 0.0000 138	-0.04551 0.5961 138
PTLLN	0.09726 0.2582 137	0.22465 0.0083 137	0.20808 0.0007 138	0.36161 0.0001 138	0.12340 0.1493 138	-0.21529 0.0112 138	0.33168 0.7105 138	-0.06614 0.4408 138	0.15018 0.0787 138	-0.07074 0.4097 138	0.61028 0.0002 138	-0.04551 0.5961 138	1.00000 0.0000 138

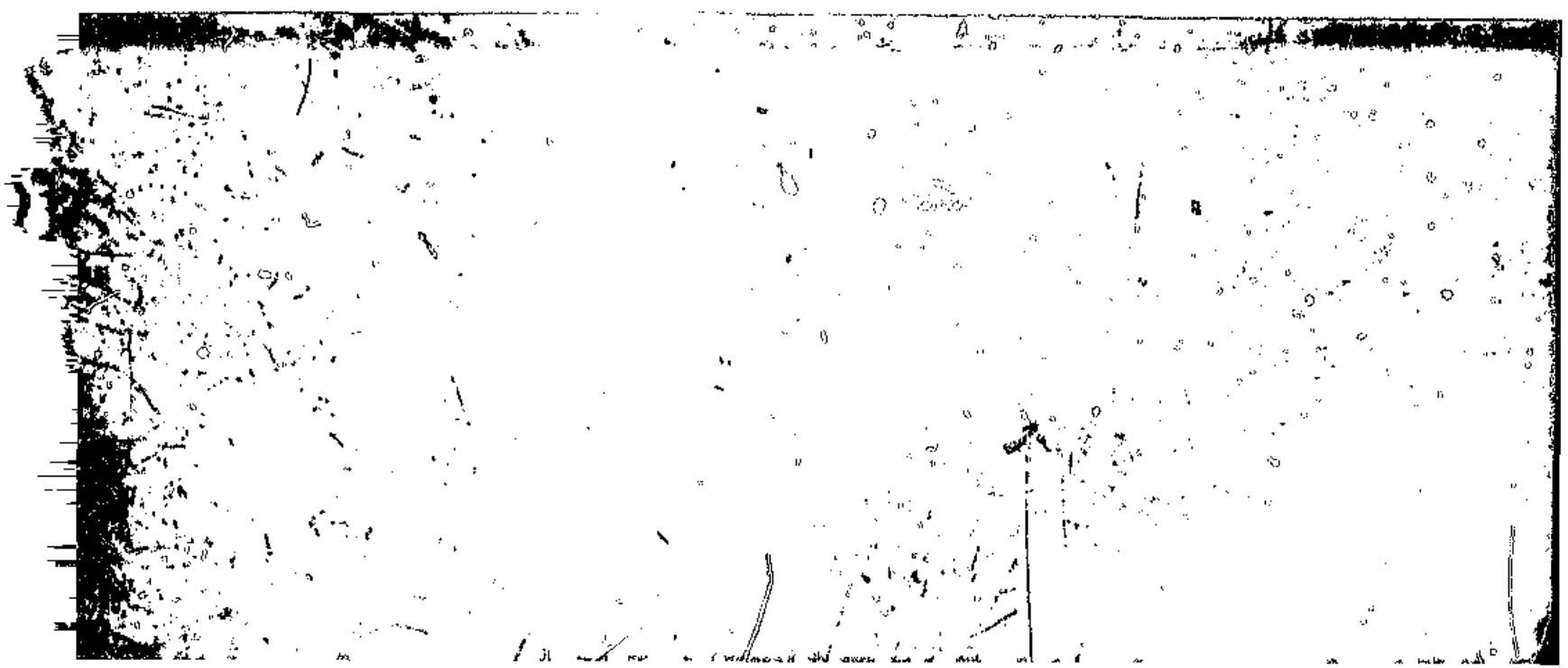
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
INTLN	0.21955 0.0099 137	0.09973 0.2463 137	-0.04523 0.5983 138	0.20377 0.0165 138	0.25848 0.0022 138	0.06601 0.4418 138	-0.10681 0.2124 138	0.00969 0.9102 138	0.02848 0.8115 138	0.03479 0.6854 138	-0.00176 0.9836 138	0.12291 0.1510 138	-0.09683 0.2585 138
NBR	-0.04629 0.5912 137	0.15998 0.0618 137	-0.29206 0.0005 138	-0.40398 0.0001 138	-0.15340 0.0724 138	0.20249 0.0172 138	0.03509 0.6828 138	0.18514 0.0297 138	0.13209 0.1225 138	-0.06502 0.4487 138	-0.13542 0.1133 138	-0.32844 0.0001 138	0.23172 0.0062 138
IBRL	-0.01594 0.5940 137	0.10756 0.2109 137	-0.20763 0.0145 138	-0.35754 0.0001 138	-0.18821 0.0271 138	0.06793 0.4285 138	0.12396 0.1474 138	0.32831 0.0001 138	0.30392 0.0003 138	-0.10248 0.2317 138	-0.09970 0.2446 138	-0.31689 0.0002 138	0.22186 0.0089 138
OBRL	-0.03600 0.6762 137	0.18001 0.0353 137	-0.17132 0.0445 138	-0.28866 0.0006 138	-0.14175 0.0972 138	0.09639 0.2607 138	0.10834 0.2059 138	0.25178 0.0029 138	0.24241 0.0042 138	-0.14135 0.0982 138	-0.14626 0.0869 138	-0.31956 0.0001 138	0.23231 0.0061 138
IBRW	-0.00654 0.9395 137	0.13900 0.1053 137	-0.25590 0.0025 138	-0.23120 0.0060 138	0.00134 0.9876 138	0.05214 0.5436 138	0.15573 0.0682 138	0.22818 0.0071 138	0.08999 0.2939 138	-0.11061 0.1955 138	-0.11209 0.1906 138	-0.13994 0.1016 138	0.02341 0.7852 138
OBRW	0.30452 0.9582 137	0.25136 0.0030 137	-0.12989 0.1289 138	-0.13923 0.0354 138	-0.06129 0.4751 138	0.06957 0.4175 138	0.08944 0.2968 138	0.20404 0.0164 138	0.18220 0.0324 138	-0.19169 0.0243 138	-0.12195 0.1542 138	-0.26394 0.0018 138	0.25474 0.0026 138
INMXL	-0.02380 0.7825 137	0.16461 0.0546 137	-0.20408 0.0164 138	-0.32067 0.0001 138	-0.14614 0.0872 138	0.10849 0.2053 138	0.05104 0.5522 138	0.28216 0.0008 138	0.29443 0.0005 138	-0.10641 0.2142 138	-0.08060 0.3473 138	-0.30760 0.0002 138	0.25142 0.0029 138
INMXW	0.81266 0.8833 133	0.18992 0.0262 137	-0.20410 0.0163 138	-0.34885 0.0001 138	-0.17654 0.0383 138	0.08516 0.3207 138	0.09539 0.2657 138	0.29519 0.0004 138	0.29165 0.0005 138	-0.12443 0.1459 138	-0.13341 0.1168 138	-0.30468 0.0003 138	0.24815 0.0033 138
PMXL	-0.00089 0.9984 137	0.15175 0.0707 137	-0.28911 0.0014 138	-0.30563 0.0003 138	-0.07236 0.3990 138	0.23879 0.0048 138	-0.03072 0.7205 138	0.12710 0.1374 138	0.08446 0.3246 138	-0.26770 0.4302 138	-0.09745 0.2558 138	-0.30635 0.0003 138	0.21286 0.0122 138
LBRP	0.03738 0.6645 137	0.17776 0.0377 137	-0.13220 0.1222 138	-0.17934 0.0353 138	-0.06429 0.4538 138	0.06302 0.4628 138	-0.03986 0.8425 138	0.17112 0.0448 138	0.16022 0.0344 138	-0.05483 0.5230 138	0.00562 0.9478 138	-0.26289 0.0008 138	0.27452 0.0011 138
NFLOR	-0.01758 0.8384 137	0.15753 0.0660 137	-0.13292 0.1202 138	-0.34307 0.0001 138	-0.23630 0.0053 138	0.12942 0.1303 138	0.08007 0.3505 138	0.21369 0.0118 138	0.27908 0.0009 138	-0.14829 0.0826 138	-0.17801 0.0367 138	-0.28463 0.0007 138	0.23853 0.0048 138
CORLLN	-0.16510 0.0539 137	0.03733 0.6849 137	-0.15885 0.0628 138	-0.22139 0.0091 138	-0.05601 0.5141 138	0.07894 0.3958 138	0.05555 0.5175 138	0.01931 0.8221 138	0.06060 0.4802 138	-0.10559 0.2178 138	-0.00327 0.9697 138	-0.26291 0.0018 138	0.19287 0.0234 138
CORLWD	0.00445 0.9589 137	0.15113 0.0779 137	-0.12167 0.1551 138	-0.04404 0.6080 138	0.11936 0.1632 138	0.00986 0.9087 138	0.03289 0.7078 138	0.07157 0.4042 138	0.02989 0.7278 138	0.08454 0.3242 138	0.00760 0.9895 138	0.08342 0.3307 138	0.18665 0.0284 138



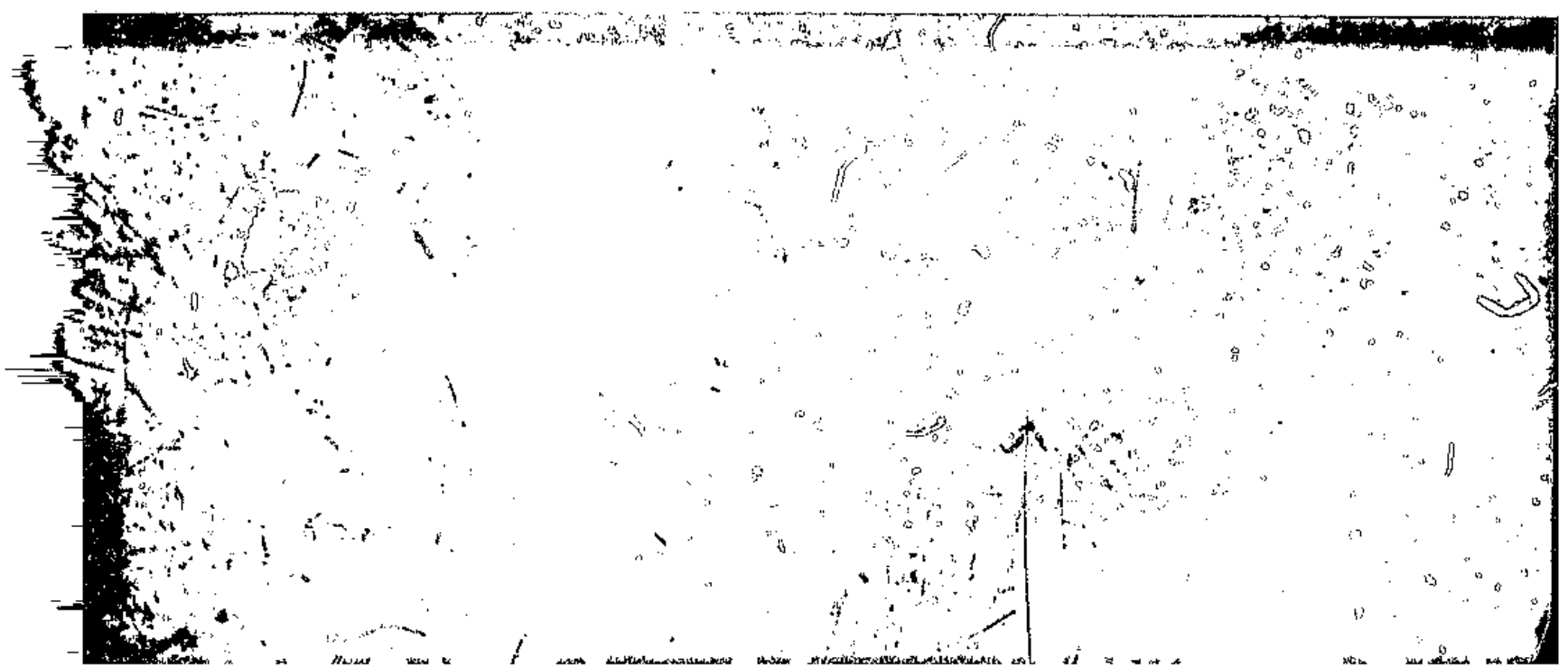
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
CORTWD	-0.16301 0.0570 137	0.02599 0.7639 137	-0.22604 0.0071 138	-0.28918 0.0006 138	-0.08900 0.2992 138	0.03758 0.6617 138	0.09330 0.2764 138	0.22758 0.0073 138	0.11898 0.1646 138	-0.28712 0.3096 138	-0.06531 0.4466 138	-0.18622 0.0208 138	0.19965 0.0189 138
LCTPFA	-0.05217 0.5449 137	0.10386 0.2271 137	-0.17889 0.0358 138	-0.25933 0.0021 138	-0.10433 0.2233 138	0.08865 0.3012 138	0.10140 0.2367 138	0.11707 0.1715 138	0.14670 0.0860 138	-0.09942 0.2460 138	-0.09904 0.2478 138	-0.24954 0.0032 138	0.16453 0.0538 138
INFW	0.02510 0.7709 137	0.13872 0.1060 137	-0.12972 0.1294 138	-0.26964 0.0014 138	-0.16474 0.0535 138	0.13398 0.1158 138	0.10942 0.2014 138	0.15170 0.0757 138	0.18190 0.0327 138	-0.21308 0.0121 138	-0.21642 0.0108 138	-0.27563 0.0011 138	0.16573 0.0521 138
INFL	-0.00616 0.9430 137	0.13715 0.1100 137	-0.21585 0.0110 138	-0.32717 0.0001 138	-0.13838 0.1055 138	0.11447 0.1813 138	0.04348 0.6126 138	0.22385 0.0083 138	0.22812 0.0071 138	-0.10201 0.2338 138	-0.09148 0.2859 138	-0.30059 0.0003 138	0.20386 0.0186 138
PAPMXLN	-0.04233 0.6233 137	0.12871 0.1531 137	-0.21698 0.0106 138	-0.31863 0.0001 138	-0.13870 0.1200 138	0.09034 0.2920 138	0.12593 0.1476 138	0.20257 0.0172 138	0.19288 0.0238 138	-0.09077 0.2897 138	-0.13442 0.1160 138	-0.32195 0.0001 138	0.19451 0.0223 138
TFLLN	-0.04517 0.6002 137	0.09180 0.2860 137	-0.17307 0.0424 138	-0.24628 0.0036 138	-0.09823 0.2820 138	0.09686 0.2486 138	0.07709 0.3688 138	0.13044 0.1273 138	0.14881 0.0815 138	-0.11143 0.1932 138	-0.05543 0.5185 138	-0.26207 0.0019 138	0.18305 0.0316 138
FMXLN	-0.11558 0.1787 137	0.12537 0.1446 137	-0.20676 0.0150 138	-0.26940 0.0014 138	-0.07914 0.3561 138	0.12401 0.1473 138	0.01805 0.8336 138	0.11572 0.1765 138	0.07484 0.3830 138	-0.15531 0.0689 138	-0.15758 0.0649 138	-0.23732 0.0051 138	0.16670 0.0507 138
AMXLN	-0.03995 0.6430 137	0.03683 0.6862 137	-0.00954 0.0136 138	-0.00753 0.0146 138	-0.02089 0.8079 138	0.10850 0.2052 138	0.08630 0.3142 138	0.20194 0.0175 138	0.34284 0.0041 138	-0.02268 0.7918 138	0.03577 0.6770 138	-0.33008 0.0001 138	0.18491 0.0299 138
STMXLN	-0.05190 0.5470 137	0.09812 0.2540 137	-0.18919 0.0263 138	-0.24211 0.0042 138	-0.07575 0.3772 138	0.09931 0.2465 138	0.07466 0.3841 138	0.12925 0.1308 138	0.15223 0.0747 138	-0.11596 0.1756 138	-0.05204 0.5444 138	-0.25989 0.0021 138	0.19728 0.0204 138
STMXLOL	0.02404 0.7803 137	0.24161 0.0045 137	-0.18040 0.0342 138	-0.06894 0.4217 138	0.11659 0.1733 138	0.02102 0.8067 138	0.05495 0.5221 138	0.07333 0.3927 138	-0.03482 0.6851 138	0.02643 0.7583 138	-0.03373 0.6945 138	0.01620 0.8504 138	0.07747 0.3664 138
VACMXLN	0.00354 0.9672 137	-0.10946 0.2029 137	0.10370 0.2261 138	-0.07497 0.3822 138	-0.15783 0.0645 138	0.00941 0.9128 138	0.02990 0.7878 138	0.08897 0.2994 138	0.03985 0.6426 138	-0.01727 0.8407 138	-0.03127 0.7158 138	-0.06521 0.4473 138	-0.12072 0.1584 138
CRMXLN	-0.07789 0.3699 137	0.09351 0.2771 137	-0.19651 0.0196 138	-0.28388 0.0007 138	-0.10806 0.2071 138	0.09664 0.2595 138	0.10345 0.2273 138	0.13884 0.1095 138	0.15742 0.0652 138	-0.10452 0.2288 138	-0.08839 0.3026 138	-0.28997 0.0006 138	0.20438 0.0162 138
CRMXWD	-0.06710 0.4360 137	0.10459 0.2239 137	-0.19305 0.0233 138	-0.21064 0.0131 138	-0.04433 0.6057 138	-0.02056 0.8108 138	0.10370 0.2261 138	0.27042 0.0013 138	0.17635 0.0385 138	-0.11078 0.1958 138	-0.00621 0.9423 138	-0.21172 0.0127 138	0.28926 0.0006 138



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

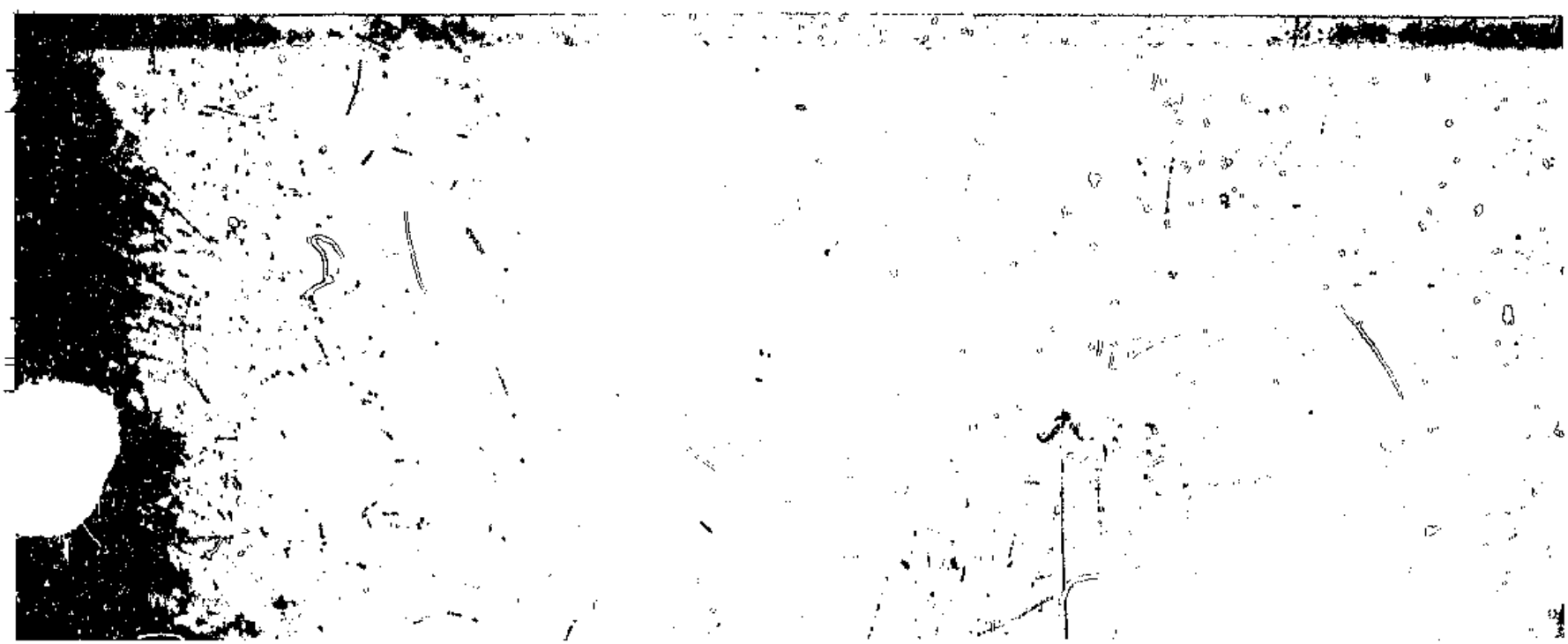
	RACHLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
CRMNWD	-0.00409 0.9621 137	0.01536 0.8586 137	-0.11043 0.1972 138	-0.01972 0.8185 138	0.08029 0.3492 138	-0.04729 0.5818 138	0.13917 0.1035 138	0.16868 0.0480 138	0.16465 0.0536 138	-0.30988 0.9098 138	0.13179 0.1234 138	0.02430 0.7772 138	0.15708 0.0658 138
VANGS	0.15341 0.0735 137	0.12538 0.1943 137	-0.24367 0.0040 138	0.10988 0.1995 138	0.34200 0.0001 138	0.22271 0.0087 138	-0.13616 0.1113 138	0.18359 0.0310 138	0.05817 0.4980 138	0.43989 0.0001 138	0.28138 0.0008 138	0.38970 0.2954 138	-0.11698 0.1735 138
VANGB	-0.33790 0.0051 137	-0.07534 0.3816 137	-0.31244 0.0002 138	-0.02425 0.7777 138	0.26482 0.0017 138	0.01302 0.8795 138	0.01505 0.8609 138	0.38108 0.8001 138	0.29287 0.0005 138	0.11883 0.1669 138	0.14909 0.0809 138	-0.02164 0.8011 138	0.11242 0.1893 138
SHTNL	0.33147 0.7138 137	0.03700 0.6677 137	0.31831 0.0001 138	0.37002 0.0001 138	-0.37040 0.0001 138	-0.32568 0.0001 138	-0.08148 0.3421 138	-0.25100 0.0030 138	0.26590 0.0016 138	-0.27897 0.0013 138	0.23665 0.0052 138	0.09190 0.2837 138	0.28099 0.0008 138
NWNGFND	0.39420 0.0001 137	0.04337 0.6148 137	0.22717 0.0094 137	0.38800 0.0001 137	0.28371 0.0776 137	-0.19377 0.0233 137	-0.11593 0.1773 137	-0.21288 0.0013 137	-0.20861 0.0143 137	0.16165 0.0588 137	0.34105 0.0045 137	0.26360 0.0019 137	-0.13364 0.1195 137
IBLWR	-0.06824 0.4282 137	0.04282 0.6226 137	-0.19059 0.2404 138	-0.31388 0.0002 138	-0.24972 0.0031 138	0.08384 0.1283 138	0.02229 0.7953 138	0.04701 0.0035 138	0.31375 0.0002 138	-0.05396 0.5296 138	-0.07682 0.3798 138	-0.30888 0.0002 138	0.26423 0.0017 138
OBLWR	-0.09403 0.2744 137	-0.13229 0.1233 137	-0.14391 0.0922 138	-0.27860 0.0009 138	-0.16268 0.0566 138	0.10673 0.2128 138	0.00457 0.9576 138	0.08874 0.3007 138	0.10398 0.2249 138	0.18797 0.0273 138	-0.38701 0.3102 138	-0.12291 0.1509 138	-0.00970 0.9101 138
IRVLWR	-0.13331 0.3204 137	-0.16742 0.0505 137	0.01817 0.8325 138	0.10656 0.2135 138	0.09201 0.2831 138	0.02082 0.8085 138	-0.19990 0.0187 138	-0.12447 0.1458 138	-0.08288 0.3339 138	0.12679 0.1384 138	0.19820 0.0198 138	0.11201 0.1909 138	-0.04523 0.5984 138
OTLWR	-0.15594 0.0688 137	-0.04583 0.5949 137	-0.07331 0.3929 138	-0.18886 0.0265 138	-0.13097 0.1237 138	0.06903 0.4211 138	0.02013 0.8147 138	-0.04514 0.6991 138	0.02978 0.7288 138	-0.14934 0.0804 138	-0.01326 0.8773 138	-0.39465 0.0005 138	0.08573 0.3174 138
CORLWR	-0.01064 0.8288 138	-0.30675 0.9376 137	-0.03609 0.6743 138	-0.08442 0.2706 138	-0.05807 0.4987 138	0.12055 0.1590 138	0.01451 0.8659 138	-0.09346 0.2756 138	0.01672 0.7557 138	-0.02196 0.7982 138	-0.08087 0.3458 138	-0.08402 0.3272 138	-0.07838 0.3608 138
CORLMWR	-0.07099 0.4097 137	0.05518 0.5219 137	-0.10605 0.2157 138	-0.28728 0.0023 138	-0.18682 0.0505 138	0.12063 0.1587 138	0.01021 0.9054 138	0.00587 0.9455 138	0.03590 0.6759 138	-0.39485 0.2685 138	-0.18516 0.0297 138	-0.26764 0.0015 138	0.06967 0.4168 138
STLLBR	0.01893 0.8262 137	-0.09991 0.2454 137	-0.01246 0.8847 138	-0.14482 0.0901 138	-0.19211 0.0575 138	0.07370 0.3903 138	0.02146 0.8027 138	0.10025 0.2397 138	0.18942 0.0261 138	-0.06906 0.4209 138	-0.03679 0.6684 138	-0.16879 0.0478 138	0.07855 0.3598 138
TFLPLR	0.35129 0.5517 137	-0.15181 0.0766 137	0.19719 0.0204 138	0.34326 0.0001 138	0.19152 0.0244 138	-0.09196 0.2834 138	-0.13856 0.1051 138	-0.24144 0.0043 138	-0.19010 0.0255 138	0.06320 0.4615 138	0.23823 0.0049 138	0.33436 0.0001 138	-0.16687 0.0504 138



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	RACHLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
INFLWR	-0.07433 0.3880 137	-0.14056 0.1014 137	-0.02238 0.7944 138	0.10355 0.2268 138	0.12794 0.1348 138	-0.09584 0.2635 138	-0.17022 0.0439 138	-0.10666 0.2198 138	-0.12333 0.1496 138	0.23338 0.0059 138	0.26892 0.0014 138	0.10109 0.2381 138	-0.05033 0.5577 138
LRNFHR	-0.12086 0.1595 137	0.10966 0.2021 137	-0.15647 0.0679 137	-0.31527 0.0002 137	-0.17844 0.0370 137	0.13798 0.1076 137	0.05641 0.5127 137	0.28345 0.0087 137	0.20413 0.0167 137	-0.16841 0.0492 137	-0.19199 0.0762 137	-0.25831 0.0023 137	0.19045 0.0258 137
ALFMLR	0.17188 0.0446 137	-0.06189 0.4725 137	0.12429 0.1464 138	0.26000 0.0021 138	0.13637 0.1107 138	-0.08757 0.3071 138	0.02406 0.7794 138	0.01212 0.8878 138	0.07429 0.3865 138	0.18586 0.0291 138	0.27591 0.0011 138	0.09227 0.2817 138	-0.03775 0.6602 138
LCPFCLR	0.00478 0.9558 137	0.07328 0.3946 137	-0.07324 0.3933 138	-0.13129 0.1248 138	-0.07275 0.3965 138	0.06380 0.4226 138	0.05426 0.5273 138	0.03390 0.6931 138	0.06589 0.4426 138	-0.01998 0.8160 138	-0.14802 0.0832 138	-0.05385 0.5369 138	-0.04226 0.6226 138

	INTLN	NBR	IBRL	OBRL	IDRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLLN	CORLWD
RACHLEN	0.21885 0.0098 137	0.04629 0.5912 137	-0.04594 0.5940 137	-0.03600 0.6762 137	-0.00654 0.9395 137	0.00152 0.9592 137	-0.02380 0.7825 137	0.01266 0.8833 137	-0.00039 0.9964 137	0.03738 0.6645 137	-0.01758 0.8384 137	-0.16510 0.0539 137	0.00445 0.9589 137
INTNDLN	0.09973 0.2463 137	0.15998 0.0618 137	0.10756 0.2109 137	0.18001 0.0353 137	0.13900 0.1053 137	0.05133 0.0030 137	0.16461 0.0546 137	0.18992 0.0262 137	0.15175 0.0767 137	0.17776 0.0377 137	0.15753 0.0660 137	0.03733 0.6649 137	0.15113 0.0779 137
LNWDRL	-0.04523 0.5983 138	-0.00806 0.9805 138	-0.20763 0.0145 138	-0.17132 0.0445 138	-0.25590 0.0025 138	-0.12989 0.1289 138	-0.20402 0.0164 138	-0.00410 0.0163 138	-0.26911 0.0014 138	-0.13220 0.1222 138	-0.13295 0.1282 138	-0.15885 0.0628 138	-0.12167 0.1551 138
MXLNL	0.20377 0.0165 138	-0.00398 0.0001 138	-0.35754 0.0001 138	-0.08866 0.0006 138	-0.23120 0.0064 138	-0.17923 0.0354 138	-0.32067 0.0001 138	-0.34885 0.0001 138	-0.30562 0.0003 138	-0.17934 0.0353 138	-0.34307 0.0001 138	-0.22139 0.0091 138	-0.04404 0.6080 138
MXWDL	0.25848 0.0022 138	-0.15340 0.0724 138	-0.18821 0.0271 138	-0.14175 0.0972 138	0.00134 0.9876 138	-0.06129 0.4751 138	-0.14614 0.0872 138	-0.17654 0.0383 138	-0.07236 0.3990 138	-0.06429 0.4538 138	-0.23630 0.0053 138	-0.05607 0.5141 138	0.11936 0.1632 138
APXAN	0.06601 0.4418 138	0.20249 0.0172 138	0.06793 0.4235 138	0.09639 0.2607 138	0.05214 0.5436 138	0.06957 0.4175 138	0.10849 0.2053 138	0.03516 0.3207 138	0.23879 0.0048 138	0.06302 0.4628 138	0.12942 0.1303 138	0.07294 0.3952 138	0.00986 0.9087 138
APXPS	-0.10681 0.2124 138	0.03509 0.6828 138	0.12398 0.1474 138	0.10834 0.2059 138	0.15573 0.0682 138	0.08944 0.2968 138	0.05104 0.5522 138	0.09539 0.2657 138	-0.03072 0.7205 138	-0.03986 0.6425 138	0.08007 0.3505 138	0.05555 0.5175 138	0.03228 0.7070 138
BSAN	0.00969 0.9102 138	0.18514 0.0297 138	0.32831 0.0001 138	0.25178 0.0029 138	0.22818 0.0071 138	0.20404 0.0164 138	0.28216 0.0008 138	0.30519 0.0004 138	0.12710 0.1374 138	0.17112 0.0448 138	0.21369 0.0118 138	0.01931 0.8221 138	0.07157 0.4042 138
BSPS	0.02048 0.8115 138	0.13209 0.1225 138	0.30392 0.0003 138	0.24241 0.0042 138	0.08999 0.2939 138	0.18220 0.0324 138	0.29443 0.0005 138	0.29165 0.0005 138	0.08446 0.3246 138	0.18022 0.0344 138	0.27908 0.0009 138	0.00860 0.9802 138	0.02989 0.7278 138



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

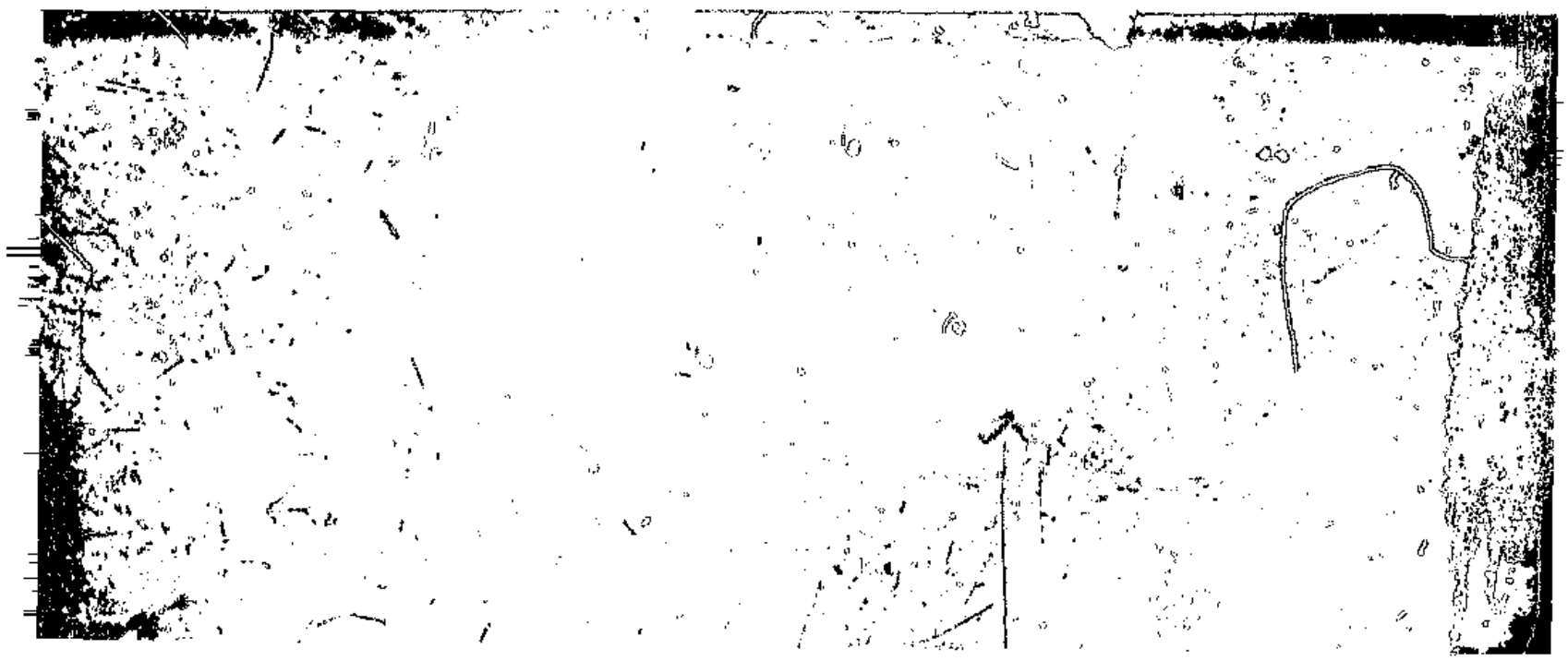
	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLLN	CORLWD
SVINS	0.83479 0.6854 138	-0.06502 0.4487 138	-0.10248 0.2317 138	-0.14135 0.0982 138	-0.11061 0.1905 138	-0.19169 0.0243 138	-0.10641 0.2142 138	-0.12443 0.1459 138	-0.06770 0.4302 138	-0.25483 0.5230 138	-0.14829 0.0826 138	-0.10559 0.2178 138	0.86454 0.3242 138
NSECV	-0.00176 0.9836 138	-0.13542 0.1133 138	-0.09970 0.2446 138	-0.14626 0.0869 138	-0.11209 0.1906 138	-0.12195 0.1542 138	-0.08060 0.3473 138	-0.13341 0.1188 138	-0.09745 0.2555 138	0.80562 0.9478 138	-0.17801 0.0367 138	-0.00823 0.9607 138	0.00760 0.9295 138
PINSV	0.12291 0.1518 138	-0.32844 0.0001 138	-0.31689 0.0002 138	-0.31258 0.0001 138	-0.13994 0.1016 138	-0.26394 0.0016 138	-0.30760 0.0002 138	-0.30468 0.0003 138	-0.30635 0.0003 138	-0.28289 0.0008 138	-0.20463 0.0007 138	-0.26291 0.0018 138	0.08382 0.3307 138
PTLLN	-0.09683 0.2585 138	0.23172 0.0062 138	0.22186 0.0089 138	0.23231 0.0061 138	0.02341 0.7852 138	0.25474 0.0026 138	0.25142 0.0029 138	0.24855 0.0033 138	0.21286 0.0122 138	0.27452 0.0011 138	0.23853 0.0048 138	0.19287 0.0234 138	0.18665 0.0284 138
INTLN	1.00000 0.0000 138	0.81900 0.8249 138	0.05608 0.5135 138	0.06206 0.4696 138	0.16511 0.0530 138	0.88132 0.3431 138	0.07600 0.3756 138	0.09475 0.2690 138	0.05628 0.5120 138	0.05978 0.2950 138	0.01057 0.9021 138	-0.05986 0.4855 138	0.13823 0.1059 138
NBR	0.01900 0.8249 138	1.00000 0.0000 138	0.84860 0.0001 138	0.88998 0.0001 138	0.56798 0.0001 138	0.74133 0.0001 138	0.80959 0.0001 138	0.82013 0.0001 138	0.85995 0.0001 138	0.28299 0.0001 138	0.81688 0.0001 138	0.59753 0.0001 138	0.26464 0.0017 138
IBRL	0.05608 0.5188 138	0.84860 0.0001 138	1.00000 0.0000 138	0.88612 0.0001 138	0.63943 0.0001 138	0.78598 0.0001 138	0.88898 0.0001 138	0.90108 0.0001 138	0.76584 0.0001 138	0.78808 0.0001 138	0.82474 0.0001 138	0.63427 0.0001 138	0.17853 0.0362 138
OBRL	0.06206 0.4696 138	0.88998 0.0001 138	0.88612 0.0001 138	1.00000 0.0000 138	0.57361 0.0001 138	0.88611 0.0001 138	0.09135 0.0001 138	0.88324 0.0001 138	0.80720 0.0001 138	0.67338 0.0001 138	0.84264 0.0001 138	0.56891 0.0001 138	0.17588 0.0391 138
IBRW	0.16511 0.0530 138	0.56798 0.0001 138	0.63943 0.0001 138	0.57361 0.0001 138	1.00000 0.0000 138	0.62340 0.0001 138	0.64489 0.0001 138	0.65338 0.0001 138	0.55192 0.0001 138	0.51972 0.0001 138	0.52444 0.0001 138	0.38458 0.0001 138	0.25975 0.0021 138
OBRW	0.08132 0.3431 138	0.74133 0.0001 138	0.78596 0.0001 138	0.88611 0.0001 138	0.62340 0.0001 138	1.00000 0.0000 138	0.88182 0.0001 138	0.80067 0.0001 138	0.72520 0.0001 138	0.61013 0.0001 138	0.74742 0.0001 138	0.54388 0.0001 138	0.82902 0.0069 138
INMXL	0.07600 0.3756 138	0.80959 0.0001 138	0.88898 0.0002 138	0.89135 0.0001 138	0.64489 0.0001 138	0.80182 0.0001 138	1.00000 0.0000 138	0.92913 0.0001 138	0.84343 0.0001 138	0.77876 0.0001 138	0.87741 0.0001 138	0.55466 0.0001 138	0.23108 0.0064 138
INMXW	0.09475 0.2690 138	0.82613 0.0001 138	0.90108 0.0001 138	0.88324 0.0001 138	0.65338 0.0001 138	0.80067 0.0001 138	0.82913 0.0001 138	1.00000 0.0000 138	0.79807 0.0001 138	0.72588 0.0001 138	0.82374 0.0001 138	0.47070 0.0001 138	0.24428 0.0039 138
PMXL	0.05628 0.5120 138	0.85995 0.0001 138	0.76884 0.0001 138	0.80720 0.0001 138	0.55192 0.0001 138	0.72513 0.0001 138	0.84343 0.0001 138	0.79807 0.0001 138	1.00000 0.0000 138	0.72710 0.0001 138	0.77220 0.0001 138	0.65209 0.0001 138	0.21692 0.0106 138

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLLN	CORLWD
LBRP	0.08978 0.2950 138	0.68299 0.0001 138	0.72855 0.0001 138	0.87338 0.0001 138	0.51972 0.0001 138	0.61013 0.0001 138	0.77876 0.0001 138	0.72586 0.0001 138	0.72710 0.0001 138	1.00000 0.0000 138	0.66327 0.0001 138	0.51147 0.0001 138	0.22065 0.0093 138
NFLOR	0.01057 0.9021 138	0.81688 0.0001 138	0.82474 0.0001 138	0.84264 0.0001 138	0.52444 0.0001 138	0.74782 0.0001 138	0.87741 0.0001 138	0.92374 0.0001 138	0.77220 0.0001 138	0.66327 0.0001 138	1.00000 0.0000 138	0.46361 0.0001 138	0.13869 0.1048 138
CORLLN	-0.05986 0.4855 138	0.59793 0.0001 138	0.53427 0.0001 138	0.56601 0.0001 138	0.35456 0.0001 138	0.54388 0.0001 138	0.58466 0.0001 138	0.67070 0.0001 138	0.65209 0.0001 138	0.51147 0.0001 138	0.46361 0.0001 138	1.00000 0.0000 138	0.17440 0.0408 138
CORLWD	0.13823 0.1059 138	0.28464 0.0017 138	0.17853 0.0362 138	0.17588 0.0391 138	0.25975 0.0021 138	0.22902 0.0069 138	0.23108 0.0004 138	0.24428 0.0039 138	0.21692 0.0106 138	0.22065 0.0093 138	0.13869 0.1048 138	0.17440 0.0408 138	1.00000 0.0000 138
CORTWD	0.13077 0.1263 138	0.58898 0.0001 138	0.66995 0.0001 138	0.64213 0.0001 138	0.60249 0.0001 138	0.57057 0.0001 138	0.67598 0.0001 138	0.88086 0.0001 138	0.60741 0.0001 138	0.60220 0.0001 138	0.56650 0.0001 138	0.47736 0.0001 138	0.38103 0.0001 138
LOTPFA	-0.00142 0.9868 138	0.73527 0.0001 138	0.75914 0.0001 138	0.73954 0.0001 138	0.46914 0.0001 138	0.67245 0.0001 138	0.77586 0.0001 138	0.68731 0.0001 138	0.90690 0.0001 138	0.56593 0.0001 138	0.69898 0.0001 138	0.67472 0.0001 138	0.14425 0.0914 138
INFW	0.09332 0.2763 138	0.69549 0.0001 138	0.72797 0.0001 138	0.78482 0.0001 138	0.47694 0.0001 138	0.73954 0.0001 138	0.77855 0.0001 138	0.90923 0.0001 138	0.74280 0.0001 138	0.63136 0.0001 138	0.81090 0.0001 138	0.53448 0.0001 138	0.17342 0.0419 138
INFL	0.07690 0.3700 138	0.83924 0.0001 138	0.89922 0.0001 138	0.84437 0.0001 138	0.62119 0.0001 138	0.75841 0.0001 138	0.94202 0.0001 138	0.86323 0.0001 138	0.83018 0.0001 138	0.71614 0.0001 138	0.82166 0.0001 138	0.61981 0.0001 138	0.19711 0.0205 138
PARMXLN	0.04424 0.6064 138	0.83013 0.0001 138	0.90010 0.0001 138	0.84754 0.0001 138	0.61196 0.0001 138	0.74076 0.0001 138	0.88752 0.0001 138	0.81260 0.0001 138	0.98983 0.0001 138	0.72178 0.0001 138	0.75769 0.0001 138	0.69029 0.0001 138	0.17134 0.0445 138
TFLLN	0.07723 0.3679 138	0.72684 0.0001 138	0.78216 0.0001 138	0.74367 0.0001 138	0.51461 0.0001 138	0.67530 0.0001 138	0.78550 0.0001 138	0.70671 0.0001 138	0.94009 0.0001 138	0.62073 0.0001 138	0.65046 0.0001 138	0.72566 0.0001 138	0.15647 0.0668 138
FMXLN	0.03979 0.6431 138	0.64517 0.0001 138	0.60209 0.0001 138	0.63908 0.0001 138	0.36660 0.0001 138	0.60055 0.0001 138	0.51593 0.0001 138	0.56477 0.0001 138	0.64219 0.0001 138	0.51397 0.0001 138	0.58587 0.0001 138	0.72711 0.0001 138	0.25251 0.0028 138
AMXLN	0.11555 0.1772 138	0.68993 0.0001 138	0.74528 0.0001 138	0.69966 0.0001 138	0.50118 0.0001 138	0.61579 0.0001 138	0.75188 0.0001 138	0.68625 0.0001 138	0.71296 0.0001 138	0.65686 0.0001 138	0.65239 0.0001 138	0.72733 0.0001 138	0.11178 0.1918 138
STMXLN	0.05460 0.5247 138	0.74141 0.0001 138	0.77091 0.0001 138	0.74231 0.0001 138	0.49909 0.0001 138	0.67889 0.0001 138	0.78178 0.0001 138	0.69436 0.0001 138	0.75411 0.0001 138	0.62269 0.0001 138	0.66382 0.0001 138	0.74681 0.0001 138	0.17277 0.0427 138

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INTLN	NBR	FBRL	OBRL	FBRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLLN	CORLWD
STMXLOL	0.05113 0.5515 138	0.41830 0.0001 138	0.25346 0.0027 138	0.01921 0.0112 138	0.40758 0.0001 138	0.25991 0.0021 138	0.27579 0.0011 138	0.20410 0.0163 138	0.33283 0.0001 138	0.27266 0.0012 138	0.13580 0.1177 138	0.36673 0.0001 138	0.26321 0.0008 138
VACMXLN	0.82188 0.0089 138	0.03681 0.6682 138	0.29897 0.0004 138	0.28515 0.0077 138	0.24488 0.0038 138	0.15608 0.0675 138	0.22009 0.0095 138	0.29053 0.0005 138	0.06931 0.4192 138	0.10736 0.2101 138	0.21108 0.0130 138	-0.01201 0.8888 138	-0.20132 0.0168 138
CRMXLN	0.81650 0.8476 138	0.79374 0.0001 138	0.81875 0.0081 138	0.79136 0.0001 138	0.53531 0.0001 138	0.78611 0.0001 138	0.82711 0.0001 138	0.73933 0.0001 138	0.78280 0.0001 138	0.65487 0.0001 138	0.69789 0.0001 138	0.78909 0.0001 138	0.19170 0.0243 138
CRMXWD	0.13536 0.1134 138	0.58034 0.0001 138	0.66980 0.0001 138	0.61124 0.2001 138	0.64617 0.0001 138	0.36096 0.0001 138	0.66773 0.0001 138	0.66646 0.0001 138	0.60861 0.0001 138	0.63205 0.0001 138	0.51653 0.0001 138	0.43252 0.0001 138	0.36967 0.0001 138
CRMNWD	0.10833 0.0829 138	0.23918 0.0047 138	0.34938 0.0001 138	0.25032 0.0031 138	0.38933 0.0001 138	0.22726 0.0074 138	0.32480 0.0001 138	0.33595 0.0001 138	0.24124 0.0044 138	0.25661 0.0024 138	0.18437 0.0304 138	0.13949 0.1027 138	0.49382 0.0001 138
VANGS	0.89454 0.2701 138	-0.01546 0.8572 138	-0.05088 0.5534 138	-0.28026 0.3494 138	-0.04719 0.5825 138	-0.07337 0.3944 138	-0.03025 0.7247 138	-0.07575 0.3772 138	0.01035 0.9041 138	-0.05347 0.5334 138	-0.10536 0.2188 138	-0.00908 0.9150 138	0.06131 0.4750 138
VANGB	-0.86307 0.4624 138	0.31156 0.0002 138	0.28217 0.0008 138	0.29116 0.0005 138	0.17235 0.0432 138	0.24928 0.0032 138	0.30666 0.0003 138	0.25970 0.0030 138	0.28230 0.0008 138	0.18911 0.0192 138	0.22111 0.0092 138	0.33442 0.0001 138	0.18547 0.0294 138
SHINL	-0.09551 0.2651 138	-0.22192 0.0089 138	-0.08564 0.3179 138	-0.09745 0.2955 138	-0.22563 0.0078 138	-0.08936 0.2973 138	-0.09759 0.2548 138	-0.08303 0.3330 138	-0.23561 0.0093 138	-0.09803 0.2527 138	-0.02656 0.7571 138	-0.21270 0.0123 138	-0.14095 0.0992 138
NWNDFHD	0.03303 0.7016 137	-0.75883 0.0001 137	-0.79686 0.0001 137	-0.82135 0.0001 137	-0.53844 0.0001 137	-0.74082 0.0001 137	-0.80290 0.0001 137	-0.81272 0.0001 137	-0.75043 0.0001 137	-0.6[illegible]5 0.0001 137	-0.78881 0.0001 137	-0.87199 0.0001 137	-0.16577 0.0529 137
IBLWR	-0.03877 0.6516 138	0.71134 0.0001 138	0.82659 0.0001 138	0.74913 0.0001 138	0.11365 0.1844 138	0.59081 0.0001 138	0.78374 0.0001 138	0.71164 0.0001 138	0.68840 0.0001 138	0.56156 0.0001 138	0.78886 0.0001 138	0.44217 0.0001 138	0.06798 0.4280 138
OBLWR	-0.02651 0.7576 138	0.23162 0.0063 138	0.26105 0.0020 138	0.29401 0.0005 138	-0.09568 0.2645 138	-0.15993 0.0610 138	0.24184 0.0043 138	0.22052 0.0093 138	0.22662 0.0085 138	0.16853 0.0482 138	0.24773 0.0034 138	0.11997 0.1610 138	-0.03715 0.6653 138
INVLWR	-0.12657 0.1391 138	-0.11204 0.1908 138	-0.18313 0.0316 138	-0.32015 0.0001 138	-0.27815 0.0010 138	-0.35617 0.0001 138	-0.18035 0.0343 138	-0.46629 0.0001 138	-0.16642 0.0511 138	-0.13993 0.1016 138	-0.38918 0.0001 138	0.03407 0.6918 138	-0.[illegible] 0.4[illegible] 138
CRLLWR	-0.12867 0.1326 138	0.42993 0.0001 138	0.01204 0.0001 138	0.44190 0.0001 138	0.19886 0.0194 138	0.39597 0.0001 138	0.40229 0.0001 138	0.31786 0.0001 138	0.58840 0.0001 138	0.38689 0.0001 138	0.36893 0.0001 138	0.64997 0.0001 138	-0.35815 0.0001 138



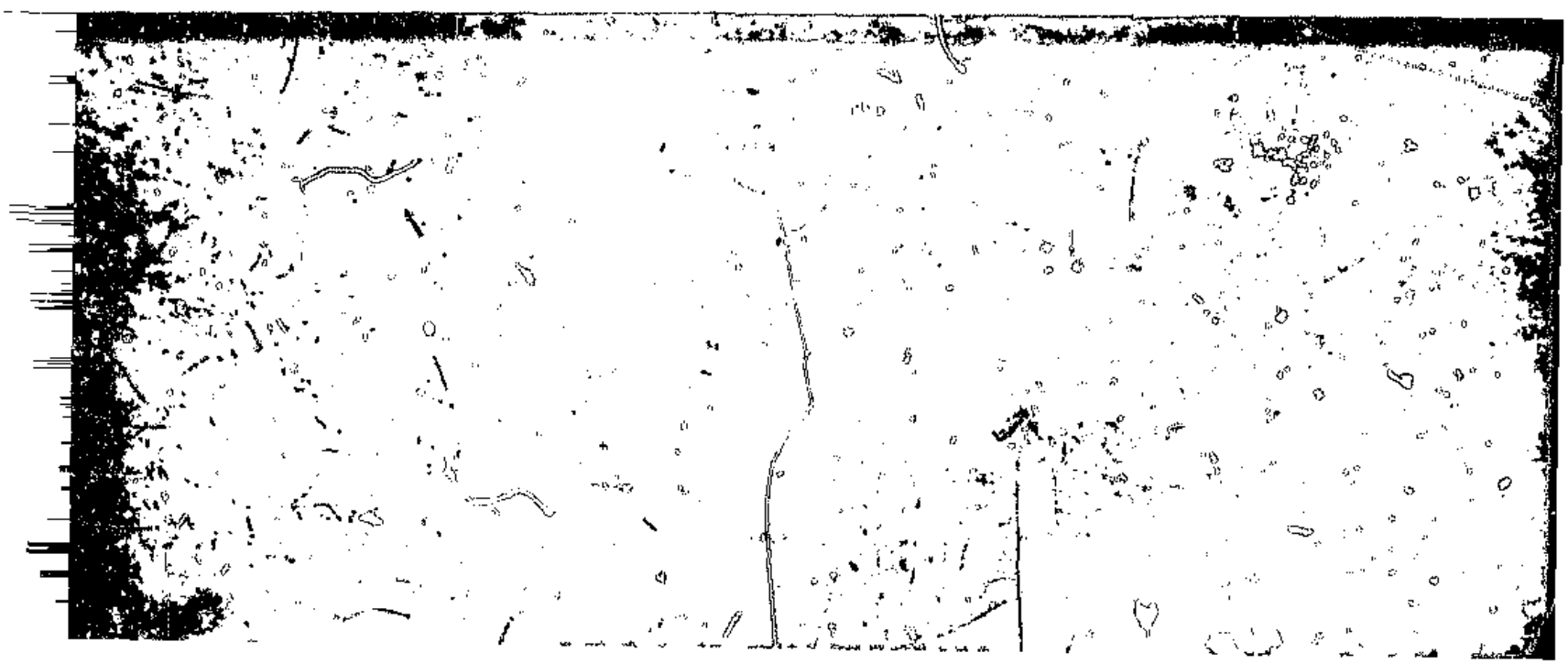
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLLN	CORLWD
CORLWR	-0.11170 0.1921 138	0.25826 0.0039 138	0.19842 0.0197 138	0.24488 0.0038 138	-0.06759 0.4309 138	0.23227 0.0001 138	0.20708 0.0148 138	0.12344 0.1492 138	0.32478 0.0001 138	0.06529 0.4468 138	0.21826 0.0101 138	0.40436 0.0001 138	-0.15928 0.0620 138
CORLMWR	-0.06823 0.4828 138	0.58569 0.0001 138	0.49920 0.0001 138	0.58021 0.0001 138	0.21812 0.0049 138	0.51388 0.0001 138	0.52215 0.0001 138	0.44168 0.0001 138	0.24175 0.0041 138	0.39893 0.0001 138	0.50106 0.0001 138	0.80386 0.0001 138	-0.11277 0.1879 138
STLLBR	0.07473 0.3897 138	0.45085 0.0774 138	0.33607 0.0001 138	0.34739 0.0001 138	0.02586 0.7633 138	0.29865 0.0005 138	0.32598 0.0001 138	0.36841 0.0001 138	0.22517 0.0079 138	0.21941 0.0097 138	0.29886 0.0001 138	0.09417 0.2720 138	-0.09896 0.2482 138
TFLPLR	0.00220 0.9795 138	-0.76103 0.0001 138	-0.81925 0.0001 138	-0.80476 0.0001 138	-0.58769 0.0001 138	-0.76091 0.0001 138	-0.80403 0.0001 138	-0.78893 0.0001 138	-0.71399 0.0001 138	-0.67543 0.0001 138	-0.74210 0.0001 138	-0.43117 0.0001 138	-0.16154 0.0584 138
INFLWR	-0.60144 0.2861 138	-0.25383 0.0027 138	-0.31660 0.0002 138	-0.43727 0.0001 138	-0.26993 0.0014 138	-0.47849 0.0001 138	-0.33849 0.0001 138	-0.46579 0.0001 138	-0.30170 0.0003 138	-0.24515 0.0038 138	-0.44698 0.0001 138	-0.11012 0.1985 138	-0.07707 0.3689 138
LRNFHR	-0.01907 0.8250 137	0.75844 0.0001 137	0.80390 0.0001 137	0.79994 0.0001 137	0.52763 0.0001 137	0.70898 0.0001 137	0.81879 0.0001 137	0.77683 0.0001 137	0.70151 0.0001 137	0.63008 0.0001 137	0.76176 0.0001 137	0.63260 0.0001 137	0.12423 0.1481 137
ALFMLR	0.03679 0.6684 138	-0.83513 0.0001 138	-0.28746 0.0034 138	-0.32887 0.0001 138	-0.09153 0.2857 138	-0.31466 0.0002 138	-0.28826 0.0039 138	-0.84178 0.0043 138	-0.29378 0.0005 138	-0.14245 0.0956 138	-0.28696 0.0051 138	-0.40353 0.0001 138	-0.25565 0.0025 138
LGPFGLR	-0.05210 0.5439 138	0.26357 0.0018 138	0.27514 0.0011 138	0.28806 0.0008 138	0.08410 0.3268 138	0.84360 0.0040 138	0.29821 0.0004 138	0.06833 0.0015 138	0.19389 0.0233 138	0.07922 0.3557 138	0.88764 0.0006 138	0.06557 0.4448 138	-0.00815 0.9244 138

	CORTWD	LGTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	ANXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
RACMLEN	-0.16301 0.0570 137	-0.05217 0.5449 137	0.02510 0.7709 137	-0.00616 0.9430 137	-0.04233 0.6233 137	-0.04517 0.6002 137	-0.11558 0.1787 137	-0.05995 0.4830 137	-0.05190 0.5470 137	0.02404 0.7803 137	0.00354 0.9672 137	-0.07785 0.3659 137	-0.06710 0.4360 137
INTNDLN	0.02589 0.7639 137	0.10386 0.2271 137	0.13872 0.1060 137	0.13715 0.1100 137	0.12271 0.1531 137	0.09180 0.2860 137	0.12537 0.1444 137	0.03483 0.6862 137	0.09812 0.2840 137	0.24161 0.0045 137	-0.10946 0.2029 137	0.09351 0.2771 137	0.10459 0.2239 137
LNWDRL	-0.22604 0.0071 138	-0.17889 0.0358 138	-0.12972 0.1294 138	-0.21585 0.0110 138	-0.01698 0.8106 138	-0.17307 0.0424 138	-0.20676 0.0190 138	-0.20954 0.0136 138	-0.30919 0.0269 138	-0.18040 0.0342 138	0.10378 0.2261 138	-0.19851 0.0196 138	-0.19305 0.0233 138
MXLNL	-0.28918 0.0006 138	-0.26918 0.0024 138	-0.26964 0.0014 138	-0.32717 0.0001 138	-0.31803 0.0001 138	-0.24528 0.0036 138	-0.26940 0.0014 138	-0.20753 0.0146 138	-0.24211 0.0042 138	-0.06894 0.4217 138	-0.07497 0.3822 138	-0.28388 0.0007 138	-0.21064 0.0131 138
MXWDL	-0.08908 0.2992 138	-0.10433 0.2233 138	-0.16474 0.0535 138	-0.13838 0.1055 138	-0.13296 0.1200 138	-0.09223 0.2820 138	-0.07918 0.3561 138	-0.02089 0.8079 138	-0.07575 0.3772 138	0.11659 0.1733 138	-0.15783 0.0645 138	-0.10806 0.2071 138	-0.04433 0.6057 138

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLEN	FMXLN	AMXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
APXAN	0.03758 0.6617 138	0.03865 0.3012 138	0.13398 0.1172 138	0.11447 0.1813 138	0.09034 0.2920 138	0.09886 0.2486 138	0.12401 0.1473 138	0.10850 0.2052 138	0.09831 0.2465 138	0.02102 0.8067 138	0.00941 0.9128 138	0.09665 0.2595 138	-0.02056 0.8108 138
APXPS	0.09330 0.2764 138	0.10140 0.2367 138	0.10942 0.2014 138	0.04348 0.6126 138	0.12393 0.1476 138	0.07709 0.3688 138	0.01805 0.8336 138	0.08630 0.3142 138	0.07466 0.3841 138	0.05495 0.5221 138	0.02990 0.7278 138	0.10345 0.2273 138	0.10378 0.2261 138
BSAN	0.22758 0.0073 138	0.11707 0.1715 138	0.15170 0.0757 138	0.22385 0.0083 138	0.20257 0.0172 138	0.13044 0.1273 138	0.11572 0.1765 138	0.20194 0.0175 138	0.12925 0.1308 138	0.07333 0.3927 138	0.08898 0.2998 138	0.13884 0.1095 138	0.27042 0.0013 138
BSPS	0.11898 0.1646 138	0.14670 0.0860 138	0.18190 0.0327 138	0.22812 0.0071 138	0.19288 0.0234 138	0.14881 0.0815 138	0.07484 0.3830 138	0.24284 0.0041 138	0.15223 0.0747 138	-0.03482 0.6851 138	0.03985 0.6426 138	0.15742 0.0652 138	0.17635 0.0385 138
SVINS	-0.08712 0.3096 138	-0.09942 0.2460 138	-0.21308 0.0121 138	-0.10201 0.2338 138	-0.09077 0.2897 138	-0.11143 0.1932 138	-0.15531 0.0689 138	-0.02263 0.7918 138	-0.11596 0.1756 138	0.02643 0.7583 138	-0.01727 0.8407 138	-0.10452 0.2224 138	-0.11078 0.1958 138
NSECV	-0.06531 0.4466 138	-0.09904 0.2478 138	-0.21842 0.0108 138	-0.08446 0.3659 138	-0.13442 0.1160 138	-0.05543 0.5185 138	-0.15758 0.0649 138	0.03577 0.6770 138	-0.05204 0.5444 138	-0.03373 0.6945 138	-0.03127 0.7153 138	-0.08839 0.3026 138	-0.00621 0.9423 138
PINSV	-0.18622 0.0288 138	-0.24954 0.0032 138	-0.27563 0.0011 138	-0.30059 0.0003 138	-0.32195 0.0001 138	-0.26207 0.0019 138	-0.23732 0.0051 138	-0.33008 0.0001 138	-0.25989 0.0021 138	0.01620 0.8504 138	-0.06521 0.4473 138	-0.28997 0.0006 138	-0.21172 0.0127 138
PTLLN	0.19965 0.0189 138	0.16393 0.0588 138	0.16573 0.0521 138	0.20366 0.0166 138	0.19451 0.0223 138	0.18305 0.0316 138	0.16670 0.0507 138	0.18491 0.0299 138	0.19728 0.0204 138	0.07747 0.3664 138	-0.12072 0.1584 138	0.20438 0.0162 138	0.28926 0.0006 138
INTLN	0.13077 0.1263 138	-0.00142 0.9868 138	0.09332 0.2763 138	0.07690 0.3700 138	0.04424 0.6064 138	0.07723 0.3679 138	0.03979 0.6431 138	0.11555 0.1772 138	0.05460 0.5247 138	0.05113 0.5515 138	0.28188 0.0089 138	0.01650 0.8476 138	0.13536 0.1134 138
NBR	0.58856 0.0001 138	0.73527 0.0001 138	0.60549 0.0001 138	0.83924 0.0001 138	0.83013 0.0001 138	0.72884 0.0001 138	0.84517 0.0001 138	0.68393 0.0001 138	0.74141 0.0001 138	0.41830 0.0001 138	0.03681 0.6682 138	0.79374 0.0001 138	0.58034 0.0001 138
IBRL	0.66995 0.0001 138	0.75914 0.0001 138	0.72797 0.0001 138	0.89822 0.0001 138	0.90810 0.0001 138	0.78216 0.0001 138	0.80209 0.0001 138	0.74528 0.0001 138	0.77091 0.0001 138	0.25346 0.0027 138	0.29897 0.0004 138	0.81895 0.0001 138	0.66980 0.0001 138
OBRL	0.64213 0.0001 138	0.73954 0.0001 138	0.78482 0.0001 138	0.84437 0.0001 138	0.84754 0.0001 138	0.74367 0.0001 138	0.63908 0.0001 138	0.69966 0.0001 138	0.74261 0.0001 138	0.21521 0.0112 138	0.22615 0.0077 138	0.79126 0.0001 138	0.61124 0.0001 138
IBRW	0.68249 0.0001 138	0.86914 0.0001 138	0.47694 0.0001 138	0.62119 0.0001 138	0.61159 0.0001 138	0.51461 0.0001 138	0.36650 0.0001 138	0.50118 0.0001 138	0.48989 0.0001 138	0.40758 0.0001 138	0.24488 0.0038 138	0.53531 0.0001 138	0.64617 0.0001 138



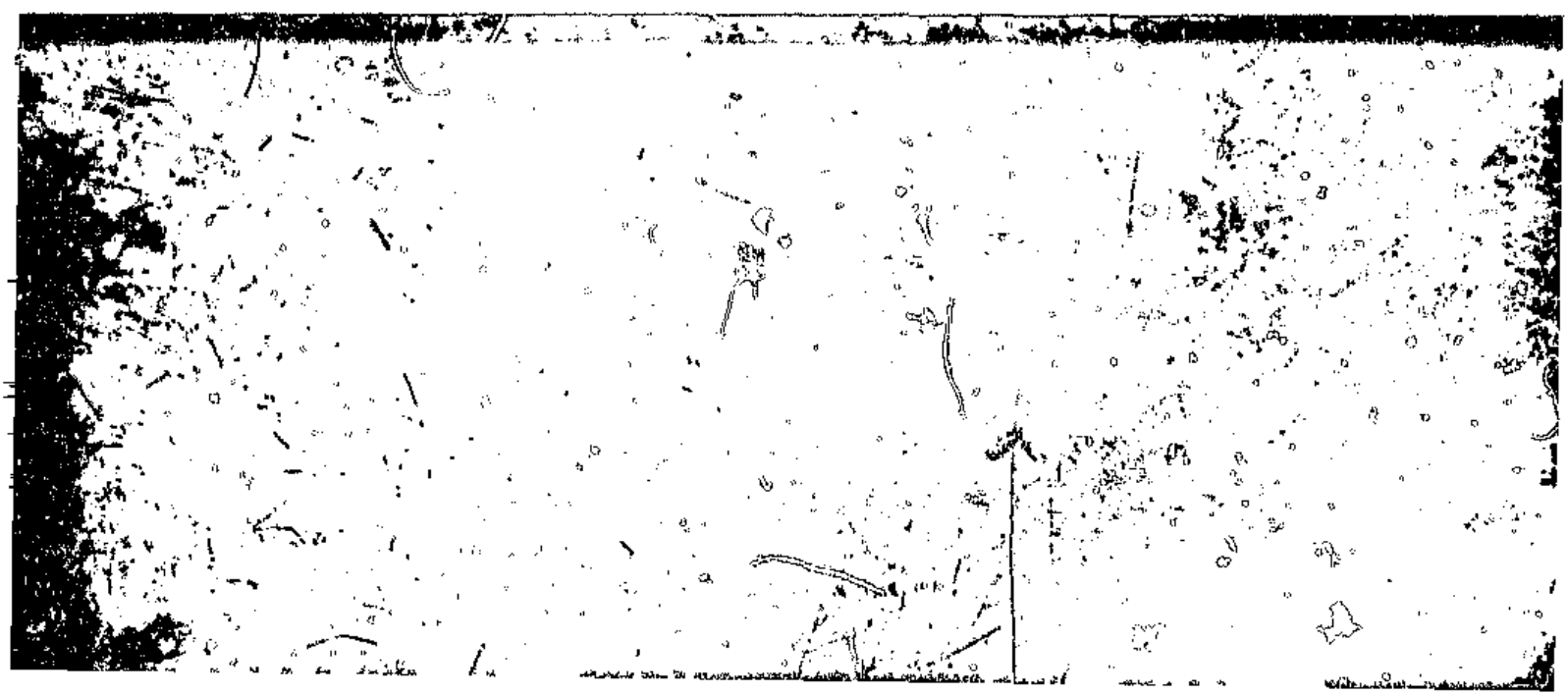
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
OBRW	0.57057 0.0001 138	0.67245 0.0001 138	0.73954 0.0001 138	0.75841 0.0001 138	0.78076 0.0001 138	0.67530 0.0001 138	0.60055 0.0001 138	0.61579 0.0001 138	0.67869 0.0001 138	0.35991 0.0021 138	0.19608 0.0675 138	0.72611 0.0001 138	0.56096 0.0001 138
INMXL	0.67598 0.0001 138	0.77586 0.0001 138	0.77856 0.0001 138	0.94202 0.0001 138	0.88752 0.0001 138	0.78550 0.0001 138	0.61593 0.0001 138	0.75188 0.0001 138	0.78170 0.0001 138	0.27579 0.0011 138	0.22009 0.0095 138	0.82711 0.0001 138	0.66773 0.0001 138
INMXW	0.68086 0.0001 138	0.68731 0.0001 138	0.88303 0.0001 138	0.86323 0.0001 138	0.81260 0.0001 138	0.70671 0.0001 138	0.76477 0.0001 138	0.68886 0.0001 138	0.69988 0.0001 138	0.20410 0.0163 138	0.28053 0.0005 138	0.73933 0.0001 138	0.66646 0.0001 138
PMXL	0.60741 0.0001 138	0.70690 0.0001 138	0.74280 0.0001 138	0.68093 0.0001 138	0.80963 0.0001 138	0.78093 0.0001 138	0.64219 0.0001 138	0.71296 0.0001 138	0.75411 0.0001 138	0.33883 0.0001 138	0.86931 0.4192 138	0.78200 0.0001 138	0.60861 0.0001 138
LBRP	0.60220 0.0001 138	0.56593 0.0001 138	0.63136 0.0001 138	0.71614 0.0001 138	0.72118 0.0001 138	0.62073 0.0001 138	0.51387 0.0001 138	0.85646 0.0001 138	0.62265 0.0001 138	0.37286 0.0018 138	0.18736 0.2101 138	0.65407 0.0001 138	0.63205 0.0001 138
NFLOR	0.56850 0.0001 138	0.55898 0.0001 138	0.61090 0.0001 138	0.82166 0.0001 138	0.78769 0.0001 138	0.65846 0.0001 138	0.53587 0.0001 138	0.65239 0.0001 138	0.65382 0.0001 138	0.13380 0.1177 138	0.21108 0.0130 138	0.69729 0.0001 138	0.51653 0.0001 138
CORLLN	0.47736 0.0001 138	0.67472 0.0001 138	0.63448 0.0001 138	0.61981 0.0001 138	0.69029 0.0001 138	0.72566 0.0001 138	0.72711 0.0001 138	0.72733 0.0001 138	0.74681 0.0001 138	0.36673 0.0001 138	-0.01201 0.8888 138	0.78909 0.0001 138	0.43252 0.0001 138
CORLWD	0.38103 0.0001 138	0.14425 0.0914 138	0.17342 0.0419 138	0.19711 0.0205 138	0.17134 0.0445 138	0.15647 0.0668 138	0.25251 0.0028 138	0.11178 0.1918 138	0.17277 0.0427 138	0.28321 0.0008 138	-0.28332 0.0168 138	0.19170 0.0243 138	0.36967 0.0001 138
CORTWD	1.00000 0.0000 138	0.44240 0.0001 138	0.48941 0.0001 138	0.60126 0.0001 138	0.56815 0.0001 138	0.47147 0.0001 138	0.44492 0.0001 138	0.53482 0.0001 138	0.46397 0.0001 138	0.13435 0.1162 138	0.21817 0.0102 138	0.53615 0.0001 138	0.66496 0.0001 138
LCTPFA	0.44240 0.0001 138	1.00000 0.0000 138	0.76913 0.0001 138	0.86344 0.0001 138	0.87729 0.0001 138	0.92631 0.0001 138	0.73696 0.0001 138	0.75694 0.0001 138	0.93264 0.0001 138	0.21647 0.0108 138	0.18509 0.0298 138	0.95667 0.0001 138	0.34934 0.0001 138
INFW	0.48941 0.0001 138	0.76913 0.0001 138	1.00000 0.0000 138	0.82724 0.0001 138	0.79436 0.0001 138	0.79246 0.0001 138	0.67833 0.0001 138	0.78404 0.0001 138	0.73377 0.0001 138	0.06880 0.4227 138	0.30237 0.0003 138	0.78962 0.0001 138	0.39959 0.0001 138
INFL	0.60126 0.0001 138	0.86344 0.0001 138	0.82724 0.0001 138	1.00000 0.0000 138	0.92112 0.0001 138	0.89998 0.0001 138	0.67883 0.0001 138	0.82962 0.0001 138	0.89938 0.0001 138	0.27086 0.0013 138	0.25600 0.0024 138	0.90358 0.0001 138	0.58657 0.0001 138
PAPMXLN	0.56815 0.0001 138	0.87729 0.0001 138	0.79436 0.0001 138	0.92112 0.0001 138	1.00000 0.0000 138	0.92284 0.0001 138	0.74831 0.0001 138	0.85568 0.0001 138	0.92067 0.0001 138	0.35560 0.0001 138	0.23079 0.0065 138	0.94373 0.0001 138	0.57770 0.0001 138



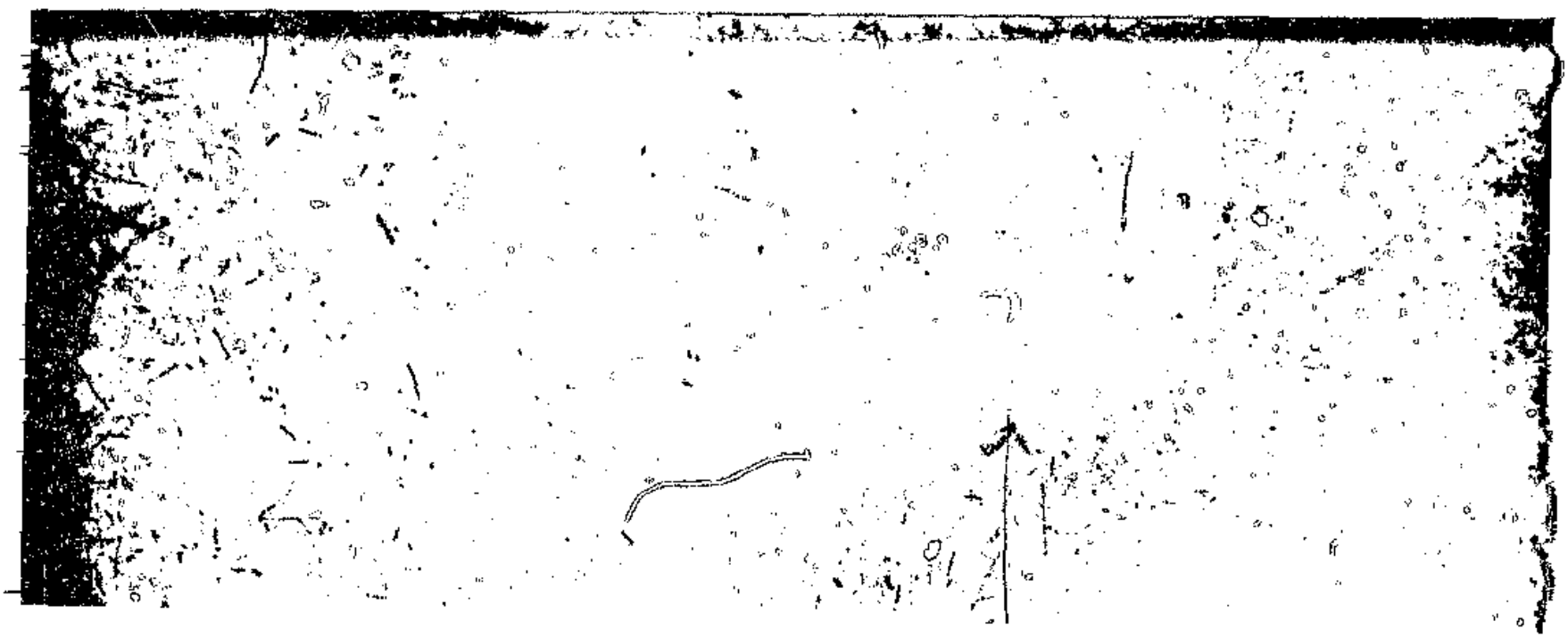
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CORTWD	LCTPFA	INFW	INFL	PAFMXLN	TFLLN	FMXLN	AMXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
TFLLN	0.47147 0.0001 138	0.92631 0.0001 138	0.79246 0.0001 138	0.89998 0.0001 138	0.92284 0.0001 138	1.00000 0.0000 138	0.79505 0.0001 138	0.76594 0.0001 138	0.39470 0.0001 138	0.28101 0.0008 138	0.28000 0.0008 138	0.96313 0.0001 138	0.43346 0.0001 138
FMXLN	0.44492 0.0001 138	0.73696 0.0001 138	0.67033 0.0001 138	0.87863 0.0001 138	0.74631 0.0001 138	0.79505 0.0001 138	1.00000 0.0000 138	0.64597 0.0001 138	0.81233 0.0001 138	0.26644 0.0016 138	0.05727 0.5046 138	0.80757 0.0001 138	0.36865 0.0001 138
AMXLN	0.53402 0.0001 138	0.75694 0.0001 138	0.72404 0.0001 138	0.82962 0.0001 138	0.85568 0.0001 138	0.86594 0.0001 138	0.64597 0.0001 138	1.00000 0.0000 138	0.86184 0.0001 138	0.28829 0.0006 138	0.24684 0.0065 138	0.85402 0.0001 138	0.51046 0.0001 138
STMXLN	0.46397 0.0001 138	0.93264 0.0001 138	0.78377 0.0001 138	0.89514 0.0001 138	0.92067 0.0001 138	0.89470 0.0001 138	0.81233 0.0001 138	0.86184 0.0001 138	1.00000 0.0000 138	0.29962 0.0004 138	0.20013 0.0186 138	0.96907 0.0001 138	0.43230 0.0001 138
STMXLOL	0.15435 0.1162 138	0.21647 0.0108 138	0.06880 0.4227 138	0.27066 0.0013 138	0.35560 0.0001 138	0.28101 0.0008 138	0.26644 0.0016 138	0.28679 0.0006 138	0.29962 0.0004 138	1.00000 0.0000 138	-0.23345 0.0059 138	0.32032 0.0001 138	0.30817 0.0002 138
VACMXLN	0.21817 0.0102 138	0.18989 0.0888 138	0.30237 0.0003 138	0.25600 0.0024 138	0.23079 0.0065 138	0.29000 0.0006 138	0.05727 0.5046 138	0.24684 0.0035 138	0.20013 0.0186 138	-0.23345 0.0059 138	1.00000 0.0000 138	0.17946 0.0352 138	0.12639 0.1396 138
CRMXLN	0.53615 0.0001 138	0.95667 0.0001 138	0.78962 0.0001 138	0.99888 0.0001 138	0.94373 0.0001 138	0.96313 0.0001 138	0.80757 0.0001 138	0.85422 0.0001 138	0.96907 0.0001 138	0.32032 0.0001 138	0.17946 0.0352 138	1.00000 0.0000 138	0.48041 0.0001 138
CRMXWD	0.86496 0.0001 138	0.34934 0.0001 138	0.39959 0.0001 138	0.58657 0.0001 138	0.57770 0.0001 138	0.43346 0.0001 138	0.36865 0.0001 138	0.51046 0.0001 138	0.43230 0.0001 138	0.30817 0.0002 138	0.12639 0.1396 138	0.48041 0.0001 138	1.00000 0.0000 138
CRMKWD	0.84780 0.0001 138	0.05961 0.4874 138	0.08717 0.3093 138	0.23380 0.0056 138	0.20394 0.0164 138	0.08451 0.3244 138	0.00605 0.9439 138	0.18366 0.0311 138	0.08093 0.3454 138	0.29867 0.0004 138	0.03201 0.7094 138	0.14597 0.0876 138	0.58953 0.0001 138
VANGS	-0.11080 0.1958 138	-0.00090 0.9916 138	-0.01173 0.2542 138	-0.01431 0.8677 138	-0.05474 0.5237 138	-0.30462 0.9571 138	-0.03555 0.6789 138	-0.03660 0.6793 138	-0.00051 0.9952 138	0.48589 0.0008 138	-0.06496 0.4491 138	-0.01340 0.8761 138	-0.11521 0.1784 138
VANGB	0.22354 0.0084 138	0.26400 0.0007 138	0.17949 0.0352 138	0.26681 0.0005 138	0.29918 0.0004 138	0.27640 0.0010 138	0.30872 0.0002 138	0.30460 0.0003 138	0.30529 0.0003 138	0.20203 0.0175 138	-0.20462 0.0161 138	0.33473 0.0001 138	0.17861 0.0361 138
SHTNL	-0.19250 0.6237 138	-0.15811 0.0640 138	-0.10007 0.2429 138	-0.13779 0.1070 138	-0.15720 0.0656 138	-0.16389 0.0548 138	-0.20418 0.0163 138	-0.16732 0.0498 138	-0.17610 0.0366 138	-0.20490 0.0159 138	0.08520 0.8204 138	-0.17660 0.0393 138	-0.14038 0.1005 138
NWNOFND	-0.64404 0.0001 137	-0.70097 0.0001 137	-0.79059 0.0001 137	-0.77435 0.0001 137	-0.78208 0.0001 137	-0.71043 0.0001 137	-0.64827 0.0001 137	-0.64133 0.0001 137	-0.70535 0.0001 137	-0.16492 0.0541 137	-0.26829 0.0015 137	-0.75531 0.0001 137	-0.55679 0.0001 137



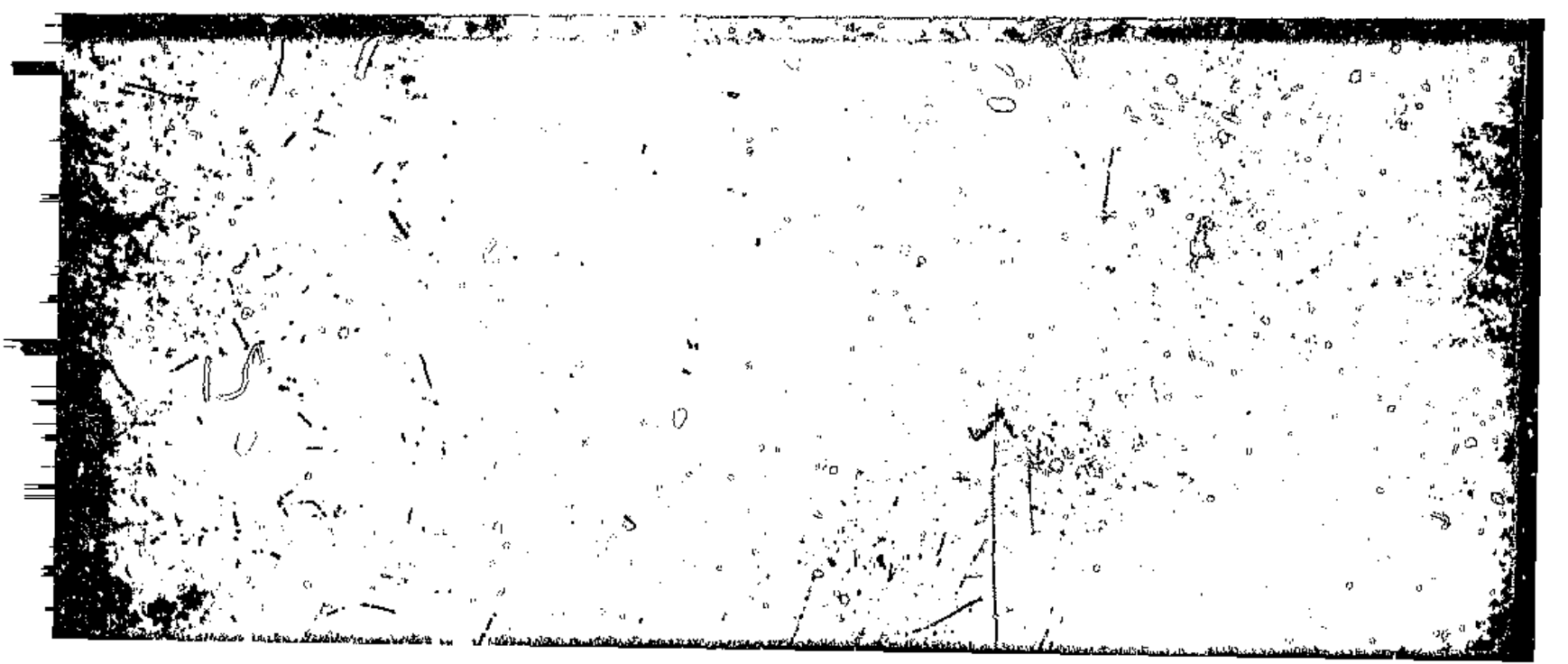
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
IBLWR	0.44372 0.0001 138	0.64479 0.0001 138	0.62216 0.0001 138	0.71398 0.0001 138	0.72434 0.0001 138	0.63611 0.0001 138	0.53001 0.0001 138	0.59239 0.0001 138	0.63440 0.0001 138	0.05357 0.5326 138	0.19837 0.0197 138	0.67593 0.0001 138	0.40065 0.0001 138
OBLWR	0.17955 0.0351 138	0.18825 0.0270 138	0.11779 0.1689 138	0.23267 0.0060 138	0.19714 0.0205 138	0.19323 0.0232 138	0.16509 0.0530 138	0.21984 0.0096 138	0.19027 0.0254 138	0.00402 0.9627 138	0.09267 0.2797 138	0.19840 0.0197 138	0.13960 0.1023 138
INVLWR	-0.19906 0.0193 138	-0.13204 0.1227 138	-0.49356 0.0001 138	-0.16653 0.0509 138	-0.17861 0.0361 138	-0.13709 0.1089 138	-0.12013 0.1605 138	-0.08824 0.3034 138	-0.10503 0.2202 138	0.14586 0.0878 138	-0.35829 0.0001 138	-0.12580 0.1415 138	-0.15886 0.0627 '8
CRLLWR	0.29814 0.0022 138	0.55086 0.0001 138	0.39762 0.0001 138	0.47233 0.0001 138	0.55838 0.0001 138	0.59014 0.0001 138	0.54105 0.0001 138	0.81263 0.0001 138	0.60186 0.0001 138	0.19430 0.0224 138	0.08478 0.3228 138	0.68959 0.0001 138	0.21840 0.0101 138
CORLWR	-0.27568 0.0011 138	0.61728 0.0001 138	0.41363 0.0001 138	0.54615 0.0001 138	0.40888 0.0001 138	0.54435 0.0001 138	0.45933 0.0001 138	0.39228 0.0001 138	0.55889 0.0001 138	0.06555 0.4449 138	0.04861 0.5713 138	0.54625 0.0001 138	-0.45188 0.0001 138
CORLMWR	0.13910 0.1037 138	0.73069 0.0001 138	0.63149 0.0001 138	0.34128 0.0001 138	0.69845 0.0001 138	0.38146 0.0001 138	0.69979 0.0001 138	0.63476 0.0001 138	0.78956 0.0001 138	0.11318 0.1863 138	0.12836 0.1335 138	0.77737 0.0001 138	0.07090 0.4086 138
STLLBR	0.19736 0.0203 138	0.48404 0.0001 138	0.50290 0.0001 138	0.89151 0.0001 138	0.31522 0.0002 138	0.39760 0.0001 138	0.23704 0.0051 138	0.33277 0.0001 138	0.37827 0.0001 138	-0.69918 0.0001 138	0.36398 0.0001 138	0.38638 0.0001 138	0.04852 0.5720 138
TFLPLR	-0.59432 0.0001 138	-0.56329 0.0001 138	-0.65226 0.0001 138	-0.69534 0.0001 138	-0.81338 0.0001 138	-0.55188 0.0001 138	-0.50257 0.0001 138	-0.56740 0.0001 138	-0.55229 0.0001 138	-0.30229 0.0003 138	-0.11850 0.1663 138	-0.64503 0.0001 138	-0.62267 0.0001 138
INFLWR	-0.20214 0.0174 138	-0.33110 0.0081 138	-0.70655 0.0001 138	-0.31846 0.0001 138	-0.35786 0.0001 138	-0.31863 0.0001 138	-0.29751 0.0004 138	-0.23615 0.0053 138	-0.29322 0.0005 138	0.13311 0.1196 138	-0.33798 0.0001 138	-0.31610 0.0002 138	-0.11752 0.1698 138
LRNFHR	0.61724 0.0001 137	0.72948 0.0001 137	0.73669 0.0001 137	0 [illegible]1678	0.73518 0.0001 137	0.34695 0.0001 137	0.64542 0.0001 137	0.30530 0.0001 137	0.74664 0.0001 137	0.31265 0.0126 137	0.22559 0.0080 137	0.78152 0.0001 137	0.55357 0.0001 137
ALFMLR	-0.17891 0.0358 138	-0.43414 0.0001 138	-0.3791 0.000 138	[illegible]	34382 .0001 138	-0.41710 0.0001 138	-0.80202 0.0001 138	-0.12155 0.1556 138	-0.48980 0.0001 138	-0.07392 0.3889 138	0.04975 0.5623 138	-0.83513 0.0001 138	-0.66700 0.0001 138
LCPFCLR	-0.02417 0.7784 138	0.66043 0.0001 138	0.42439 0.0001 138	[illegible]0001 138	0.32881 0.0001 138	0.43721 0.0001 138	0.27063 0.0013 138	0.18492 0.0299 138	0.43817 0.0001 138	-0.13723 0.1085 138	0.149[illegible]9 0.080[illegible] 136	0.42762 0.0001 138	-0.17570 0.0393 138
	CRMNWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
RACNLEN	-0.00409 0.9621 137	0.15341 0.0735 137	-0.23790 0.0051 137	0.03197 0.7108 137	0.39420 0.0001 137	-0.06824 0.4282 137	-0.09403 0.2744 137	-0.13381 0.1204 137	-0.19594 0.0688 137	-0.01864 0.8288 137	-0.07099 0.4097 137	0.01893 0.8262 137	0.35129 0.5517 137



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CRMNWD	VANOS	VANOB	SHINL	NWNOFND	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
INTNDLN	0.31536 0.8586 137	0.12536 0.1443 137	-0.07534 0.3816 137	0.03700 0.6677 137	0.04337 0.6148 137	0.34242 0.6226 137	-0.13229 0.1233 137	-0.15742 0.0505 137	-0.04583 0.5949 137	-0.00479 0.9376 137	0.05518 0.5219 137	-0.09991 0.2454 137	-0.15181 0.0766 137
LNWDRL	-0.11043 0.1972 138	-0.24367 0.0040 138	-0.31244 0.0002 138	0.61831 0.0001 138	0.22117 0.0094 137	-0.10053 0.2404 138	-0.14391 0.0922 138	0.01817 0.8325 138	-0.07331 0.3929 138	-0.03609 0.6743 138	-0.10605 0.2157 138	-0.01246 0.8847 138	0.19719 0.0204 138
MXLNL	-0.01972 0.8185 138	0.10988 0.1995 138	-0.02425 0.7777 138	0.37002 0.0001 138	0.39800 0.0001 137	-0.31388 0.0002 138	-0.27860 0.0009 138	0.10656 0.2135 138	-0.18886 0.0265 138	-0.09442 0.2706 138	-0.25786 0.0023 138	-0.14482 0.0901 138	0.34326 0.0001 138
MXWDL	0.08029 0.3492 138	0.30200 0.0001 138	0.26882 0.0017 138	-0.37048 0.0001 138	0.20371 0.0170 137	-0.24972 0.0031 138	-0.16268 0.0566 138	0.09201 0.2831 138	-0.13097 0.1257 138	-0.05807 0.4987 138	-0.16682 0.0505 138	-0.16211 0.0575 138	0.19152 0.0244 138
APXAN	-0.0477 0.5818 138	0.22271 0.0087 138	0.01302 0.8795 138	-0.32568 0.0001 138	-0.19377 0.0233 137	0.09384 0.3283 138	0.10673 0.2128 138	0.02082 0.8085 138	0.06903 0.4211 138	0.12055 0.1590 138	0.12063 0.1587 138	0.07370 0.3903 138	-0.09196 0.2834 138
APXPS	0.13917 0.1035 138	-0.13616 0.1113 138	0.01505 0.8609 138	-0.08148 0.3421 138	-0.11593 0.1773 137	0.02229 0.7953 138	0.00457 0.9576 138	-0.15990 0.0187 138	0.02013 0.8147 138	0.01451 0.8659 138	0.01021 0.9054 138	0.02146 0.8027 138	-0.13856 0.1051 138
BSAN	0.16868 0.0480 138	0.18369 0.0310 138	0.32109 0.0001 138	-0.25100 0.0030 138	-0.27288 0.0013 137	0.24701 0.0035 138	0.08874 0.3007 138	-0.12447 0.1458 138	-0.04514 0.5991 138	-0.09346 0.2756 138	0.00587 0.9455 138	0.10075 0.2397 138	-0.24148 0.0043 138
BSPS	0.10465 0.0536 138	0.05817 0.4980 138	0.29287 0.0005 138	0.26590 0.0016 138	-0.20881 0.0143 137	0.31376 0.0002 138	0.10398 0.2249 138	-0.08288 0.3339 138	0.02978 0.7288 138	0.02672 0.7557 138	0.03590 0.6759 138	0.18942 0.0261 138	-0.19010 0.0255 138
SVINS	-0.00982 0.9090 138	0.43989 0.0001 138	0.11833 0.1669 138	-0.27097 0.0013 138	0.16185 0.0588 137	-0.05396 0.5296 138	0.18797 0.0273 138	0.12679 0.1364 138	-0.14934 0.0804 138	-0.02196 0.7992 138	-0.09485 0.2688 138	-0.08906 0.3209 138	0.06320 0.4615 138
NSECV	0.13179 0.1234 138	0.28138 0.0008 138	0.14909 0.0809 138	0.23665 0.0052 138	0.24105 0.0045 137	-0.07682 0.3705 138	-0.08701 0.3102 138	0.19820 0.0198 138	-0.01326 0.8773 138	-0.08087 0.3458 138	-0.18516 0.0297 138	-0.03679 0.6684 138	0.23823 0.0049 138
PINSV	0.02430 0.7772 138	0.08970 0.2954 138	-0.02164 0.8011 138	0.09190 0.2837 138	0.26360 0.0019 137	-0.30896 0.0002 138	-0.12291 0.1509 138	0.11201 0.1909 138	-0.29465 0.0005 138	-0.08402 0.3272 138	-0.06764 0.0015 138	-0.16879 0.0478 138	0.33436 0.0001 138
PTLLN	0.15708 0.0658 138	-0.11652 0.1735 138	0.11242 0.1893 138	0.28099 0.0008 138	-0.13364 0.1195 137	0.36423 0.0017 138	-0.00970 0.9101 138	-0.04523 0.5984 138	0.08573 0.3174 138	-0.07838 0.3608 138	0.05967 0.4168 138	0.07855 0.3598 138	-0.16687 0.0504 138
INTLN	0.14853 0.0821 138	0.09454 0.2701 138	-0.06309 0.4624 138	-0.09551 0.2651 138	0.03303 0.7016 137	-0.03877 0.6516 138	-0.02651 0.7576 138	-0.12657 0.1391 138	-0.12867 0.1326 138	-0.11170 0.1921 138	-0.06023 0.4828 138	0.07473 0.3837 138	0.00220 0.9795 138

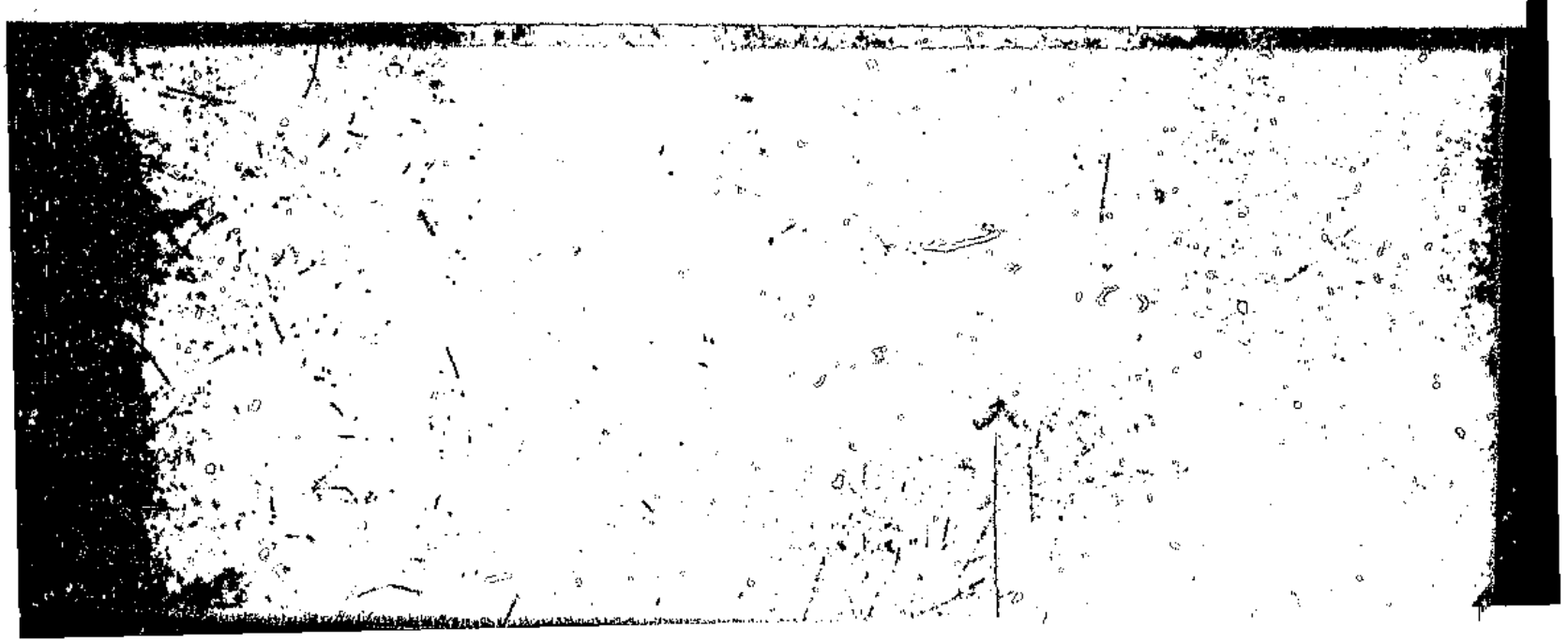


PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CRMNWD	VANGS	VANGB	SHTNL	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
NBR	0.83918 0.0001 138	-0.01546 0.8572 138	0.31156 0.0002 138	-0.22192 0.0089 138	-0.75853 0.0001 137	0.71134 0.0001 138	0.23162 0.0063 138	-0.11204 0.1908 138	0.42993 0.0001 138	0.26286 0.0019 138	0.55569 0.0001 138	0.15085 0.0774 138	-0.76183 0.0001 138
IBRL	0.34938 0.0001 138	-0.05088 0.5534 138	0.28217 0.0008 138	-0.08564 0.3179 138	-0.79686 0.0001 137	0.82659 0.0001 138	0.26105 0.0020 138	-0.16313 0.0316 138	0.41204 0.0001 138	0.19842 0.0197 138	0.49920 0.0001 138	0.33607 0.0001 138	-0.81925 0.0001 138
OBRL	0.25032 0.0031 138	-0.08026 0.3494 138	0.09116 0.0005 138	-0.09745 0.2555 138	-0.82135 0.0001 137	0.74913 0.0001 138	0.29401 0.0005 138	-0.32015 0.0001 138	0.44190 0.0001 138	0.24488 0.0038 138	0.58833 0.0001 138	0.38739 0.0001 138	-0.80476 0.0001 138
IBRW	0.38933 0.0001 138	-0.04719 0.5825 138	0.17235 0.0432 138	-0.22568 0.0078 138	-0.53844 0.0001 137	0.11365 0.1848 138	-0.09568 0.2643 138	-0.27815 0.0010 138	0.19886 0.0194 138	-0.96759 0.4309 138	0.23812 0.0049 138	0.82386 0.7633 138	-0.88769 0.0001 138
OBRW	0.22726 0.0074 138	-0.07307 0.3944 138	0.24928 0.0032 138	-0.08936 0.2973 138	-0.74082 0.0001 137	0.59001 0.0001 138	-0.15993 0.0610 138	-0.29817 0.0001 138	0.39597 0.0001 138	0.23227 0.0061 138	0.51388 0.0001 138	0.29665 0.0005 138	-0.76091 0.0001 138
INMXL	0.32480 0.0001 138	-0.03025 0.7247 138	0.30666 0.0003 138	-0.09759 0.2548 138	-0.80990 0.0001 137	0.78374 0.0001 138	0.24184 0.0043 138	-0.18035 0.0343 138	0.40229 0.0001 138	0.00708 0.0148 138	0.58885 0.0001 138	0.32898 0.0001 138	-0.80403 0.0001 138
INMXW	0.33595 0.0001 138	-0.07575 0.3772 138	0.25670 0.0030 138	-0.08303 0.3330 138	-0.81272 0.0001 137	0.71164 0.0001 138	0.22052 0.0093 138	-0.46629 0.0001 138	0.31786 0.0001 138	0.12344 0.1492 138	0.44188 0.0001 138	0.35841 0.0001 138	-0.78833 0.0001 138
PMXL	0.24124 0.0044 138	0.01035 0.9041 138	0.28230 0.0008 138	-0.23597 0.0058 138	-0.75043 0.0001 137	0.62410 0.0001 138	0.28662 0.0075 138	-0.16642 0.0511 138	0.52340 0.0001 138	0.22470 0.0081 138	0.54175 0.0001 138	0.22517 0.0079 138	-0.71399 0.0001 138
LBRP	0.25661 0.0024 138	-0.05347 0.5334 138	0.19911 0.0192 138	-0.09803 0.2527 138	-0.63125 0.0001 137	0.56156 0.0001 138	0.16853 0.0462 138	-0.13993 0.1016 138	0.36689 0.0001 138	0.06529 0.4469 138	0.39933 0.0001 138	0.01941 0.8097 138	-0.67543 0.0001 138
NFLOR	0.16437 0.0304 138	-0.10536 0.2188 138	0.02111 0.0092 138	-0.02656 0.7571 138	-0.78881 0.0001 137	0.70626 0.0001 138	0.24773 0.0034 138	-0.38918 0.0001 138	0.36623 0.0001 138	0.31826 0.0101 138	0.50106 0.0001 138	0.39846 0.0001 138	-0.74210 0.0001 138
CORLLN	0.13949 0.1027 138	-0.00908 0.9158 138	0.33842 0.0001 138	-0.21270 0.0123 138	-0.97199 0.0001 137	0.44237 0.0001 138	0.11997 0.1610 138	0.03407 0.6916 138	0.84997 0.0001 138	0.40436 0.0001 138	0.60385 0.0001 138	0.09417 0.2720 138	-0.43117 0.0001 138
CORLWD	0.45182 0.0001 138	0.06131 0.4750 138	0.18547 0.0294 138	-0.14095 0.0992 138	-0.16577 0.0529 137	0.06792 0.4286 138	-0.03715 0.6653 138	-0.06974 0.4163 138	-0.35815 0.0001 138	-0.15928 0.0620 138	-0.11277 0.1879 138	-0.09896 0.2482 138	-0.16154 0.0584 138
CORTWD	0.54780 0.0001 138	-0.11060 0.1958 138	0.22354 0.0084 138	-0.19250 0.0237 138	-0.64404 0.0001 137	0.44372 0.0001 138	0.17955 0.0351 138	-0.19906 0.0193 138	0.25814 0.0022 138	-0.27568 0.0011 138	0.13910 0.1037 138	0.19736 0.0203 138	-0.59432 0.0001 138

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	CRMNWD	VANGS	VANGB	SHINL	NWNOFHO	TRLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
LGTPFA	0.05961 0.4874 138	-0.00090 0.9916 138	0.28400 0.0007 138	-0.15811 0.0640 138	-0.70097 0.0001 137	0.69439 0.0001 138	0.18625 0.0270 138	-0.13204 0.1227 138	0.55086 0.0001 138	0.61728 0.0001 138	0.78069 0.0001 138	0.40404 0.0001 138	-0.56328 0.0001 138
INFW	0.08717 0.3093 138	-0.09773 0.2542 138	0.17949 0.0352 138	-0.10007 0.2429 138	-0.79059 0.0001 137	0.62216 0.0001 138	0.11779 0.1689 138	-0.89356 0.0001 138	0.39762 0.0001 138	0.41363 0.0001 138	0.63149 0.0001 138	0.90290 0.0001 138	-0.65226 0.0001 138
INFL	0.23380 0.0058 138	-0.01431 0.8677 138	0.28681 0.0006 138	-0.13779 0.1070 138	-0.77435 0.0001 137	0.71398 0.0001 138	0.23367 0.0060 138	-0.16653 0.0509 138	0.47233 0.0001 138	0.34615 0.0001 138	0.64128 0.0001 138	0.89151 0.0001 138	-0.69534 0.0001 138
PAPMXLN	0.20394 0.0164 138	-0.05476 0.5237 138	0.29916 0.0004 138	-0.15720 0.0656 138	-0.78208 0.0001 137	0.72434 0.0001 138	0.19714 0.0205 138	-0.17861 0.0361 138	0.55238 0.0001 138	0.40228 0.0001 138	0.69645 0.0001 138	0.31582 0.0002 138	-0.81338 0.0001 138
TFLLN	0.08451 0.3244 138	-0.00462 0.9571 138	0.27640 0.0010 138	-0.16389 0.0548 138	-0.71043 0.0001 137	0.63611 0.0001 138	0.19323 0.0232 138	-0.13709 0.1089 138	0.59014 0.0001 138	0.54435 0.0001 138	0.75146 0.0001 138	0.39760 0.0001 138	-0.55188 0.0001 138
FMXLN	0.00605 0.9439 138	-0.03555 0.6789 138	0.30872 0.0002 138	-0.20418 0.0163 138	-0.64827 0.0001 137	0.53001 0.0001 138	0.16509 0.0530 138	-0.12013 0.1605 138	0.84105 0.0001 138	0.45933 0.0001 138	0.69979 0.0001 138	0.23704 0.0051 138	-0.50257 0.0001 138
AMXLN	0.18360 0.0311 138	-0.03600 0.6751 138	0.30468 0.0001 138	-0.16732 0.0498 138	-0.64133 0.0001 137	0.59239 0.0001 138	0.21984 0.0096 138	-0.08824 0.3034 138	0.61263 0.0001 138	0.37258 0.0001 138	0.63476 0.0001 138	0.33277 0.0001 138	-0.56780 0.0001 138
STMXLN	0.08093 0.3454 138	-0.00051 0.9952 138	0.30529 0.0003 138	-0.17810 0.0366 138	-0.70535 0.0001 137	0.63440 0.0001 138	0.19027 0.0254 138	-0.10503 0.2202 138	0.60180 0.0001 138	0.55309 0.0001 138	0.78956 0.0001 138	0.37827 0.0001 138	-0.55229 0.0001 138
STMXLOL	0.29867 0.0004 138	0.07583 0.3809 138	0.20203 0.0175 138	-0.20490 0.0159 138	-0.16492 0.0541 137	0.05357 0.5326 138	0.00402 0.9627 138	0.14586 0.0878 138	0.19430 0.0224 138	0.06555 0.4449 138	0.11318 0.1863 138	-0.69918 0.0001 138	-0.30229 0.0003 138
VACMXLN	0.03201 0.7094 138	-0.06496 0.4491 138	-0.20460 0.0161 138	0.08520 0.3204 138	-0.26829 0.0015 137	0.19837 0.0197 138	0.09267 0.2797 138	-0.35825 0.0001 138	0.38478 0.7228 138	0.04861 0.5713 138	0.12836 0.1335 138	0.36398 0.0001 138	-0.11850 0.1663 138
CRMXLN	0.14597 0.0876 138	-0.01340 0.8761 138	0.33473 0.0001 138	-0.17660 0.0383 138	-0.75531 0.0001 137	0.67593 0.0001 138	0.19840 0.0197 138	-0.12580 0.1415 138	0.63759 0.0001 138	0.54625 0.0001 138	0.77737 0.0001 138	0.33638 0.0001 138	-0.64503 0.0001 138
CRMXWD	0.58953 0.0001 138	-0.11521 0.1784 138	0.17861 0.0361 138	-0.14038 0.1005 138	-0.85679 0.0001 137	0.40065 0.0001 138	0.13968 0.1023 138	-0.15886 0.0627 138	0.21840 0.0101 138	-0.45188 0.0001 138	0.07090 0.4086 138	0.04852 0.5720 138	-0.62267 0.0001 138
CRMNWD	1.00000 0.0000 138	-0.03921 0.6480 138	0.10937 0.2016 138	-0.02100 0.8068 138	-0.20914 0.0142 137	0.17639 0.0385 138	0.06929 0.4194 138	-0.04818 0.5747 138	-0.08798 0.3048 138	-0.38105 0.0001 138	-0.49012 0.0001 138	-0.16983 0.0464 138	-0.30071 0.0003 138



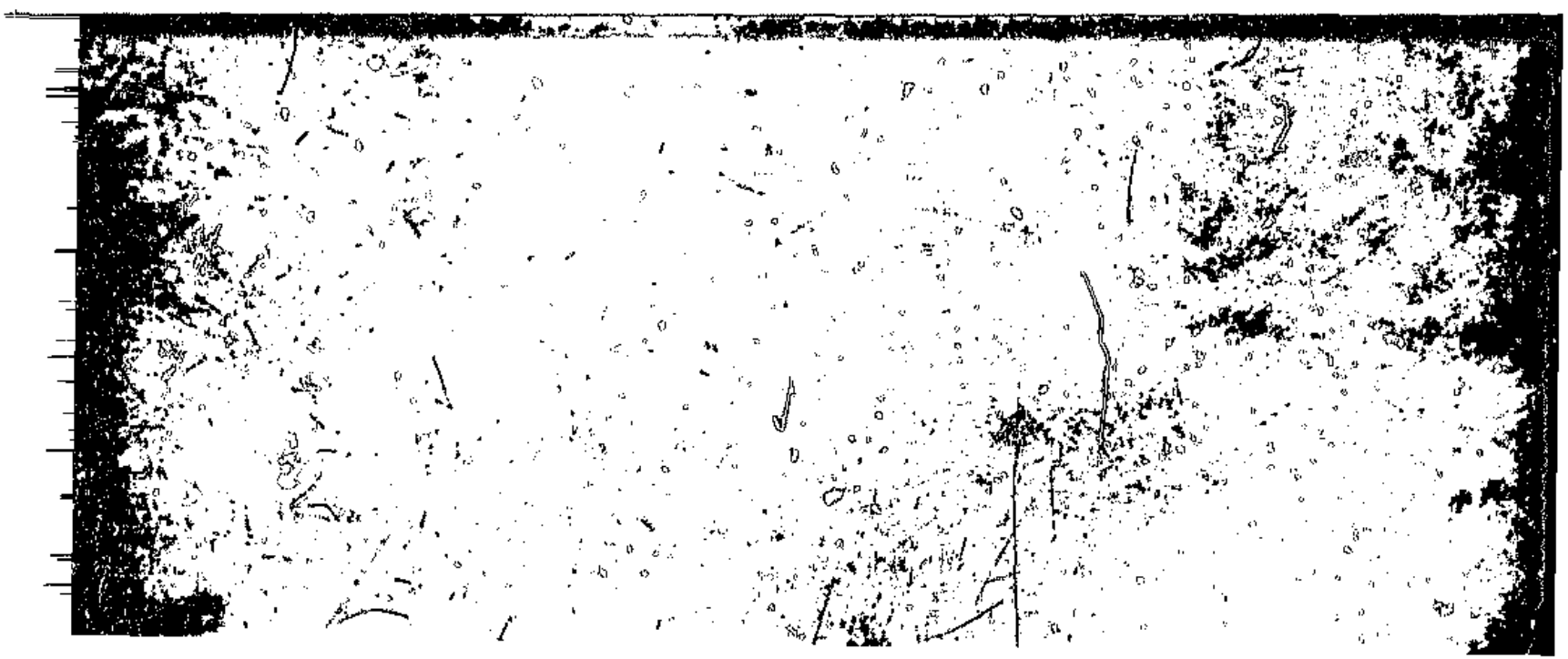
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CRMNWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
VANGS	-0.03921 0.6480 138	1.00000 0.0000 138	0.22606 0.0077 138	-0.22259 0.0087 138	0.11725 0.1724 137	-0.04045 0.6376 138	-0.00294 0.9727 138	0.06761 0.4308 138	-0.04869 0.5706 138	0.08153 0.3418 138	-0.00909 0.9157 138	-0.05862 0.4946 138	0.11981 0.1616 138
VANGB	0.10937 0.2016 138	0.22606 0.0077 138	1.00000 0.0000 138	-0.16922 0.0472 138	-0.30383 0.0003 137	0.27104 0.0013 138	0.10128 0.2372 138	0.09480 0.2687 138	0.21279 0.0122 138	0.16642 0.0511 138	0.23321 0.0059 138	-0.00602 0.9441 138	-0.24325 0.0040 138
SHINL	-0.02100 0.8068 138	-0.22259 0.0087 138	-0.16922 0.0472 138	1.00000 0.0000 138	0.11395 0.1849 137	0.03763 0.6613 138	-0.07939 0.3547 138	-0.01636 0.8489 138	-0.11455 0.1810 138	-0.05695 0.5071 138	-0.14623 0.0870 138	0.07724 0.3679 138	0.08423 0.3260 138
NWNOFHD	-0.20914 0.0142 137	0.11725 0.1724 137	-0.30383 0.0003 137	0.11395 0.1849 137	1.00000 0.0000 137	-0.67528 0.0001 137	-0.20214 0.0178 137	0.16444 0.0001 137	-0.45077 0.0001 137	-0.34871 0.0044 137	-0.52546 0.0001 137	-0.33628 0.0001 137	0.74170 0.0001 137
IBLWR	0.17639 0.0385 138	-0.04045 0.6376 138	0.27104 0.0013 138	0.03763 0.6613 138	-0.67528 0.0001 137	1.00000 0.0000 138	0.39684 0.0001 138	-0.07218 0.4002 138	0.38757 0.0001 138	0.31039 0.0002 138	0.47719 0.0001 138	0.66873 0.0001 138	-0.66875 0.0001 138
OBLWR	0.06929 0.4194 138	-0.00294 0.9727 138	0.10128 0.2372 138	-0.07939 0.3547 138	-0.20214 0.0178 137	0.39684 0.0001 138	1.00000 0.0000 138	0.13030 0.1277 138	0.12635 0.1397 138	0.06403 0.4556 138	0.12346 0.1491 138	0.07603 0.3754 138	-0.13547 0.1131 138
INVLWR	-0.04818 0.5747 138	0.06761 0.4308 138	0.09480 0.2687 138	-0.01636 0.8489 138	0.16444 0.0001 137	-0.07218 0.4002 138	0.13030 0.1277 138	1.00000 0.0000 138	0.07081 0.4092 138	0.00625 0.9420 138	-0.08740 0.3080 138	-0.30409 0.0003 138	0.30648 0.0003 138
CRLLWR	-0.08889 0.3006 138	-0.04869 0.5706 138	0.21279 0.0122 138	-0.11455 0.1810 138	-0.45077 0.0001 137	0.38757 0.0001 138	0.12635 0.1397 138	0.07081 0.4092 138	1.00000 0.0000 138	0.45523 0.0001 138	0.61560 0.0001 138	0.13511 0.1141 138	-0.32393 0.0001 138
CORLWR	-0.38105 0.0001 138	0.08153 0.3418 138	0.16642 0.0511 138	-0.05695 0.5071 138	-0.34213 0.0044 137	0.31039 0.0002 138	0.06403 0.4556 138	0.00625 0.9420 138	0.45523 0.0001 138	1.00000 0.0000 138	0.70410 0.0001 138	0.26122 0.0020 138	-0.08722 0.3091 138
CORLMWR	-0.49012 0.0001 138	-0.20909 0.0157 138	0.23321 0.0059 138	-0.14623 0.0870 138	-0.52546 0.0001 137	0.47719 0.0001 138	0.12346 0.1491 138	-0.08740 0.3080 138	0.61560 0.0001 138	0.70410 0.0001 138	1.00000 0.0000 138	0.38602 0.0001 138	-0.39175 0.0001 138
STLLBR	-0.16983 0.0464 138	-0.05862 0.4946 138	-0.00602 0.9441 138	0.07724 0.3679 138	-0.33628 0.0001 137	0.66073 0.0001 138	0.07603 0.3754 138	-0.30409 0.0003 138	0.13511 0.1141 138	0.26122 0.0020 138	0.38602 0.0001 138	1.00000 0.0000 138	-0.16059 0.0599 138
TFLPLR	-0.30071 0.0003 138	0.11981 0.1616 138	-0.24325 0.0040 138	0.08423 0.3260 138	0.74170 0.0001 137	-0.66215 0.0001 138	-0.13547 0.1131 138	0.30648 0.0003 138	-0.32393 0.0001 138	-0.08722 0.3091 138	-0.39175 0.0001 138	-0.16059 0.0599 138	1.00000 0.0000 138
INFLWR	-0.04651 0.5880 138	0.07147 0.4048 138	0.04977 0.5621 138	-0.03133 0.7153 138	0.31361 0.0001 137	-0.25972 0.0021 138	0.14075 0.0996 138	0.78865 0.0001 138	-0.05116 0.5512 138	-0.21704 0.0106 138	-0.30787 0.0002 138	-0.37704 0.0001 138	0.44038 0.0001 138

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

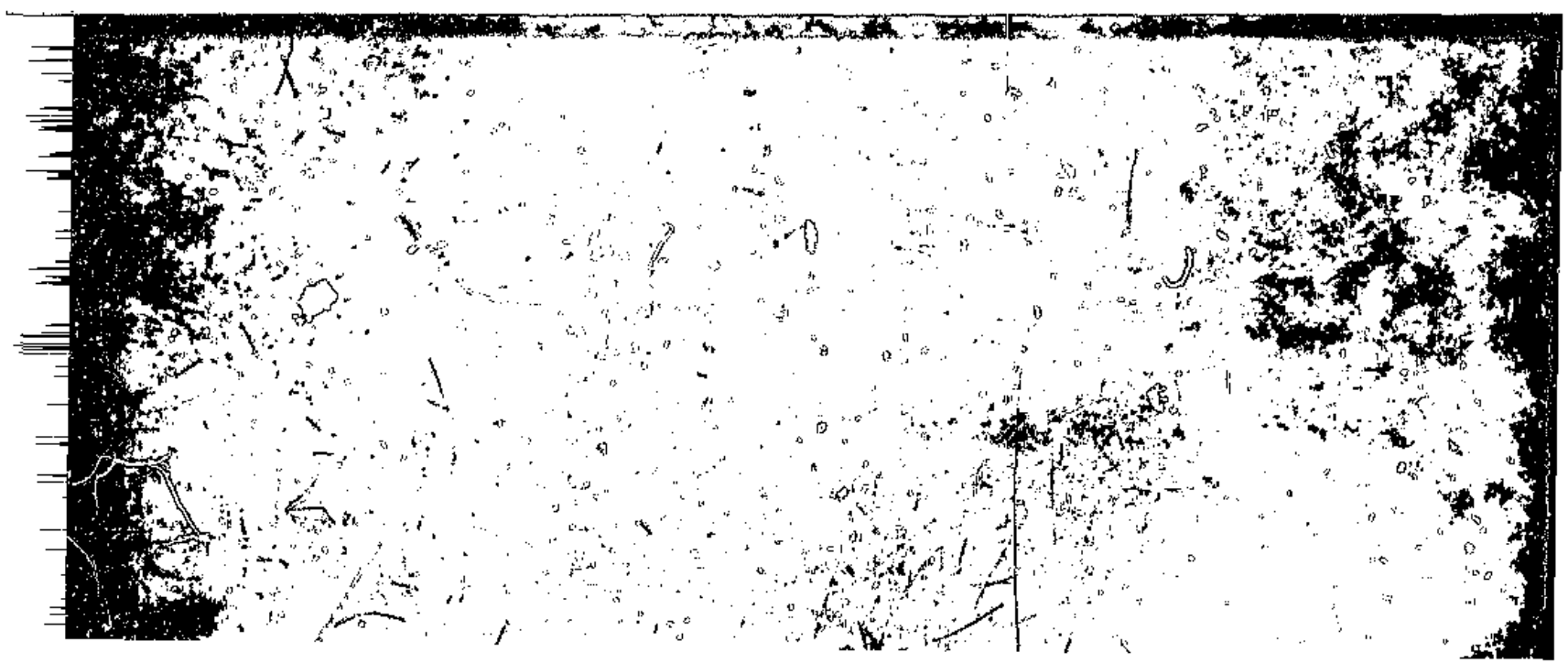
	CRNNWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
LRNFHR	0.21522 0.0115 137	-0.07308 0.3961 137	0.23545 0.0056 137	-0.07125 0.4080 137	-0.86935 0.0001 137	0.66865 0.0001 137	0.22082 0.0095 137	-0.20791 0.0148 137	0.53122 0.0001 137	0.26831 0.0015 137	0.53563 0.0001 137	0.31546 0.0002 137	-0.65055 0.0001 137
ALFMLR	0.32384 0.1479 138	0.03549 0.6794 138	-0.15031 0.0785 138	0.14807 0.0918 138	0.39254 0.0001 137	-0.28395 0.0007 138	-0.11005 0.1988 138	0.10438 0.2231 138	-0.24286 0.0041 138	-0.36443 0.0001 138	-0.44878 0.0001 138	-0.12458 0.1454 138	0.80892 0.0139 138
LCPFCLR	-0.21936 0.0097 138	0.03081 0.7198 138	0.80722 0.9330 138	-0.04795 0.5765 138	-0.29273 0.0005 137	0.29666 0.0004 138	0.09296 0.2782 138	-0.16058 0.0599 139	0.04475 0.6022 138	0.55695 0.0001 138	0.46408 0.0001 138	0.41288 0.0001 138	-0.10578 0.2169 138

	INFLWR	LRNFHR	ALFMLR	LCPFCLR
RADMLEN	-0.07433 0.3880 137	-0.12086 0.1595 137	0.17188 0.0446 137	0.00478 0.9558 137
INTNDLN	-0.14056 0.1014 137	0.10966 0.2021 137	-0.06189 0.4725 137	0.07328 0.3948 137
LNWDRL	-0.02238 0.7944 138	-0.15647 0.0679 137	0.12829 0.1368 138	-0.07324 0.3933 138
MXLNL	0.10355 0.2268 138	-0.81527 0.0002 137	0.86000 0.0021 138	-0.13129 0.1248 138
MXWDL	0.12798 0.1348 138	-0.17844 0.0370 137	0.13637 0.1107 138	-0.07275 0.3965 138
APXAN	-0.09584 0.2635 138	0.13798 0.1078 137	-0.08757 0.3071 138	0.06880 0.4226 138
APXPS	-0.17022 0.0459 138	0.05641 0.5127 137	0.02406 0.7794 138	0.05426 0.5273 138
BSAN	-0.10686 0.2122 138	0.22345 0.0087 137	0.01212 0.8878 138	0.03390 0.6931 138
BSPS	-0.12333 0.1496 138	0.20413 0.0167 137	0.07429 0.3865 138	0.06589 0.4426 138
SVINS	0.23316 0.0059 138	-0.16841 0.0492 137	0.18586 0.0291 138	-0.01998 0.8160 138



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INFLWR	LRNFHR	ALFMLR	LCPFCLR
NSECV	0.26892	-0.15199	0.27591	-0.14802
	0.0014	0.0762	0.0011	0.0832
	138	137	138	138
PINSV	0.10109	-0.25831	0.09227	-0.05301
	0.2381	0.0023	0.2817	0.5369
	138	137	138	138
PTLLN	-0.05033	0.19045	-0.03775	-0.04226
	0.5577	0.0258	0.6602	0.6226
	138	137	138	138
INTLN	-0.09144	-0.01907	0.03679	-0.05210
	0.2861	0.8250	0.6684	0.5439
	138	137	138	138
NBR	-0.25388	0.75844	-0.33513	0.26357
	0.0027	0.0001	0.0001	0.0018
	138	137	138	138
IBRL	-0.31660	0.80390	-0.24746	0.27514
	0.0002	0.0001	0.0034	0.0011
	138	137	138	138
OBRL	-0.43727	0.79994	-0.32887	0.28806
	0.0001	0.0001	0.0001	0.0006
	138	137	138	138
IBRW	-0.26993	0.52783	-0.09153	0.08410
	0.0014	0.0001	0.2857	0.3268
	138	137	138	138
OBRW	-0.47814	0.70932	-0.31466	0.24380
	0.0001	0.0001	0.0002	0.0040
	138	137	138	138
INMXL	-0.33845	0.61879	-0.25076	0.29821
	0.0001	0.0001	0.0030	0.0004
	138	137	138	138
INMXW	-0.46579	0.77883	-0.24176	0.26833
	0.0001	0.0001	0.0043	0.0015
	138	137	138	138
PMXL	-0.30170	0.78151	-0.29378	0.19309
	0.0003	0.0001	0.0005	0.0233
	138	137	138	138
LBRP	-0.24515	0.63000	-0.14245	0.07922
	0.0038	0.0001	0.0956	0.3557
	138	137	138	138



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF O. _RVATIONS

	INFLWR	LRNFHR	ALFMLR	LGPFGLR
NFLOR	-0.44698 0.0001 138	0.76176 0.0001 137	-0.23696 0.0051 138	0.28764 0.0006 138
CORLLN	-0.11012 0.1905 138	0.83260 0.0001 137	-0.40353 0.0001 138	0.06557 0.4448 138
CORLWD	-0.07707 0.3689 138	0.12423 0.1481 137	-0.25565 0.0025 138	-0.00815 0.9244 138
CORTWD	-0.20214 0.0174 138	0.61724 0.0001 137	-0.17691 0.0356 138	-0.02417 0.7784 138
LGTPFA	-0.33160 0.0001 138	0.72948 0.0001 137	-0.43414 0.0001 138	0.66043 0.0001 138
INFW	-0.70655 0.0001 138	0.73669 0.0001 137	-0.37033 0.0001 138	0.42439 0.0001 138
INFL	-0.31846 0.0001 138	0.81678 0.0001 137	-0.28757 0.0006 138	0.38324 0.0001 138
FAFMXLN	-0.35786 0.0001 138	0.78510 0.0001 137	-0.34382 0.0001 138	0.32881 0.0001 138
TFLLN	-0.31863 0.0001 138	0.74695 0.0001 137	-0.41710 0.0001 138	0.43721 0.0001 138
FMXLN	-0.29751 0.0004 138	0.63542 0.0001 137	-0.80202 0.0001 138	0.27063 0.0013 138
AMXLN	-0.23615 0.0053 138	0.70530 0.0001 137	-0.12155 0.1556 138	0.18492 0.0299 138
STMXLN	-0.29322 0.0005 138	0.74664 0.0001 137	-0.43930 0.0001 138	0.43817 0.0001 138
STMXLOL	0.13311 0.1196 138	0.21265 0.0126 137	-0.07392 0.3889 138	-0.13723 0.1085 138



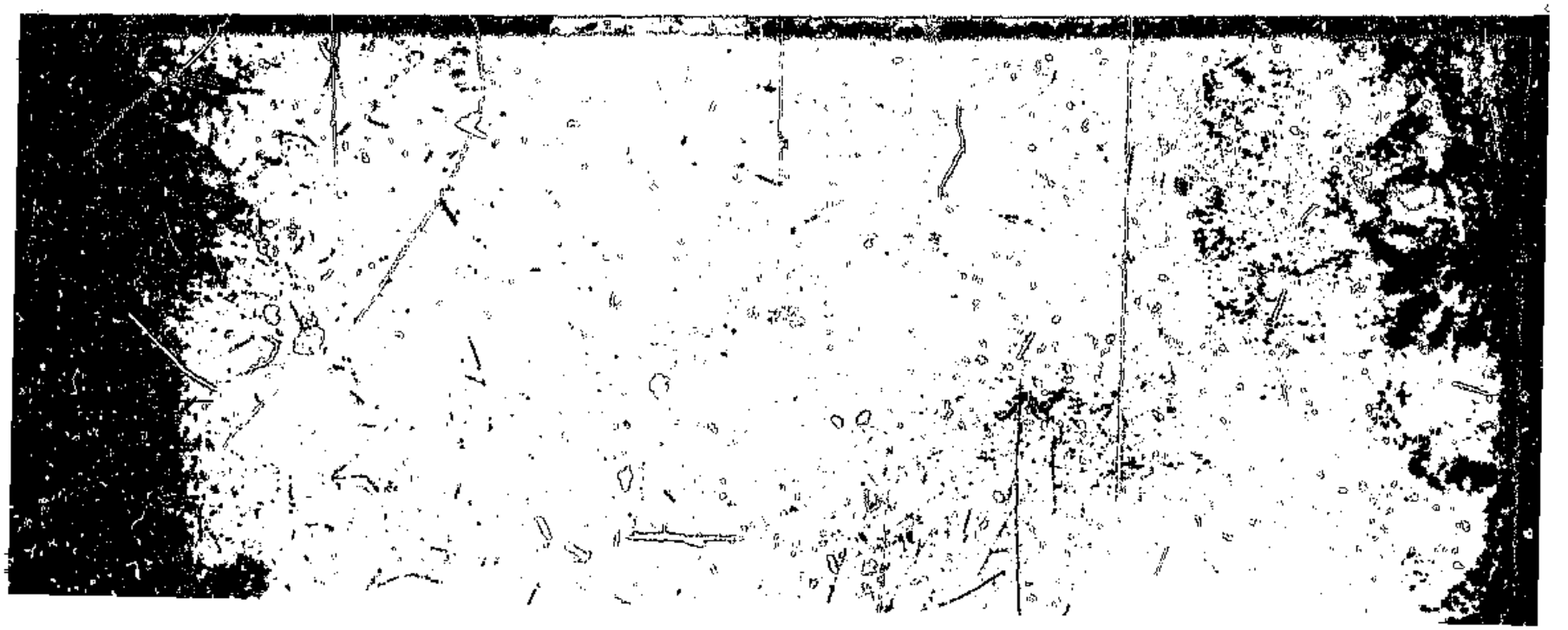
PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INFLWR	LRNFHR	ALFNLR	LOPFCLR
VACHDLN	-0.33798 0.0001 138	0.82559 0.0080 137	0.04975 0.5623 138	0.14919 0.0307 138
CRMXLN	-0.31610 0.0002 138	0.78152 0.0001 137	-0.43513 0.0001 138	0.42762 0.0001 138
CRMXWD	-0.11752 0.1698 138	0.55357 0.0001 137	-0.06700 0.4349 138	-0.17570 0.0393 138
CRMNWD	0.04651 0.5880 138	0.21522 0.0115 137	0.12384 0.1479 138	-0.21936 0.0097 138
VANGS	0.07147 0.4048 138	-0.87308 0.3961 137	0.03549 0.6794 138	0.03081 0.7198 138
VANGB	0.04977 0.5621 138	0.23545 0.0056 137	-0.15031 0.0785 138	0.00722 0.9330 138
WIML	-0.03133 0.7153 138	-0.07125 0.4080 137	0.14407 0.0918 138	-0.04795 0.5765 138
RNOFHD	0.51361 0.0001 137	-0.86935 0.0001 137	0.39254 0.0001 137	-0.29273 0.0005 137
IBLWR	-0.25972 0.0021 138	0.66865 0.0001 137	-0.28395 0.0007 138	0.29666 0.0004 138
OBLWR	0.14075 0.0996 138	0.22082 0.0095 137	-0.11005 0.1988 138	0.09296 0.2782 138
INVLWR	0.78865 0.0001 138	-0.20791 0.0148 137	0.10438 0.2231 138	-0.16058 0.0599 138
CRLLWR	-0.05116 0.5512 138	0.53122 0.0001 137	-0.24286 0.0041 138	0.04475 0.6022 138
CORLWR	-0.21704 0.0106 138	0.86831 0.0015 137	-0.56443 0.0001 138	0.55695 0.0001 138



PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INFLWR	LRNFHR	ALFMLR	LCPFCLR
CORLMNR	-0.30707 0.0002 138	0.53563 0.0001 137	-0.44673 0.0001 138	0.46406 0.0001 138
STLLBR	-0.37704 0.0001 138	0.31546 0.0002 137	-0.12458 0.1454 138	0.41288 0.0001 138
TFLPLR	0.44038 0.0001 138	-0.65055 0.0001 137	0.20892 0.0139 138	-0.10578 0.2169 138
INFLWR	1.00000 0.0000 138	-0.34051 0.0001 137	0.23083 0.0065 138	-0.30010 0.0003 138
LRNFHR	-0.34051 0.0001 137	1.00000 0.0000 137	-0.31446 0.0002 137	0.28282 0.0008 137
ALFMLR	0.23083 0.0065 138	-0.31446 0.0002 137	1.00000 0.0000 138	-0.30739 0.0002 138
LCPFCLR	-0.30010 0.0003 138	0.28282 0.0008 137	-0.30739 0.0002 138	1.00000 0.0000 138



SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

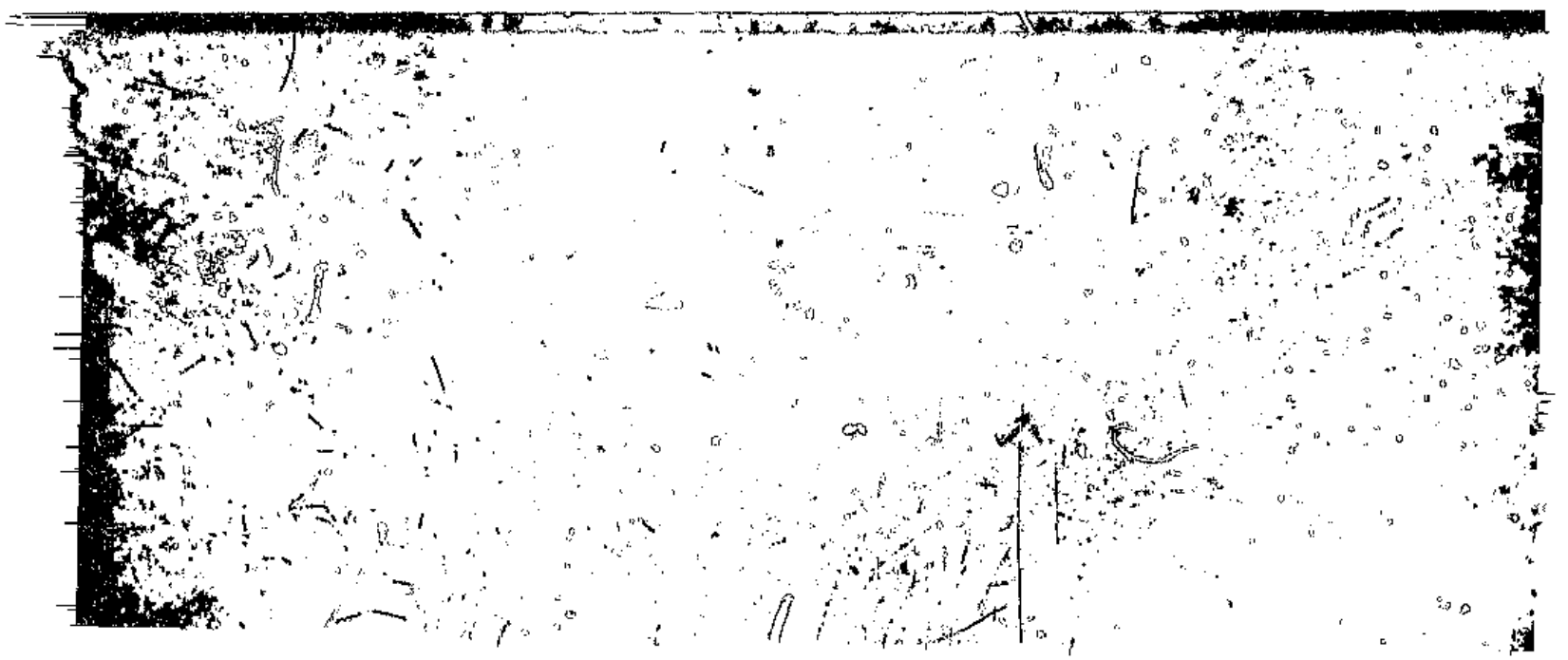
	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
RACMLEN	1.00000 0.0000 137	0.61684 0.0001 137	0.15877 0.0639 137	0.20634 0.0156 137	0.12152 0.1572 137	-0.10157 0.2376 137	-0.09506 0.2692 137	-0.09507 0.2691 137	-0.10432 0.2251 137	-0.11585 0.1776 137	0.07186 0.4040 137	-0.02629 0.7604 137	0.10354 0.2286 137
INTNDLN	0.61684 0.0001 137	1.00000 0.0000 137	0.02993 0.7285 137	0.08940 0.2989 137	-0.07680 0.3724 137	-0.02327 0.7873 137	-0.15916 0.0632 137	0.01585 0.8541 137	-0.08247 0.3380 137	-0.10074 0.2415 137	-0.06904 0.4227 137	-0.04060 0.6376 137	0.17537 0.0404 137
LNWDRL	0.15877 0.0639 137	0.02993 0.7285 137	1.00000 0.0000 138	0.43615 0.0001 138	-0.36650 0.0001 138	-0.42678 0.0001 138	0.02823 0.7424 138	-0.53220 0.0001 138	0.02635 0.7590 138	-0.36853 0.0001 138	0.23411 0.0057 138	0.07194 0.4017 138	0.30571 0.0003 138
MXLNL	0.20634 0.0156 137	0.08940 0.2989 137	0.43615 0.0001 138	1.00000 0.0000 138	0.61195 0.0001 138	-0.25429 0.0026 138	0.05636 0.5114 138	-0.13493 0.1146 138	0.08906 0.2989 138	0.04482 0.6017 138	0.37995 0.0001 138	0.28528 0.0007 138	0.35557 0.0001 138
MXWDL	0.12152 0.1572 137	0.07680 0.3724 137	-0.36650 0.0001 138	0.61195 0.0001 138	1.00000 0.0000 138	0.12780 0.1352 138	-0.04512 0.5993 138	0.30774 0.0002 138	0.08325 0.3317 138	0.36392 0.0001 138	0.40448 0.0001 138	0.02923 0.0008 138	0.12546 0.1426 138
APXAN	-0.10157 0.2376 137	-0.02327 0.7873 137	-0.42678 0.0001 138	-0.25429 0.0026 138	0.12780 0.1352 138	1.00000 0.0000 138	-0.39746 0.0001 138	0.04839 0.5730 138	-0.17606 0.0389 138	0.20284 0.0170 138	-0.10006 0.2430 138	-0.05961 0.4874 138	-0.18592 0.0290 138
APXPS	-0.09506 0.2692 137	-0.15916 0.0638 137	0.02823 0.7424 138	0.05636 0.5114 138	-0.04512 0.5993 138	-0.39746 0.0001 138	1.00000 0.0000 138	0.13036 0.1275 138	0.19678 0.0207 138	-0.02946 0.7316 138	-0.03180 0.7112 138	0.03249 0.7052 138	0.02963 0.7301 138
BSAN	-0.09507 0.2691 137	0.01585 0.8541 137	-0.53220 0.0001 138	-0.13493 0.1146 138	0.30774 0.0002 138	0.04839 0.5730 138	0.13036 0.1275 138	1.00000 0.0000 138	0.57422 0.0001 138	0.16101 0.0592 138	0.06657 0.4379 138	-0.02896 0.7360 138	-0.04685 0.5853 138
BSPS	-0.10432 0.2251 137	-0.08247 0.3380 137	0.02635 0.7590 138	0.08906 0.2989 138	0.08325 0.3317 138	-0.17606 0.0389 138	0.19678 0.0207 138	0.57422 0.0001 138	1.00000 0.0000 138	-0.00180 0.9833 138	0.24752 0.0034 138	0.01448 0.8661 138	0.16718 0.0500 138
SVINS	-0.11585 0.1776 137	-0.10074 0.2415 137	-0.36853 0.0001 138	0.04482 0.6017 138	0.36392 0.0001 138	0.20284 0.0170 138	-0.02946 0.7316 138	0.16101 0.0592 138	-0.00180 0.9833 138	1.00000 0.0000 138	0.23569 0.0053 138	-0.11960 0.1624 138	0.00150 0.9860 138
NSECV	0.07186 0.4040 137	-0.06904 0.4227 137	0.23411 0.0057 138	0.37995 0.0001 138	0.40445 0.0001 138	-0.10006 0.2430 138	-0.03180 0.7112 138	0.06657 0.4379 138	0.24752 0.0034 138	0.23569 0.0053 138	1.00000 0.0000 138	0.04476 0.6021 138	0.33472 0.0001 138
PINSV	-0.02629 0.7604 137	-0.04060 0.6376 137	0.07194 0.4017 138	0.28528 0.0007 138	0.22923 0.0068 138	-0.05961 0.4874 138	0.03249 0.7052 138	-0.02896 0.7360 138	0.01448 0.8661 138	-0.11960 0.1624 138	0.04476 0.6021 138	1.00000 0.0000 138	-0.02838 0.7411 138
PTLLN	0.10354 0.2286 137	0.17537 0.0404 137	0.30571 0.0003 138	0.35557 0.0001 138	0.12546 0.1426 138	-0.18592 0.0290 138	0.02963 0.7301 138	-0.04685 0.5853 138	0.16718 0.0500 138	0.00150 0.9860 138	0.33472 0.0001 138	-0.02838 0.7411 138	1.00000 0.0000 138

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

RACMLEN INTNDLN LNWDRL MXLNL MXWDL APXAN APXPS BSAN BSPS SVINS NSECV PINSV PTLLN

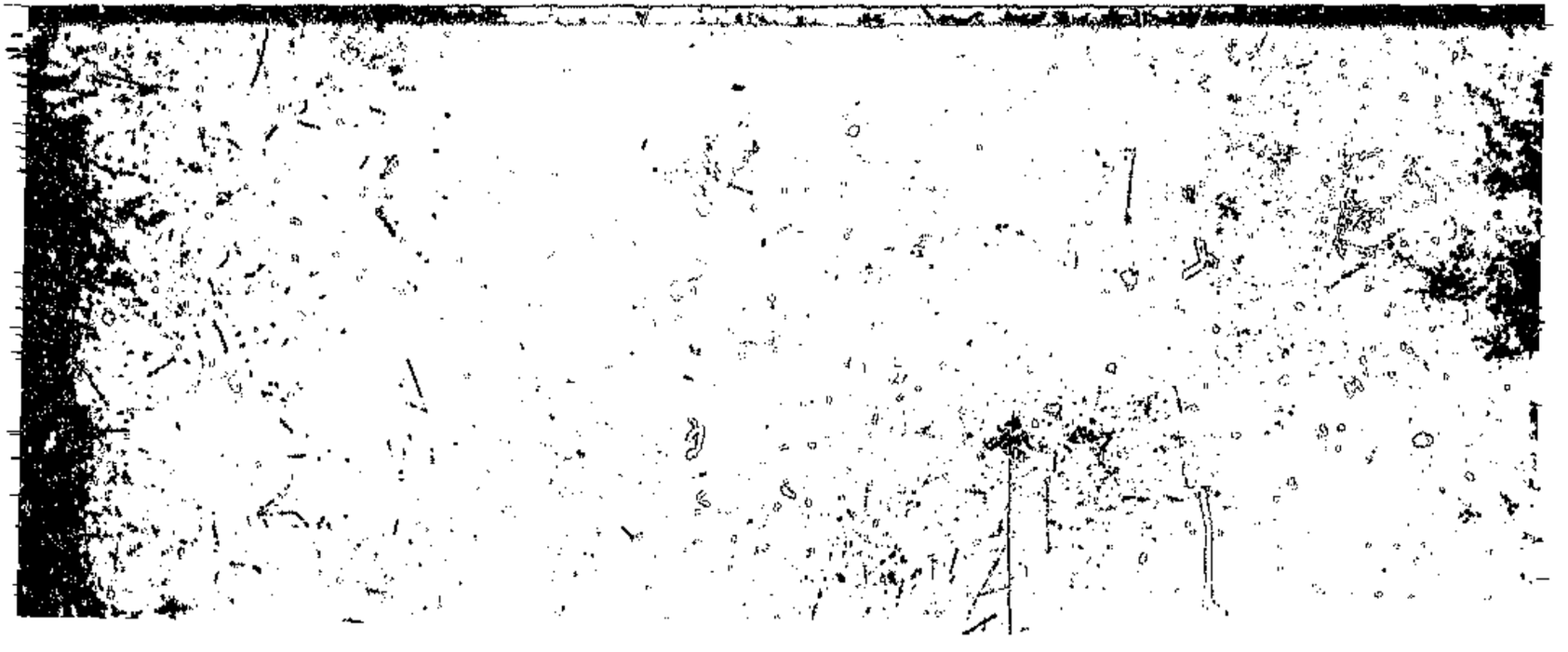


INTLN	0.20973 0.0139 137	0.10700 0.2133 137	-0.04803 0.5[illegible] 138	0.21012 0.0134 138	0.28160 0.0008 138	0.01221 0.8870 138	-0.09441 0.2707 138	0.04688 0.5851 138	-0.00147 0.9863 138	-0.05807 0.4987 138	-0.01635 0.8490 138	0.09052 0.2910 138	-0.08871 0.3008 138
NBR	-0.00074 0.9932 137	0.16155 0.0593 137	-0.23909 0.0047 138	-0.31738 0.0001 138	-0.10595 0.2162 138	0.19242 0.0238 138	0.01851 0.8294 138	0.17242 0.0431 138	0.15320 0.0728 138	0.09867 0.2496 138	-0.06770 0.4301 138	-0.32064 0.0001 138	0.23481 0.0056 138
IBRL	-0.03268 0.7046 137	0.08736 0.3100 137	-0.36862 0.0067 138	-0.31042 0.0002 138	-0.16894 0.0476 138	0.02006 0.8154 138	0.14918 0.0808 138	0.32841 0.0001 138	0.34538 0.0001 138	0.06706 0.8344 138	-0.05883 0.5005 138	-0.38736 0.0002 138	0.22200 0.0089 138
OBRL	0.00537 0.9503 137	0.17879 0.0366 137	-0.11335 0.1856 138	-0.21168 0.0127 138	-0.10219 0.2330 138	0.03625 0.6729 138	0.13458 0.1183 138	0.26546 0.0017 138	0.09696 0.0004 138	0.01213 0.8877 138	-0.26674 0.4367 138	-0.29402 0.0005 138	0.23833 0.0049 138
IBRW	0.01074 0.9308 137	0.16212 0.0584 137	-0.27172 0.0013 138	-0.20035 0.0185 138	0.02877 0.7376 138	0.02638 0.7568 138	0.15075 0.0776 138	0.28637 0.0007 138	0.15374 0.0718 138	0.06729 0.4329 138	-0.08948 0.2966 138	-0.13267 0.1203 138	0.07714 0.3685 138
OBRW	0.01684 0.8451 137	0.20452 0.0165 137	-0.12231 0.1530 138	-0.12156 0.1555 138	-0.00916 0.9151 138	0.02619 0.7684 138	0.08505 0.3213 138	0.23239 0.0061 138	0.19814 0.0198 138	-0.00359 0.9667 138	-0.05855 0.4952 138	-0.25170 0.0029 138	0.28652 0.0007 138
INMXL	0.00799 0.9261 137	0.16662 0.0516 137	-0.14829 0.0826 138	-0.26900 0.0014 138	-0.11531 0.1781 138	0.06624 0.4401 138	0.05191 0.5454 138	0.28092 0.0008 138	0.34736 0.0001 138	0.05545 0.5183 138	-0.01988 0.8169 138	-0.29752 0.0004 138	0.26152 0.0019 138
INMXW	0.02971 0.7303 137	0.15779 0.0656 137	-0.15625 0.0672 138	-0.31532 0.0002 138	-0.15319 0.0728 138	0.02929 0.8133 138	0.10313 0.2287 138	0.29810 0.0004 138	0.35498 0.0001 138	0.06341 0.4600 138	-0.07225 0.3997 138	-0.26593 0.0016 138	0.07946 0.0009 138
PMXL	0.04647 0.5897 137	0.19314 0.0237 137	-0.18978 0.0258 138	-0.26807 0.0015 138	-0.03996 0.6417 138	0.21130 0.0129 138	-0.01778 0.8360 138	0.11374 0.1841 138	0.11612 0.1985 138	0.09311 0.2774 138	-0.07509 0.3814 138	-0.30708 0.0002 138	0.20529 0.0157 138
LBRP	0.02990 0.7287 137	0.17652 0.0391 137	-0.10017 0.2424 138	-0.22503 0.0080 138	-0.07433 0.3865 138	0.03044 0.7231 138	-0.02750 0.7488 138	0.18173 0.0329 138	0.21918 0.0098 138	0.11924 0.1636 138	0.00894 0.9171 138	-0.26326 0.0008 138	0.27979 0.0009 138
NFLOR	-0.00690 0.9362 137	0.15169 0.0768 137	-0.07485 0.3829 138	-0.31527 0.0002 138	-0.21415 0.0117 138	0.08801 0.3047 138	0.12822 0.1339 138	0.20101 0.0181 138	0.32598 0.0001 138	0.03042 0.7232 138	-0.12160 0.1554 138	-0.28310 0.0059 138	0.23808 0.0049 138
CORLLN	-0.15230 0.0756 137	0.05439 0.5279 137	-0.14528 0.0891 138	-0.14953 0.0800 138	-0.03196 0.7098 138	0.08930 0.2976 138	0.01071 0.9007 138	0.00928 0.9139 138	0.04406 0.6078 138	0.31117 0.8965 135	0.00049 0.9955 138	-0.28827 0.0006 138	0.15087 0.0773 138
CORLWD	-0.03812 0.6583 137	0.06007 0.4856 137	-0.13515 0.1140 138	-0.03249 0.7052 138	0.10948 0.2012 138	-0.01913 0.8237 138	-0.01498 0.8636 138	0.07119 0.4067 138	0.03649 0.6709 138	0.10110 0.2381 138	-0.00038 0.9964 138	0.08848 0.3021 138	0.16268 0.0566 138



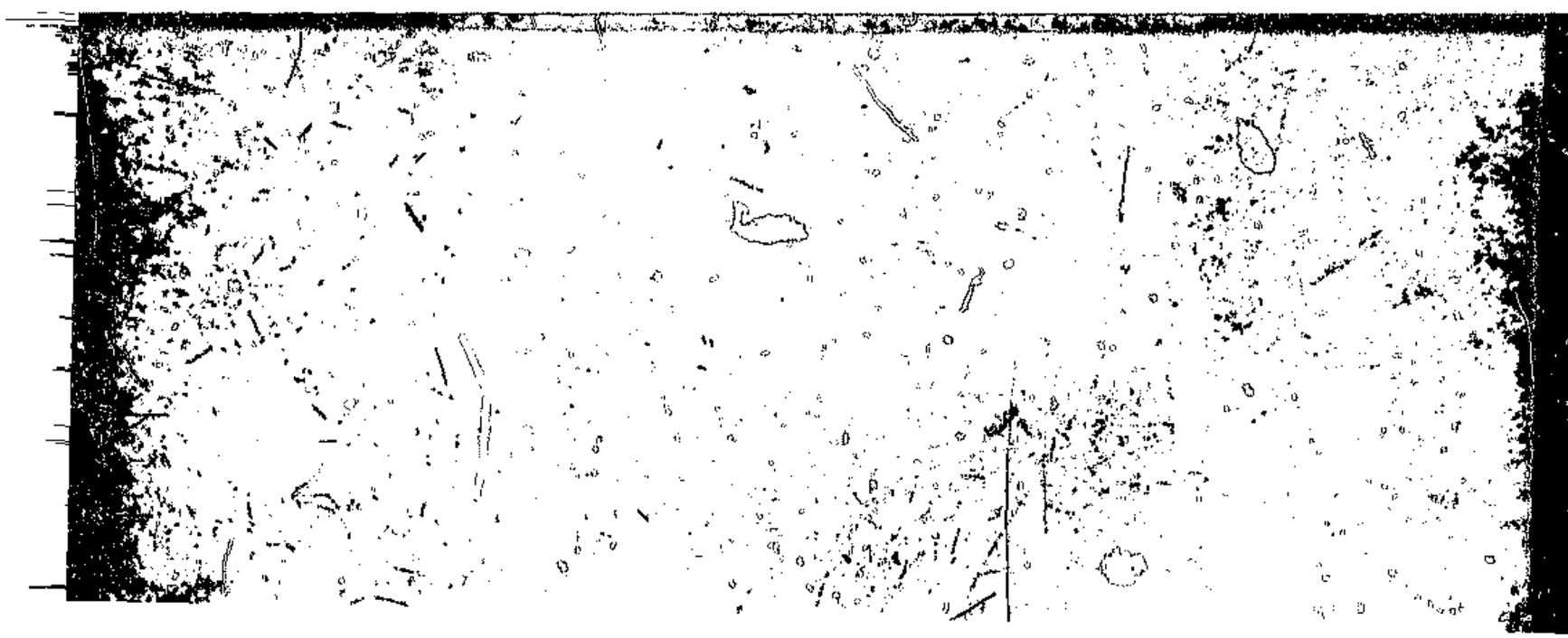
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
CORTWD	-0.15233 0.0756 137	0.08347 0.9679 137	-0.24446 0.0039 138	-0.26385 0.0018 138	-0.05949 0.4882 138	-0.01280 0.8815 138	0.14576 0.0880 138	0.24511 0.0038 138	0.16242 0.0570 138	0.11551 0.1773 138	-0.12345 0.1491 138	-0.20519 0.0158 138	0.19328 0.0231 138
LCTPFA	-0.05300 0.5385 137	0.10346 0.2289 137	-0.16519 0.0528 138	-0.28722 0.0147 138	-0.07931 0.3551 138	0.07214 0.4084 138	0.10490 0.2208 138	0.14038 0.1005 138	0.18553 0.0294 138	0.02199 0.7980 138	-0.05422 0.5276 138	-0.25341 0.0027 138	0.16965 0.0467 138
INFW	-0.00539 0.9502 137	0.07710 0.3705 137	-0.09720 0.2567 138	-0.22638 0.0076 138	-0.13084 0.1261 138	0.11707 0.1715 138	0.08953 0.2964 138	0.11981 0.1616 138	0.20501 0.0153 138	-0.06827 0.4262 138	-0.10984 0.1997 138	-0.24976 0.0031 138	0.19075 0.0250 138
INFL	-0.00034 0.9969 137	0.13627 0.1123 137	-0.19539 0.0216 138	-0.29183 0.0005 138	-0.10962 0.2006 138	0.08884 0.3001 138	0.05616 0.5130 138	0.24989 0.0031 138	0.28069 0.0009 138	0.04938 0.5652 138	-0.04866 0.5709 138	-0.29471 0.0005 138	0.22762 0.0073 138
PAPMXLN	-0.02644 0.7591 137	0.12867 0.1340 137	-0.19647 0.0209 138	-0.24389 0.0039 138	-0.08983 0.2947 138	0.04977 0.5621 138	0.14906 0.0810 138	0.23198 0.0068 138	0.26403 0.0039 138	0.08298 0.3333 138	-0.08722 0.3091 138	-0.29671 0.0004 138	0.19035 0.0253 138
TFLLN	-0.04060 0.6376 137	0.09986 0.2456 137	-0.17050 0.0456 138	-0.19315 0.0232 138	-0.06391 0.4564 138	0.07082 0.4092 138	0.10032 0.2417 138	0.16376 0.0549 138	0.17771 0.0370 138	0.03659 0.6701 138	-0.00947 0.9122 138	-0.27229 0.0012 138	0.19675 0.0207 138
FMXLN	-0.09897 0.2499 137	0.10230 0.2342 137	-0.16827 0.0485 138	-0.18787 0.0273 138	-0.06034 0.4821 138	0.10295 0.2295 138	0.01375 0.8729 138	0.09196 0.2834 138	0.07809 0.3626 138	-0.01817 0.8324 138	-0.10133 0.2370 138	-0.25124 0.0030 138	0.19464 0.0222 138
AMXLN	-0.03419 0.6916 137	0.08901 0.3010 137	-0.21941 0.0097 138	-0.16109 0.0591 138	0.02168 0.8007 138	0.09705 0.2575 138	0.09814 0.2521 138	0.27586 0.0011 138	0.27446 0.0011 138	0.12131 0.1564 138	0.05090 0.5538 138	-0.32550 0.0001 138	0.19098 0.0248 138
STMXLN	-0.04215 0.6248 137	0.10533 0.2206 137	-0.17273 0.0428 138	-0.18753 0.0276 138	-0.04862 0.5712 138	0.07368 0.3904 138	0.08630 0.3142 138	0.16027 0.0604 138	0.18318 0.0315 138	0.03180 0.7112 138	-0.00517 0.9520 138	-0.26675 0.0016 138	0.20899 0.0139 138
STHXLOL	-0.07759 0.3675 137	0.14360 0.0941 137	-0.09326 0.2766 138	-0.01569 0.8551 138	0.07017 0.4135 138	-0.00472 0.9562 138	0.00145 0.9865 138	-0.06141 0.4743 138	-0.11590 0.1758 138	0.03461 0.6870 138	-0.01801 0.8339 138	-0.08492 0.3220 138	0.06161 0.4729 138
VACMXLN	0.03177 0.7124 137	-0.04924 0.5677 137	0.03357 0.6959 138	-0.11867 0.1656 138	-0.18119 0.0334 138	0.00255 0.9763 138	0.07417 0.3873 138	0.12804 0.1679 138	0.13556 0.1129 138	-0.01191 0.8898 138	-0.04175 0.6268 138	-0.04208 0.6241 138	-0.13356 0.1183 138
CRMXLN	-0.05860 0.4964 137	0.08476 0.3247 137	-0.18156 0.0331 138	-0.22124 0.0091 138	-0.07468 0.3840 138	0.06357 0.4588 138	0.11455 0.1810 138	0.16817 0.0486 138	0.19830 0.0197 138	0.03561 0.6784 138	-0.05004 0.5600 138	-0.28809 0.0006 138	0.19534 0.0217 138
CRMXWD	-0.05078 0.5556 137	0.09322 0.2786 137	-0.19860 0.0195 138	-0.19542 0.0216 138	-0.02038 0.8124 138	-0.05943 0.4887 138	0.15265 0.0739 138	0.26701 0.0015 138	0.20690 0.0149 138	0.08698 0.3104 138	-0.05373 0.5314 138	-0.22284 0.0086 138	0.29984 0.0004 138



SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	RACHLEN	INTNDLN	LNWDRL	MXLNL	MXNDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
CRMNWD	-0.00830 0.9233 137	0.01611 0.8518 137	-0.12984 0.1291 138	-0.00760 0.9295 138	0.09803 0.2527 138	-0.06316 0.4618 138	0.13058 0.1269 138	0.11705 0.1715 138	0.16247 0.0569 138	0.12715 0.1372 138	0.11749 0.1699 138	-0.04036 0.6384 138	0.15585 0.0680 138
VANGS	0.11056 0.1984 137	0.11694 0.1736 137	-0.25677 0.0024 138	0.12778 0.1353 138	0.36524 0.0001 138	0.19150 0.0244 138	-0.10605 0.2157 138	0.18968 0.0259 138	0.03619 0.6734 138	0.36890 0.0001 138	0.30240 0.0003 138	0.05335 0.5343 138	-0.04994 0.5608 138
VANDB	-0.21749 0.0107 137	-0.09517 0.2686 137	-0.24580 0.0037 138	0.02815 0.7431 138	0.23599 0.0053 138	-0.05328 0.5348 138	0.01899 0.8251 138	0.32130 0.0001 138	0.32527 0.0001 138	0.13234 0.1218 138	0.12962 0.1297 138	-0.03945 0.6460 138	0.11076 0.1959 138
SHINL	0.04305 0.6174 137	0.01846 0.8305 137	0.41405 0.0001 138	0.32999 0.0001 138	-0.33833 0.0001 138	-0.29492 0.0004 138	-0.07879 0.3583 138	-0.25861 0.0022 138	0.25241 0.0028 138	-0.31120 0.0002 138	0.31117 0.0129 138	0.05575 0.5160 138	0.27401 0.0011 138
NWNOFHD	0.48097 0.0001 137	0.12527 0.1415 137	0.20763 0.0149 137	0.34105 0.0001 137	0.17766 0.0378 137	-0.15927 0.0630 137	-0.12553 0.1439 137	-0.23166 0.0065 137	-0.23223 0.0063 137	-0.03872 0.6533 137	0.16367 0.0560 137	0.21839 0.0104 137	-0.10651 0.2154 137
IBLWR	-0.09878 0.2508 137	0.00392 0.9637 137	-0.07459 0.3846 138	-0.29437 0.0005 138	-0.21948 0.0097 138	0.03285 0.7021 138	0.08982 0.2948 138	0.24173 0.0043 138	0.36036 0.0001 138	0.04074 0.6352 138	-0.07054 0.4110 138	-0.30569 0.0003 138	0.26043 0.0020 138
OBLWR	-0.12007 0.1622 137	-0.10080 0.2412 137	-0.12432 0.1463 138	-0.27249 0.0012 138	-0.17288 0.0434 138	0.05584 0.5154 138	0.03827 0.6559 138	0.05143 0.5492 138	0.13372 0.1179 138	0.11668 0.1729 138	-0.09900 0.2480 138	-0.11452 0.1811 138	-0.02481 0.7727 138
INVLWR	-0.14353 0.0943 137	-0.13722 0.1098 137	0.08166 0.3410 138	0.33620 0.1112 138	0.08412 0.3266 138	0.00287 0.9734 138	-0.10541 0.2165 138	-0.89080 0.8896 138	-0.02079 0.8087 138	0.04611 0.5913 138	0.21209 0.0125 138	0.02555 0.7661 138	0.00155 0.9856 138
CRLLWR	-0.18480 0.0543 137	-0.02996 0.7260 137	-0.12466 0.1451 138	-0.16132 0.0587 138	-0.07537 0.3796 138	0.06606 0.4414 138	0.02459 0.7747 138	0.01345 0.8756 138	0.05847 0.4958 138	-0.06289 0.4637 138	-0.01018 0.9057 138	-0.30706 0.0002 138	0.04839 0.5730 138
CORLWR	0.02645 0.7590 137	0.00943 0.9129 137	0.00262 0.9757 138	-0.02081 0.8085 138	-0.01427 0.8681 138	0.09833 0.2512 138	0.02264 0.7921 138	-0.05290 0.5377 138	0.00554 0.9486 138	-0.01504 0.8574 138	0.00771 0.9265 138	-0.11761 0.1695 138	-0.04658 0.5875 138
CORLMWR	-0.05455 0.5266 137	0.07132 0.4076 137	-0.09719 0.2568 138	-0.20188 0.0176 138	-0.12781 0.1377 138	0.12606 0.1407 138	0.00938 0.9131 138	0.04604 0.5918 138	0.04113 0.6319 138	-0.05715 0.5055 138	-0.14802 0.0832 138	-0.28676 0.0035 138	0.07336 0.3925 138
STLLBR	0.07478 0.3852 137	-0.00819 0.9243 137	-0.01456 0.8654 138	-0.18060 0.0340 138	-0.16183 0.0579 138	0.07837 0.3609 138	0.07663 0.3717 138	0.10721 0.2107 138	0.16919 0.0473 138	-0.01021 0.9054 138	-0.04870 0.5705 138	-0.17079 0.0452 138	0.07421 0.3870 138
TFLPLR	0.06844 0.4268 137	-0.09922 0.2487 137	0.20699 0.0149 138	0.30783 0.0002 138	0.12692 0.1380 138	-0.01696 0.8435 138	-0.16727 0.0278 138	-0.24176 0.0043 138	-0.22408 0.0082 138	-0.09169 0.2848 138	0.19817 0.0198 138	0.29479 0.0004 138	-0.17587 0.0391 138



SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	RACHLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS	NSECV	PINSV	PTLLN
INFLWR	-0.08617 0.3167 137	-0.06049 0.4826 137	-0.11321 0.1871 138	-0.05059 0.5557 138	0.03792 0.6586 138	-0.05363 0.5322 138	-0.06909 0.4207 138	0.10337 0.2276 138	0.10398 0.2249 138	0.17843 0.0363 138	0.16474 0.0535 138	0.03555 0.6789 138	0.02931 0.7329 138
LRNFHR	-0.12574 0.1432 137	0.11816 0.1691 137	-0.14321 0.0958 137	-0.00738 0.0003 137	-0.18481 0.0306 137	0.11170 0.1938 137	0.07276 0.3981 137	0.17703 0.0385 137	0.19166 0.0249 137	-0.00332 0.9693 137	-0.16687 0.0513 137	-0.26200 0.0020 137	0.17120 0.0455 137
ALFHLR	0.12246 0.1540 137	-0.04372 0.6120 137	0.09723 0.2566 138	0.17200 0.0437 138	0.12948 0.1301 138	-0.09470 0.2692 138	0.02993 0.7275 138	0.07346 0.3918 138	0.09312 0.2773 138	0.11864 0.1658 138	0.20432 0.0162 138	0.09860 0.2499 138	-0.08496 0.3218 138
LCPFCLR	0.04211 0.6251 137	0.13371 0.1193 137	-0.01279 0.8817 138	-0.02379 0.7818 138	-0.04379 0.6101 138	0.01684 0.8446 138	0.05890 0.4926 138	0.02634 0.7591 138	0.07215 0.4004 138	-0.00515 0.9522 138	-0.06769 0.4302 138	-0.04271 0.6189 138	-0.01597 0.8525 138
	INTLN	NBR	IBRW	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLEN	CORLWD
RACHLEN	0.20973 0.0139 137	-0.00074 0.9932 137	-0.03888 0.7006 137	0.00537 0.9503 137	0.01074 0.9006 137	0.01684 0.8437 137	0.00799 0.9261 137	0.02971 0.7303 137	0.04647 0.5897 137	0.02990 0.7287 137	-0.00690 0.9362 137	-0.15230 0.0756 137	-0.03812 0.6583 137
INTNDLN	0.10700 0.2133 137	0.16155 0.0593 137	0.08736 0.3100 137	0.17879 0.0366 137	0.16212 0.0584 137	0.20452 0.0165 137	0.16662 0.0516 137	0.15779 0.0656 137	0.19314 0.0237 137	0.17652 0.0391 137	0.15169 0.0760 137	0.05439 0.5279 137	0.06007 0.4856 137
LNWDRL	-0.04803 0.5759 138	-0.23909 0.0047 138	-0.16962 0.0467 138	-0.11335 0.1856 138	-0.27172 0.0013 138	-0.12231 0.1530 138	-0.14829 0.0826 138	-0.15625 0.0672 138	-0.18978 0.0258 138	-0.10017 0.2424 138	-0.07485 0.3829 138	-0.14528 0.0891 138	-0.13515 0.1140 138
MXLNL	0.21012 0.0134 138	-0.31738 0.0001 138	-0.31042 0.0002 138	-0.21368 0.0127 138	-0.20035 0.0185 138	-0.12156 0.1555 138	-0.26900 0.0014 138	-0.31532 0.0002 138	-0.26807 0.0015 138	-0.22503 0.0080 138	-0.31527 0.0002 138	-0.14953 0.0800 138	-0.03249 0.7052 138
MXWDL	0.28160 0.0008 138	-0.10595 0.2162 138	-0.16894 0.0476 138	-0.10219 0.2330 138	0.02877 0.7376 138	-0.00916 0.9151 138	-0.11531 0.1781 138	-0.15319 0.0728 138	-0.03996 0.6417 138	-0.07033 0.3863 138	-0.21415 0.0117 138	-0.03596 0.7098 138	0.10948 0.2012 138
APXAN	0.01221 0.8870 138	0.19242 0.0238 138	0.02006 0.8154 138	0.03625 0.6729 138	0.02638 0.7588 138	0.02619 0.7604 138	0.06624 0.4401 138	0.02029 0.8133 138	0.21130 0.0129 138	0.03044 0.7231 138	0.08801 0.3047 138	0.08930 0.2976 138	-0.01913 0.8237 138
APXPS	-0.09441 0.2707 138	0.01851 0.8294 138	0.14916 0.0806 138	0.13430 0.1163 138	0.15075 0.0776 138	0.08505 0.3213 138	0.05191 0.5454 138	0.10313 0.2287 138	-0.01778 0.8360 138	-0.02750 0.7488 138	0.12822 0.1339 138	0.01071 0.9007 138	-0.01498 0.8616 138
BSAN	0.04688 0.5851 138	0.17242 0.0431 138	0.32841 0.0001 138	0.26546 0.0017 138	0.28637 0.0007 138	0.23239 0.0061 138	0.28092 0.0008 138	0.29810 0.0004 138	0.11374 0.1841 138	0.18173 0.0329 138	0.20101 0.0181 138	0.00928 0.9335 138	0.01719 0.4067 138
BSPS	-0.00147 0.9863 138	0.15320 0.0728 138	0.34538 0.0001 138	0.29696 0.0004 138	0.15374 0.0718 138	0.19814 0.0198 138	0.34736 0.0001 138	0.39450 0.0001 138	0.11012 0.1985 138	0.21918 0.0098 138	0.32598 0.0001 138	0.04406 0.6078 138	0.03649 0.6709 138

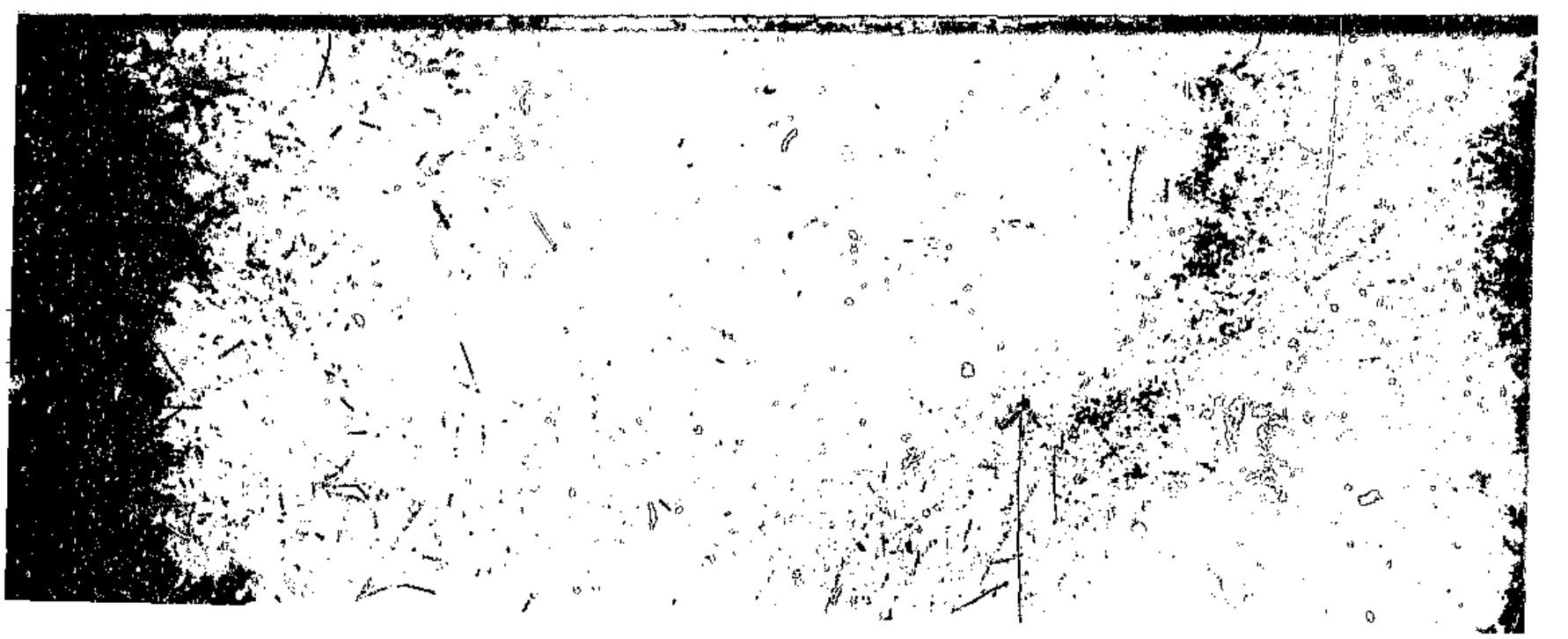
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLLN	CORLWD
SVINS	-0.05807 0.4987 138	0.09867 0.2496 138	0.06708 0.4344 138	0.01213 0.8877 138	0.06729 0.4329 138	-0.00359 0.9667 138	0.05545 0.5183 138	0.06341 0.4600 138	0.09311 0.2774 138	0.11924 0.1636 138	0.03042 0.7232 138	0.01117 0.8965 138	0.10110 0.2361 138
NSECV	-0.01635 0.8490 138	-0.08770 0.3031 138	-0.05463 0.5245 138	-0.05674 0.5067 138	-0.04946 0.5966 138	-0.05855 0.4952 138	-0.01988 0.8169 138	-0.07225 0.3997 138	-0.07509 0.3814 138	0.00894 0.9171 138	-0.12160 0.1554 138	0.00049 0.9955 138	-0.00038 0.9964 138
PINSV	0.09052 0.2910 138	-0.28864 0.0001 138	-0.30716 0.0002 138	-0.29402 0.0005 138	-0.13287 0.1203 138	-0.25170 0.0029 138	-0.29752 0.0004 138	-0.26593 0.0016 138	-0.30708 0.0002 138	-0.28326 0.0008 138	-0.23310 0.0059 138	-0.28827 0.0006 138	0.08848 0.3021 138
PTLLN	-0.08871 0.3008 138	0.23489 0.0056 138	0.22200 0.0089 138	0.23833 0.0049 138	0.07714 0.3685 138	0.28652 0.0007 138	0.26152 0.0019 138	0.27946 0.0009 138	0.20529 0.0157 138	0.27979 0.0009 138	0.23806 0.0049 138	0.15067 0.0773 138	0.16268 0.0566 138
INTLN	1.00000 0.0000 138	-0.02800 0.7988 138	0.04594 0.5926 138	0.03509 0.6829 138	0.13992 0.1017 138	0.04932 0.5657 138	0.06054 0.4806 138	0.05325 0.5350 138	0.02727 0.7509 138	0.06144 0.4741 138	-0.02986 0.7281 138	-0.04810 0.5753 138	0.10297 0.2294 138
NBR	-0.02200 0.7978 138	1.00000 0.0000 138	0.76729 0.0001 138	0.68863 0.0001 138	0.84314 0.0001 138	0.69832 0.0001 138	0.81155 0.0001 138	0.74323 0.0001 138	0.79451 0.0001 138	0.61623 0.0001 138	0.73866 0.0001 138	0.53864 0.0001 138	0.24186 0.0043 138
IBRL	0.04594 0.5926 138	0.76729 0.0001 138	1.00000 0.0000 138	0.85056 0.0001 138	0.85802 0.0001 138	0.76731 0.0001 138	0.94482 0.0001 138	0.87727 0.0001 138	0.69133 0.0001 138	0.74062 0.0001 138	0.79882 0.0001 138	0.47551 0.0001 138	0.16679 0.0506 138
OBRL	0.03509 0.6829 138	0.68863 0.0001 138	0.85056 0.0001 138	1.00000 0.0000 138	0.58822 0.0001 138	0.85654 0.0001 138	0.84490 0.0001 138	0.82613 0.0001 138	0.74120 0.0001 138	0.66366 0.0001 138	0.78088 0.0009 138	0.54709 0.0001 138	0.17700 0.0378 138
IBRW	0.13992 0.1017 138	0.84314 0.0001 138	0.85802 0.0001 138	0.58822 0.0001 138	1.00000 0.0000 138	0.82336 0.0001 138	0.84659 0.0001 138	0.85705 0.0001 138	0.82532 0.0001 138	0.57828 0.0001 138	0.53414 0.0001 138	0.86783 0.0001 138	0.23276 0.0060 138
OBRW	0.04932 0.5657 138	0.69832 0.0001 138	0.76731 0.0001 138	0.85654 0.0001 138	0.82336 0.0001 138	1.00000 0.0000 138	0.76944 0.0001 138	0.72637 0.0001 138	0.70321 0.0001 138	0.30601 0.0001 138	0.88909 0.0001 138	0.25199 0.0001 138	0.23390 0.0056 138
INMXL	0.06054 0.4806 138	0.81155 0.0001 138	0.94482 0.0001 138	0.84490 0.0001 138	0.84659 0.0001 138	0.76944 0.0001 138	1.00000 0.0000 138	0.90594 0.0001 138	0.77609 0.0001 138	0.78238 0.0001 138	0.84908 0.0001 138	0.49559 0.0001 138	0.21566 0.0111 138
INMXW	0.05325 0.5350 138	0.74193 0.0001 138	0.87727 0.0001 138	0.82613 0.0001 138	0.85705 0.0001 138	0.92637 0.0001 138	0.90594 0.0001 138	1.00000 0.0000 138	0.72725 0.0001 138	0.72414 0.0001 138	0.89352 0.0001 138	0.41093 0.0001 138	0.22981 0.0067 138
PMXL	0.02727 0.7509 138	0.79891 0.0001 138	0.69833 0.0001 138	0.74120 0.0001 138	0.82532 0.0001 138	0.70321 0.0001 138	0.77609 0.0001 138	0.72725 0.0001 138	1.00000 0.0000 138	0.69988 0.0001 138	0.70800 0.0001 138	0.62979 0.0001 138	0.22674 0.0075 138



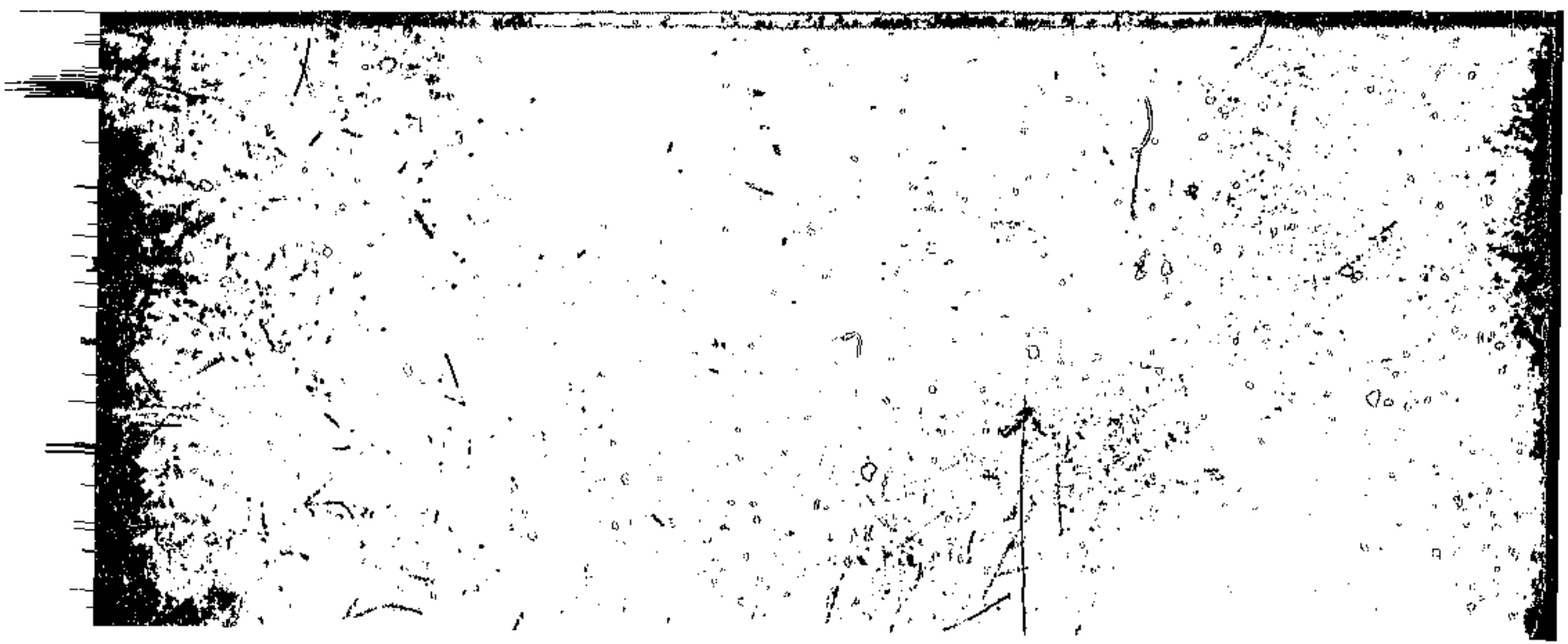
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLLN	CORLWD
LBRP	0.06144 0.4741 138	0.61623 0.0001 138	0.74082 0.0001 138	0.66856 0.0001 138	0.57428 0.0001 138	0.60601 0.0001 138	0.58238 0.0001 138	0.72414 0.0001 138	0.69306 0.0001 138	*1.00000* 0.0000 138	*0.64965* 0.0001 138	*0.51046* 0.0001 138	*0.26999* 0.0014 138
NFLOR	-0.02986 0.7281 138	0.73866 0.0001 138	0.79862 0.0001 138	0.78082 0.0001 138	0.53478 0.0001 138	0.66975 0.0001 138	0.84908 0.0001 138	0.89852 0.0001 138	0.70800 0.0001 138	*0.64965* 0.0001 138	*1.00000* 0.0000 138	*0.41619* 0.0001 138	*0.11727* 0.1707 138
CORLLN	-0.04810 0.5753 138	0.53864 0.0001 138	0.47551 0.0001 138	0.54709 0.0001 138	0.36783 0.0001 138	0.55199 0.0001 138	0.49559 0.0001 138	0.41887 0.0001 138	0.62979 0.0001 138	0.51046 0.0001 138	0.41619 0.0001 138	*1.00000* 0.0000 138	*0.18922* 0.0262 138
CORLWD	0.10297 0.2294 138	0.24188 0.0043 138	0.16679 0.0506 138	0.17700 0.0378 138	0.23276 0.0060 138	0.23390 0.0058 138	0.21566 0.0111 138	0.22981 0.0067 138	0.22674 0.0075 138	0.26999 0.0014 138	0.11727 0.1707 138	0.18922 0.0262 138	*1.00000* 0.0000 138
CORTWD	0.08470 0.3233 138	0.51927 0.0001 138	0.68423 0.0001 138	0.66248 0.0001 138	0.63185 0.0001 138	0.58884 0.0001 138	0.66094 0.0001 138	0.69592 0.0001 138	0.55747 0.0001 138	0.64473 0.0001 138	0.56361 0.0001 138	0.41786 0.0001 138	0.39056 0.0001 138
LCTPFA	-0.00518 0.9519 138	0.68347 0.0001 138	0.73492 0.0001 138	0.80928 0.0001 138	0.49480 0.0001 138	0.67456 0.0001 138	0.75223 0.0001 138	0.64526 0.0001 138	0.70377 0.0001 138	0.60029 0.0001 138	0.63908 0.0001 138	0.69[illegible] 0.0001 138	0.12967 0.1296 138
INFW	0.02107 0.8062 138	0.63220 0.0001 138	0.67001 0.0001 138	0.70766 0.0001 138	0.53149 0.0001 138	0.65979 0.0001 138	0.71720 0.0001 138	0.70241 0.0001 138	0.73077 0.0001 138	0.60[illegible] 0.000[illegible] 138	0.74309 0.0001 138	0.60454 0.0001 138	0.16925 0.0472 138
INFL	0.04505 0.5998 138	0.78059 0.0001 138	0.87825 0.0001 138	0.81458 0.0001 138	0.68998 0.0001 138	0.75813 0.0001 138	0.92871 0.0001 138	0.83453 0.0001 138	0.79827 0.0001 138	0.72992 0.0001 138	0.78674 0.0001 138	0.58[illegible] 0.0001 138	0.19448 0.0223 138
PAPMXLN	0.00487 0.9548 138	0.74928 0.0001 138	0.87226 0.0001 138	0.81509 0.0001 138	0.62568 0.0001 138	0.77316 0.0001 138	0.94173 0.0001 138	0.74015 0.0001 138	0.75[illegible] 0.0001 138	0.78029 0.0001 138	0.70101 0.0001 138	0.67775 0.0001 138	0.15321 0.0728 138
TFLLN	0.05570 0.5164 138	0.67490 0.0001 138	0.79283 0.0001 138	0.76975 0.0001 138	0.53626 0.0001 138	0.68761 0.0001 138	0.74[illegible] 0.0001 138	0.54965 0.0001 138	0.72665 0.0001 138	0.65000 0.0001 138	0.61892 0.0001 138	0.73726 0.0001 138	0.14976 0.0796 138
FMXLN	0.04452 0.6041 138	0.56829 0.0001 138	0.54834 0.0001 138	0.68344 0.0001 138	0.38232 0.0001 138	0.59051 0.0001 138	0.54367 0.0001 138	0.46278 0.0001 138	0.60028 0.0001 138	0.54401 0.0001 138	0.46379 0.0001 138	0.73884 0.0001 138	0.25902 0.0022 138
AMXLN	0.06551 0.4452 138	0.67635 0.0001 138	0.75632 0.0001 138	0.73631 0.0001 138	0.5[illegible]72 0.0001 138	0.67869 0.0001 138	0.74879 0.0001 138	0.60189 0.0001 138	0.71184 0.0001 138	0.58151 0.0001 138	0.64020 0.0001 138	0.72346 0.0001 138	0.13569 0.1126 138
STMXLN	0.03543 0.6800 138	0.68449 0.0001 138	0.73994 0.0001 138	0.70631 0.0001 138	0.52784 0.0001 138	0.69291 0.0001 138	0.74339 0.0001 138	0.63615 0.0001 138	0.73983 0.0001 138	0.65607 0.0001 138	0.60953 0.0001 138	0.75589 0.0001 138	0.16616 0.0514 138



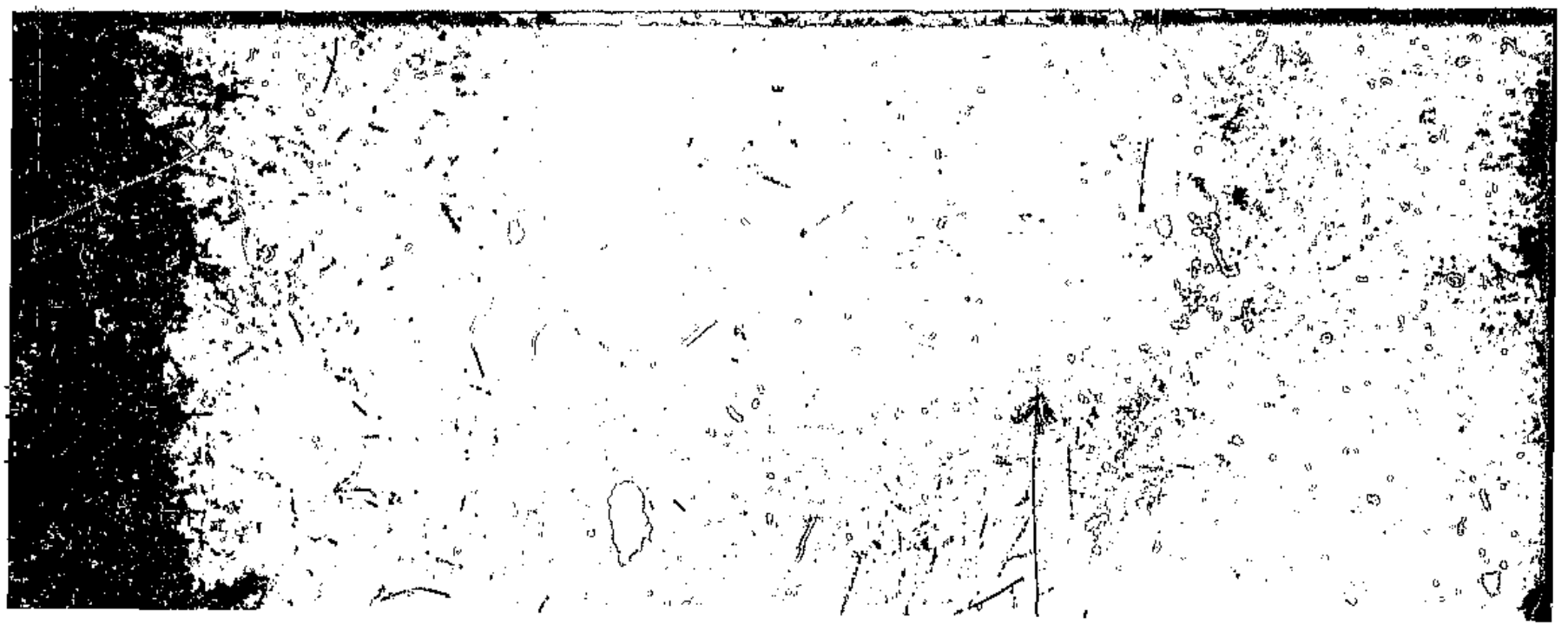
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO: / NUMBER OF OBSERVATIONS

	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	[illegible]	PMXL	LBRP	NFLOR	CORLLN	CORLWD
STMXLOL	-0.02970 0.7295 138	0.28501 0.0001 138	0.19752 0.0202 138	0.17493 0.0402 138	0.27034 0.0013 138	0.24169 0.0043 138	0.20676 0.0150 138	0.17[illegible] 0.[illegible] 138	0.30803 0.0002 138	0.02425 0.0082 138	0.04786 0.5772 138	0.46562 0.0001 138	0.10609 0.0212 138
VACMXLN	0.22795 0.0072 138	-0.00710 0.9341 138	0.31856 0.0001 138	0.24489 0.0038 138	0.20624 0.0152 138	0.10626 0.2148 138	0.25741 0.0023 138	0.34029 0.0001 138	0.04045 0.6376 138	0.12720 0.1371 138	0.26809 0.0015 138	-0.03938 0.6465 138	-0.23780 0.0050 138
CRMXLN	0.00439 0.9592 138	0.71982 0.0001 138	0.77885 0.0001 138	0.75916 0.0001 138	0.55692 0.0001 138	0.72330 0.0001 138	0.77907 0.0001 138	0.67564 0.0001 138	0.75781 0.0001 138	0.87229 0.0001 138	0.64543 0.0001 138	0.77397 0.0001 138	0.17811 0.0366 138
CRMXWD	0.08609 0.3154 138	0.52704 0.0001 138	0.67723 0.0001 138	0.62563 0.0001 138	0.66138 0.0001 138	0.57709 0.0001 138	0.65731 0.0001 138	0.67822 0.0001 138	0.57493 0.0001 138	0.67163 0.0001 138	0.51529 0.0001 138	0.39322 0.0001 138	0.37352 0.0001 138
CRMNWD	0.06483 0.4500 138	0.25301 0.0028 138	0.37189 0.0001 138	0.27786 0.0010 138	0.37717 0.0003 138	0.22823 0.0071 138	0.35154 0.0001 138	0.37121 0.0001 138	0.24164 0.0043 138	0.29964 0.0004 138	0.21072 0.0162 138	0.10940 0.2015 138	0.45615 0.0001 138
VANGS	-0.01472 0.8640 138	0.11341 0.1854 138	0.00273 0.9747 138	-0.04950 0.5642 138	0.00245 0.9772 138	0.02151 0.8023 138	0.03413 0.6911 138	-0.03366 0.6951 138	0.07338 0.3911 138	0.01661 0.8467 138	-0.08486 0.3224 138	0.06437 0.4532 138	0.10840 0.2057 138
VANOB	-0.03167 0.7123 138	0.30493 0.0003 138	0.26983 0.0014 138	0.30206 0.0003 138	0.21054 0.0132 138	0.29839 0.0004 138	0.30169 0.0003 138	0.26514 0.0017 138	0.25690 0.0024 138	0.30435 0.0162 138	0.20525 0.0157 138	0.31062 0.0002 138	0.18219 0.0325 138
SHINL	-0.09434 0.2711 138	-0.19945 0.0190 138	-0.05373 0.5313 138	-0.04384 0.6096 138	-0.21681 0.0106 138	-0.07939 0.3546 138	-0.05058 0.5558 138	-0.03747 0.6626 138	-0.19269 0.0236 138	-0.07034 0.4123 138	0.03217 0.7080 138	-0.19929 0.0191 138	-0.11658 0.1733 138
NWKOFHD	0.07641 0.3748 137	-0.63894 0.0001 137	-0.71384 0.0001 137	-0.68541 0.0001 137	-0.51051 0.0001 137	-0.61834 0.0001 137	-0.71455 0.0001 137	-0.68498 0.0001 137	-0.66381 0.0001 137	-0.59959 0.0001 137	-0.68475 0.0001 137	-0.57179 0.0001 137	-0.10904 0.2047 137
IBLWR	-0.86939 0.4187 138	0.64794 0.0001 138	0.82536 0.0001 138	0.71838 0.0001 138	0.18042 0.0342 138	0.68042 0.0001 138	0.77663 0.0001 138	0.88057 0.0001 138	0.54290 0.0001 138	0.57890 0.0001 138	0.71118 0.0001 138	0.40387 0.0001 138	0.07739 0.3670 138
OBLWR	-0.05395 0.5297 138	0.19897 0.0193 138	0.27881 0.0009 138	0.32227 0.0001 138	-0.02583 0.7637 138	-0.11327 0.1859 138	0.27411 0.0011 138	0.27972 0.0009 138	0.20353 0.0167 138	0.31013 0.0134 138	0.30694 0.0003 138	0.12934 0.1305 138	0.00806 0.9083 138
INVLWR	-0.13232 0.1218 138	0.06779 0.4295 138	0.01607 0.8516 138	-0.08613 0.3152 138	-0.14236 0.0958 138	-0.34289 0.6174 138	0.04838 0.5731 138	-0.29726 0.0004 138	0.00550 0.9489 138	0.04108 0.6324 138	-0.21951 0.0111 138	0.16082 0.0338 138	0.00696 0.9390 138
CRLLWR	-0.09163 0.2852 138	0.37497 0.0001 138	0.35507 0.0001 138	0.40341 0.0001 138	0.23986 0.0046 138	0.36435 0.0001 138	0.33823 0.0001 138	0.26373 0.0010 138	0.45990 0.0001 138	0.35469 0.0001 138	0.30358 0.0003 138	0.82703 0.0001 138	-0.32332 0.0001 138



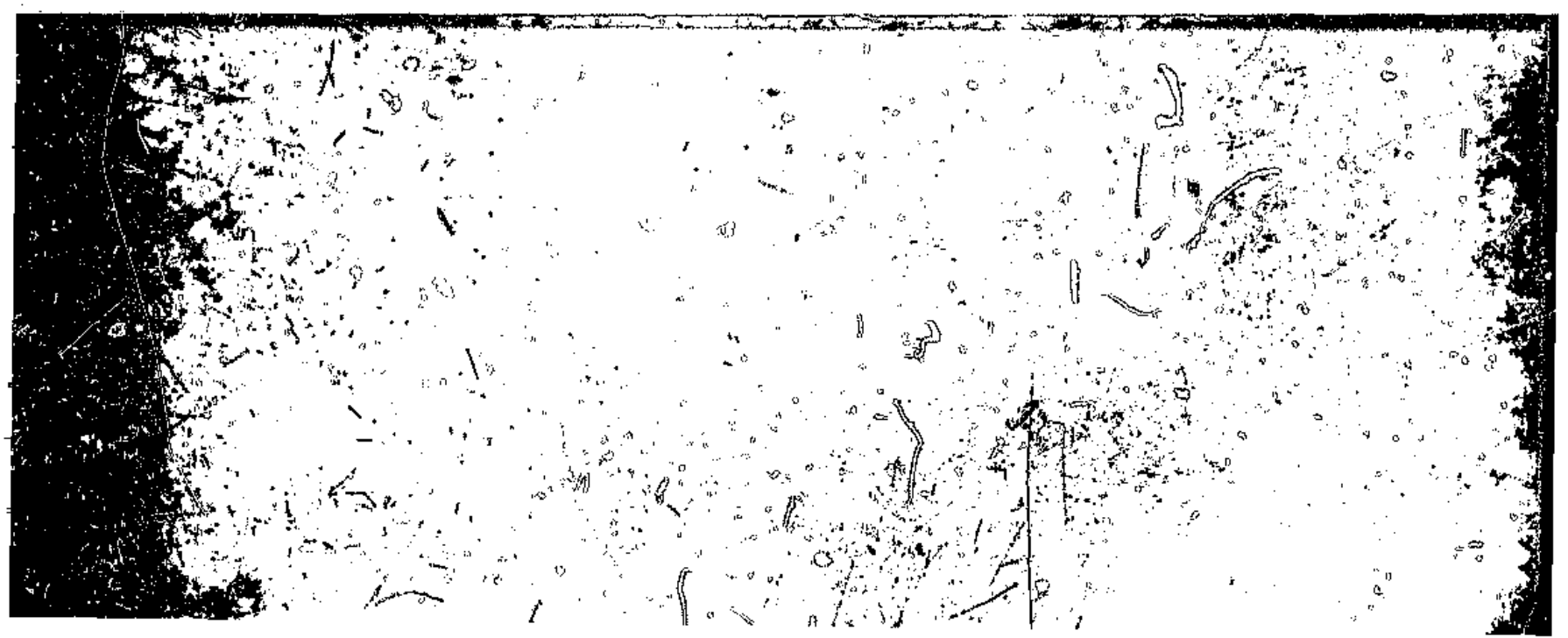
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INTLN	HBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL	LBRP	NFLOR	CORLLN	CORLWD
CORLWR	-0.06200 0.4700 138	0.24741 0.0034 138	0.14681 0.0858 138	0.17135 0.0445 138	-0.07880 0.3582 138	0.18061 0.0340 138	0.18644 0.0510 138	0.05867 0.4943 138	0.22961 0.0067 138	0.65502 0.5215 138	0.18429 0.0305 138	0.39791 0.0001 138	-0.22594 0.0077 138
CORLMWR	-0.08271 0.3348 138	0.89749 0.0001 138	0.44847 0.0001 138	0.48882 0.0001 138	0.24940 0.0032 138	0.58857 0.0001 138	0.46427 0.0001 138	0.36287 0.0001 138	0.50875 0.0001 138	0.40918 0.0001 138	0.46484 0.0001 138	0.61655 0.0001 138	-0.11517 0.1786 138
STLLBR	0.06870 0.4233 138	0.13649 0.1104 138	0.36222 0.0001 138	0.38369 0.0001 138	0.11732 0.1706 138	0.30931 0.0002 138	0.35523 0.0001 138	0.38824 0.0001 138	0.25884 0.0022 138	0.25434 0.0026 138	0.45195 0.0001 138	0.10521 0.2194 138	-0.09032 0.2921 138
TFLPLR	0.10054 0.2407 138	-0.88678 0.0001 138	-0.80471 0.0001 138	-0.76228 0.0001 138	-0.57565 0.0001 138	-0.69634 0.0001 138	-0.75502 0.0001 138	-0.70565 0.0001 138	-0.84466 0.0001 138	-0.66351 0.0001 138	-0.68343 0.0001 138	-0.42552 0.0001 138	-0.16260 0.0567 138
INFLWR	-0.06948 0.4180 138	0.09686 0.2584 138	0.14734 0.0846 138	-0.00736 0.9318 138	0.15263 0.0739 138	-0.20714 0.9338 138	0.14700 0.0853 138	0.03171 0.7120 138	-0.05850 0.4955 138	0.04464 0.6031 138	-0.07987 0.3517 138	-0.07621 0.3743 138	0.05169 0.5471 138
LRNFHR	-0.01792 0.8354 137	0.73840 0.0001 137	0.60400 0.0001 137	0.77684 0.0001 137	0.57626 0.0001 137	0.73899 0.0001 137	0.81676 0.0001 137	0.78841 0.0001 137	0.73194 0.0001 137	0.66386 0.0001 137	0.74315 0.0001 137	0.63100 0.0001 137	0.16128 0.0597 137
ALFHLR	0.03993 0.6419 138	-0.27544 0.0011 138	-0.17302 0.0424 138	-0.23048 0.0065 138	-0.46057 0.4804 138	-0.27036 0.0013 138	-0.16061 0.0599 138	-0.13208 0.1225 138	-0.28121 0.0008 138	-0.18088 0.0338 138	-0.14699 0.0854 138	-0.45280 0.0001 138	-0.25172 0.0029 138
LCPFCLR	0.01934 0.8219 138	0.23415 0.0057 138	0.24919 0.0032 138	0.23462 0.0056 138	0.08787 0.3054 138	0.22603 0.0077 138	0.29665 0.0004 138	0.22213 0.0088 138	0.20271 0.0171 138	0.10687 0.2122 138	0.28146 0.0008 138	0.07906 0.3567 138	-0.12231 0.1530 138
	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
RACMLEN	-0.15233 0.0756 137	-0.05300 0.5385 137	-0.00539 0.9502 137	-0.00034 0.9969 137	-0.02644 0.7591 137	-0.04060 0.6376 137	-0.09897 0.2499 137	-0.03419 0.6916 137	-0.04215 0.6248 137	-0.07759 0.3675 137	0.03177 0.7124 137	-0.05860 0.4964 137	-0.05078 0.5556 137
INTNOLN	0.00347 0.9679 137	0.10346 0.2289 137	0.07710 0.3705 137	0.13627 0.1123 137	0.12867 0.1340 137	0.09986 0.2456 137	0.10230 0.2342 137	0.08901 0.3010 137	0.10533 0.2206 137	0.14360 0.0941 137	-0.04924 0.5677 137	0.08476 0.3247 137	0.09322 0.2786 137
LNWDRL	-0.24446 0.0039 138	-0.16519 0.0528 138	-0.09720 0.2867 138	-0.19539 0.0216 138	-0.19647 0.0209 138	-0.17050 0.0456 138	-0.18827 0.0273 138	-0.23941 0.0097 138	-0.17273 0.0428 138	-0.09326 0.2766 138	0.03357 0.6959 138	-0.18156 0.0331 138	-0.19860 0.0195 138
MXLNL	-0.26365 0.0018 138	-0.20722 0.0147 138	-0.22638 0.0076 138	-0.89183 0.0005 138	-0.24389 0.0039 138	-0.19315 0.0232 138	-0.18787 0.0273 138	-0.16169 0.0591 138	-0.18753 0.0276 138	-0.01569 0.8551 138	-0.11867 0.1656 138	-0.22124 0.0091 138	-0.19542 0.0216 138
MXWDL	-0.05949 0.4882 138	-0.07931 0.3591 138	-0.13084 0.1261 138	-0.10962 0.2006 138	-0.08983 0.2947 138	-0.06391 0.4564 138	-0.06034 0.4821 138	0.02188 0.8007 138	-0.04862 0.5712 138	0.07017 0.4135 138	-0.18119 0.0334 138	-0.07468 0.3840 138	-0.02038 0.8124 138



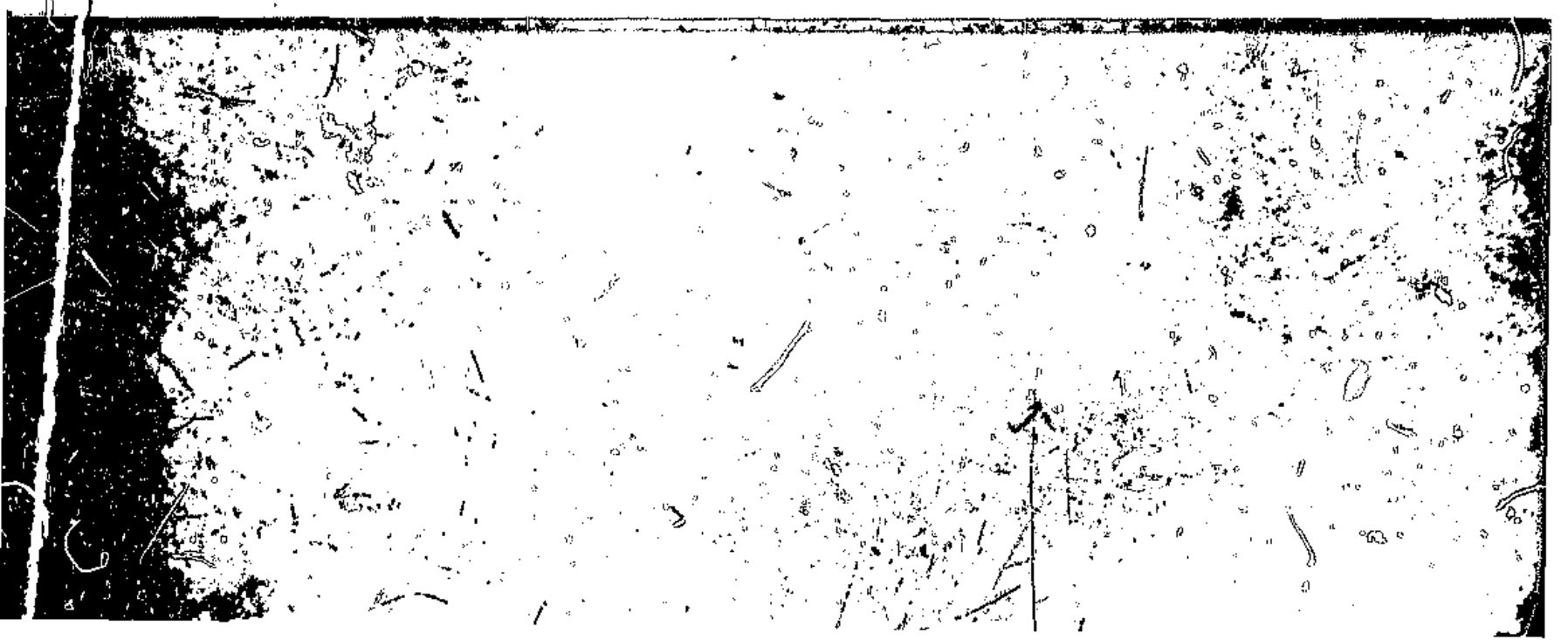
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CORTWD	ECTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
APXAN	-0.01280 0.8815 138	0.07214 0.4004 138	0.11707 0.1715 138	0.08884 0.3001 138	0.04977 0.5621 138	0.07082 0.4092 138	0.10295 0.2295 138	0.09705 0.2575 138	0.07368 0.3904 138	-0.00472 0.9562 138	0.00235 0.9788 138	0.06357 0.4588 138	-0.05943 0.4887 138
APXPS	0.14576 0.0880 138	0.10490 0.2206 138	0.08952 0.2963 138	0.35616 0.5130 138	0.14906 0.0810 138	0.10032 0.2417 138	0.01375 0.8729 138	0.09814 0.2521 138	0.08630 0.3142 138	0.00145 0.9865 138	0.37417 0.3873 138	0.11455 0.1810 138	0.15265 0.0739 138
BSAN	0.24511 0.0038 138	0.14988 0.1886 138	0.11981 0.1616 138	0.28989 0.0031 138	0.23198 0.0062 138	0.16376 0.0549 138	0.09196 0.2834 138	0.27586 0.0011 138	0.16027 0.0604 138	-0.06141 0 4743 138	0.11804 0.1679 138	0.16817 0.0486 138	0.26701 0.0015 138
BSPS	0.16242 0.0570 138	0.18553 0.0294 138	0.20507 0.0158 138	0.28069 0.0009 138	0.24403 0.0039 138	0.17771 0.0370 138	0.07809 0.3626 138	0.37446 0.0011 138	0.18318 0.0315 138	-0.11590 0.1758 138	0.13556 0.1129 138	0.19830 0.0197 138	0.20690 0.0149 138
SVINS	0.11551 0.1773 138	0.02199 0.7980 138	-0.06827 0.4262 138	0.04938 0.5652 138	0.08298 0.3333 138	0.03659 0.6701 138	-0.01817 0.8324 138	0.12131 0.1564 138	0.04180 0.7312 138	0.03461 0.6870 138	-0.01191 0.8898 138	0.03561 0.6784 138	0.08698 0.3104 138
NSECV	-0.12345 0.1491 138	-0.05422 0.5276 138	-0.10984 0.1997 138	-0.04866 0.5709 138	-0.08722 0.3091 138	-0.00947 0.9122 138	-0.10133 0.2370 138	0.05090 0.5532 138	-0.00517 0.9520 138	-0.01801 0.8339 138	-0.04135 0.6288 138	-0.05004 0.5600 138	-0.05373 0.5314 138
PINSV	-0.20519 0.0158 138	-0.25341 0.0027 138	-0.24976 0.0031 138	-0.29471 0.8005 138	-0.29671 0.0004 138	-0.27229 0.0012 138	-0.25124 0.0030 138	-0.32550 0.0001 138	-0.26675 0.0016 138	-0.08492 0.3220 138	-0.04208 0.6241 138	-0.28879 0.0006 138	-0.22284 0.0086 138
PTLLN	0.19828 0.0881 138	0.16965 0.0467 138	0.19075 0.0250 138	0.22762 0.0073 138	0.19035 0.0253 138	0.19675 0.0207 138	0.19464 0.0222 138	0.19098 0.0248 138	0.20899 0.0139 138	0.06161 0.4729 138	-0.13356 0.1183 138	0.19584 0.0217 138	0.29984 0.0004 138
TNTLN	0.38470 0.3233 138	-0.00518 0.9519 138	0.02107 0.8062 138	0.04505 0.5998 138	0.00487 0.9548 138	0.05570 0.5164 138	0.04452 0.6041 138	0.06551 0.4452 138	0.03543 0.6800 138	-0.02970 0.7295 138	0.28795 0.0072 138	0.00439 0.9592 138	0.08609 0.3154 138
NBR	0.51927 0.0001 138	0.68347 0.0001 138	0.63220 0.0001 138	0.78059 0.0001 138	0.74928 0.0001 138	0.67490 0.0001 138	0.56829 0.0001 138	0.67889 0.0001 138	0.68449 0.0001 138	0.68501 0.0001 138	-0.00710 0.9341 138	0.71982 0.0001 138	0.52704 0.0001 138
IBRL	0.68423 0.0001 138	0.73492 0.0001 138	0.67001 0.0001 138	0.87825 0.0001 138	0.87228 0.0001 138	0.75283 0.0001 138	0.54858 0.0001 138	0.75632 0.0001 138	0.73994 0.0001 138	0.19758 0.0202 138	0.38888 0.0001 138	0.77889 0.0001 138	0.67723 0.0001 138
OBRL	0.66243 0.0001 138	0.70928 0.0001 138	0.70766 0.0001 138	0.81456 0.0001 138	0.81509 0.0001 138	0.70916 0.0001 138	0.58344 0.0001 138	0.73631 0.0001 138	0.70631 0.0001 138	0.17493 0.0402 138	0.24459 0.0038 138	0.75916 0.0001 138	0.62563 0.0001 138
IBRW	0.63185 0.0001 138	0.49888 0.0001 138	0.43149 0.0001 138	0.62798 0.0001 138	0.62684 0.0001 138	0.53626 0.0001 138	0.38292 0.0001 138	0.54272 0.0001 138	0.52784 0.0001 138	0.27034 0.0013 138	0.20624 0.0152 138	0.55602 0.0001 138	0.66138 0.0001 138



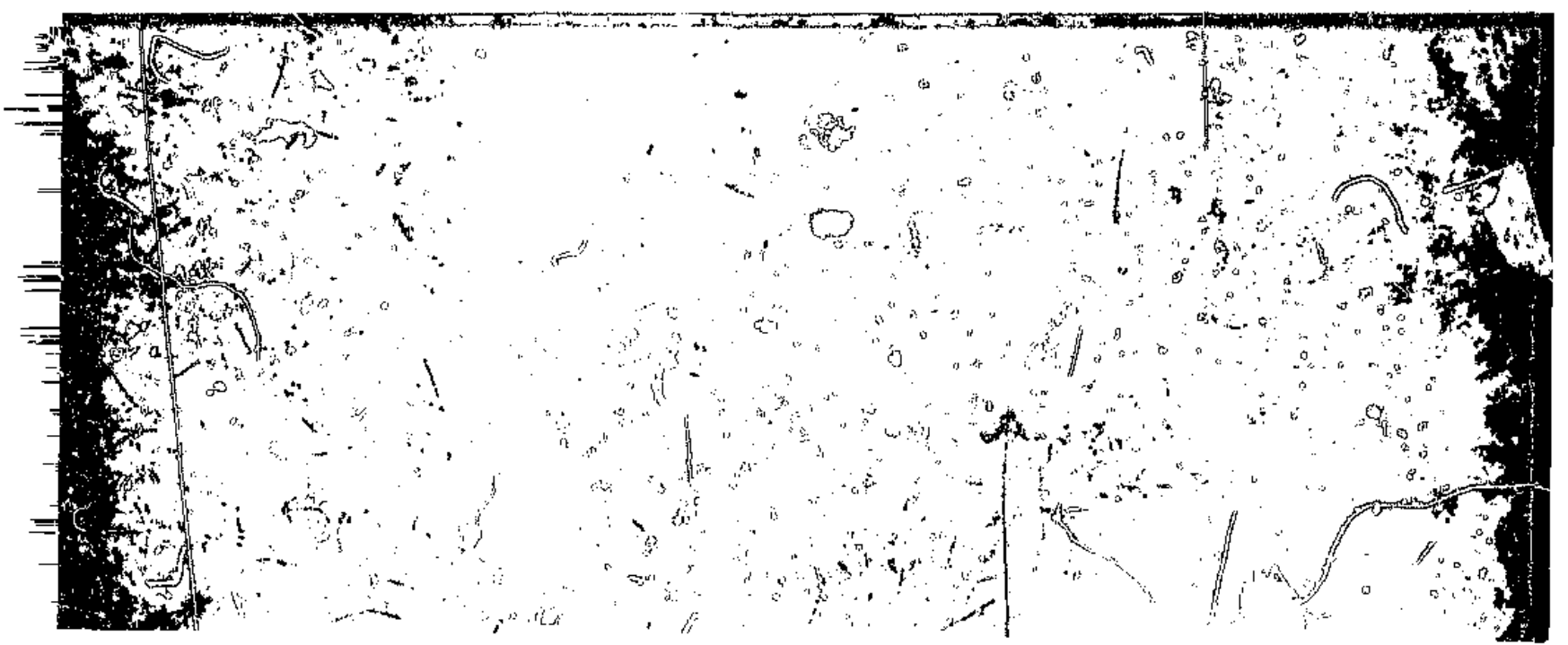
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN	STMXLN	STMXLCL	VACMXLN	CRMXLN	CRMXWD
CBRW	0.58884 0.0001 138	0.67456 0.0001 138	0.65979 0.0001 138	0.75813 0.0001 138	0.77316 0.0001 138	0.68761 0.0001 138	0.59051 0.0001 138	0.67869 0.0001 138	0.69291 0.0001 138	0.24169 0.0043 138	0.10626 0.2148 138	0.72330 0.0001 138	0.57709 0.0001 138
INMXL	0.66094 0.0001 138	0.75223 0.0001 138	0.71720 0.0001 138	0.92891 0.0001 138	0.84173 0.0001 138	0.74761 0.0001 138	0.54089 0.0001 138	0.74879 0.0001 138	0.74339 0.0001 138	0.20676 0.0150 138	0.25741 0.0023 138	0.77907 0.0001 138	0.65731 0.0001 138
INMXW	0.68592 0.0001 138	0.64526 0.0001 138	0.70241 0.0001 138	0.83453 0.0001 138	0.74015 0.0001 138	0.64966 0.0001 138	0.48278 0.0001 138	0.58129 0.0001 138	0.53815 0.0001 138	0.11569 0.1766 138	0.34089 0.0001 138	0.67568 0.0001 138	0.67222 0.0001 138
MXL	0.55184 0.0001 138	0.70337 0.0001 138	0.73077 0.0001 138	0.79883 0.0001 138	0.76597 0.0001 138	0.72665 0.0001 138	0.68278 0.0001 138	0.71184 0.0001 138	0.73983 0.0001 138	0.30803 0.0002 138	0.04045 0.6376 138	0.75731 0.0001 138	0.57493 0.0001 138
LBRP	0.64473 0.0001 138	0.60029 0.0001 138	0.60771 0.0001 138	0.72992 0.0001 138	0.72025 0.0001 138	0.65000 0.0001 138	0.54401 0.0001 138	0.68151 0.0001 138	0.65607 0.0001 138	0.22528 0.0082 138	0.12720 0.1371 138	0.57229 0.0001 138	0.87163 0.0001 138
FLOR	0.56331 0.0001 138	0.63908 0.0001 138	0.74358 0.0001 138	0.78859 0.0001 138	0.80101 0.0001 138	0.61982 0.0001 138	0.46379 0.0001 138	0.64680 0.0001 138	0.60953 0.0001 138	0.04786 0.5772 138	0.24809 0.0015 138	0.64543 0.0001 138	0.51520 0.0001 138
DRLLN	0.61738 0.0001 138	0.69867 0.0001 138	0.60454 0.0001 138	0.59661 0.0001 138	0.67775 0.0001 138	0.73726 0.0001 138	0.73884 0.0001 138	0.72346 0.0001 138	0.75589 0.0001 138	0.48582 0.0001 138	-0.03938 0.6465 138	0.77397 0.0001 138	0.39322 0.0001 138
DRLWD	0.39056 0.0001 138	0.12967 0.1296 138	0.16925 0.0472 138	0.19448 0.0223 138	0.15321 0.0728 138	0.14976 0.0796 138	0.25902 0.0022 138	0.13569 0.1126 138	0.16616 0.0514 138	0.19609 0.0212 138	-0.23780 0.0050 138	0.17811 0.0366 138	0.37352 0.0001 138
DRTWD	1.00000 0.0000 138	0.45365 0.0001 138	0.47557 0.0001 138	0.58977 0.0001 138	0.56088 0.0001 138	0.46142 0.0001 138	0.41645 0.0001 138	0.52863 0.0001 138	0.45199 0.0001 138	0.05684 0.5079 138	0.22715 0.0074 138	0.50427 0.0001 138	0.86196 0.0001 138
LCTPFA	0.45365 0.0001 138	1.00000 0.0000 138	0.78496 0.0001 138	0.84756 0.0001 138	0.88082 0.0001 138	0.92440 0.0001 138	0.74265 0.0001 138	0.77447 0.0001 138	0.92963 0.0001 138	0.82300 0.0001 138	0.18121 0.0334 138	0.95654 0.0001 138	0.38936 0.0001 138
INFW	0.47557 0.0001 138	0.78496 0.0001 138	1.00000 0.0000 138	0.82025 0.0001 138	0.76682 0.0001 138	0.80575 0.0001 138	0.67808 0.0001 138	0.76264 0.0001 138	0.80389 0.0001 138	0.14828 0.0826 138	0.25893 0.0021 138	0.80444 0.0001 138	0.39193 0.0001 138
INFL	0.58977 0.0001 138	0.84756 0.0001 138	0.82026 0.0001 138	1.00000 0.0000 138	0.90324 0.0001 138	0.87388 0.0001 138	0.63586 0.0001 138	0.83109 0.0001 138	0.87048 0.0001 138	0.24114 0.0044 138	0.27564 0.0011 138	0.88281 0.0001 138	0.59367 0.0001 138
PAPMXLN	0.56088 0.0001 138	0.88088 0.0001 138	0.76982 0.0001 138	0.90324 0.0001 138	1.00000 0.0000 138	0.91867 0.0001 138	0.72053 0.0001 138	0.88334 0.0001 138	0.91551 0.0001 138	0.36866 0.0001 138	0.21149 0.0126 138	0.94057 0.0001 138	0.87133 0.0001 138



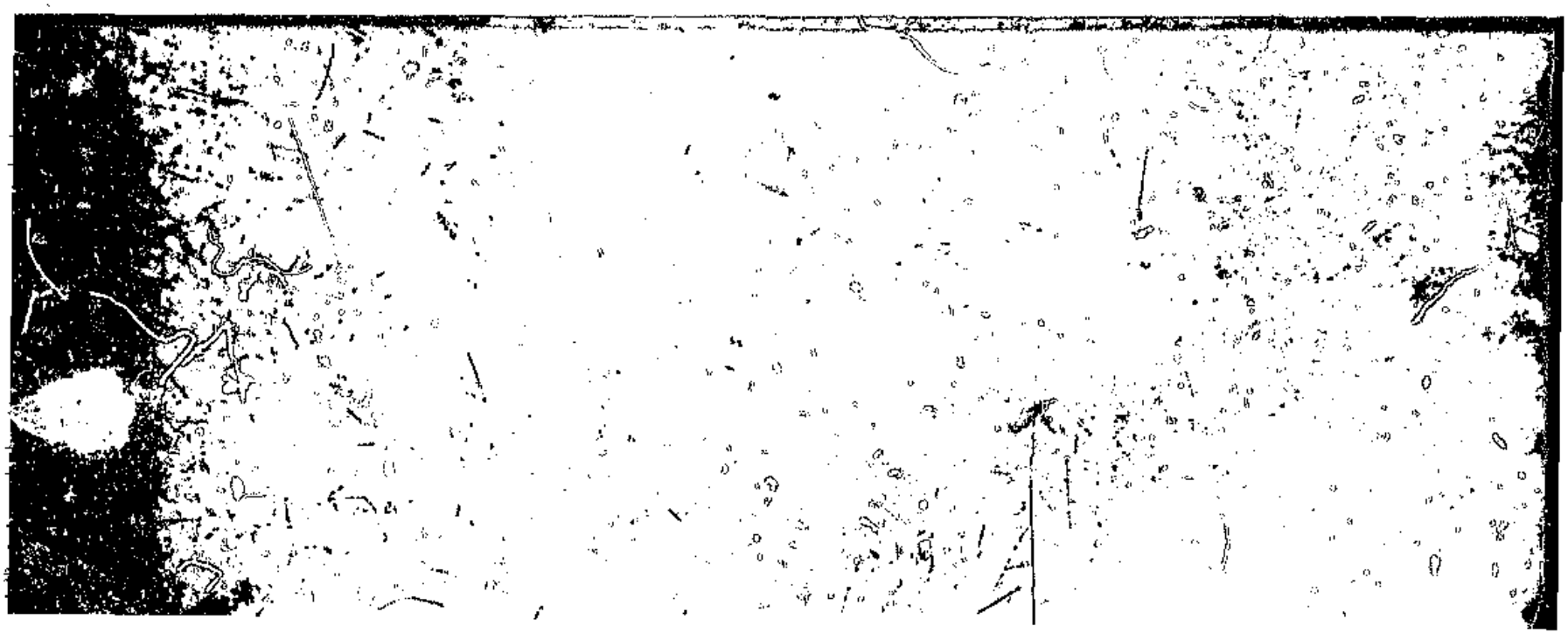
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
TFLLN	0.46342 0.0001 138	0.92440 0.0001 138	0.80575 0.0001 138	0.87388 0.0001 138	0.91863 0.0001 138	1.00000 0.0000 138	0.79085 0.0001 138	0.87087 0.0001 138	0.99431 0.0001 138	0.37476 0.0001 138	0.94128 0.0044 138	0.96781 0.0001 138	0.49507 0.0001 138
FMXLN	0.81645 0.0001 138	0.74265 0.0001 138	0.67808 0.0001 138	0.63586 0.0001 138	0.72053 0.0001 138	0.79085 0.0001 138	1.00000 0.0000 138	0.66560 0.0001 138	0.80718 0.0001 138	0.41482 0.0001 138	-0.01630 0.8495 138	0.80016 0.0001 138	0.37040 0.0001 138
AMXLN	0.58863 0.0001 138	0.77447 0.0001 138	0.76269 0.0001 138	0.83109 0.0001 138	0.88334 0.0001 138	0.87087 0.0001 138	0.66560 0.0001 138	1.00000 0.0000 138	0.86899 0.0001 138	0.34074 0.0001 138	0.24389 0.0039 138	0.87042 0.0001 138	0.51814 0.0001 138
STMXLN	0.45199 0.0001 138	0.92963 0.0001 138	0.80389 0.0001 138	0.87048 0.0001 138	0.91551 0.0001 138	0.99431 0.0001 138	0.80718 0.0001 138	0.86899 0.0001 138	1.00000 0.0000 138	0.40462 0.0001 138	0.16779 0.0492 138	0.97210 0.0001 138	0.45307 0.0001 138
STMXLOL	0.05684 0.5079 138	0.32300 0.0001 138	0.14026 0.0826 138	0.24114 0.0044 138	0.36866 0.0001 138	0.37476 0.0001 138	0.41482 0.0001 138	0.34074 0.0001 138	0.40462 0.0001 138	1.00000 0.0000 138	-0.38368 0.0001 138	0.39621 0.0001 138	0.17088 0.0451 138
VACMXLN	0.62715 0.0074 138	0.18121 0.0334 138	0.25695 0.0023 138	0.27584 0.0011 138	0.21149 0.0128 138	0.24128 0.0044 138	-0.01630 0.8495 138	0.24389 0.0039 138	0.16779 0.0492 138	-0.38368 0.0001 138	1.00000 0.0004 138	0.16740 0.0497 138	0.10891 0.2035 138
CRMXLN	0.45027 0.0001 138	0.95658 0.0001 138	0.80444 0.0001 138	0.88281 0.0001 138	0.94057 0.0001 138	0.96781 0.0001 138	0.80016 0.0001 138	0.87342 0.0001 138	0.97210 0.0001 138	0.39621 0.0001 138	0.16740 0.0497 138	1.00000 0.0000 138	0.47907 0.0001 138
CRMXWD	0.86196 0.0001 138	0.38936 0.0001 138	0.39157 0.0001 138	0.59367 0.0001 138	0.57133 0.0001 138	0.49507 0.0001 138	0.37040 0.0001 138	0.51814 0.0001 138	0.45307 0.0001 138	0.17088 0.0451 138	0.10891 0.2035 138	0.47907 0.0001 138	1.00000 0.0000 138
CRMNWD	0.53004 0.0001 138	0.11446 0.1813 138	0.12615 0.1404 138	0.26583 0.0016 138	0.22663 0.0070 138	0.10358 0.2267 138	-0.00087 0.9935 138	0.20994 0.0135 138	0.09983 0.2440 138	0.12071 0.1584 138	-0.01138 0.8946 138	0.16221 0.0573 138	0.53303 0.0001 138
VANGS	.07712 0.3687 138	0.04600 0.5921 138	-0.11322 0.1861 138	0.03454 0.6876 138	0.01464 0.8647 138	0.04494 0.6007 138	0.00379 0.9648 138	0.02597 0.7624 138	0.06118 0.4759 138	0.13953 0.1027 138	-0.14289 0.0945 138	0.04096 0.6334 138	-0.07630 0.3737 138
VANGB	0.20616 0.0153 138	0.31115 0.0002 138	0.22797 0.0072 138	0.30096 0.0003 138	0.31976 0.0001 138	0.30747 0.0002 138	0.30290 0.0003 138	0.34609 0.0001 138	0.32827 0.0001 138	0.26966 0.0014 138	-0.19930 0.0191 138	0.34826 0.0001 138	0.16190 0.0578 138
SHINL	-0.18689 0.0282 138	-0.17656 0.0383 138	-0.09416 0.2720 138	-0.11799 0.1681 138	-0.13995 0.1016 138	-0.17536 0.0397 138	-0.19315 0.0232 138	-0.16923 0.0472 138	-0.17905 0.0356 138	-0.17571 0.0393 138	0.05944 0.4886 138	-0.17808 0.0367 138	-0.12104 0.1573 138
NWNOFHD	-0.61229 0.0001 137	-0.67811 0.0001 137	-0.60101 0.0001 137	-0.72535 0.0001 137	-0.70936 0.0001 137	-0.67858 0.0001 137	-0.58170 0.0001 137	-0.65204 0.0001 137	-0.67176 0.0001 137	-0.19125 0.0252 137	-0.26204 0.0020 137	-0.70530 0.0001 137	-0.51518 0.0001 137



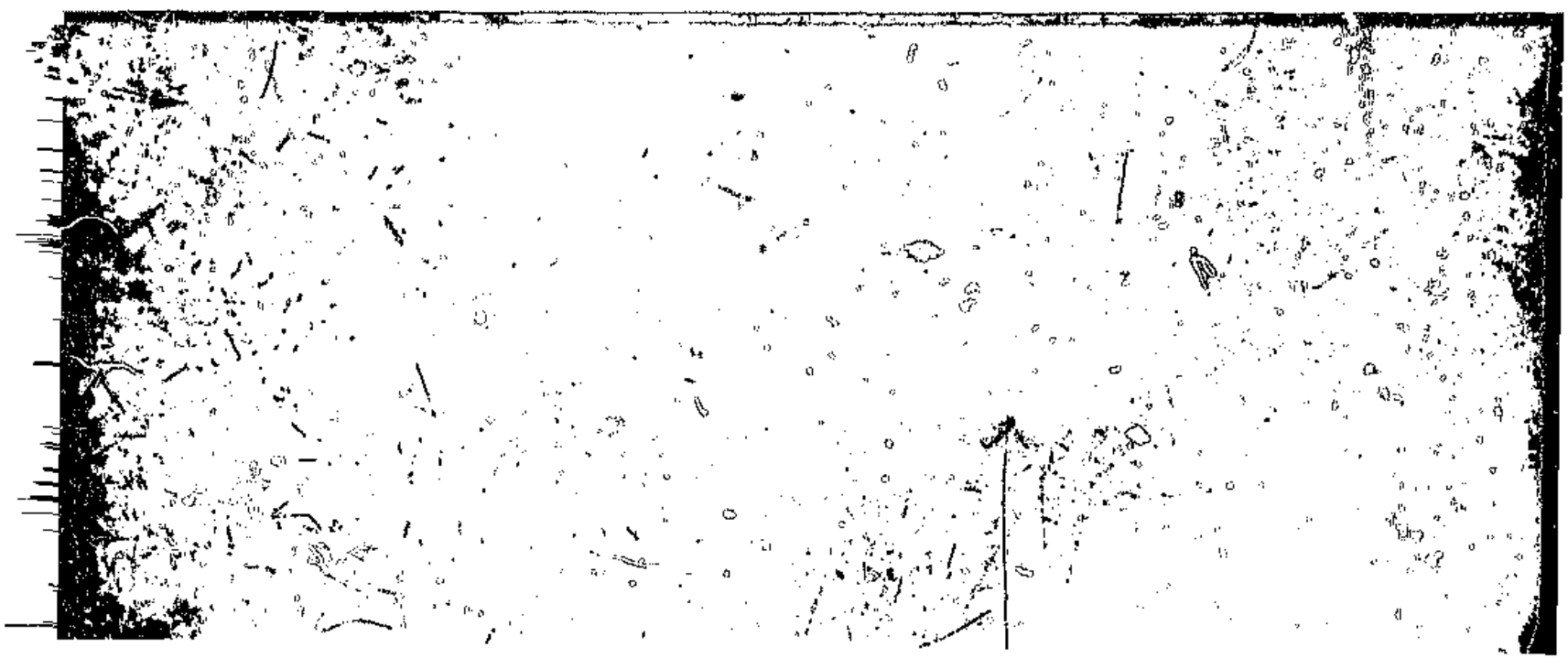
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CORTWD	LCTPFA	INFW	INFL	PAPHXLN	TFLLN	FMXLN	AMXLN	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD
IBLWR	0.44508 0.0001 138	0.64259 0.0001 138	0.63562 0.0001 138	0.72029 0.0001 138	0.71587 0.0001 138	0.63541 0.0001 138	0.50780 0.0001 138	0.62976 0.0001 138	0.63145 0.0001 138	0.09471 0.2692 138	0.20119 0.0180 138	0.66397 0.0001 138	0.41422 0.0001 138
OBLWR	0.19195 0.0241 138	0.22239 0.0088 138	0.22416 0.0082 138	0.26864 0.0014 138	0.21724 0.0105 138	0.20519 0.0158 138	0.17412 0.0411 138	0.24223 0.0042 138	0.20742 0.0146 138	0.08869 0.3010 138	0.10743 0.2098 138	0.23500 0.0055 138	0.15408 0.0712 138
INVLWR	-0.12690 0.1380 138	0.08304 0.3329 138	-0.10559 0.2177 138	0.06575 0.4436 138	0.08052 0.3478 138	0.07885 0.3580 138	0.08052 0.3478 138	0.04814 0.5750 138	0.10787 0.2079 138	0.30746 0.0002 138	-0.31440 0.0002 138	0.10349 0.2271 138	-0.06512 0.4480 138
CRLLWR	0.22980 0.0069 138	0.58237 0.0001 138	0.47909 0.0001 138	0.45417 0.0001 138	0.55367 0.0001 138	0.61071 0.0001 138	0.55519 0.0001 138	0.61119 0.0001 138	0.61955 0.0001 138	0.35436 0.0001 138	0.06041 0.4815 138	0.63448 0.0001 138	0.21610 0.0109 138
CORLWR	-0.27810 0.0010 138	0.56099 0.0001 138	0.43888 0.0001 138	0.31055 0.0002 138	0.39418 0.0001 138	0.51087 0.0001 138	0.48403 0.0001 138	0.37021 0.0001 138	0.51654 0.0001 138	0.20307 0.0041 138	0.03404 0.6918 138	0.51478 0.0001 138	-0.42423 0.0001 138
CORLMWR	0.14070 0.0998 138	0.75970 0.0001 138	0.62358 0.0001 138	0.59854 0.0001 138	0.67827 0.0001 138	0.71544 0.0001 138	0.70594 0.0001 138	0.31948 0.0001 138	0.78163 0.0001 138	0.27553 0.0011 138	0.10148 0.2363 138	0.76750 0.0001 138	0.11698 0.1718 138
STLLBR	0.24576 0.0037 138	0.39113 0.0001 138	0.48204 0.0001 138	0.42116 0.0001 138	0.33930 0.0001 138	0.38031 0.0001 138	0.20717 0.0148 138	0.32772 0.0001 138	0.35664 0.0001 138	-0.63467 0.0001 138	0.46387 0.0001 138	0.34533 0.0001 138	0.11048 0.1971 138
TFLPLR	-0.63602 0.0001 138	-0.58037 0.0001 138	-0.51955 0.0001 138	-0.67808 0.0001 138	-0.80140 0.0001 138	-0.84400 0.0001 138	-0.41232 0.0001 138	-0.61200 0.0001 138	-0.54819 0.0001 138	-0.27248 0.0012 138	-0.04809 0.5754 138	0.63741 0.0001 138	-0.65712 0.0001 138
INFLWR	0.12039 0.1596 138	-0.05501 0.5216 138	-0.09191 0.0001 138	0.09756 0.2550 138	0.04236 0.6218 138	-0.05032 0.5578 138	-0.18623 0.0287 138	-0.03445 0.6883 138	-0.04326 0.6144 138	0.18097 0.0337 138	-0.12924 0.1308 138	-0.03480 0.6853 138	0.24528 0.0037 138
LRNFHR	0.63802 0.0001 137	0.79089 0.0001 137	0.78382 0.0001 137	0.84449 0.0001 137	0.82483 0.0001 137	0.78880 0.0001 137	0.65482 0.0001 137	0.74624 0.0001 137	0.78393 0.0001 137	0.24112 0.0045 137	0.27076 0.0014 137	0.83688 0.0001 137	0.56493 0.0001 137
ALFMLR	-0.19955 0.1299 138	-0.41397 0.0001 138	-0.35782 0.0001 138	-0.23228 0.0061 138	-0.30783 0.0002 138	-0.43410 0.0001 138	-0.79911 0.0001 138	-0.15351 0.0722 138	-0.33367 0.0001 138	-0.29288 0.0005 138	0.19813 0.0196 138	-0.42208 0.0001 138	-0.06713 0.4340 138
LCPFCLR	0.00409 0.9620 138	0.60205 0.0001 138	0.34539 0.0001 138	0.33703 0.0001 138	0.30254 0.0003 138	0.36566 0.3001 138	0.18888 0.0891 138	0.15608 0.0675 138	0.36884 0.0001 138	-0.03351 0.6964 138	0.18229 0.0324 138	0.37369 0.0001 138	-0.10830 0.2061 138
	CRMWD	VANGB	VANGB	SHINL	NWNGFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
RACKLEN	-0.00830 0.9233 137	0.11988 0.0988 137	-0.21749 0.0107 137	0.04305 0.6174 137	0.48097 0.0001 137	-0.39878 0.2508 137	-0.12007 0.1622 137	-0.14353 0.0943 137	-0.16480 0.0543 137	0.02645 0.7590 137	-0.05455 0.5266 137	0.37478 0.3982 137	0.06844 0.4268 137



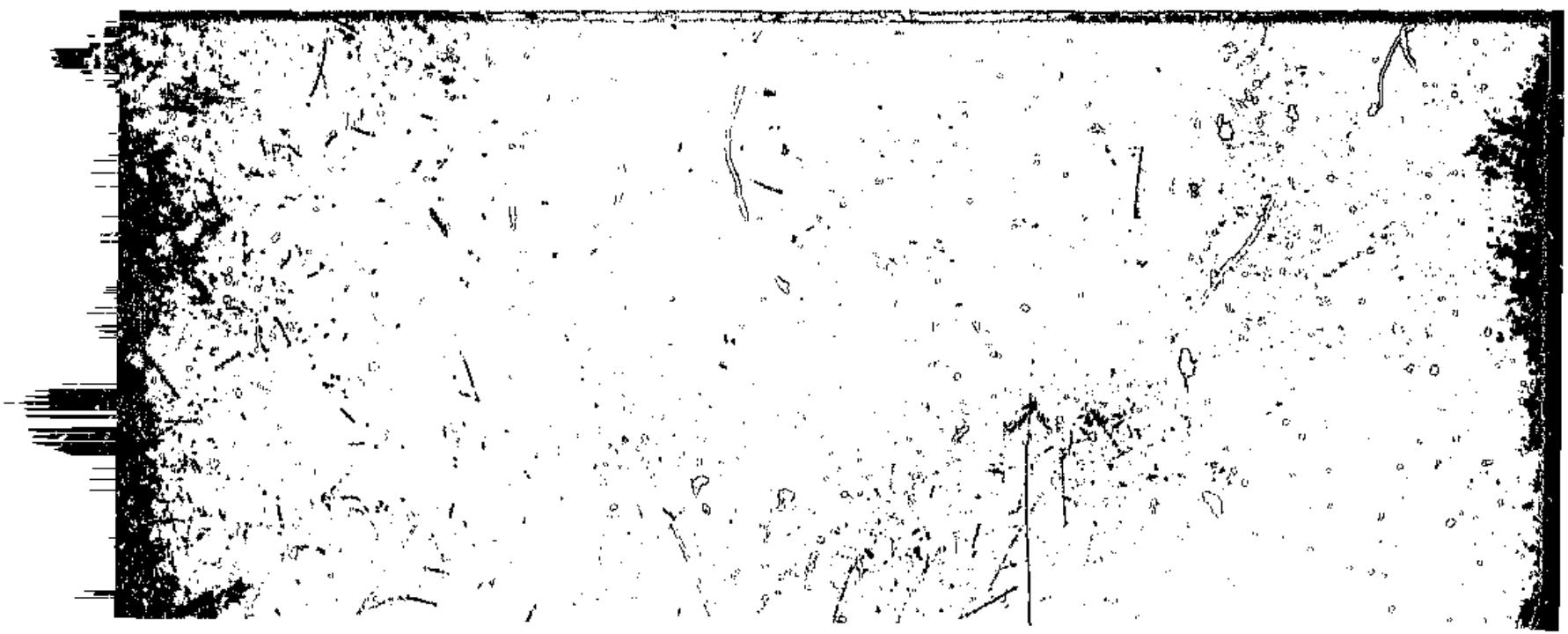
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CRMSWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
INTNDLN	0.01611 0.8518 137	0.11694 0.1736 137	-0.09517 0.2686 137	0.01846 0.8305 137	0.12627 0.1415 137	0.00392 0.9637 137	-0.10060 0.2412 137	-0.13722 0.1098 137	-0.02998 0.7280 137	0.00943 0.9129 137	0.07132 0.4076 137	-0.00819 0.9243 137	-0.09922 0.2487 137
LNWDRL	-0.12984 0.1291 138	-0.25677 0.0024 138	-0.24580 0.0037 138	0.81405 0.0001 138	0.20763 0.0149 137	-0.07459 0.3846 138	-0.12432 0.1463 138	0.08166 0.3410 138	-0.12468 0.1451 138	0.00262 0.9757 138	-0.09719 0.2568 138	-0.01456 0.8654 138	0.20699 0.0149 138
MXLNL	-0.00760 0.9299 138	0.12778 0.1353 138	0.02815 0.7431 138	0.32980 0.0001 138	0.34105 0.0001 137	-0.29437 0.0005 138	-0.27249 0.0012 138	0.13620 0.1112 138	-0.16132 0.0587 138	-0.02081 0.8085 138	-0.00188 0.0176 138	-0.18068 0.0340 138	0.00783 0.0002 138
MXHDL	0.09803 0.2527 138	0.36524 0.0001 138	0.23599 0.0053 138	-0.33833 0.0001 138	0.17766 0.0378 137	-0.21948 0.0097 138	-0.17224 0.0434 138	0.08412 0.3266 138	-0.07537 0.3736 138	-0.01427 0.8681 138	-0.12701 0.1377 138	-0.16183 0.0579 138	0.12692 0.1380 138
APXAN	-0.06316 0.4618 138	0.19150 0.0244 138	-0.05328 0.5346 138	-0.29492 0.0004 138	-0.15927 0.0630 137	0.03285 0.7021 138	0.05584 0.5154 138	0.00287 0.9734 138	0.06606 0.4414 138	0.09833 0.2512 138	0.12606 0.1407 138	0.07837 0.3609 138	-0.01696 0.8435 138
APXPS	0.13058 0.1269 138	-0.10605 0.2157 138	0.01899 0.8251 138	-0.07879 0.3583 138	-0.12553 0.1439 137	0.08982 0.2948 138	0.03829 0.6559 138	-0.10781 0.2185 138	0.02459 0.7747 138	0.02264 0.7921 138	0.00938 0.9131 138	0.07663 0.3717 138	-0.18727 0.0278 138
BSAN	0.11705 0.1715 138	0.18968 0.0259 138	0.32130 0.0001 138	-0.25861 0.0022 138	-0.23166 0.0065 137	0.24173 0.0043 138	0.05143 0.5492 138	-0.09068 0.2898 138	0.01345 0.8756 138	-0.05290 0.5377 138	0.04604 0.5918 138	0.10721 0.2107 138	-0.24176 0.0043 138
BSPS	0.16247 0.0569 138	0.03619 0.6734 138	0.32527 0.0001 138	0.25241 0.0028 138	-0.23223 0.0063 137	0.36036 0.9001 138	0.13372 0.1179 138	-0.02079 0.8087 138	0.05847 0.4958 138	0.00554 0.9486 138	0.04113 0.6319 138	0.16919 0.0473 138	-0.22408 0.0082 138
BVINS	0.12715 0.1372 138	0.36890 0.0001 138	0.13239 0.1218 138	-0.31128 0.0008 138	-0.08672 0.8533 137	0.04074 0.6352 138	0.11668 0.1729 138	0.08611 0.8913 138	-0.06289 0.4637 138	-0.01544 0.8574 138	-0.05715 0.5055 138	-0.01021 0.9054 138	-0.09169 0.2848 138
NSECV	0.11749 0.1699 138	0.30240 0.0003 138	0.12982 0.1297 138	0.21117 0.0129 138	0.16361 0.0561 137	-0.01354 0.8110 138	-0.09900 0.2480 138	0.81209 0.0129 138	-0.01018 0.9057 138	0.00771 0.9285 138	-0.14802 0.0832 138	-0.04870 0.5705 138	0.19817 0.0198 138
PINSV	-0.08836 0.6888 136	0.05335 0.8343 136	-0.03945 0.6460 136	0.05575 0.5160 136	0.21839 0.0104 135	-0.30569 0.0003 136	-0.11452 0.1811 136	0.02555 0.7661 136	-0.30706 0.0002 136	-0.11761 0.1695 136	-0.24676 0.0035 136	-0.17079 0.0452 136	0.29479 0.0004 136
PTLLN	0.15585 0.0680 136	-0.04994 0.5608 136	0.11076 0.1959 136	0.27401 0.0011 136	-0.10651 0.2154 135	0.36043 0.0020 136	-0.02481 0.7727 136	0.00155 0.9856 136	0.04839 0.5730 136	-0.04658 0.5875 136	0.07336 0.3925 136	0.07421 0.3870 136	-0.17587 0.0391 136
TNTLN	0.06483 0.4500 138	-0.01472 0.8640 138	-0.03167 0.7123 138	-0.09437 0.2711 138	0.07641 0.3748 137	-0.08939 0.8187 138	-0.05395 0.5297 138	-0.13232 0.1218 138	-0.09163 0.2851 138	-0.06200 0.4700 138	-0.08271 0.3348 138	0.06870 0.4233 138	0.10054 0.2407 138



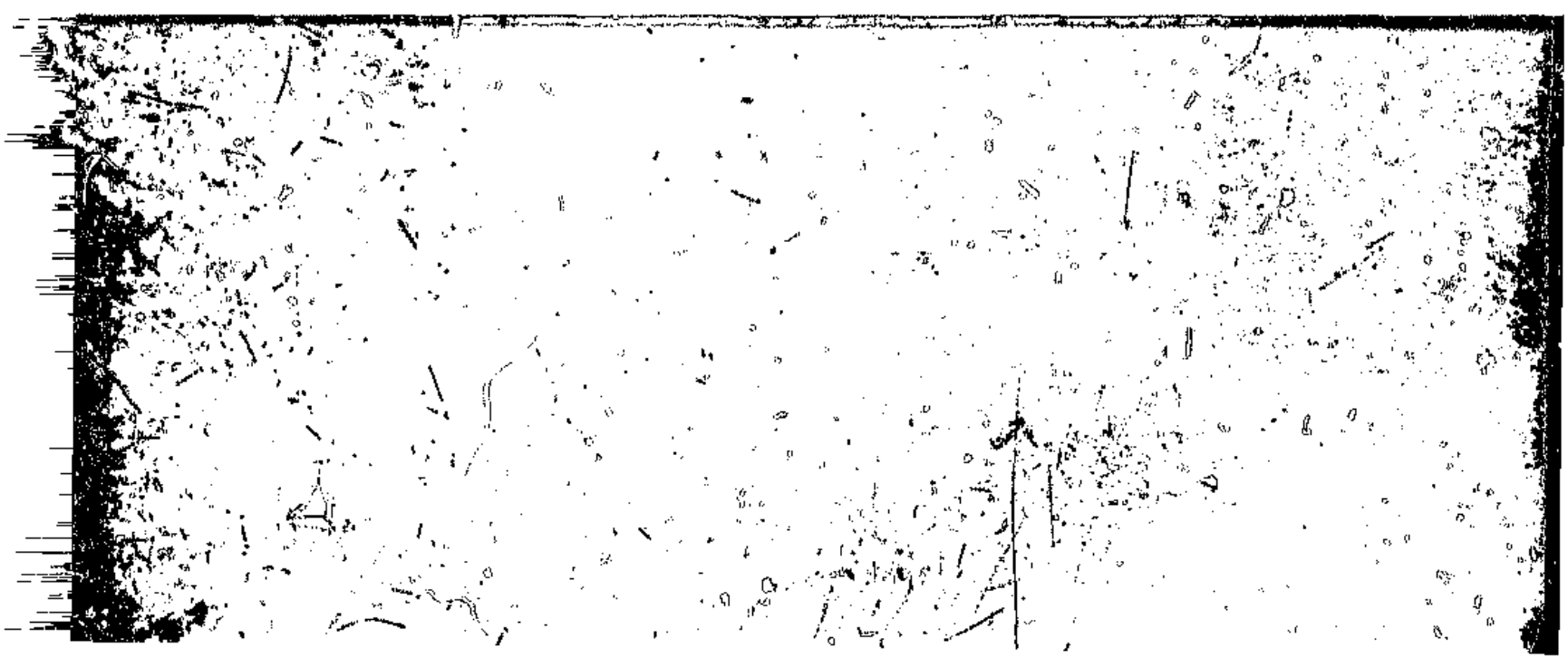
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	CRMWD	VANGS	VANGB	SHTNL	NMNOFND	IBLWR	OBLWR	INVLWR	CALLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
NBR	0.25301 0.0028 138	0.11341 0.1854 138	0.30493 0.0003 138	-0.19945 0.0190 138	-0.63224 0.0001 137	0.64794 0.0001 138	0.19897 0.0193 138	0.06779 0.4295 138	0.37497 0.0001 138	0.24741 0.0034 138	0.45749 0.0001 138	0.13693 0.1104 138	-0.68678 0.0001 138
IBRL	0.37189 0.0001 138	0.00273 0.9747 138	0.26983 0.0014 138	-0.05373 0.5313 138	-0.71384 0.0001 137	0.82886 0.0001 138	0.27681 0.0009 138	0.01607 0.8516 138	0.35507 0.0001 138	0.14681 0.0858 138	0.24847 0.0001 138	0.36222 0.0001 138	-0.80471 0.0001 138
OBRL	0.27706 0.0010 138	-0.04950 0.5642 138	0.30206 0.0003 138	-0.04384 0.6096 138	-0.68541 0.0001 137	0.71838 0.0001 138	0.32227 0.0001 138	-0.08613 0.3152 138	0.40341 0.0001 138	0.17135 0.0445 138	0.49022 0.0001 138	0.38369 0.0001 138	-0.76228 0.0001 138
IBRW	0.87717 0.0001 138	0.00245 0.9772 138	0.21054 0.0132 138	-0.21681 0.0106 138	-0.51051 0.0001 137	0.18042 0.0342 138	-0.02583 0.7637 138	-0.14236 0.0958 138	0.23986 0.0046 138	[illegible]	0.24940 0.0032 138	0.11732 0.1708 138	-0.57565 0.0001 138
OBRW	0.22828 0.0071 138	0.02151 0.8023 138	0.29839 0.0004 138	-0.07939 0.3546 138	-0.61834 0.0001 137	0.60042 0.0001 138	-0.11327 0.1859 138	-0.04289 0.6174 138	0.36435 0.0001 138	0.18061 0.0340 138	0.50857 0.0001 138	0.30931 0.0002 138	-0.69634 0.0001 138
INMXL	0.35154 0.0001 138	0.03413 0.6911 138	0.30169 0.0003 138	-0.05058 0.5558 138	-0.71459 0.0001 137	0.77653 0.0001 138	0.27411 0.0011 138	0.04836 0.5731 138	0.33823 0.0001 138	0.16644 0.0510 138	0.46427 0.0001 138	0.35529 0.0001 138	-0.75982 0.0001 138
INMXW	0.37121 0.0001 138	-0.03366 0.6951 138	0.26514 0.0017 138	-0.03747 0.6626 138	-0.68492 0.0001 137	0.70057 0.0001 138	0.27972 0.0009 138	-0.29726 0.0004 138	0.26373 0.0018 138	0.05867 0.4943 138	0.36287 0.0001 138	0.38824 0.0001 138	-0.70985 0.0001 138
PMXL	0.24164 0.0043 138	0.07358 0.3911 138	0.25690 0.0024 138	-0.19269 0.0236 138	-0.66381 0.0001 137	0.56250 0.0001 138	0.20353 0.0167 138	0.00550 0.9489 138	0.45990 0.0001 138	0.22961 0.0067 138	0.50875 0.0001 138	0.25884 0.0022 138	-0.64466 0.0001 138
LBRP	0.29964 0.0004 138	0.81661 0.8467 138	0.20435 0.0162 138	-0.07034 0.4123 138	-0.59969 0.0001 137	0.54888 0.0001 138	0.21013 0.0134 138	0.04108 0.6324 138	0.35459 0.0001 138	0.65502 0.5215 138	0.40918 0.0001 138	0.25434 0.0026 138	-0.66351 0.0001 138
NFLOR	0.20072 0.0182 138	-0.08486 0.3224 138	0.20525 0.0157 138	0.03217 0.7080 138	-0.68475 0.0001 137	0.71112 0.0001 138	0.30694 0.0003 138	-0.21551 0.0111 138	0.30358 0.0003 138	0.16429 0.0305 138	0.46454 0.0001 138	0.45195 0.0001 138	-0.88343 0.0001 138
CORLLN	0.10940 0.2015 138	0.06437 0.4532 138	0.31062 0.0002 138	-0.19929 0.0191 138	-0.57179 0.0001 137	0.40567 0.0001 138	0.12934 0.1305 138	0.18082 0.0338 138	0.82703 0.0001 138	0.89791 0.0001 138	0.61659 0.0001 138	0.10521 0.2194 138	-0.42552 0.0001 138
CORLWD	0.45615 0.0001 138	0.10840 0.2057 138	0.18219 0.0325 138	-0.11658 0.1733 138	-0.10904 0.2047 137	0.07739 0.3670 138	0.00666 0.9382 138	0.00658 0.9390 138	-0.32332 0.0001 138	-0.22594 0.0077 138	-0.11517 0.1786 138	-0.09032 0.2921 138	-0.16260 0.0567 138
CORTWD	0.53004 0.0001 138	-0.07712 0.3687 138	0.20616 0.0153 138	-0.18689 0.0288 138	-0.61229 0.0001 137	0.48888 0.0001 138	0.19195 0.0241 138	-0.12690 0.1380 138	0.22900 0.0069 138	-0.27810 0.0010 138	0.14870 0.0998 138	0.24570 0.0037 138	-0.63602 0.0001 138



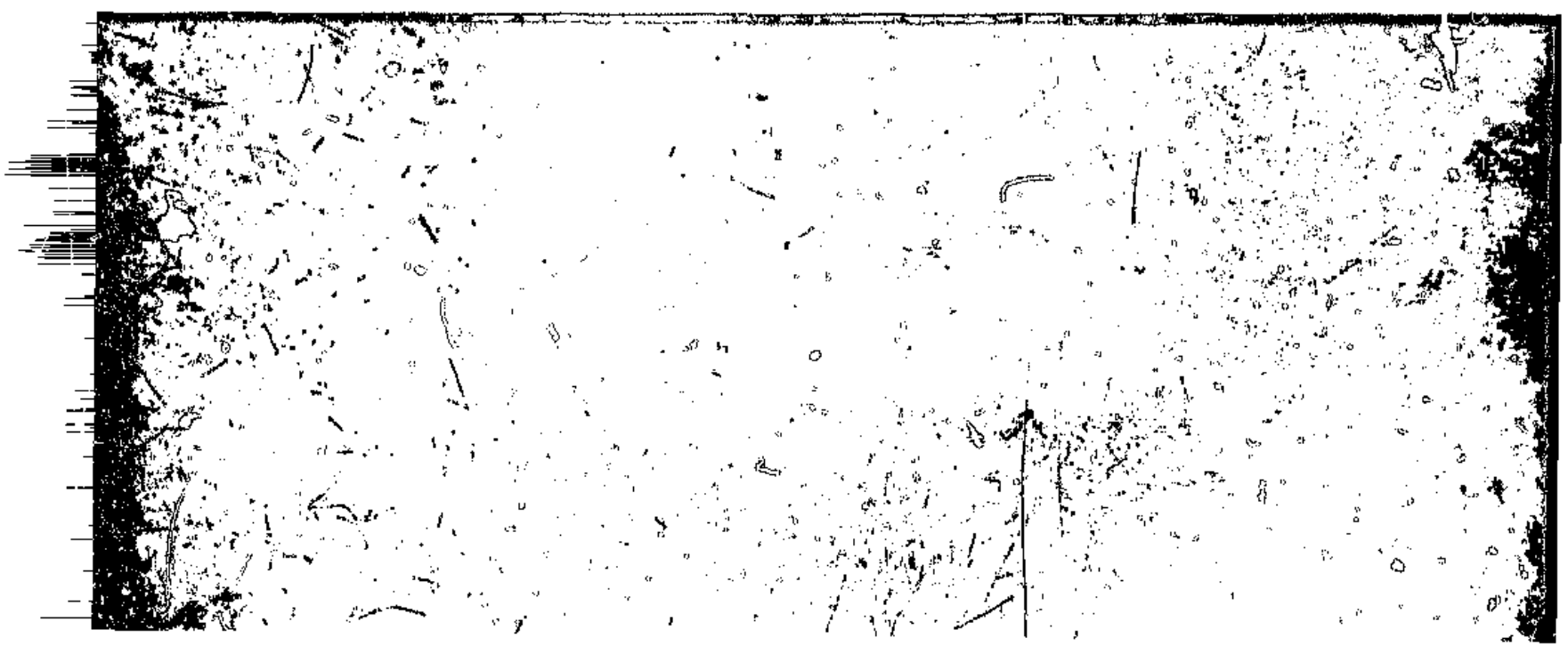
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	CRMNWD	VANGS	VANGB	SHINL	NWNDFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
LCTPFA	0.11446 0.1013 138	0.04600 0.5921 138	0.61115 0.0001 138	-0.17656 0.0383 138	-0.37811 0.0001 137	0.64259 0.0001 138	0.22239 0.0088 138	0.08304 0.3329 138	0.58237 0.0001 138	0.56899 0.0001 138	0.75978 0.0001 138	0.39113 0.0001 138	-0.56837 0.0001 138
INFW	0.12615 0.1404 138	-0.11322 0.1861 138	0.22797 0.0072 138	-0.09416 0.2720 138	-0.68101 0.0001 137	0.63562 0.0001 138	0.22416 0.0082 138	-0.10559 0.2177 138	0.47909 0.0001 138	0.43025 0.0001 138	0.62358 0.0001 138	0.40204 0.0001 138	-0.33950 0.0001 138
INFL	0.26563 0.0016 138	0.03454 0.6876 138	0.30096 0.0003 138	-0.11799 0.1681 138	-0.72535 0.0001 137	0.72029 0.0001 138	0.24864 0.0014 138	0.06575 0.4436 138	0.45417 0.0001 138	0.31055 0.0002 138	0.59854 0.0001 138	0.42610 0.0001 138	-0.67808 0.0001 138
PAPMXLN	0.22863 0.0070 138	0.01464 0.8647 138	0.31976 0.0001 138	-0.13995 0.1016 138	-0.70936 0.0001 137	0.71587 0.0001 138	0.21724 0.0105 138	0.08082 0.3478 138	0.55367 0.0001 138	0.39410 0.0001 138	0.67827 0.0001 138	0.33930 0.0001 138	-0.68880 0.0001 138
TFLLN	0.10358 0.2267 138	0.04494 0.6007 138	0.30747 0.0002 138	-0.17536 0.0397 138	-0.87858 0.0001 137	0.63541 0.0001 138	0.20519 0.0158 138	0.37885 0.3580 138	0.01071 0.0001 138	0.51087 0.0001 138	0.77544 0.0001 138	0.38031 0.0001 138	-0.54400 0.0001 138
FMXLN	-0.00082 0.9978 138	0.00379 0.9646 138	0.30290 0.0003 138	-0.19315 0.0232 138	-0.58110 0.0001 137	0.50780 0.0001 138	0.17412 0.0411 138	0.08052 0.3478 138	0.65519 0.0001 138	0.44483 0.0001 138	0.30594 0.0001 138	0.20717 0.0148 138	-0.47232 0.0001 138
AMXLN	0.20994 0.0135 138	0.02597 0.7624 138	0.34609 0.0001 138	-0.16923 0.0472 138	-0.65204 0.0001 137	0.62976 0.0001 138	0.24223 0.0042 138	0.04814 0.5750 138	0.61119 0.0001 138	0.37021 0.0001 138	0.61948 0.0001 138	0.32772 0.0001 138	-0.60280 0.0001 138
RTMXLN	0.09983 0.2440 138	0.06116 0.4759 138	0.32827 0.0001 138	-0.17905 0.0356 138	-0.67176 0.0001 137	0.63145 0.0001 138	0.20742 0.0146 138	0.10787 0.2079 138	0.61955 0.0001 138	0.51654 0.0001 138	0.78163 0.0001 138	0.35664 0.0001 138	-0.54819 0.0001 138
STMXLOL	0.12071 0.1584 138	0.13953 0.1027 138	0.26966 0.0014 138	-0.17571 0.0393 138	-0.19125 0.0252 137	0.09471 0.0692 138	0.08869 0.3010 138	0.30748 0.0002 138	0.35436 0.0001 138	0.24307 0.0041 138	0.27553 0.0011 138	-0.63488 0.0001 138	-0.27248 0.0002 138
VACMXLN	-0.01138 0.8946 138	-0.14289 0.0945 138	-0.19930 0.0191 138	0.05944 0.4886 138	-0.06204 0.0020 137	0.20119 0.0180 138	0.10743 0.2098 138	-0.31440 0.0002 138	0.06041 0.4815 138	0.03404 0.6916 138	0.10148 0.2363 138	0.46387 0.0001 138	-0.04809 0.5754 138
CRMXLN	0.16221 0.0573 138	0.04096 0.6334 138	0.84626 0.0001 138	-0.17803 0.0367 138	-0.30530 0.0001 137	0.66397 0.0001 138	0.23500 0.0055 138	0.10349 0.2271 138	0.63448 0.0001 138	0.51478 0.0001 138	0.36750 0.0001 138	0.34530 0.0001 138	-0.83741 0.0001 138
CRMXWD	0.58887 0.0001 138	-0.07630 0.3737 138	0.16190 0.0578 138	-0.12104 0.1573 138	-0.51518 0.0001 137	0.41822 0.0001 138	0.15408 0.0712 138	-0.06512 0.4480 138	0.31610 0.0109 138	-0.42423 0.0001 138	0.11698 0.1718 138	0.11046 0.1911 138	-0.65712 0.0001 138
CRMNWD	1.00000 0.0000 138	0.03827 0.6559 138	0.12623 0.1401 138	-0.00825 0.9235 138	-0.21065 0.0135 137	0.18803 0.0272 138	0.08130 0.2431 138	-0.01645 0.8481 138	-0.08364 0.3294 138	-0.38138 0.0001 138	-0.45477 0.0001 138	-0.13474 0.1151 138	-0.36364 0.0001 138



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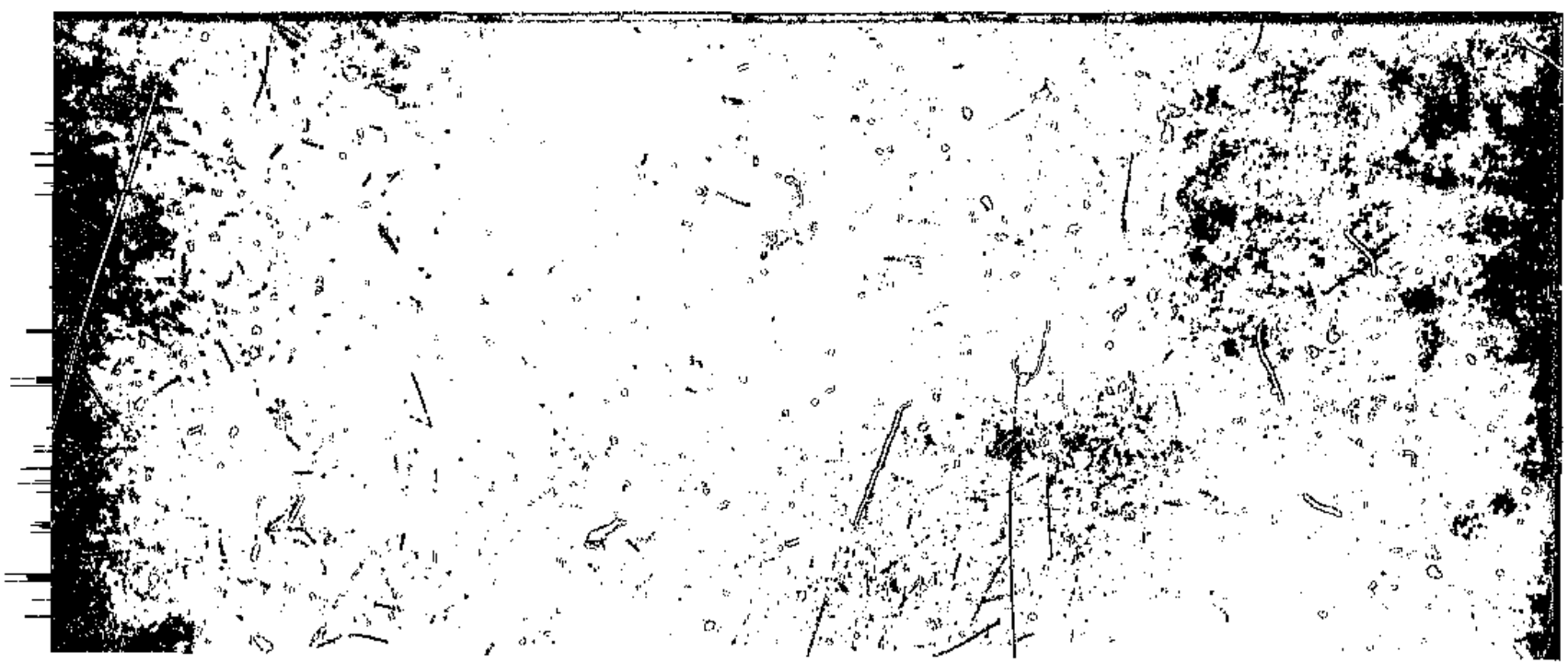
	CRMNWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
VANGS	0.03827 0.6559 138	1.00000 0.0000 138	0.28593 0.0007 138	-0.24378 0.0040 138	0.03744 0.6640 137	-0.01685 0.8445 138	-0.01972 0.8184 138	0.16383 0.0549 138	-0.00367 0.9659 138	0.09947 0.2457 138	0.02948 0.7315 138	-0.10058 0.2405 138	0.07485 0.3829 138
VANGB	0.12623 0.1401 138	0.28593 0.0007 138	1.00000 0.0000 138	-0.15099 0.0771 138	-0.29198 0.0005 137	0.28190 0.0008 138	0.13811 0.1062 138	0.10655 0.2135 138	0.25513 0.0025 138	0.19741 0.0203 138	0.26796 0.0015 138	-0.03950 0.6455 138	-0.27316 0.0012 138
SHINL	-0.00825 0.9235 138	-0.24378 0.0040 138	-0.15099 0.0771 138	1.00000 0.0000 138	0.09022 0.2945 137	0.05592 0.5147 138	-0.06588 0.4426 138	0.01990 0.8168 138	-0.13631 0.0671 138	-0.06907 0.4209 138	-0.16602 0.0516 138	0.03487 0.6848 138	0.09588 0.2633 138
NWNOFHD	-0.21065 0.0135 137	0.03744 0.6640 137	-0.29198 0.0005 137	0.09022 0.2945 137	1.00000 0.0000 137	-0.62316 0.0001 137	-0.24474 0.0039 137	0.05246 0.5427 137	-0.48521 0.0001 137	-0.19900 0.0197 137	-0.09598 0.2701 137	-0.30213 0.0003 137	0.61160 0.0001 137
IBLWR	0.18803 0.0272 138	-0.01685 0.8445 138	0.28190 0.0008 138	0.05592 0.5147 138	-0.62316 0.0001 137	1.00000 0.0000 138	0.40061 0.0001 138	0.08524 0.3202 138	0.33722 0.0001 138	0.28051 0.0009 138	0.47799 0.0001 138	0.39485 0.0001 138	-0.67433 0.0001 138
OBLWR	0.08130 0.3431 138	-0.01972 0.8184 138	0.13811 0.1062 138	-0.06588 0.4426 138	-0.24474 0.0039 137	0.40061 0.0001 138	1.00000 0.0000 138	0.08498 0.3217 138	0.15109 0.0769 138	0.07565 0.3778 138	0.13413 0.1168 138	0.08370 0.3291 138	-0.21798 0.0102 138
INVLWR	-0.01645 0.8401 138	0.16382 0.0549 138	0.10655 0.2135 138	0.01990 0.8168 138	0.05246 0.5427 137	0.08524 0.3202 138	0.08498 0.3217 138	1.00000 0.0000 138	0.18696 0.0281 138	0.15503 0.0694 138	0.09375 0.2741 138	-0.26980 0.0014 138	-0.01269 0.8825 138
CRLLWR	-0.08364 0.3894 138	-0.00367 0.9659 138	0.25513 0.0025 138	-0.13631 0.0671 138	-0.48521 0.0001 137	0.33722 0.0001 138	0.15109 0.0769 138	0.18696 0.0281 138	1.00000 0.0000 138	0.46631 0.0001 138	0.61961 0.0001 138	0.11624 0.1746 138	-0.32616 0.0001 138
CORLWR	-0.08138 0.3801 138	0.09947 0.2457 138	0.19741 0.0203 138	-0.06907 0.4209 138	-0.19900 0.0197 137	0.28051 0.0009 138	0.07565 0.3778 138	0.15503 0.0694 138	0.46631 0.0001 138	1.00000 0.0000 138	0.67621 0.0001 138	0.22356 0.0084 138	-0.07701 0.3693 138
CORLMWR	-0.45877 0.0001 138	0.02948 0.7315 138	0.26796 0.0015 138	-0.16602 0.0516 138	-0.09598 0.0001 137	0.47799 0.0001 138	0.13413 0.1168 138	0.09375 0.2741 138	0.61961 0.0001 138	0.67621 0.0001 138	1.00000 0.0000 138	0.37266 0.0001 138	-0.37312 0.0001 138
STLLBR	-0.13474 0.1151 138	-0.10058 0.2405 138	-0.03950 0.6455 138	0.03487 0.6848 138	-0.30213 0.0003 137	0.39485 0.0001 138	0.08370 0.3291 138	-0.26980 0.0014 138	0.11624 0.1746 138	0.22356 0.0084 138	0.37266 0.0001 138	1.00000 0.0000 138	-0.15361 0.0720 138
TFLPLR	-0.16364 0.0001 138	0.07485 0.3829 138	-0.27316 0.0012 138	0.09588 0.2633 138	0.61160 0.0001 137	-0.67433 0.0001 138	-0.21798 0.0102 138	-0.01269 0.8825 138	-0.32616 0.0001 138	-0.07701 0.3693 138	-0.37312 0.0001 138	-0.15361 0.0720 138	1.00000 0.0000 138
INFLWR	0.23162 0.0063 138	0.17039 0.0457 138	0.09126 0.2871 138	0.02115 0.8055 138	0.08951 0.2983 137	0.00779 0.9277 138	0.05670 0.5089 138	0.43726 0.0001 138	-0.05624 0.5124 138	-0.27149 0.0013 138	-0.16298 0.0561 138	-0.26126 0.0020 138	-0.11006 0.1988 138



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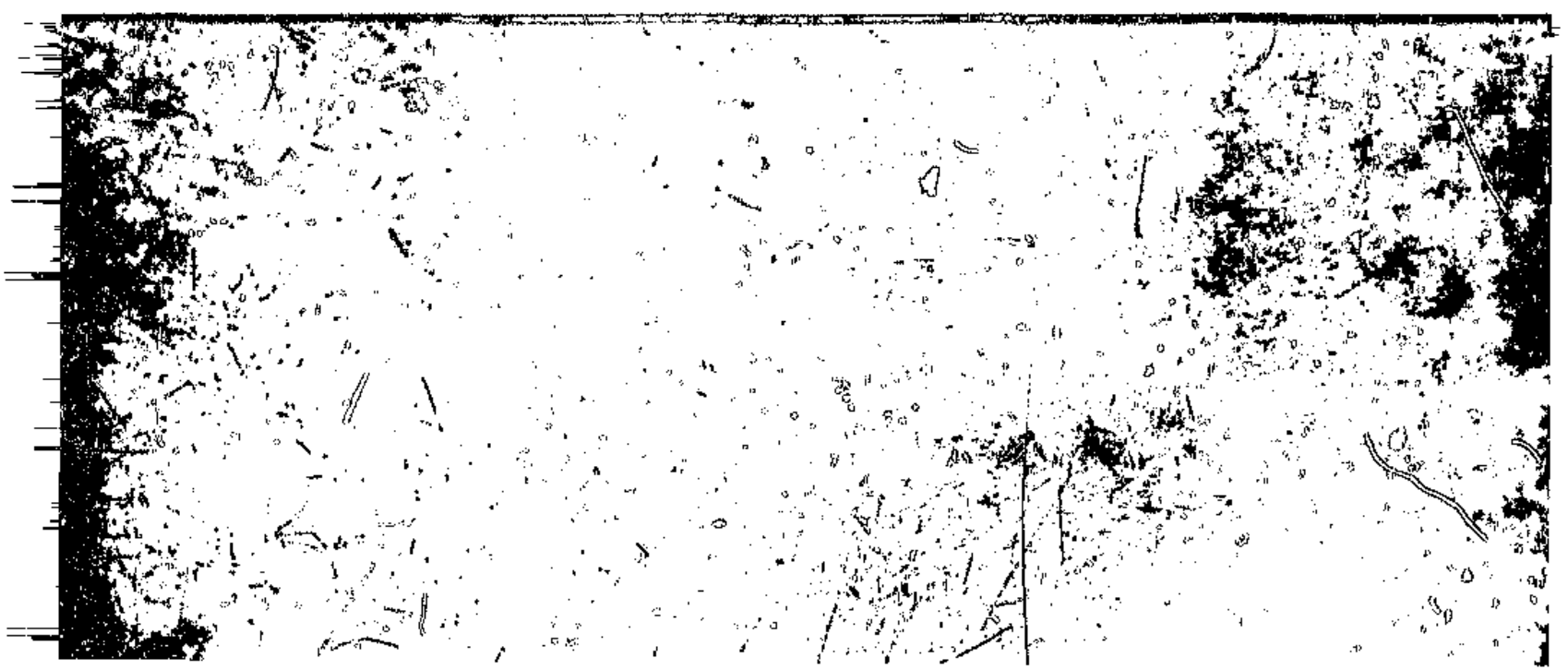
	CRMNWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR
LRNFHR	0.24063 0.0046 137	-0.01609 0.8520 137	0.26634 0.0017 137	-0.07522 0.3823 137	-0.90224 0.0001 137	0.87629 0.0001 137	0.23116 0.0066 137	-0.02741 0.7505 137	0.50143 0.0001 137	0.26903 0.0015 137	0.57160 0.0001 137	0.15040 0.0001 137	-0.66517 0.0001 137
ALFMLR	0.12559 0.1422 138	-0.00631 0.9414 138	-0.15113 0.0768 138	0.13964 0.1024 138	0.26369 0.0008 137	-0.25430 0.0026 138	-0.09530 0.2662 138	-0.06113 0.4763 138	-0.29886 0.0004 138	-0.34644 0.0001 138	-0.46639 0.0001 138	-0.03101 0.7180 138	0.15681 0.0662 138
LCPFCLR	-0.14326 0.0937 138	0.02842 0.7407 138	0.03368 0.6949 138	-0.06001 0.4845 138	-0.23512 0.0057 137	0.25054 0.0030 138	0.04190 0.6256 138	-0.05258 0.5402 138	0.08828 0.3032 138	0.48615 0.0001 138	0.38821 0.0001 138	0.34861 0.0001 138	-0.11317 0.1863 138

	INFLWR	LRNFHR	ALFMLR	LCPFCLR
RACMLEN	-0.08317 0.3157 137	-0.12574 0.1432 137	0.12246 0.1540 137	0.04211 0.6251 137
INTNDLN	-0.06949 0.4826 137	0.11816 0.1691 137	-0.04372 0.6120 137	0.13371 0.1193 137
LNWDRL	-0.11321 0.1861 138	-0.14321 0.0950 137	0.09721 0.2566 138	-0.01279 0.8817 138
MXLNL	-0.05059 0.5557 138	-0.80738 0.0003 137	0.17200 0.0437 138	-0.02379 0.7818 138
MXWDL	0.03792 0.6588 138	-0.18481 0.0306 137	0.12948 0.1301 138	-0.04379 0.6101 138
APXAM	-0.05363 0.5322 138	0.11170 0.1938 137	-0.09470 0.2692 138	0.01684 0.8446 138
APXPS	-0.06909 0.4207 138	0.07276 0.3981 137	0.02993 0.7275 138	0.05890 0.4926 138
BSAN	0.10337 0.2276 138	0.17703 0.0385 137	0.07346 0.3918 138	0.02634 0.7591 138
BSPS	0.10398 0.2249 138	0.19166 0.0249 137	0.09312 0.2773 138	0.07215 0.4004 138
SVINS	0.17843 0.0363 138	-0.00332 0.9693 137	0.11864 0.1658 138	-0.00515 0.9522 138



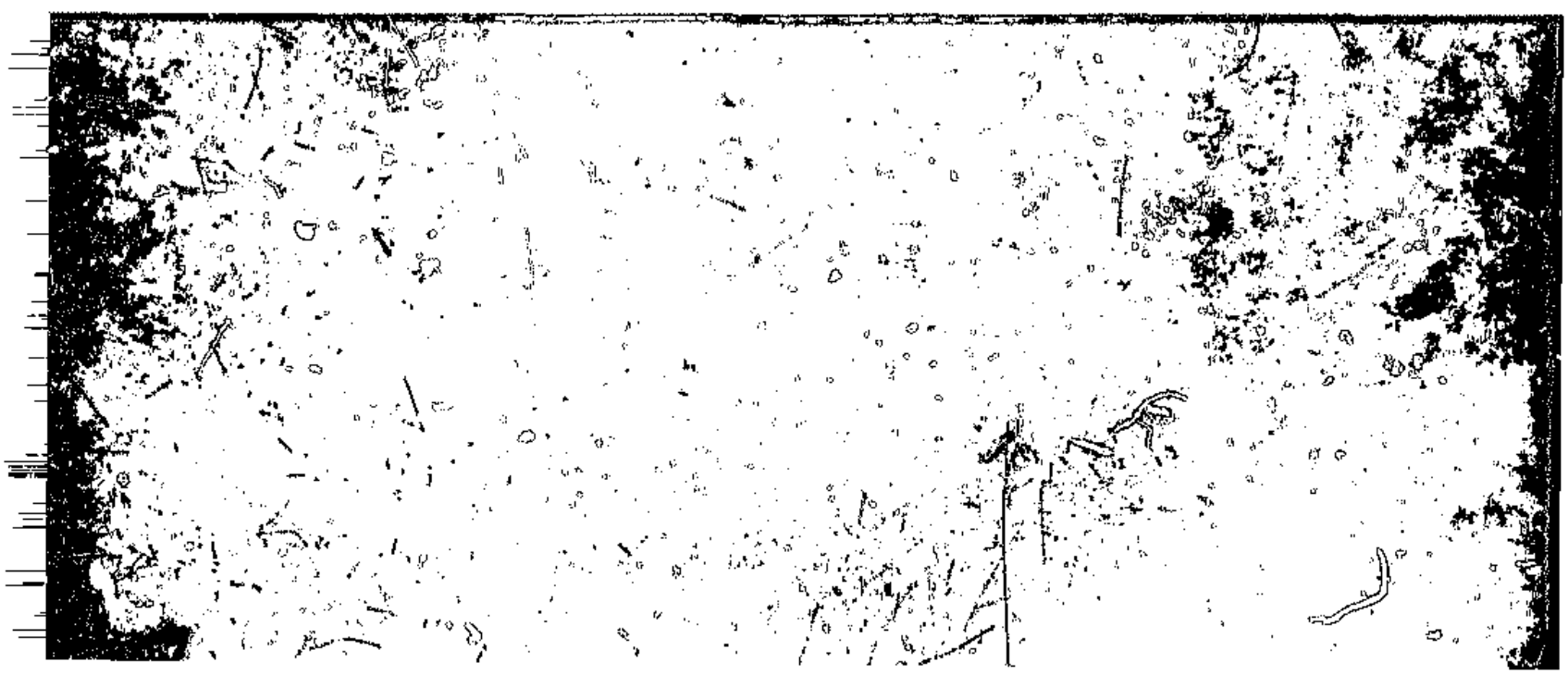
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	INFLWR	LANFHR	ALFMLR	LCPFCLR
NSECV	0.16474 0.0535 138	-0.16687 0.0513 137	0.20132 0.0162 138	-0.06769 0.4302 138
PINSV	0.03555 0.6789 138	-0.26200 0.0020 137	0.09860 0.2499 138	-0.04271 0.6189 138
PTLLN	0.02931 0.7329 138	0.17120 0.0455 137	-0.08496 0.3218 138	-0.01597 0.8525 138
INTLN	-0.06948 0.4180 138	-0.01792 0.8354 137	0.03993 0.6419 138	0.01934 0.8219 138
XBR	0.09686 0.2584 138	0.73840 0.0001 137	-0.27544 0.0011 138	0.23415 0.0057 138
IBRL	0.14734 0.0846 138	0.80480 0.0001 137	-0.17302 0.0424 138	0.24919 0.0032 138
OBRL	-0.00736 0.9318 138	0.77884 0.0001 137	-0.23048 0.0065 138	0.23462 0.0056 138
IBRW	0.15263 0.0739 138	0.57626 0.0001 137	-0.06057 0.4804 138	0.08787 0.3054 138
OBRW	-0.00714 0.9338 138	0.71859 0.0001 137	-0.27036 0.0093 138	0.22603 0.0077 138
INMXL	0.14700 0.0853 138	0.81678 0.0001 137	-0.16061 0.0599 138	0.29665 0.0004 138
INMXW	0.03171 0.7120 138	0.76841 0.0001 137	-0.13208 0.1225 138	0.22213 0.0088 138
PMXL	-0.05850 0.4955 138	0.88188 0.0001 137	-0.28121 0.0008 138	0.20271 0.0171 138
LBRP	0.04464 0.6031 138	0.88188 0.0001 137	-0.18088 0.0338 138	0.10687 0.2122 138



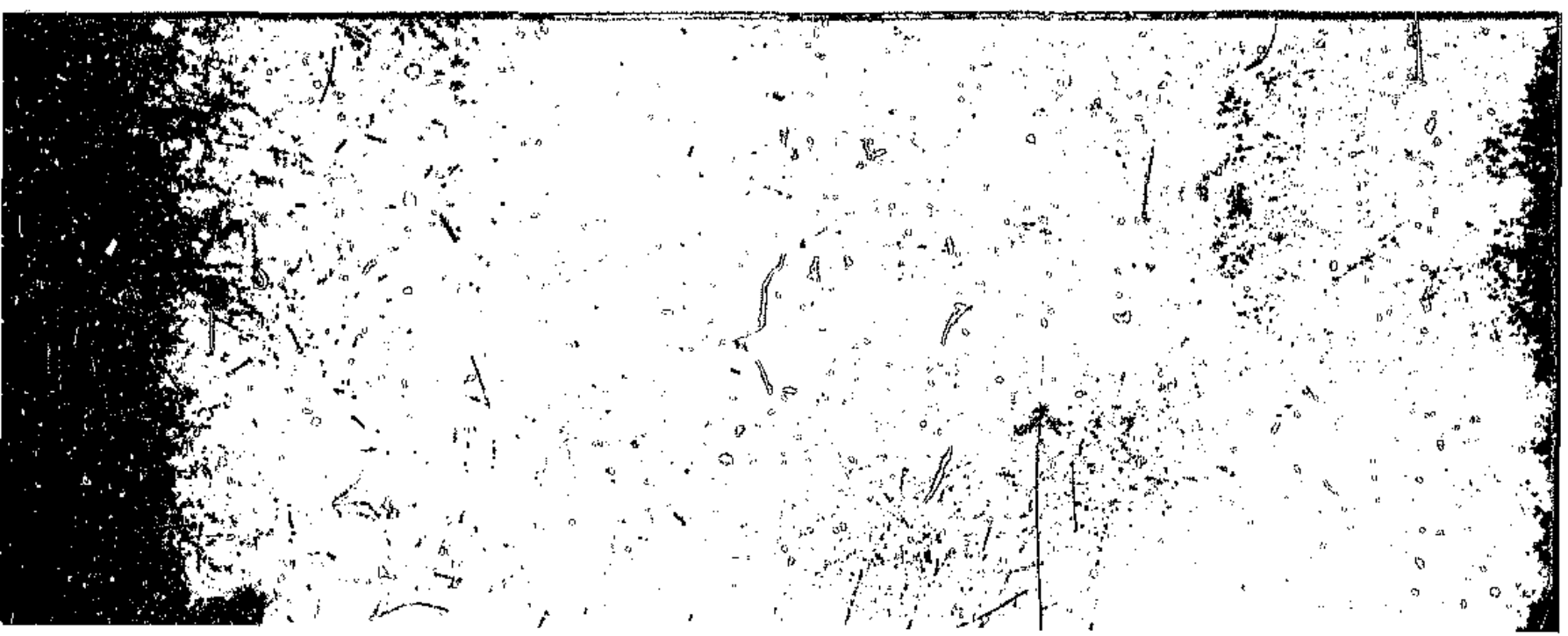
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	INFLWR	LRNFHR	ALFMLR	LGPFGLR
NFLOR	-0.07987 0.3517 138	0.74315 0.0001 137	-0.14699 0.0854 138	0.28146 0.0008 138
CORLLN	-0.07621 0.3743 138	0.63100 0.0001 137	-0.45280 0.0001 138	0.07906 0.3567 138
CORLWD	0.05169 0.5471 138	0.16128 0.0597 137	-0.28172 0.0029 138	-0.12231 0.1530 138
CORTWD	0.12039 0.1596 138	0.83802 0.0001 137	-0.12955 0.1299 138	0.00409 0.9620 138
LGTPFA	-0.05501 0.5216 138	0.79089 0.0001 137	-0.41397 0.0001 138	0.50205 0.0001 138
INFW	-0.39780 0.0001 138	0.78382 0.0001 137	-0.85722 0.0001 138	0.34539 0.0001 138
INFL	0.89756 0.2550 138	0.84449 0.0001 137	-0.83228 0.0061 138	0.33703 0.0001 138
PAPMXLN	0.04236 0.6218 138	0.82483 0.0001 137	-0.38783 0.0002 138	0.30254 0.0003 138
TFLLN	-0.05032 0.5578 138	0.79880 0.0001 137	-0.41410 0.0001 138	0.86566 0.0001 138
FMXLN	-0.18623 0.0287 138	0.68487 0.0001 137	-0.79911 0.0001 138	0.18588 0.0291 138
AMXLN	-0.83445 0.6883 138	0.74624 0.0001 137	-0.15351 0.0722 138	0.18608 0.0675 138
STMXLN	-0.04326 0.6144 138	0.78393 0.0001 137	-0.83367 0.0001 138	0.86884 0.0001 138
STMXLOL	0.18097 0.0337 138	0.24112 0.0045 137	-0.29208 0.0005 138	-0.03351 0.6964 138



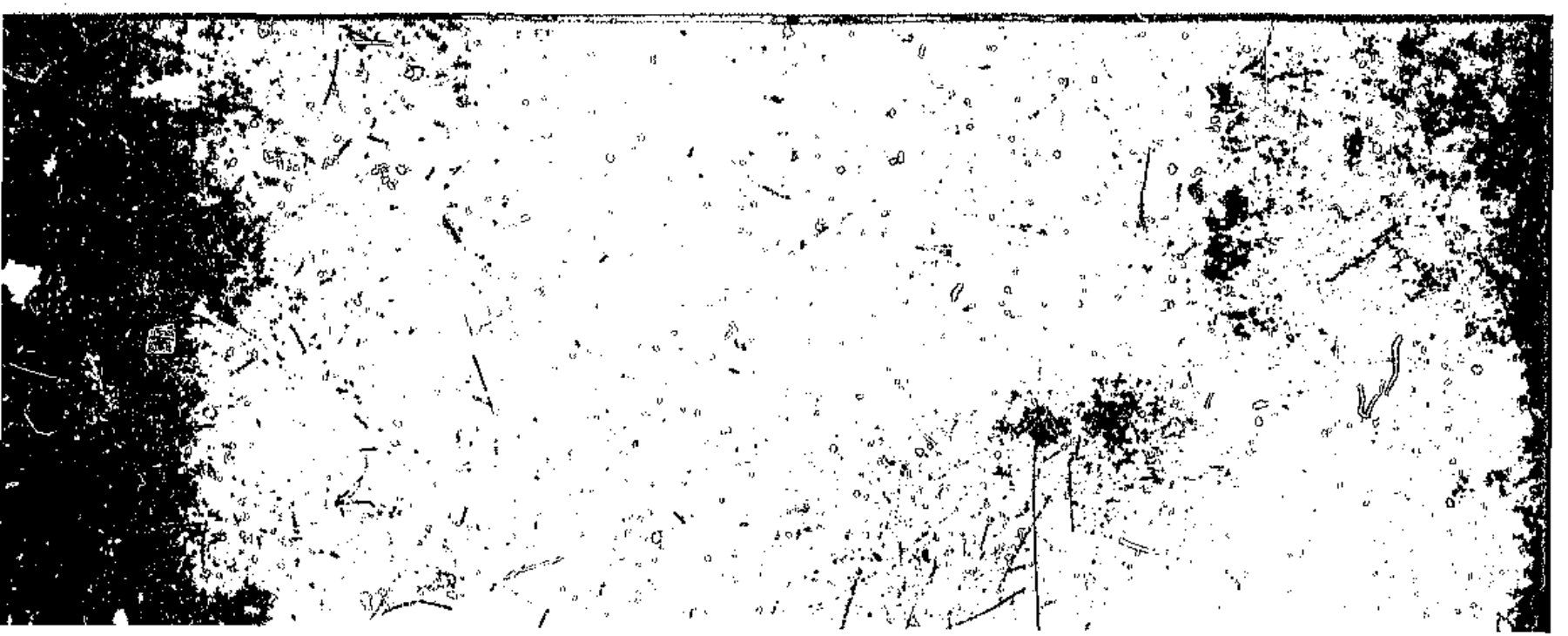
SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INFLWR	LRNFHR	ALFNLR	LCFFCLR
VACMXLN	-0.12924 0.1308 138	0.87076 0.0014 137	0.19813 0.0198 138	0.18229 0.0324 138
CRMXLN	-0.03480 0.6853 138	0.81658 0.0001 137	-0.42208 0.0001 138	0.37369 0.0001 138
CRMXWD	0.24528 0.0037 138	0.. 1493 0.0001 137	-0.86713 0.4340 138	-0.10830 0.2061 138
CRMNWD	0.23162 0.0063 138	0.84063 0.0046 137	0.12559 0.1422 138	-0.14326 0.0931 138
VANGS	0.17039 0.0457 138	-0.81609 0.8520 137	-0.00631 0.9414 138	0.02842 0.7407 138
VANGB	0.09126 0.2871 138	0.26634 0.0017 137	-0.15113 0.0768 138	0.03368 0.6949 138
SHINL	0.62115 0.8055 138	-0.07522 0.3823 137	0.13964 0.1024 138	-0.06001 0.4845 138
NWNOFND	0.08951 0.2983 137	-0.90224 0.0001 137	0.28369 0.0008 137	-0.23512 0.0057 137
IBLWR	0.00779 0.9277 138	0.67629 0.0001 137	-0.25430 0.0026 138	0.25054 0.0030 138
OBLWR	0.05670 0.5089 138	0.23116 0.0066 137	-0.09530 0.2562 138	0.04190 0.6256 138
INVLWR	0.43726 0.0001 138	-0.02741 0.7505 137	-0.06113 0.4763 138	-0.05258 0.5402 138
CRLLWR	-0.05624 0.5124 138	0.00143 0.0001 137	-0.29886 0.0004 138	0.06828 0.4032 138
CORLWR	-0.27149 0.0013 138	0.86903 0.0015 137	-0.34844 0.0001 138	0.46615 0.0001 138



SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	INFLWR	LRNFHR	ALFMLR	LCPFCLR
CORLMWR	-0.16298 0.0561 138	0.57160 0.0001 137	-0.86639 0.0001 138	0.88821 0.0001 138
STLLBR	-0.26126 0.0020 138	0.35040 0.0001 137	-0.03101 0.7160 138	0.34861 0.0001 138
TFLPLR	-0.11086 0.1986 138	-0.66517 0.0001 137	0.15681 0.0662 138	-0.11317 0.1863 138
INFLWR	1.00000 0.0000 138	-0.06974 0.4181 137	0.25259 0.0028 138	-0.14754 0.0842 138
LRNFHR	-0.06974 0.4181 137	1.00000 0.0000 137	-0.30218 0.0003 137	0.30312 0.0003 137
ALFMLR	0.25259 0.0028 138	-0.30218 0.0003 137	1.00000 0.0000 138	-0.13409 0.1169 138
LCPFCLR	-0.14754 0.0842 138	0.30312 0.0003 137	-0.13409 0.1169 138	1.00000 0.0000 138



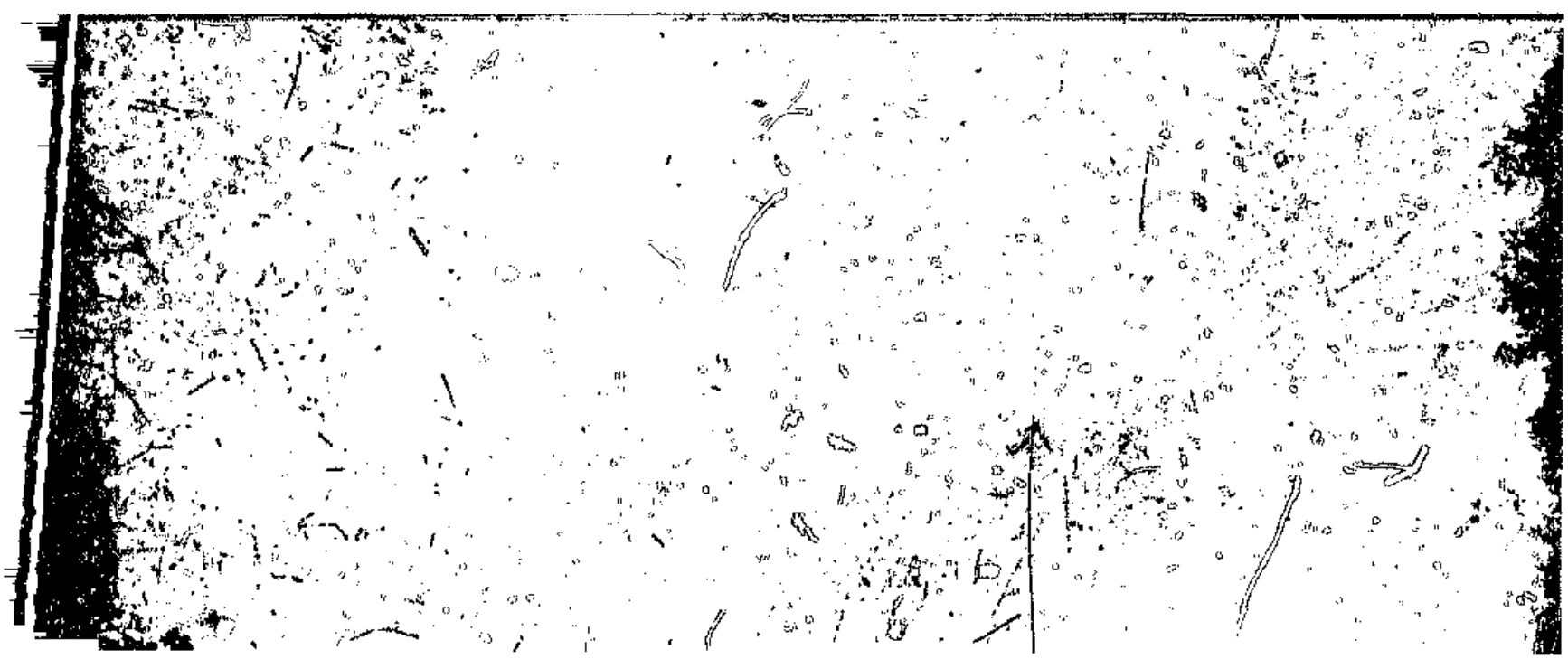
O	_TYPE_	_NAME_	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPA	BSAN	BSPS	SVINS
1	MEAN		53.0019	5.13788	3.13652	87.1807	28.1562	80.0435	3.39754	45.1667	92.2817	1.29659
2	STD		15.1548	1.56551	0.555699	17.7459	5.54131	17.7006	1.28398	11.1549	2.37685	0.666649
3	N		137	137	138	138	138	138	138	138	138	138
4	CORR	RACMLEN	1	0.622982	0.11995	0.21625	0.09721	-0.08961	-.104004	-.137546	-.092707	-.042054
5	CORR	INTNDLN	0.622982	1	.0445853	0.113777	.0713682	-.064456	-.128619	.0170204	-.046745	-.126967
6	CORR	LNWDRL	0.11995	.0445853	1	0.495135	-.371472	-.469166	.0394077	-.494165	.0316372	-.291833
7	CORR	MXLNL	0.21625	0.113777	0.495135	1	0.604089	-.265779	.0282389	-.157707	0.119787	.0436253
8	CORR	MXWDL	0.09721	.0713682	-.371472	0.604089	1	0.118036	-.002391	0.234712	.0751076	0.332782

08	NSECV	PINSV	PTLLN	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL
1	18.5652	29.3778	9.60225	10.1667	5.4413	3.90884	1.90623	0.848986	1.03942	6.22877	4.86428	4.71188
2	2.89211	16.9293	2.54626	3.93757	0.917369	1.27856	0.546756	0.157189	0.289635	2.14277	1.74747	1.89027
3	138	138	138	138	138	138	138	138	138	138	138	138
4	.0881105	-.013091	.0972608	0.219552	-0.04629	-.045935	-.035999	-.006544	.0045201	-J.0238	.0126554	-3.9E-04
5	-0.02726	.0068125	0.224654	.0897263	0.159978	0.107556	0.180011	0.136996	0.251361	0.164607	0.1b2919	0.15175
6	0.228139	0.137433	0.286078	-.045235	-.292056	-.207631	-.171321	-.255896	-.129869	-.204018	-.204104	-0.26911
7	0.571798	0.307735	0.361612	0.203769	-.403981	-.357539	-.280665	-.231201	-.179228	-.320668	-.348553	-0.30562
8	0.383507	0.184673	0.123399	0.258483	-.153404	-.188209	-.141753	.0013355	-.061295	-.146136	-.176543	-.072364

OBS	LBRP	NFLOR	CORLLN	CORLWD	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN
1	2.06232	25.2768	1.77826	0.457899	0.931232	3.48159	8.75051	9.81109	4.58167	8.17123	1.53884	2.61196
2	0.592124	12.6325	0.327964	.0478052	0.138192	0.814263	2.5716	2.25902	1.13483	1.38092	0.361158	0.401264
3	138	138	138	138	138	138	138	138	138	138	138	138
4	.0373836	-0.01758	-.165095	.0044457	-.163006	-.052172	.0251037	-.006161	-.042331	-.045173	-.115576	-.039952
5	0.177756	0.157532	.0373314	0.151126	.0258946	0.103865	0.138716	0.137146	0.122712	.0917951	0.125374	.0348258
6	-.132197	-.132919	-.156848	-.121669	-.228038	-.178888	-.129722	-.215852	-0.21698	-.173072	-.206762	-.209537
7	-.179341	-.343075	-.221392	-0.04404	-.289175	-.259334	-.269644	-.327174	-.318031	-.246279	-.269404	-.207532
8	-.064287	-.236295	-.056005	0.11936	-.089001	-.104332	-.164742	-.138376	-.132959	-0.09223	-.079144	-.020887

OBS	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD	CRMNWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR
1	7.69804	0.40529	0.479783	5.99978	0.789493	0.391884	57.5072	58.1014	66.8533	1.25013	4.57823	1.84521
2	1.3453	0.113936	0.145514	1.15702	0.142313	.0571277	7.66378	12.0667	3.26863	0.407614	1.23997	0.25469
3	138	138	138	138	138	138	138	138	138	137	138	138
4	-.051899	.0240425	.0035448	-0.07785	-.067096	-.004095	0.153407	-.237901	.0319677	0.394197	-0.06824	-.094025
5	.0981159	0.241611	-.109463	.0935108	0.104591	.0153634	0.125378	-.075343	.0370024	.0433714	.0424241	-.132295
6	-.189186	-.180397	0.1037	-.198515	-.193047	-.110434	-.243666	-.312441	0.818308	0.221168	-.100587	-.143914
7	-.242113	-.068941	-.074967	-.283876	-.210637	-.019716	0.109884	-.024248	0.370023	0.398004	-.313875	-.278599
8	-.075753	0.11659	-.157831	-.108057	-.044327	.0802853	0.342	0.264819	-0.37048	0.203708	-.249725	-.162684

OBS	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR	ALFNLR	LCPFCLR
1	1.32458	3.91263	7.71513	15.5486	19.8613	1.83171	1.23734	3.75337	1.75861	0.576373
2	0.264976	0.784078	1.42936	3.36321	4.4453	0.241246	0.563419	2.27083	0.327792	.0478005
3	138	138	138	138	138	138	138	137	138	138
4	-.133305	-.155944	-.018639	-.070995	.0189304	.0512937	-0.07433	-.120863	0.171884	.0047621
5	-.167418	-.045826	-.006746	.0551761	-0.09991	-.151805	-.140563	0.109665	-.061888	.0732817
6	.0181678	-.073305	-0.03609	-.106052	-.012463	0.197191	-.022382	-.153469	0.124294	-0.07324
7	0.106556	-.188861	-.094424	-.257264	-.144824	0.343256	0.103547	-.315272	0.259997	-.131295
8	0.09201	-.130972	-.058068	-.166815	-.162113	0.191521	0.127944	-0.17844	0.136374	-.072748



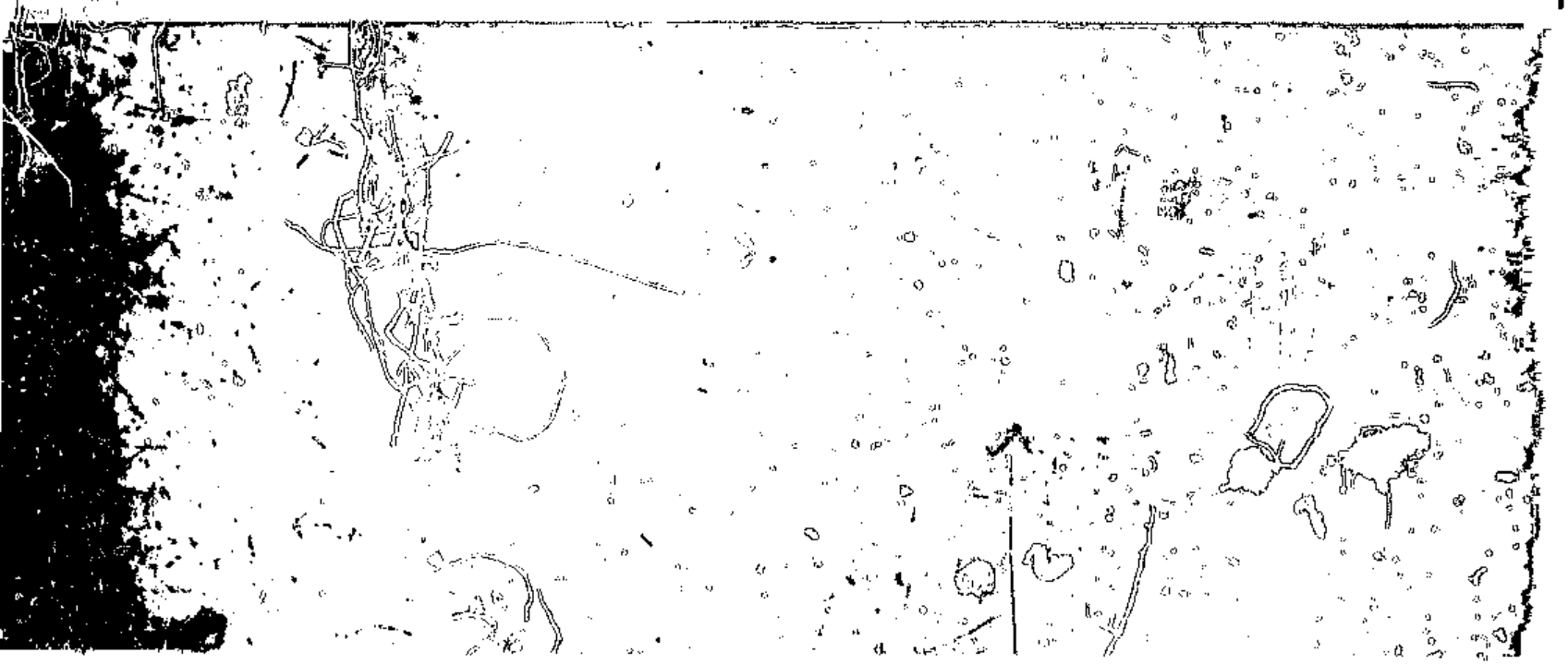
OBS	_TYPE_	_NAME_	RACHLEN	INTNDLN	LNWDRL	MXLNL	MXINDL	APXAN	APXPS	BSAN	BSPS	SVINS
9	CORR	APXAN	-0.08961	-.064456	-.469166	-.265779	0.118036	1	-.414441	.0450639	-.157151	0.243076
10	CORR	APXPS	-.104004	-.128619	.0394077	.0282389	-.002391	-.414441	1	0.166398	0.20033	-.094923
11	CORR	BSAN	-.137546	.0170204	-.494165	-.157707	0.274712	.0450639	0.166398	1	0.569815	.0495671
12	CORR	BSPS	-.092707	-.046745	.0316372	0.119787	.0751076	-.157151	0.20033	0.569815	1	-.067477
13	CORR	SVINS	-.002054	-.126967	-.291833	.0436253	0.332762	0.243076	-.094923	.0495671	-.067477	1
14	CORR	NSECV	.0881105	-0.02726	0.228139	0.571798	0.383507	-.146491	-.048488	.0368796	0.222234	0.234102
15	CORR	PINSV	-.013091	.0068125	0.137433	0.307735	0.184673	-.071864	.0227917	-.034073	.0456529	-.049072
16	CORR	PTLLN	.0972605	0.224654	0.286078	0.361612	0.123399	-.215289	.0318796	-.066143	0.150183	-.070739

OBS	NSECV	PINSV	PTLLN	INTLN	NS	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL
9	-.146491	-.071864	-.215289	0.06601	0.202486	.0679334	.0963912	.0521434	.0695702	0.108423	.0851603	0.238786
10	-.048488	.0227917	.0318796	-.166814	.0350935	0.12398	0.108343	0.155732	.0894396	.0510386	.0953907	-.030724
11	.0368796	-.034073	-.066143	.0096912	0.185136	0.328312	0.251778	0.22818	0.204039	0.282157	0.29519	0.127095
12	0.222234	.0456529	0.150183	.0204615	0.132091	0.303923	0.242405	.0899853	0.182204	0.294431	0.291654	.0844649
13	0.234102	-.049072	-.070739	.0347944	-.065019	-.102484	-.141351	-.110612	-.191688	-.106406	-.124426	-.067697
14	1	.0342082	0.310285	-.001763	-.135418	-.099705	-.146265	-.112066	-.121949	-.080605	-.133414	-.097451
15	.0342082	1	-.045512	0.122907	-.328439	-.316895	-.319562	-.139963	-.263242	-.307602	-.304682	-.306351
16	-.070739	-.045512	1	-.096832	0.231716	0.221862	0.23231	.0234128	0.254736	0.251416	0.24655	0.212857

OBS	IBRP	NFLOR	CORLLN	CORLWD	COPTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN
9	[illegible]	0.129424	.0709408	.0098563	.0375772	.0806472	0.133978	0.114466	.0903437	.0988629	0.124008	0.108501
10	[illegible]	.0800701	.0555499	.0322844	.0933049	0.1014	0.109415	.0434825	0.123929	.0770852	.0180515	.0863004
11	0.137121	0.213694	.0193136	.0715652	0.227578	0.117066	0.1517	0.223654	0.202571	0.130439	0.115715	0.201942
12	0.1[illegible]217	0.27908	.0605967	.0298[illegible]	0.110976	0.186703	0.181897	0.226119	0.192882	0.148809	.0748418	0.242839
13	-.[illegible]829	-.148286	-.105585	.0845[illegible]7	-.037117	-.099417	-.213076	-.102011	-.090769	-.111429	-.155366	-.022677
14	.00[illegible]26	-.179011	-.003266	.0075978	-.065311	-.099044	-.216416	-.091485	-.134419	-.055426	-.157581	.0357723
15	-.282[illegible]7	-.254634	-.262906	.0834205	-.186221	-0.24954	-.27[illegible]31	-.300594	-.321946	-.262068	-.237321	-.330084
16	0.274518	0.255528	0.192867	C.18665	0.199649	0.164528	0.1[illegible]734	0.203663	0.194505	0.183051	0.166696	0.18491

OBS	STMXLN	STMXWDL	VACMXLN	CRMXLN	CRMXWD	CRMNWD	VANGS	VANGB	SKINL	NWNOFHD	IBLWR	OBLWR
9	.0993[illegible]99	.0210222	.0094123	.0966412	-.020564	-0.04729	0.22271	.0130247	-.325681	-.193774	.0830381	0.106727
10	.07466[illegible]17	.0549029	.0290955	0.10345	0.103698	0.139171	-0.13616	.0150597	-.081484	-.115928	.0222878	0.004566
11	0.129[illegible]64	.0[illegible]712	.0889701	0.136837	0.270416	0.168683	0.183687	0.321031	-.251003	-.272881	0.247008	.0887383
12	0.152228	-.0[illegible]525	.0398523	0.1[illegible]715	0.176351	0.164649	.0581689	0.292872	0.265899	-.203811	0.313764	0.103984
13	-.115963	.0214861	-.017269	- 104523	-.110777	-.009813	0 439892	0.116326	-.270972	0.161849	-.053959	0.187968
14	-.057[illegible]7	-.[illegible]78	-.031273	-.008395	-.006215	0.131788	0 281384	0.149094	0.236651	0.241053	-.076823	-.067412
15	-.25[illegible]72	.01[illegible]007	-0.06521	-.2[illegible]973	-.211718	.0243036	.1897045	-.021644	.0919012	0.263596	-.308962	-.122914
16	0.197279	0.07747	-.120716	0.2[illegible]381	0.2647[illegible]1	0.157031	-.116515	0.11242	0.260988	-.133645	0.264227	-0.0097

OBS	INVLWR	OBLLWR	CORLWR	CORLSWR	STLLWR	TFLPLR	INFLWR	LRNFHR	ALFMLR	LCTFCLR
9	.0[illegible]19[illegible]	.0[illegible]3270	0.120546	0.120634	.0737035	-.091956	-.095838	0.13790[illegible]	-.087566	.0688039
10	-.[illegible]3[illegible]	.02[illegible]216	.0145063	.0102144	.0214622	-.138562	-.170224	.0564081	.0240613	.0542597
11	-0.12[illegible]	-.[illegible]1136	-.093464	.0058713	0.100746	-.241462	-.106058	0.223448	.0121162	.0338988
12	-.0[illegible]276	.0224103	.0267213	.0359024	0.189419	-.190096	-.123329	0.204125	.0742945	.0658884
13	0.[illegible]61	0.[illegible]03	-.021963	-.094845	-.069061	.0632013	0.233165	-.168413	0.185862	-.019984
14	0.[illegible]0[illegible]	-.013264	-.060866	-.185158	-0.03679	0.238227	0.268923	-.151994	0.275911	-.148019
15	0.[illegible]2	-.294[illegible]0	-.084023	-0.26764	-.168795	0.334359	0.10109	-.258313	.0922732	-.053011
16	0.[illegible]4[illegible]	.085[illegible]87	-.078383	.0696721	.0785481	-.166869	-.050331	0.190447	-.037752	-.042261



OBS	_TYPE_	_NAME_	RACHLEN	INTNDLN	LNWDRL	MXILNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS
17	CORR	INTLN	0.219552	.0997263	-.045235	0.203769	0.258483	0.06601	-.106814	.0096912	.0204815	.0347948
18	CORR	NBR	-0.04629	0.159978	-.292056	-.403981	-.153404	0.202486	.0350935	0.185136	0.132091	-.065019
19	CORR	IBRL	-.015935	0.107556	-.207631	-.357539	-.188209	.0679334	0.12398	0.328312	0.303923	-.102484
20	CORR	OBRL	-.035999	0.180011	-.171321	-.288665	-.141753	.0563912	0.103343	0.251778	0.242405	-.141351
21	CORR	IBRW	-.006544	0.138996	-.255895	-.231201	.0013355	.0521434	0.155732	0.22818	.0899853	-.110612
22	CORR	OBRW	.0045201	0.251361	-.12988	-.179228	-.061292	.0695702	.0894396	0.204039	0.182204	-.191688
23	CORR	INMXL	-0.0238	0.164607	-.204018	-.320668	-.146136	0.108493	.0510386	0.282157	0.294431	-.106406
24	CORR	INMXW	0.0126556	0.189919	-.204104	-.348653	-.176543	.0851603	.0953907	0.29519	0.291654	-.128426

OBS	NSECV	PINSV	PTLLN	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL
17	-.001763	0.122907	-.096832	1	.0190049	.0560834	.0620645	0.165113	.0813177	.0760014	.0947472	.0562818
18	-.135418	-.328439	0.231716	.0190049	1	0.848605	0.809978	0.567983	0.741329	0.889588	0.826129	0.859955
19	-.099705	-.316895	0.221862	.0560834	0.848605	1	0.886123	0.639428	0.785981	0.960389	0.901081	0.765842
20	-.146265	-.319562	0.23231	.0620645	0.809978	0.886123	1	0.573609	0.886113	0.891353	0.883245	0.8072
21	-.112086	-.139963	.0234128	0.165113	0.567983	0.639428	0.573609	1	0.6234	0.644892	0.653384	0.551923
22	-.121949	-.263942	0.254736	.0813177	0.741329	0.785981	0.886113	0.6234	1	0.801822	0.800669	0.725196
23	-.080605	-.307602	0.251716	.0760014	0.889588	0.960389	0.891353	0.644892	0.801822	1	0.929128	0.843426
24	-.133414	-.304682	0.24855	.0947472	0.826129	0.901081	0.883245	0.653384	0.800669	0.929128	1	0.798474

OBS	LBRP	NFLOR	CORLLN	CORLWD	CORTWD	LGTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN
17	.0897837	.0105675	-.059863	0.138234	0.130772	-.001422	.0933161	.0769005	.0442647	.0772307	.0397903	0.115545
18	0.682992	0.816881	0.597935	0.264638	0.588556	0.735272	0.695489	0.839238	0.830128	0.728837	0.645175	0.689934
19	0.728555	0.824738	0.534274	0.178531	0.66995	0.759145	0.727975	0.89922	0.900102	0.782163	0.602088	0.74528
20	0.673383	0.842645	0.566006	0.175881	0.642133	0.739544	0.78482	0.844371	0.84754	0.743673	0.639085	0.699657
21	0.51972	0.524439	0.354562	0.259748	0.602487	0.469141	0.476944	0.621193	0.611592	0.514611	0.3666	0.501178
22	0.610133	0.767417	0.54388	0.229021	0.57057	0.672446	0.739538	0.758408	0.780763	0.675298	0.600547	0.615792
23	0.778755	0.877413	0.654658	0.231076	0.675984	0.775864	0.778558	0.942017	0.887521	0.785497	0.615925	0.751884
24	0.72588	0.923741	0.4707	0.244282	0.680862	0.687307	0.809228	0.863231	0.812598	0.70671	0.564767	0.686246

OBS	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD	CRMNWD	VANGS	VANGB	SHINL	MWNOFHD	IBLWR	OBLWR
17	.0546025	.0511263	0.22188	0.016504	0.13536	0.148525	.0245365	-.063066	-.095513	.0330349	-0.03877	-.026508
18	0.74141	0.418304	.0368128	0.793744	0.580341	0.23918	-.015461	0.311563	-.221925	-.758526	0.711344	0.23162
19	0.77091	0.253459	0.298974	0.818746	0.669802	0.349377	-.050878	0.282166	-.085644	-.796855	0.826586	0.261047
20	0.742606	0.215206	0.226149	0.791262	0.611239	0.230323	-.080264	0.291157	-.097455	-.821345	0.749129	0.294015
21	0.499088	0.407582	0.244881	0.535307	0.846173	0.389325	-.047195	0.172346	-.225632	-.538439	0.113651	-.095679
22	0.678692	0.259905	0.156076	0.726111	0.560964	0.227256	-.073066	0.249276	-.089359	-.740818	0.590014	-.159932
23	0.781702	0.275793	0.220094	0.82711	0.66773	0.3248	-.030249	0.306663	-.097594	-.809903	0.763738	0.241037
24	0.694361	0.204098	0.290531	0.739327	0.666455	0.135946	-.075749	0.250701	-.083029	-0.81272	0.711636	0.220522

OBS	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LANFHR	ALFMLR	LGPFCLR
17	-.126569	-.128672	-0.1117	-.060232	.0747341	.0022027	-.091441	-.019066	.0367887	-.052103
18	-.112039	0.42993	0.262263	0.555695	0.150846	-.701827	-.253877	0.758444	-.335126	0.263572
19	-.183126	0.412043	0.198421	0.499203	0.336066	-.819247	-.316602	0.803897	-.247459	0.275137
20	-.320148	0.441897	0.244878	0.55021	0.347394	-0.80476	-.437266	0.799945	-.328869	0.288059
21	-.278147	0.198864	-.067594	0.238122	.0258623	-.587694	-.269935	0.527833	-0.09153	.0840981
22	-.356168	0.395962	0.232271	0.51388	0.290647	-.760911	-.478141	0.709123	-.314656	0.243796
23	-.180348	0.402285	0.207078	0.522152	0.325976	-.804032	-.338446	0.81879	-.250763	0.29821
24	-.466251	0.31786	0.123438	0.441679	0.368408	-.788928	-.465792	0.778827	-.241756	0.268326

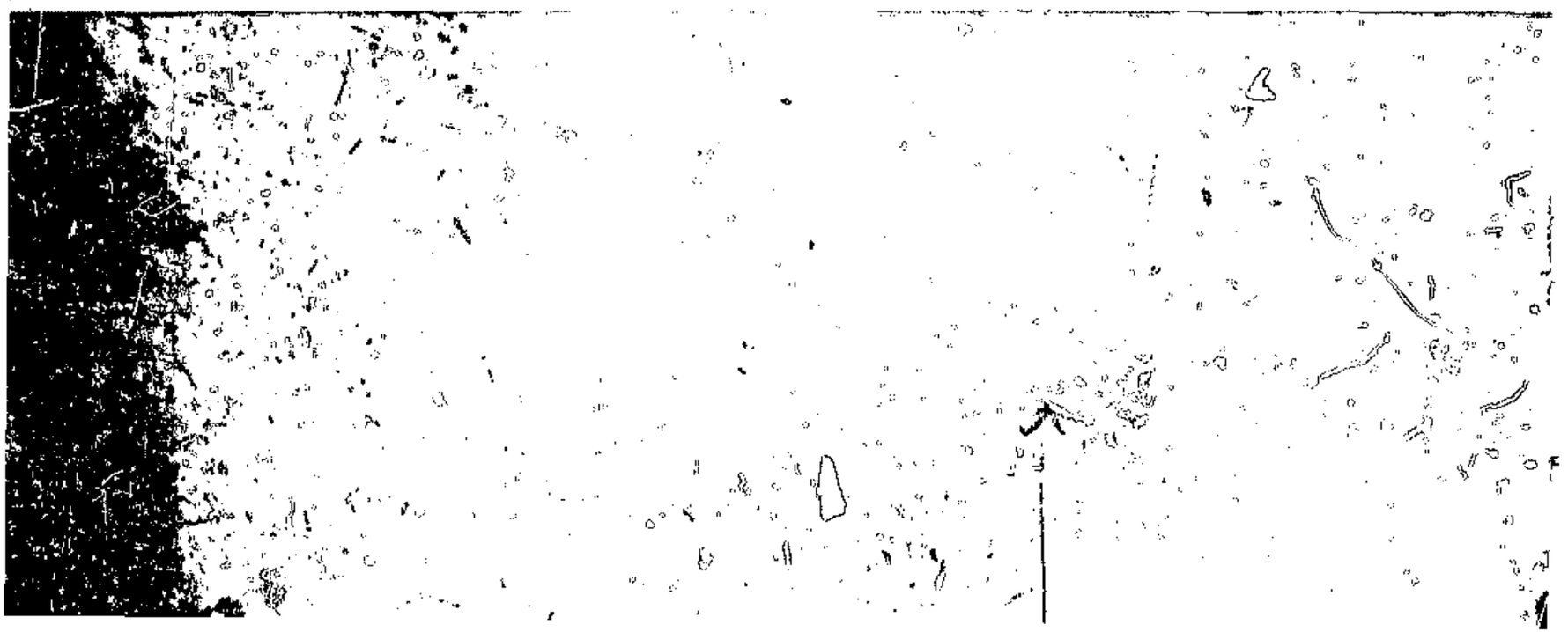
OBS	_TYPE_	_NAME_	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS
25	CORR	PMXL	-3.9E-04	0.15175	-0.26911	-0.30562	-.072364	0.238786	-.030724	0.127095	.0344649	-.067697
26	CORR	LBRP	.0373836	0.177756	-.132197	-.179341	-.064287	.0630174	-.039857	0.171121	0.180217	-.054829
27	CORR	NFLOR	-0.01758	0.157532	-.132919	-.343075	-.236295	0.129424	.0800701	0.213694	0.27908	-.148286
28	CORR	CORLLN	-.165095	.0373314	-.158848	-.221392	-.056005	.0729408	.0555499	.0193136	.0605967	-.105585
29	CORR	CORLWD	.0044457	0.151126	-.121669	-0.04404	0.31936	.0098563	.0322844	.0715652	.0298896	.0845407
30	CORR	CORTWD	-.163006	.0258946	-.228038	-.289175	-.089001	.0375772	.0933049	0.227578	0.138976	- 087117
31	CORR	LCTPFA	-.052172	0.103865	-.178888	-.259334	-.104332	.0886472	0.1014	0.117066	0.146703	-.099417
32	CORR	INFW	.0251037	0.138716	-.129722	-.269644	-.164742	0.133978	0.109415	0.1517	0.181897	-.213076

OBS	NSECV	PINSV	PTLLN	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL
25	-.097451	-.306351	0.212857	.0582818	0.859955	0.765842	0.8072	0.551923	0.725196	0.843426	0.798474	1
26	.0056226	-.282887	0.274518	.0897837	0.682992	0.728555	0.673383	0.51972	0.610133	0.778755	0.72588	0.727101
27	-.178011	-.284634	0.238528	.0105675	0.816881	0.824738	0.842645	0.524439	0.747417	0.877413	0.923741	0.772204
28	-.003266	-.262906	0.192867	-.059863	0.597935	0.534274	0.566006	0.354562	0.54388	0.554658	0.4707	0.652087
29	.0075978	.0834205	0.18665	0.138234	0.264636	0.178531	0.175881	0.259748	0.229021	0.231076	0.244282	0.216919
30	-.065311	-.186221	0.199649	0.130772	0.588556	0.66995	0.642133	0.602487	0.57057	0.675984	0.680882	0.607407
31	-.099044	-0.24954	0.164528	-.001422	0.735272	0.799145	0.739544	0.469141	0.672446	0.775864	0.687307	0.7069
32	-.216416	-.275631	0.165734	.0933161	0.695489	0.727975	0.78482	0.476944	0.739538	0.778558	0.809228	0.742799

OBS	LBRP	NFLOR	CORLLN	CORLWD	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN
25	0.727101	0.772204	0.652087	0.216919	0.607407	0.7069	0.742799	0.830179	0.809631	0.740091	0.642189	0.712957
26	1	0.663271	0.511471	0.220648	0.602199	0.565937	0.631363	0.716142	0.721179	0.620733	0.513968	0.65646
27	0.663271	1	0.463607	0.138688	0.568495	0.658982	0.810905	0.821655	0.757692	0.658455	0.535869	0.652391
28	0.511471	0.463607	1	0.174398	0.477362	0.674717	0.534485	0.619805	0.690295	0.725655	0.727107	0.727334
29	0.220648	0.138688	0.174398	1	0.381032	0.14425	0.173419	0.197108	0.171344	0.156474	0.252507	0.111784
30	0.602199	0.568495	0.477362	0.381032	1	0.442403	0.489414	0.601263	0.568154	0.471466	0.444925	0.53402
31	0.565931	0.658982	0.674717	0.14425	0.442403	1	0.769127	0.86344	0.87729	0.926306	0.736956	0.756943
32	0.631363	0.810905	0.534485	0.173419	0.489414	0.769127	1	0.827237	0.794362	0.792463	0.670331	0.724043

OBS	STMXLN	STMXLOL	VACMXLM	CRMXLN	CRMXWD	CRMNWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR
25	0.754109	0.332829	.0693131	0.782003	0.608611	0.241237	.0103534	0.282299	-.235906	-.750431	0.624097	0.226617
26	0.622852	0.272858	0.107357	0.654073	0.632051	0.25661	-.053471	0.199115	-0.09803	-.631253	0.561557	0.168534
27	0.653819	0.133808	0.211076	0.697294	0.516532	0.184366	-.105356	0.221114	-.026565	-.788808	0.706264	0.247731
28	0.746814	0.368728	-.012015	0.789087	0.432524	0.139493	-.009085	0.334422	-.212697	-.571989	0.442107	0.119972
29	0.172769	0.283214	-.203315	0.1917	0.369671	0.451818	.0613061	0.185473	-0.14095	-.165775	.0679194	-.037154
30	0.46397	0.13435	0.218169	0.536153	0.864965	0.547802	-0.1108	0.223537	-.192498	-.644035	0.443722	0.179553
31	0.932644	0.216471	0.185092	0.956671	0.349336	.0596102	-9.0E-04	0.284003	-.158114	-.700973	0.64479	0.168246
32	0.783773	.0687991	0.302367	0.769623	0.399589	.0871667	-.097727	0.179494	-.100075	-.790587	0.622158	0.117785

OBS	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLOR	TFLPLR	INFLWR	LRNFHR	ALFMLR	LCPFCLR
25	-.166418	0.503398	0.224705	0.541753	0.225168	-.713995	-.301696	0.781512	-.293782	0.193088
26	-0.13993	0.366889	.0652867	0.399333	0.21941	-.675429	-.245146	0.629999	-.142454	.0792173
27	-.389176	0.368226	0.218262	0.501056	0.398455	-.742101	-.446978	0.761764	-.236958	0.287637
28	.0340705	0.849975	0.404361	0.603854	.0941659	-.431167	-.110121	0.632604	-.403527	.0655662
29	-.069738	-.358147	-.159276	-.112773	-.098959	-.161537	-.077075	0.124232	-.2[illegible]653	-0.00815
30	-.199055	0.258137	-.275679	0.139103	0.197361	-0.59432	-0.20214	0.617239	-.[illegible]903	-.024166
31	-.132036	0.350855	0.617279	0.780688	0.404043	-.563276	-.331101	0.729477	-.4[illegible]139	0.660434
32	-.493561	0.397616	0.413628	0.631494	0.502899	-.652264	-0.70655	0.736688	-.370328	0.424393



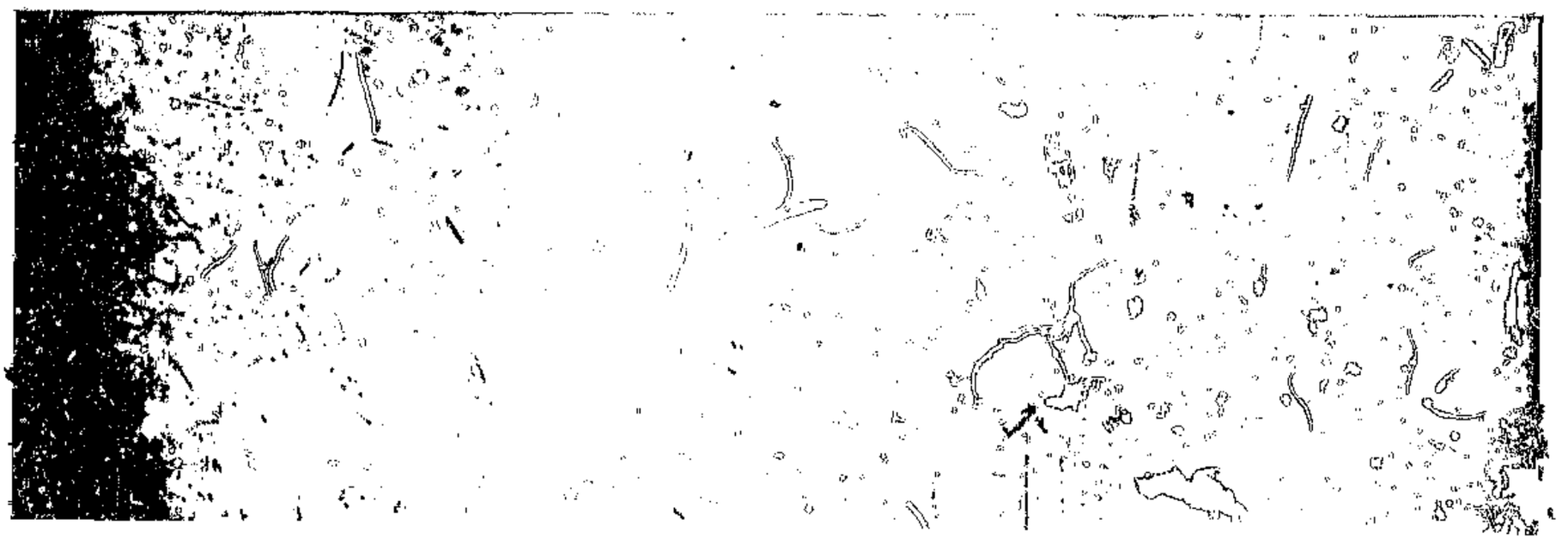
OBS	_TYPE_	_NAME_	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS
33	CORR	INFL	-.006161	0.137146	-.035852	-.327174	-.138376	0.114466	.0434825	0.223854	0.228119	-.102011
34	CORR	PAPMXLN	-.042331	0.122712	-0.21398	-.318031	-.132959	.0903437	0.123929	0.202571	0.192882	-.090769
35	CORR	TFLLN	-.045173	.0917951	-.173072	-.246279	-0.09223	.0988629	.0770852	0.130439	0.148805	-.111429
36	CORR	FMXLN	-.115576	0.125374	-.206762	-.269404	-.079146	0.124008	.0180515	0.115715	.0746418	-.155306
37	CORR	AMXLN	-.039952	.0348258	-.209537	-.207532	-.020887	0.108501	.0863004	0.201942	0.242839	-.022677
38	CORR	STMXLN	-.051699	.0981159	-.189186	-.242113	-.075753	.0993099	.0746617	0.129254	0.152228	-.115963
39	CORR	STMXLOL	.0240425	0.241611	-.180397	-.068941	0.13659	.0210222	.0549499	.0733312	-.034825	.0264261
40	CORR	VACMXLN	.0035446	-.109463	0.1037	-.074967	-.157831	.0094123	.0298955	.0889701	.0398523	-.017269

OBS	NSEQV	PINSV	PTLLN	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL
33	-.091485	-.300594	0.203663	.0769005	0.839236	0.89922	0.844371	0.621193	0.758408	0.942017	0.863231	0.830179
34	-.134419	-.321946	0.194505	.0442847	0.830128	0.900106	0.84754	0.611592	0.780763	0.887521	0.812598	0.809631
35	-.055426	-.262068	0.183051	.0772307	0.728837	0.782163	0.743673	0.514611	0.675298	0.765497	0.70671	0.740091
36	-.157581	-.237321	0.168696	.0397903	0.645175	0.602088	0.639085	0.3666	0.600547	0.615925	0.564767	0.640189
37	.0357723	-.330084	0.18491	0.115545	0.689934	0.74528	0.699657	0.501178	0.615792	0.751884	0.686246	0.712957
38	-.052037	-.259892	0.197279	.0546025	0.74141	0.77091	0.742608	0.499088	0.678892	0.781702	0.694361	0.754109
39	-.033728	.0162007	0.07747	.0511263	0.418304	0.253459	0.215206	0.407582	0.259905	0.275793	0.204098	0.332829
40	-.031273	-0.06521	-.120716	0.22188	.0366128	0.298974	0.226149	0.244861	0.156076	0.220094	0.290531	.0693131

OBS	LBRP	NFLOR	CORLLN	CORLWD	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN
33	0.716142	0.821655	0.619805	0.197108	0.601263	0.86344	0.827237	1	0.92112	0.899979	0.676033	0.82962
34	0.721179	0.757692	0.690295	0.171344	0.568154	0.87729	0.794362	0.92112	1	0.922845	0.74831	0.855681
35	0.620733	0.658455	0.725655	0.156474	0.471466	0.926306	0.792463	0.899979	0.922845	1	0.795049	0.865942
36	0.513968	0.535869	0.727107	0.252507	0.444925	0.736956	0.670331	0.678033	0.74831	0.795049	1	0.645966
37	0.65646	0.652391	0.727334	0.111764	0.53402	0.756943	0.724043	0.82962	0.855681	0.865942	0.645966	1
38	0.622652	0.653819	0.746814	0.172769	0.46397	0.932646	0.783773	0.895137	0.920669	0.994697	0.21233	0.861836
39	0.272858	0.133604	0.366723	0.283214	0.13435	0.216471	.0687991	0.270662	0.3556	0.281012	0.268444	0.286789
40	0.107357	0.211076	-.012015	-.203315	0.219169	0.185092	0.302367	0.256002	0.230791	0.289999	.0572741	0.246839

OBS	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD	CRMNWD	VANOS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR
33	0.895137	0.270662	0.256002	0.903582	0.506575	0.223799	-.014308	0.286811	-.137789	0.77435	0.713978	0.232668
34	0.920669	0.3556	0.230791	0.943726	0.577703	0.203943	-.054743	0.299164	-0.1572	-0.78208	0.724337	0.197138
35	0.994697	0.281012	0.289999	0.963127	0.433459	.0845115	-.004618	0.276397	-.163888	-0.71043	0.636112	0.193226
36	0.21233	0.266444	.0572741	0.807567	0.368648	.0060502	-.035546	0.308715	-0.20418	-0.64827	0.530007	0.165066
37	0.861836	0.286789	0.246839	0.85422	0.51046	0.183599	-0.036	0.304603	-.167323	-.641332	0.592392	0.219835
38	1	0.299616	0.200127	0.969067	0.432296	.0809298	-5.1E-04	0.305294	-.178101	-.705346	0.634397	0.190272
39	0.299616	1	-.233447	0.320317	0.308172	0.298665	.0752326	0.202033	-.204901	-.164918	.0535677	.0040228
40	0.200127	-.233447	1	0.179457	0.126392	.0320112	-.064961	-.204825	0.085202	-.268289	0.198372	.0926715

OBS	INVLWR	CRLLWR	CORLWR	CORLWWR	STLLBR	TFLPLR	INFLWR	LRNFHR	ALFMLR	LGPSCLR
33	-0.16653	0.472329	0.346149	0.641283	0.391513	-.695337	-.318462	0.816782	-.287569	0.38324
34	-.178612	0.552381	0.402278	0.696453	0.315218	-0.81338	-.357859	0.785098	-.343816	0.328809
35	-.137067	0.590141	0.544349	0.781462	0.397604	-.551883	-.318626	0.746951	-.417097	0.437207
36	-0.12013	0.541052	0.459325	0.699791	0.23704	-.502571	-.297514	0.645422	-.802023	0.270627
37	-.088237	0.612634	0.372219	0.634764	0.332767	-.567404	-.236153	0.7057 9	-.121545	0.184921
38	-.105031	0.601802	0.593085	0.789556	0.378269	-.552294	-.293219	0.7468	-.439301	0.438167
39	0.145857	0.194303	.0655548	0.113179	-.699185	-.302291	0.123108	0.2126.3	-.073921	-.137231
40	-.358254	.0847763	.0486086	0.128359	0.363983	-.118502	-.337984	0.225589	0.049752	0.149189



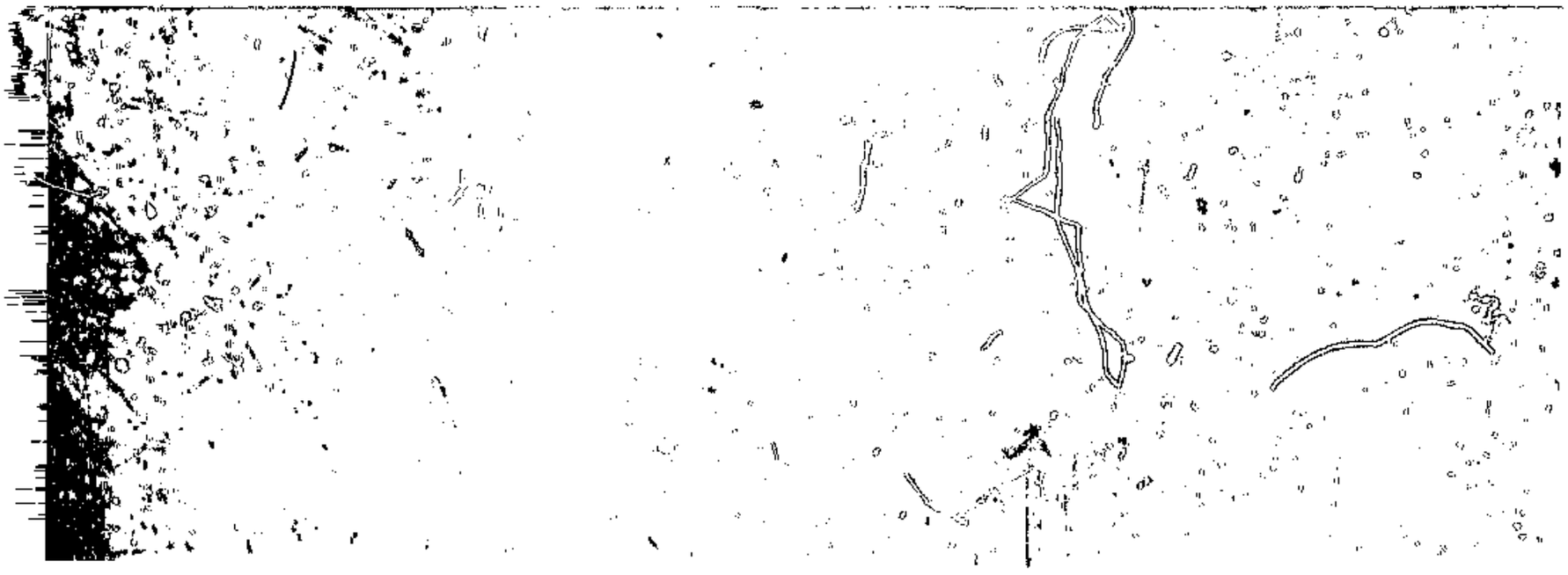
OBS	_TYPE_	_NAME_	RACHLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS
41	CORR	CRMXLN	-0.07785	.0935108	-.198515	-.283876	-.108057	.0966412	0.10345	0.136838	0.157415	-.104523
42	CORR	CRMXWD	-.067096	0.104591	-.193047	-.210687	-.044327	-.020564	0.103698	0.170416	0.176351	-.110777
43	CORR	CRMNWD	-.004095	.0153634	-.110434	-.019716	.0802853	-0.04729	0.139171	0.166683	0.164649	-.009816
44	CORR	VANGS	0.153407	0.125378	-.243666	0.109884	0.342	0.22271	-0.13616	0.183687	.0581609	0.439892
45	CORR	VANGB	-.237901	-.075343	-.312441	-.024248	0.264819	.0130247	.0150507	0.321091	0.292872	0.118326
46	CORR	SHINL	.0319677	.0370024	0.818308	0.370023	-0.37048	-.325681	-.081484	-.251003	0.265899	-.270972
47	CORR	NWNOFHD	0.394197	.0433714	0.223168	0.398004	0.203708	-.193774	-.115928	-.272881	-.206811	0.161849
48	CORR	IBLWR	-0.06824	.0424241	-.100587	-.313875	-.249725	.0838381	.0222878	0.247008	0.313764	-.053959

OBS	NSECV	PINSV	PTLLN	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL
41	-.088395	-.289973	0.204381	0.016504	0.793744	0.818746	0.791262	0.535307	0.726111	0.82711	0.739327	0.782003
42	-.006215	-.211718	0.289263	0.13536	0.580341	0.669802	0.611239	0.646173	0.560964	0.66773	0.666455	0.608611
43	0.131788	.0243036	0.157081	0.148525	0.23918	0.349377	0.250323	0.389325	0.227256	0.3248	0.335946	0.241237
44	0.281384	.0897045	-.116515	.0945365	-.015461	-.050878	-.080264	-.047195	-.073066	-.030249	-.075749	.0103554
45	0.149094	-.021644	0.11242	-.063066	0.311563	0.282166	0.291157	0.172346	0.249276	0.306663	0.250701	0.282239
46	0.236651	.0919012	0.280948	-.095513	-.221925	-.065644	-.097455	-.225632	-.089359	-.097594	-.083029	-.235706
47	0.241053	0.263596	-.133645	.0330349	-.758526	-.796855	-.821345	-.538439	-.740818	-.809903	-0.81272	-.750131
48	-.076823	-.308962	0.264227	-0.03877	0.711344	0.826586	0.749129	0.113651	0.990014	0.783738	0.711636	0.624097

OBS	LBRP	NFLOR	CORLLN	CORLWD	CORTWD	LCTPFA	INFW	INFL	PMPMXLN	TFLLN	FMXLN	AMXLN
41	0.654073	0.697294	0.769087	0.1917	0.536153	0.956671	0.789623	0.903582	0.943726	0.963127	0.807567	0.85422
42	0.632051	0.516532	0.432524	0.369671	0.864965	0.349336	0.399589	0.586575	0.577703	0.433459	0.368648	0.51046
43	0.25661	0.184366	0.139493	0.451816	0.547802	.0596102	.0871667	0.233799	0.203943	.0845115	.0060502	0.183599
44	-.053471	-.105356	-.009085	.0613061	-0.3108	-9.0E-04	-.097727	-.014308	-.054743	-.004618	-.035546	-0.036
45	0.199115	0.221114	0.334422	0.185473	0.223537	0.284003	0.179494	0.286811	0.299184	0.276397	0.308715	0.304603
46	-0.09803	-.026565	-.212697	-0.14095	-.192498	-.156114	-.100075	-.137789	-0.1572	-.163808	-0.20418	-.167323
47	-.631253	-.788808	-.573989	-.165775	-.640035	-.700973	-.790587	-0.77435	-0.78208	-0.71043	-0.64827	-.641332
48	0.561557	0.706264	0.442167	.0679194	0.443722	0.64479	0.622158	0.713978	0.724337	0.636112	0.530007	0.592392

OBS	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD	CRMNWD	VANGS	VANGB	SHINL	NWNOFHD	IBLWR	OBLWR
41	0.969067	0.320317	0.179457	1	0.480413	0.145974	-.013397	0.334732	-0.1766	-0.75531	0.675929	0.1984
42	0.432296	0.308172	0.126392	0.480413	1	0.589535	-.115209	0.178614	-.140379	-.556791	0.400652	0.139682
43	.0809298	0.298665	.0320112	0.145974	0.589535	1	-.039211	0.109369	-.021005	-.209139	0.176385	.0692862
44	-5.7E-04	.0752326	-.064961	-.013397	-.115209	-.039211	1	0.22606	-.222593	0.117252	-.040454	-0.00294
45	0.305294	0.292033	-.204625	0.334732	0.178614	0.109369	0.22606	1	-.169225	-.303828	0.271036	0.101277
46	-.178101	-.204901	0.085202	-0.1766	-.140379	-.021005	-.222593	-.169225	1	0.113954	.0376297	-.079366
47	-.705346	-.164918	-.268289	-0.75531	-.556791	-.209139	0.117252	-.303628	0.113954	1	-.675284	-.202136
48	0.634397	.0535677	0.198372	0.675929	0.400652	0.176385	-.040454	0.271036	.0376297	-.675284	1	0.396839

OBS	INVLWR	CRLLWR	CORLWR	CORLNWR	STLLBR	TFLPLR	INFLWR	LRNFNR	ALFMLR	LCPFCLR
41	-.125803	0.637588	0.546247	0.777371	0.33638	-.649026	-.316098	0.781516	-.435126	0.427619
42	-.158859	0.218405	-.451881	.0709026	.0485173	-.622669	-.117516	0.553569	-.067002	-.175704
43	-.048182	-.087983	-.381048	-.490116	-.169831	-.300707	.0465142	0.215221	0.123841	-.219363
44	.0676073	-.048689	.0815338	-0.00909	-.058622	0.119812	.0714705	-.073076	.0354948	0.030811
45	.0948033	0.212786	0.166417	0.233207	-.006021	-.243253	.0497686	0.235449	-.150313	.0072204
46	-.016362	-.114545	-.056945	-.146233	.0772387	0.084228	-.031327	-.071254	0.144068	-.047954
47	0.364436	-.450768	-.242132	-0.52546	-.336285	0.741702	0.513606	-.869346	0.392538	-0.29273
48	-.072182	0.387572	0.310394	0.477193	0.400725	-.662151	-.259724	0.668652	-.283954	0.296659



OBS	_TYPE_	_NAME_	RACHLEN	INTNOLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS
49	CORR	OBLWR	-.094025	-.132295	-.143914	-.278599	-.162684	0.106727	0.004566	.0887383	0.103984	0.187968
50	CORR	INVLWR	-.133305	-.167418	.0181678	0.106556	0.09201	.0208196	-.199903	-0.12847	-.082876	0.126787
51	CORR	CRLLWR	-.155944	-.045828	-.073305	-.188861	-.130972	.0690279	.0201276	-.045136	.0297803	-.149343
52	CORR	CORLWR	-.018639	-.006746	-0.03609	-.094424	-.058068	0.120548	.0145063	-.093464	.0267213	-.021963
53	CORR	CORLMWR	-.070995	.0551761	-.106052	-.257264	-.166815	0.120634	.0102144	.0058711	.0359024	-.094845
54	CORR	STLLBR	.0189304	-0.09991	-.012463	-.144824	-.162113	.0737035	.0214622	0.100746	0.189419	-.069061
55	CORR	TFLPLR	.0512937	-.151805	0.197191	0.343256	0.191521	-.091956	-.138562	-.241442	-.190096	.0632013
56	CORR	INFLWR	-0.07433	-.140563	-.022382	0.103547	0.127944	-.095838	-.170224	-.106058	-.123329	0.233165

OBS	NSECV	PINSV	PTLLN	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL
49	-.087012	-.122914	-0.0097	-.026508	0.23162	0.261047	0.294015	-.095679	-.159932	0.241837	0.220522	0.226617
50	0.196204	0.112006	-.045225	-.126569	-.112039	-.183126	-.320148	-.278147	-.356168	-.180348	-.466291	-.166418
51	-.013264	-.294649	.0857297	-.128672	0.42993	0.412043	0.441897	0.198604	0.395967	0.402285	0.31786	0.503398
52	-.080866	-.084023	-.078383	-0.1117	0.262263	0.198421	0.244878	-.067594	0.232271	0.207078	0.123438	0.224705
53	-.185158	-0.26764	.0696721	-.060232	0.555695	0.499203	0.55021	0.238122	0.51388	0.522152	0.441679	0.541753
54	-0.03679	-.168795	.0785481	.0747341	0.150646	0.336066	0.347394	.0258623	0.290647	0.325976	0.368408	0.225168
55	0.238227	0.334359	-.166869	.0022027	-.761827	-.819247	-0.80476	-.587694	-.760911	-.804032	-.788928	-.713995
56	0.268923	0.10109	-.050331	-.091441	-.253877	-.316602	-.437266	-.269935	-.478141	-.338446	-.465792	-.301696

OBS	LBRP	NFLOR	CORLLN	CORLWD	CORTWD	LCTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN
49	0.168534	0.247731	0.119972	-.037154	0.179553	0.188246	0.117765	0.232668	0.197138	0.193226	0.165086	0.219835
50	-0.13993	-.389176	.0340705	-.069738	-.199055	-.132036	-.493561	-0.16653	-.178612	-.137087	-0.12013	-.088237
51	0.366889	0.368226	0.849975	-.358147	0.258137	0.550855	0.397616	0.472329	0.552381	0.590141	0.541052	0.612634
52	.0652867	0.218262	0.404361	-.159276	-.275672	0.617279	0.413628	0.346149	0.402278	0.544349	0.459325	0.372219
53	0.399333	0.501056	0.603854	-.112773	0.139103	0.780668	0.631494	0.641283	0.696453	0.781462	0.699791	0.634764
54	0.21941	0.398455	.0941659	-.098959	0.197361	0.404043	0.502899	0.391513	0.315218	0.397604	0.23704	0.332767
55	-.675429	-.742101	-.431167	-.161537	-0.59432	-.563276	-.652264	-.695337	-0.81338	-.551883	-.502573	-.567404
56	-.245146	-.446978	-.110121	-.077075	-0.20214	-.331101	-[illegible]	-.318462	-.357859	-.316626	-.297514	-.236153

OBS	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD	CRMNWD		VANOB	SHINL	NMNOFHD	IBLWR	OBLWR
49	0.190272	.0040288	.0926715	0.1984	0.139682	.0692862	-0.	0.101277	-.079386	-.202136	0.396839	1
50	-.105031	0.145857	-.358254	-.125803	-.158859	-.048182	.067[illegible]3	0948033	-.016362	0.364436	-.072182	0.130295
51	0.607802	0.194303	.0847783	0.637588	0.218005	-.087983	-.048689	0.212786	-.114545	-.450768	0.387572	0.126354
52	0.553085	.0655548	.0486086	0.546247	-.451881	-.381048	.0815338	0.166417	-.056945	-.242132	0.310194	0.064034
53	0.789556	0.113179	0.128359	0.777371	.0709026	-.490116	-0.00909	0.233207	-.146233	-0.52546	0.477193	0.12346
54	0.378269	-.699185	0.363983	0.33638	.0485173	-.169831	-.058622	-.006021	.0772387	-.336285	0.400725	.0760305
55	-.552294	-.302291	-.118502	-.645026	-.622669	-.300707	0.119812	-.243253	0.084228	0.741702	-.662151	-.135471
56	-.293219	0.133108	-.337984	-.316098	-.117516	.0465142	.0714705	.0497686	-.031327	0.513606	-.259724	0.140752

OBS	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR	ALFMLR	LCPFCLR
49	0.130295	0.126354	0.064034	0.12346	.0760305	-.135471	0.140752	0.220817	-.110052	0.092956
50	1	.0708092	0.00625	-.087401	-.304092	0.30648	0.708646	-.207912	0.104381	-.160581
51	.0708092	1	0.455229	0.615603	0.135108	-.32.926	-.051163	0.531223	-.242882	.0447519
52	0.00625	0.455229	1	0.7041	0.261222	-.08/219	-.217043	0.268305	-0.36443	0.556951
53	-.087401	0.615603	0.7041	1	0.38602	-.391747	-.307071	0.535632	-0.44878	0.464077
54	-.304092	0.135108	0.261222	0.38602	1	-.160587	-.377045	0.315456	-.124581	0.412878
55	0.30648	-.323926	-.087219	-.391747	-.160587	1	0.440381	0.208917	-.105777	
56	0.788646	-.051163	-.217043	-.307071	-.377045	0.440381	1	-.340511	0.230833	-0.3001

OBS	_TYPE_	_NAME_	RACMLEN	INTNDLN	LNWDRL	MXLNL	MXWDL	APXAN	APXPS	BSAN	BSPS	SVINS
57	CORR	LRNFHR	-.120863	0.109665	-.156469	-.315272	-0.17844	0.137985	.0564081	0.223448	0.204125	-.168413
58	CORR	ALFMLR	0.171884	-.061880	0.124294	0.259997	0.136374	-.087366	.0240612	.0121162	.0742945	0.185862
59	CORR	LCPFCLR	.0047821	.0732817	-0.07324	-.131295	-.072748	.0686039	.0542597	.0338988	.0658884	-.019984

OBS	NSECV	PINSV	PTLLN	INTLN	NBR	IBRL	OBRL	IBRW	OBRW	INMXL	INMXW	PMXL
57	-.151994	-.258313	0.190447	-.019066	0.758444	0.803897	0.799945	0.527833	0.709323	0.81879	0.778827	0.781512
58	0.275911	.0922732	-.037752	.0367887	-.335126	-.247459	-.328669	-0.09153	-.314656	-.250763	-.241756	-.293782
59	-.148019	-.053011	-.042261	-.052103	0.263572	0.275137	0.288059	.0840981	0.243796	0.29821	0.268328	0.193088

OBS	LBRP	NFLOR	CORLLN	CORLWD	CORTWD	LGTPFA	INFW	INFL	PAPMXLN	TFLLN	FMXLN	AMXLN
57	0.629999	0.761764	0.632604	0.124232	0.617239	0.729477	0.736668	0.816782	0.785098	0.746951	0.645422	0.705299
58	-.142454	-.236958	-.403527	-.255693	-.176905	-.434139	-.370328	-.287569	-.343816	-.417097	-.802023	-.121545
59	.0792173	0.287637	.0655662	-0.00815	-.024166	0.660434	0.424393	0.38324	0.328809	0.437207	0.270627	0.184921

OBS	STMXLN	STMXLOL	VACMXLN	CRMXLN	CRMXWD	CRMNWD	VANGS	VANGB	SHINL	NWNOFHO	IBLWR	OBLWR
57	0.746637	0.212653	0.225589	0.781516	0.553569	0.215221	-.073076	0.235449	-.071254	-.869346	0.668652	0.220817
58	-.439301	-.073921	0.049752	-.435126	-.067002	0.123841	.0354948	-.150313	0.144065	0.392538	-.283954	-.110052
59	0.438167	-.137231	0.149189	0.427619	-.175704	-.219363	0.030811	.0072204	-.047954	-0.29273	0.296659	0.092956

OBS	INVLWR	CRLLWR	CORLWR	CORLMWR	STLLBR	TFLPLR	INFLWR	LRNFHR	ALFMLR	LCPFCLR
57	-.207912	0.531223	0.268305	0.535632	0.315456	-.650549	-.340511	1	-.314457	0.282819
58	0.104381	-.242862	-0.36443	-0.44878	-.124561	0.208917	0.230833	-.314457	1	-.307395
59	-.160581	.0447519	0.556951	0.464077	0.412878	-.105777	-0.3001	0.282819	-.307395	1

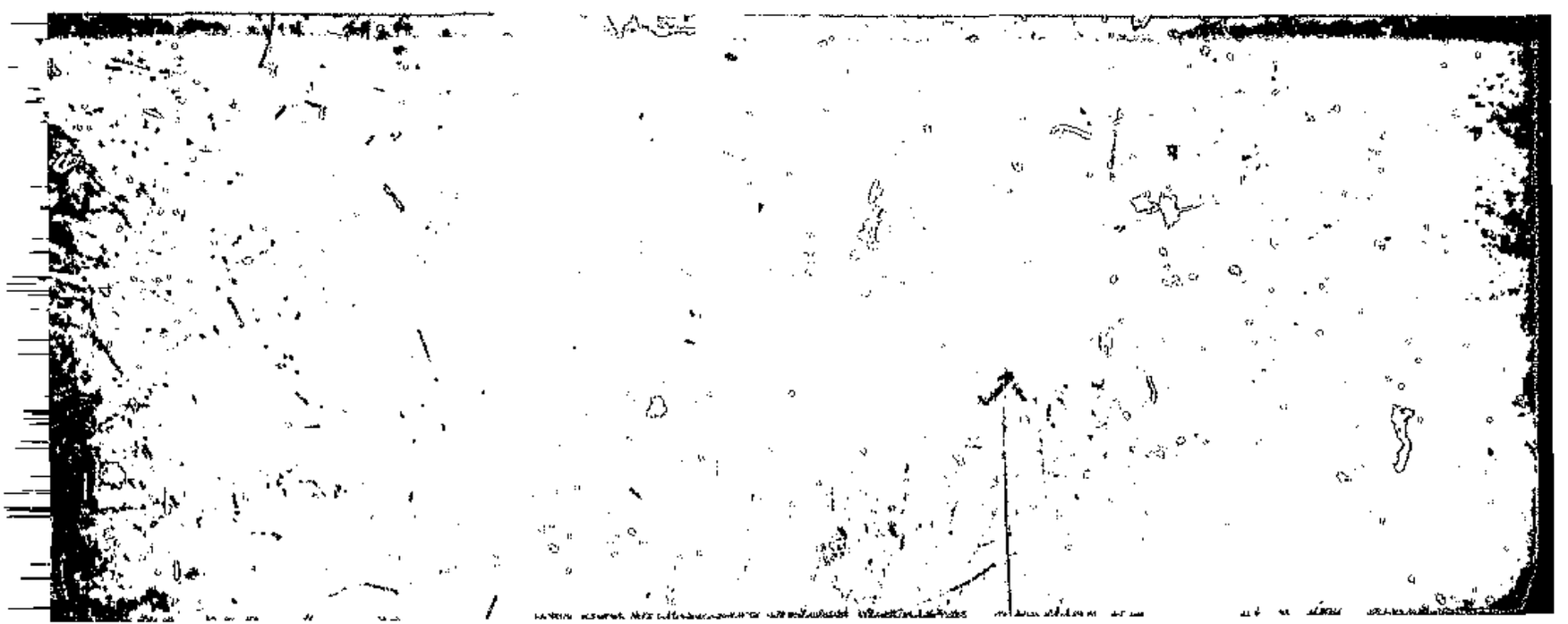
APPENDIX IIA

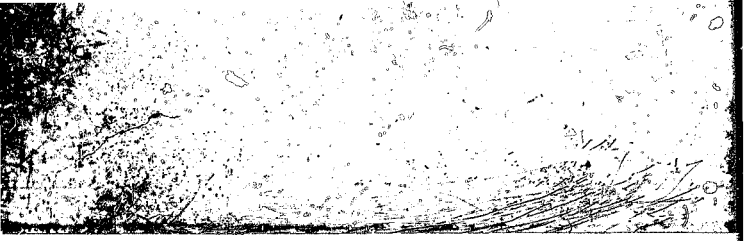
Matrix of Distance Values for
150 Female OTUs

COMPUTE DISTANCE

	OTU 039	OTU 042	OTU 043	OTU 045	OTU 047	OTU 049	OTU 050	OTU 053	OTU 054	OTU 057
OTU 039	0.000									
OTU 042	2.052	0.000								
OTU 043	1.602	1.417	0.000							
OTU 045	1.986	1.484	1.418	0.000						
OTU 047	1.776	1.379	1.331	1.069	0.000					
OTU 049	1.751	1.640	1.345	1.353	1.254	0.000				
OTU 050	1.966	1.206	1.468	1.332	1.293	1.365	0.000			
OTU 053	1.789	1.577	1.501	1.207	1.178	1.094	1.492	0.000		
OTU 054	1.847	1.219	1.540	1.282	1.141	1.305	1.293	1.253	0.000	
OTU 057	1.847	1.147	1.291	1.349	1.155	1.377	1.159	1.308	1.132	0.000
OTU 059	1.759	1.130	1.376	1.155	1.103	1.300	1.178	1.234	0.965	0.795
OTU 060	1.832	1.373	1.358	1.266	1.266	1.346	1.223	1.322	1.303	0.968
OTU 061	1.702	1.511	1.376	1.525	1.283	1.312	1.287	1.342	1.379	1.018
OTU 064	1.588	1.423	1.273	1.301	1.216	1.331	1.377	1.422	1.079	1.328
OTU 066	1.933	1.186	1.391	1.040	1.083	1.385	1.036	1.323	1.121	1.113
OTU 068	1.761	1.467	1.275	1.300	1.136	1.063	1.166	1.121	1.260	1.425
OTU 070	1.551	1.649	1.050	1.431	1.577	1.374	1.346	1.363	1.436	1.144
OTU 071	1.739	1.539	1.341	1.236	1.258	1.390	1.364	1.243	1.138	1.003
OTU 076	1.348	1.362	1.135	1.511	1.346	1.500	1.257	1.433	1.241	0.968
OTU 077	1.668	1.730	1.313	1.889	1.437	1.767	1.582	1.778	1.89[illegible]	1.370
OTU 078	1.581	1.355	1.165	1.454	1.002	1.393	1.205	1.412	1.392	1.008
OTU 080	1.422	1.298	1.033	1.329	1.306	1.468	1.337	1.344	1.393	0.957
OTU 083	1.575	1.300	1.261	1.115	1.140	1.372	1.187	1.115	1.129	1.091
OTU 085	1.585	1.194	1.215	1.403	1.254	1.307	1.171	1.310	1.094	0.927
OTU 086	1.637	1.372	1.105	1.433	1.151	1.241	1.236	1.330	1.288	0.915
OTU 088	1.505	1.843	1.230	1.995	1.628	1.510	1.672	1.768	1.935	1.541
OTU 090	1.231	1.612	1.292	1.947	1.490	1.581	1.681	1.732	1.548	1.473
OTU 091	1.351	1.698	1.004	1.497	1.272	1.577	1.597	1.523	1.622	1.467
OTU 093	2.101	1.469	1.621	1.196	1.421	1.675	1.413	1.499	1.539	1.259
OTU 094	1.235	1.861	1.323	1.799	1.530	1.747	1.663	1.743	1.879	1.680
OTU 097	1.617	1.909	1.320	2.091	1.697	1.903	1.840	2.111	1.931	1.684
OTU 100	1.726	1.350	1.103	1.204	1.290	1.240	1.282	1.287	0.978	1.040
OTU 102	1.189	1.739	1.225	1.640	1.441	1.689	1.585	1.673	1.642	1.672
OTU 104	1.729	1.467	1.391	1.241	1.126	1.255	1.285	1.106	1.269	1.106
OTU 106	2.011	1.517	1.657	1.315	1.107	1.374	1.304	1.323	1.519	1.334
OTU 108	1.628	1.624	1.263	1.575	1.456	1.370	1.361	1.356	1.576	1.154
OTU 110	1.794	1.189	1.413	1.160	1.077	1.125	1.152	1.192	0.996	1.216
OTU 112	1.992	1.523	1.851	1.414	1.367	1.662	1.638	1.565	1.513	1.552
OTU 114	1.943	1.131	1.351	1.130	1.103	1.417	1.029	1.243	1.227	1.103
OTU 115	1.800	1.176	1.158	1.582	1.278	1.241	1.157	1.328	1.309	1.133
OTU 116	1.801	2.099	1.879	2.117	1.816	2.079	1.928	1.990	1.914	1.780
OTU 119	1.305	1.751	1.373	1.97[illegible]	1.653	1.929	1.802	1.843	1.799	1.793
OTU 122	1.064	2.107	1.228	1.883	1.739	1.749	1.857	1.855	1.933	1.817
OTU 125	1.253	2.021	1.420	2.026	1.641	1.894	1.974	1.899	2.053	1.798
OTU 127	1.458	1.438	1.295	1.469	1.382	1.597	1.276	1.562	1.370	1.289
OTU 129	1.676	1.311	1.481	1.299	0.977	1.456	1.183	1.387	0.967	1.031
OTU 130	1.721	1.302	1.447	1.387	1.083	1.368	1.248	1.266	1.059	1.028
OTU 132	1.466	1.190	1.212	1.401	1.020	1.545	1.353	1.544	1.237	1.125
OTU 135	2.069	1.477	1.651	1.334	1.339	1.403	1.200	1.353	1.326	1.057
OTU 136	1.791	1.220	1.465	1.476	1.175	1.362	1.167	1.295	1.179	1.183

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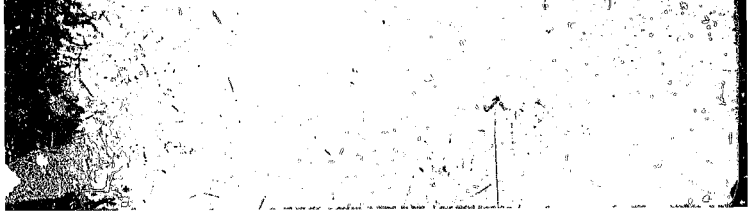


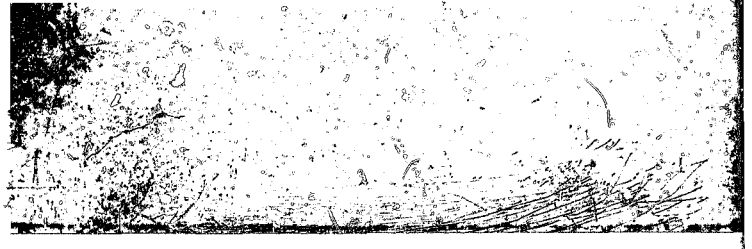


COMPUTE DISTANCE

	OTU 039	OTU 042	OTU 0'	OTU 045	OTU 047	OTU 049	OTU 050	OTU 053	OTU 054	OTU 057
OTU 138	2.126	1.458	1.637	1.596	1.430	1.293	1.380	1.566	1.548	1.518
OTU 140	1.728	1.286	1.315	1.376	1.173	1.321	1.255	1.323	1.160	1.091
OTU 143	1.721	1.388	1.379	1.644	1.389	1.367	1.435	1.353	1.447	1.046
OTU 145	1.952	1.068	1.599	1.394	1.268	1.234	1.102	1.379	1.068	0.990
OTU 147	1.638	1.113	1.039	1.415	1.308	1.318	1.184	1.341	1.202	1.098
OTU 149	1.630	1.195	1.280	1.528	1.336	1.338	1.175	1.535	1.338	1.166
OTU 151	1.871	1.312	1.419	1.368	1.298	1.291	1.233	1.439	1.292	1.036
OTU 152	1.656	1.684	1.364	1.632	1.523	1.385	1.316	1.451	1.615	1.292
OTU 153	1.328	1.521	1.266	1.190	1.539	1.403	1.399	1.519	1.482	1.290
OTU 155	1.797	1.130	1.087	1.165	1.190	1.096	1.062	1.161	1.361	1.067
OTU 158	1.569	1.482	1.137	1.773	1.432	1.324	1.364	1.641	1.502	1.479
OTU 159	1.633	1.995	1.200	1.357	1.368	1.126	1.221	1.117	1.370	1.043
OTU 162	2.170	1.173	1.338	1.581	1.550	1.621	1.484	1.647	1.481	1.249
OTU 165	1.743	1.377	1.379	1.823	1.768	1.683	1.587	1.672	1.684	1.297
OTU 166	1.958	1.484	1.524	1.578	1.477	1.215	1.292	1.358	1.494	1.115
OTU 167	1.981	1.506	1.193	1.611	1.457	1.340	1.287	1.480	1.611	1.191
OTU 171	1.740	1.105	1.359	1.176	1.320	1.218	1.178	1.216	1.060	1.085
OTU 177	1.595	1.393	1.384	1.388	1.353	1.258	1.506	1.385	1.127	1.240
OTU 181	1.374	1.592	1.135	1.486	1.270	1.170	1.206	1.408	1.356	0.929
OTU 183	1.664	1.505	1.306	1.980	1.498	1.275	1.209	1.331	1.330	1.182
OTU 186	1.633	1.450	1.207	1.602	1.279	1.223	1.088	1.366	1.429	1.173
OTU 187	1.614	1.136	1.273	1.382	1.161	1.276	1.070	1.335	1.133	1.188
OTU 189	1.614	1.526	1.268	1.484	1.443	1.461	1.342	1.518	1.544	1.107
OTU 191	1.768	1.108	1.166	1.288	1.117	1.219	1.229	1.396	1.239	0.963
OTU 194	1.557	1.415	1.355	1.517	1.235	1.344	1.215	1.445	1.215	0.923
OTU 196	1.778	1.167	1.188	1.337	1.214	1.369	1.192	1.419	1.231	1.033
OTU 197	1.798	1.48	1.311	1.290	1.128	1.532	1.496	1.491	1.339	1.022
OTU 198	1.637	1.210	1.247	1.207	1.267	1.366	1.374	1.362	0.937	1.125
OTU 200	1.855	1.063	1.374	1.573	1.251	1.495	1.391	1.428	1.257	1.085
OTU 202	1.697	1.670	1.367	1.336	1.118	1.176	1.530	1.117	1.297	1.181
OTU 206	1.559	1.382	1.218	1.576	1.290	1.319	1.260	1.416	1.179	1.073
OTU 209	1.705	1.207	1.401	1.398	1.275	1.502	1.401	1.477	1.483	1.235
OTU 210	1.830	1.292	1.404	1.031	1.037	1.331	1.299	1.485	1.093	1.236
OTU 213	1.670	1.178	1.347	1.468	1.271	1.355	1.234	1.404	1.248	1.031
OTU 217	1.170	1.574	1.118	1.646	1.494	1.434	1.479	1.581	1.279	1.429
OTU 219	1.356	1.339	1.187	1.846	1.493	1.601	1.638	1.739	1.672	1.468
OTU 2'	1.108	1.680	1.176	1.569	1.560	1.560	1.698	1.698	1.585	1.513
OTU 2[	2.174	1.504	1.653	1.775	1.598	1.611	1.565	1.649	1.580	1.609
OTU 221	1.847	1.678	1.594	1.385	1.370	1.237	1.279	1.431	1.401	1.057
OTU 222	1.789	1.416	1.389	1.455	1.204	1.232	1.266	1.393	1.338	1.126
OTU 231	1.866	1.422	1.582	1.425	1.206	1.366	1.350	1.414	1.456	1.170
OTU 234	2.192	1.611	1.918	1.564	1.504	1.425	1.697	1.519	1.515	1.406
OTU 235	1.847	1.485	1.669	1.579	1.322	1.322	1.668	1.479	1.316	1.288
OTU 236	2.013	1.506	1.621	1.289	1.275	1.337	1.359	1.373	1.507	1.280
OTU 239	2.003	1.310	1.803	1.469	1.367	1.367	1.435	1.468	1.231	1.376
OTU 241	2.119	1.512	1.784	1.298	1.508	1.646	1.565	1.590	1.482	1.434
OTU 243	1.841	1.404	1.602	1.625	1.293	1.206	1.469	1.407	1.475	1.198
OTU 246	1.908	1.518	1.649	1.472	1.395	1.087	1.389	1.296	1.369	1.285
OTU 247	2.087	1.355	1.632	1.597	1.304	1.290	1.513	1.504	1.531	1.309
OTU 251	2.076	1.399	1.580	1.341	1.037	1.289	1.171	1.447	1.387	1.061

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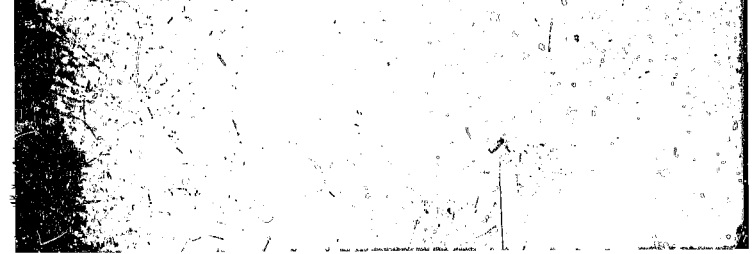


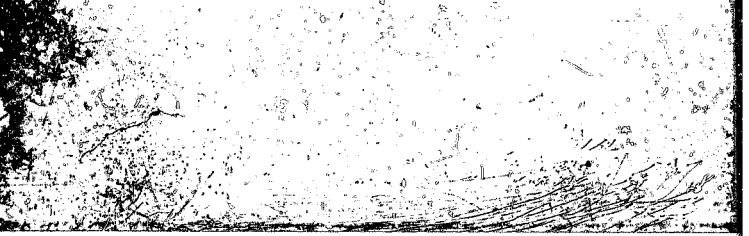


CONTINUATION OF

COMPUTE DISTANCE

	OTU 039	OTU 082	OTU 083	OTU 085	OTU 087	OTU 089	OTU 090	OTU 093	OTU 094	OTU 097
OTU 252	2.283	1.918	1.888	1.699	1.748	1.719	1.773	1.735	1.933	1.686
OTU 254	1.939	1.589	1.614	1.473	1.230	1.059	1.259	1.490	1.581	1.274
OTU 256	1.901	1.349	1.526	1.350	1.211	1.387	1.187	1.381	1.381	0.885
OTU 259	2.042	1.714	1.593	1.375	1.437	1.272	1.541	1.369	1.610	1.588
OTU 260	1.976	1.393	1.397	1.374	1.218	1.174	1.304	1.438	1.420	1.239
OTU 262	1.731	1.478	1.414	1.245	1.217	1.203	1.461	1.351	1.290	1.383
OTU 264	1.563	1.304	1.311	1.525	1.239	1.314	1.310	1.414	1.301	1.109
OTU 266	1.855	1.511	1.482	1.459	1.318	1.149	1.291	1.296	1.431	1.091
OTU 268	1.938	1.287	1.350	1.362	1.318	1.092	1.178	1.223	1.356	1.188
OTU 270	1.844	0.956	1.628	1.383	1.318	1.120	1.161	1.245	1.134	1.050
OTU 272	1.936	1.569	1.467	1.524	1.412	1.097	1.326	1.521	1.369	1.431
OTU 273	1.750	1.258	1.444	1.531	1.183	1.189	1.229	1.413	1.343	1.181
OTU 276	2.003	1.327	1.630	1.594	1.457	1.345	1.448	1.640	1.559	1.198
OTU 278	2.201	1.522	1.490	1.511	1.358	1.482	1.469	1.572	1.477	1.339
OTU 280	1.828	1.366	1.287	1.113	1.144	1.080	1.133	1.225	1.242	1.280
OTU 281	2.042	1.166	1.498	1.810	1.180	1.365	1.303	1.381	1.268	1.333
OTU 283	2.042	1.525	1.997	1.831	1.551	1.463	1.562	1.335	1.452	1.245
OTU 284	1.936	1.439	1.539	1.338	1.256	1.083	1.317	1.319	1.190	1.128
OTU 288	2.028	1.458	1.468	1.553	1.466	1.195	1.286	1.526	1.348	1.324
OTU 289	1.939	1.550	1.402	1.395	1.156	1.333	1.472	1.433	1.376	1.169
OTU 292	1.639	1.345	1.319	1.556	1.235	1.037	1.143	1.382	1.134	1.099
OTU 295	1.824	1.404	1.495	1.576	1.343	1.193	1.206	1.463	1.395	1.044
OTU 296	1.664	1.296	1.425	1.709	1.495	1.099	1.454	1.707	1.280	1.471
OTU 297	1.598	1.334	1.487	1.823	1.516	1.094	1.377	1.718	1.401	1.385
OTU 298	1.194	1.703	1.400	1.787	1.656	1.584	1.617	1.637	1.292	1.570
OTU 301	1.227	1.657	1.413	1.927	1.750	1.651	1.670	1.757	1.567	1.627
OTU 305	1.501	1.572	1.359	2.030	1.763	1.823	1.743	1.835	1.547	1.544
OTU 306	1.569	1.601	1.351	1.868	1.701	1.828	1.631	1.819	1.494	1.558
OTU 308	1.567	1.670	1.313	1.816	1.703	1.822	1.573	1.885	1.573	1.626
OTU 310	1.499	1.551	1.405	1.938	1.702	1.866	1.563	1.872	1.597	1.524
OTU 311	1.517	1.681	1.176	1.799	1.563	1.630	1.491	1.745	1.452	1.406
OTU 313	1.675	1.550	1.287	1.908	1.710	1.814	1.682	1.842	1.618	1.659
OTU 314	1.603	1.260	1.509	1.387	1.589	1.607	1.582	1.773	1.408	1.358
OTU 316	1.432	1.319	1.140	1.564	1.477	1.667	1.331	1.509	1.445	1.273
OTU 321	1.248	1.629	1.446	1.792	1.499	1.651	1.459	1.581	1.357	1.319
OTU 324	1.346	1.579	1.397	1.681	1.476	1.510	1.459	1.673	1.268	1.390
OTU 326	1.388	1.495	1.143	1.561	1.466	1.562	1.334	1.637	1.304	1.379
OTU 327	1.467	1.569	1.432	1.744	1.503	1.446	1.379	1.585	1.381	1.506
OTU 331	1.257	1.681	1.332	1.909	1.507	1.513	1.485	1.590	1.305	1.505
OTU 332	1.325	1.818	1.161	1.640	1.615	1.457	1.607	1.597	1.510	1.564
OTU 333	1.557	1.578	1.197	1.605	1.448	1.659	1.391	1.758	1.427	1.369
OTU 336	1.597	1.828	1.299	1.977	1.796	1.860	1.711	1.978	1.836	1.678
OTU 337	1.591	1.671	1.121	1.829	1.687	1.822	1.556	1.842	1.692	1.599
OTU 339	1.451	1.499	1.113	1.758	1.557	1.654	1.582	1.768	1.446	1.431
OTU 340	1.168	1.728	1.113	1.694	1.583	1.616	1.472	1.550	1.318	1.458
OTU 341	1.380	1.448	1.148	1.784	1.408	1.535	1.346	1.658	1.329	1.275
OTU 342	1.563	1.524	1.283	1.891	1.549	1.716	1.527	1.836	1.582	1.523
OTU 343	1.396	1.669	1.262	1.987	1.726	1.795	1.633	1.857	1.656	1.601
OTU 344	1.861	1.927	1.581	2.316	1.996	2.109	1.835	2.253	2.062	1.801
OTU 345	1.392	1.637	1.091	1.819	1.580	1.736	1.552	1.751	1.606	1.399



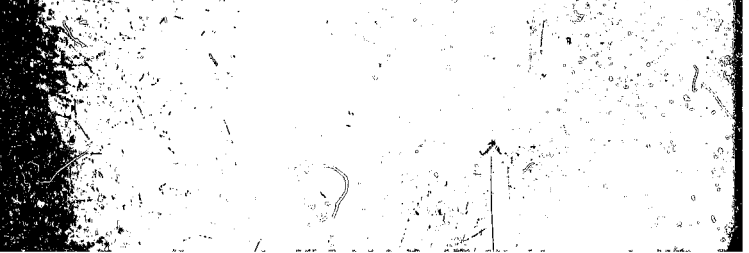


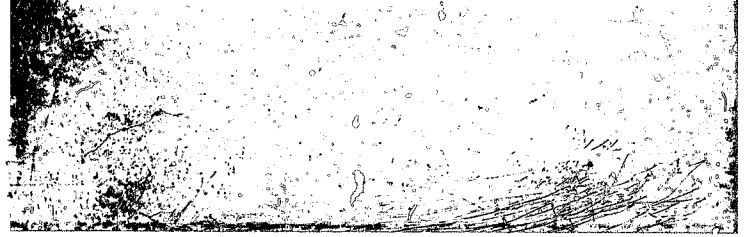
IDENTIFICATION:

COMPUTE DISTANCE

	OTU 059	OTU 060	OTU 061	OTU 064	OTU 066	OTU 068	OTU 070	OTU 071	OTU 076	OTU 077
OTU 059	0.000									
OTU 060	0.786	0.000								
OTU 061	1.038	1.167	0.000							
OTU 064	1.130	0.992	1.180	0.000						
OTU 066	1.035	0.992	1.338	1.469	0.000					
OTU 068	1.347	1.340	1.424	1.351	1.147	0.000				
OTU 070	1.251	1.192	1.140	1.349	1.421	1.412	0.000			
OTU 071	0.909	0.923	0.970	1.172	1.187	1.456	1.068	0.000		
OTU 076	1.017	1.141	1.117	1.235	1.239	1.405	0.972	1.041	0.000	
OTU 077	1.470	1.543	1.337	1.593	1.710	1.618	1.542	1.600	1.211	0.000
OTU 078	1.041	1.241	0.996	1.313	1.237	1.267	1.361	1.222	1.018	0.910
OTU 080	0.918	1.035	1.108	1.296	1.216	1.430	0.934	0.995	0.729	1.190
OTU 083	0.835	1.042	1.103	1.010	1.160	1.250	1.036	0.986	1.115	1.486
OTU 085	0.801	0.980	0.959	1.129	1.136	1.234	1.049	0.936	0.912	1.414
OTU 086	1.018	1.107	0.984	1.227	1.298	1.257	1.127	1.183	1.149	1.139
OTU 088	1.682	1.600	1.503	1.647	1.883	1.517	1.403	1.777	1.401	1.083
OTU 090	1.389	1.430	1.312	1.306	1.625	1.542	1.394	1.468	1.156	1.222
OTU 091	1.51	1.545	1.523	1.416	1.604	1.461	1.205	1.428	1.246	1.225
OTU 093	0.967	1.000	1.009	1.420	1.127	1.515	1.046	1.202	1.186	1.615
OTU 094	1.087	1.590	1.684	1.682	1.625	1.500	1.488	1.636	1.289	1.381
OTU 097	1.783	1.809	1.676	1.755	1.890	1.155	1.659	1.768	1.449	1.293
OTU 100	0.936	1.061	1.223	1.038	1.230	1.355	0.893	0.917	1.055	1.388
OTU 102	1.589	1.694	1.628	1.399	1.609	1.635	1.468	1.683	1.254	1.326
OTU 104	0.967	1.187	1.059	1.269	1.270	1.200	1.233	1.104	1.294	1.583
OTU 106	1.134	1.186	1.377	1.485	1.162	1.357	1.580	1.383	1.588	1.499
OTU 108	1.143	1.078	1.059	1.614	1.864	30	1.023	1.177	1.017	1.335
OTU 110	0.980	1.116	1.266	1.263	0.839	1.069	1.467	1.171	1.346	1.681
OTU 112	1.804	1.994	1.656	1.688	1.274	1.565	1.815	1.496	1.662	1.904
OTU 114	1.089	1.169	1.157	1.317	0.937	1.104	1.405	1.254	1.351	1.519
OTU 115	1.807	1.956	1.111	1.337	1.297	1.272	1.398	1.372	1.183	1.360
OTU 116	1.705	1.752	1.684	1.847	1.848	1.905	1.808	1.614	1.650	1.709
OTU 119	1.715	1.695	1.696	1.843	1.683	1.665	1.619	1.667	1.399	1.496
OTU 122	1.795	1.764	1.513	1.510	1.896	1.693	1.368	1.525	1.291	1.438
OTU 125	1.710	1.695	1.595	1.847	1.867	1.750	1.762	1.693	1.422	1.316
OTU 127	1.205	1.281	1.289	1.291	1.301	1.220	1.231	1.200	0.961	1.476
OTU 129	1.345	1.491	1.062	1.284	1.090	1.287	1.385	1.118	1.087	1.430
OTU 130	0.967	1.312	0.986	1.208	1.210	1.118	1.416	1.020	1.007	1.591
OTU 132	1.050	1.093	1.287	1.056	1.240	1.336	1.486	1.296	1.050	1.212
OTU 135	1.583	1.676	1.129	1.358	1.192	1.406	1.358	1.099	1.306	1.663
OTU 136	1.048	1.333	1.082	1.369	1.177	1.342	1.417	1.275	1.195	1.410
OTU 138	1.366	1.532	1.187	1.543	1.497	1.453	1.737	1.501	1.458	1.708
OTU 140	0.962	1.200	1.028	1.250	1.270	1.277	1.219	1.005	1.118	1.484
OTU 143	1.101	1.275	0.972	1.498	1.432	1.404	1.281	1.213	1.073	1.285
OTU 145	0.880	1.132	1.032	1.301	1.097	1.319	1.461	1.223	1.245	1.672
OTU 147	0.901	1.026	1.047	1.051	1.243	1.272	1.085	1.007	0.976	1.364
OTU 149	1.070	1.287	1.217	1.353	1.063	1.381	1.316	1.345	0.958	1.292
OTU 151	0.993	1.152	1.165	1.324	1.058	1.254	1.454	1.216	1.200	1.512
OTU 152	1.186	1.305	0.956	1.447	1.192	1.483	1.267	1.305	1.116	1.263
OTU 154	1.073	1.228	1.051	1.291	1.510	1.453	0.969	1.146	1.046	1.417
OTU 155	1.030	1.013	1.127	1.284	1.028	1.063	1.223	1.147	1.103	1.350

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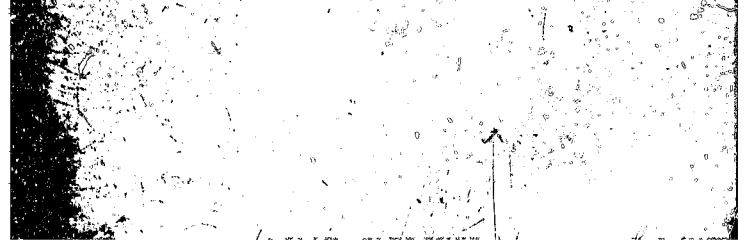


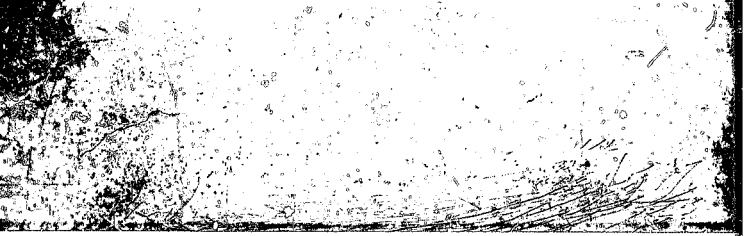


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	OTU 059	OTU 060	OTU 061	OTU 064	OTU 066	OTU 068	OTU 070	OTU 071	OTU 076	OTU 077
OTU 158	1.362	1.431	1.381	1.260	1.467	1.279	1.412	1.532	1.304	1.397
OTU 159	1.143	1.226	0.785	1.108	1.313	1.232	0.922	1.793	1.045	1.399
OTU 162	1.276	1.287	1.480	1.500	1.316	1.593	1.615	1.409	1.428	1.640
OTU 165	1.067	1.184	1.100	1.439	1.313	1.710	1.189	1.257	1.134	1.480
OTU 166	1.237	1.357	1.046	1.447	1.617	1.261	1.497	1.392	1.470	1.570
OTU 167	1.234	1.408	0.925	1.492	1.564	1.460	1.340	1.316	1.428	1.401
OTU 171	0.706	1.001	1.127	0.928	1.210	1.212	1.202	1.067	1.176	1.562
OTU 177	0.971	1.127	1.255	1.339	1.319	1.430	1.239	1.106	1.233	1.776
OTU 181	1.022	1.071	0.834	1.383	1.201	1.348	0.971	1.029	0.750	1.155
OTU 183	1.278	1.296	1.077	1.081	1.478	1.177	1.065	1.238	1.257	1.609
OTU 186	1.264	1.394	1.129	1.233	1.619	1.371	1.337	1.273	1.226	1.206
OTU 187	1.120	1.359	1.067	1.303	1.116	1.177	1.326	1.229	1.181	1.951
OTU 189	1.121	1.107	0.978	1.197	1.524	1.513	1.152	1.227	1.089	1.241
OTU 191	0.993	1.109	1.121	1.139	1.202	1.320	1.254	1.123	1.112	1.294
OTU 194	0.852	1.105	0.972	1.167	1.327	1.416	1.178	1.015	0.880	1.192
OTU 196	1.054	1.293	1.238	1.310	1.223	1.207	1.245	1.247	1.171	1.333
OTU 197	1.065	1.299	1.208	1.328	1.398	1.404	1.424	1.213	1.192	1.343
OTU 199	1.053	1.263	1.224	0.891	1.252	1.412	1.289	1.079	1.204	1.684
OTU 200	1.060	1.286	1.279	1.273	1.247	1.381	1.508	1.188	1.197	1.361
OTU 202	1.189	1.217	1.053	1.333	1.314	1.230	1.343	1.007	1.305	1.509
OTU 204	1.004	1.136	0.839	1.252	1.351	1.140	1.266	1.088	0.993	1.233
OTU 209	0.902	1.098	1.261	1.086	1.252	1.514	1.442	1.074	1.073	1.779
OTU 211	1.017	1.332	1.304	1.284	1.092	1.401	1.521	1.253	1.270	1.685
OTU 212	1.164	1.275	1.131	1.475	1.388	1.391	1.419	1.410	1.105	1.325
OTU 214	1.356	1.340	1.102	1.298	1.455	1.286	1.116	1.414	1.273	1.412
OTU 216	1.604	1.740	1.474	1.670	1.731	1.513	1.415	1.652	1.185	1.294
OTU 218	1.464	1.600	1.452	1.412	1.623	1.483	1.565	1.554	1.111	1.609
OTU 220	1.508	1.598	1.393	1.439	1.664	1.565	1.799	1.671	1.494	1.877
OTU 227	0.919	1.157	1.056	1.260	1.275	1.426	1.376	1.115	1.285	1.576
OTU 229	0.995	1.169	1.121	1.208	1.369	1.316	1.366	1.179	1.091	1.411
OTU 231	0.993	1.096	1.057	1.198	1.283	1.306	1.537	1.179	1.111	1.390
OTU 234	1.158	1.318	1.394	1.413	1.503	1.659	1.807	1.240	1.734	1.894
OTU 235	1.082	1.316	1.375	1.260	1.549	1.556	1.650	1.896	1.419	1.654
OTU 236	1.054	1.406	1.247	1.370	1.263	1.343	1.598	1.194	1.476	1.680
OTU 239	1.007	1.282	1.298	1.427	1.267	1.508	1.776	1.317	1.521	1.903
OTU 241	1.043	1.099	1.139	1.279	1.268	1.599	1.701	1.308	1.617	1.966
OTU 243	1.057	1.169	1.153	1.469	1.373	1.371	1.650	1.327	1.418	1.825
OTU 244	1.000	1.160	1.093	1.391	1.383	1.508	1.469	1.227	1.347	1.610
OTU 247	1.132	1.235	1.423	1.519	1.269	1.440	1.764	1.467	1.578	1.643
OTU 251	1.032	1.040	1.104	1.369	1.131	1.355	1.611	1.162	1.363	1.440
OTU 252	1.569	1.640	1.616	1.805	1.788	1.791	1.974	1.653	1.930	1.982
OTU 254	1.192	1.198	1.114	1.442	1.337	1.262	1.427	1.418	1.453	1.486
OTU 256	0.868	.085	0.903	1.408	1.280	1.432	1.332	1.131	1.162	1.348
OTU 259	1.365	1.335	1.591	1.380	1.509	1.358	1.500	1.460	1.717	1.739
OTU 260	1.140	1.005	1.336	1.324	1.231	1.316	1.508	1.201	1.421	1.675
OTU 262	1.094	1.187	1.256	1.011	1.211	1.105	1.394	1.165	1.416	1.513
OTU 264	0.884	1.132	1.016	1.342	1.211	1.336	1.423	1.232	1.156	1.335
OTU 266	1.034	0.865	1.096	1.375	1.247	1.262	1.227	1.177	1.300	1.617
OTU 268	1.059	1.186	1.024	1.343	1.100	1.112	1.393	1.260	1.349	1.500
OTU 270	0.979	1.144	1.279	1.324	1.158	1.269	1.378	1.269	1.216	1.597

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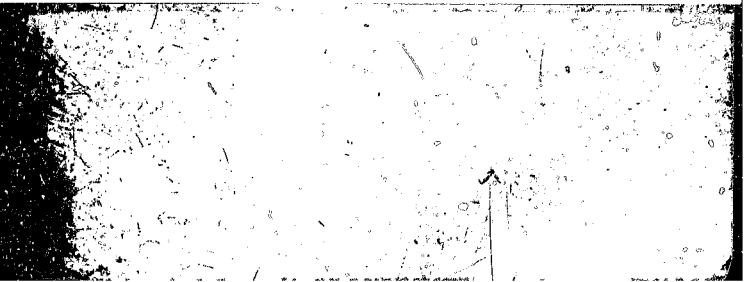


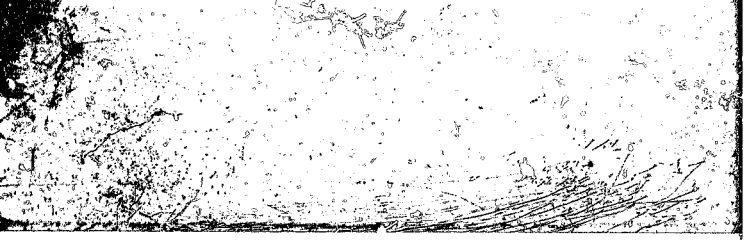


CONTINUATION OF

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	OTU 059	OTU 060	OTU 061	OTU 065	OTU 066	OTU 068	OTU 070	OTU 071	OTU 076	OTU 077
OTU 272	1.234	1.218	1.280	1.249	1.271	1.246	1.495	1.252	1.959	1.670
OTU 273	1.528	1.263	1.077	1.262	1.340	1.299	1.503	1.318	1.236	1.235
OTU 276	1.199	1.351	1.317	1.423	1.577	1.565	1.610	1.496	1.453	1.468
OTU 278	1.192	1.380	1.405	1.316	1.448	1.466	1.703	1.443	1.604	1.589
OTU 280	0.969	0.972	1.218	1.182	1.092	0.923	1.329	1.100	1.306	1.538
OTU 282	1.002	1.083	1.369	1.217	1.049	1.272	1.604	1.298	1.530	1.584
OTU 283	1.267	1.423	1.386	1.719	1.571	1.487	1.708	1.481	1.428	1.737
OTU 286	1.308	1.230	1.167	1.284	1.315	1.261	1.438	1.201	1.446	1.681
OTU 288	1.224	1.225	1.294	1.398	1.398	1.297	1.416	1.409	1.483	1.560
OTU 289	0.992	1.220	1.308	1.257	1.378	1.136	1.584	1.230	1.470	1.668
OTU 292	1.089	1.220	1.087	1.277	1.228	1.103	1.212	1.253	1.081	1.471
OTU 295	1.038	1.041	0.836	1.414	1.303	1.090	1.276	1.157	1.176	1.484
OTU 296	1.361	1.296	1.430	1.476	1.461	1.438	1.566	1.439	1.333	1.601
OTU 297	1.404	1.497	1.566	1.410	1.406	1.372	1.487	1.557	1.210	1.437
OTU 298	1.455	1.587	1.568	1.423	1.569	1.481	1.316	1.495	1.242	1.892
OTU 301	1.606	1.771	1.533	1.501	1.809	1.584	1.328	1.592	1.201	1.544
OTU 305	1.523	1.614	1.467	1.497	1.519	1.432	1.582	1.582	1.047	1.542
OTU 306	1.344	1.615	1.501	1.615	1.670	1.665	1.393	1.629	1.174	1.433
OTU 308	1.615	1.728	1.693	1.586	1.664	1.591	1.543	1.765	1.380	1.247
OTU 310	1.316	1.649	1.601	1.478	1.661	1.544	1.491	1.695	1.191	1.38
OTU 311	1.370	1.450	1.430	1.339	1.605	1.383	1.251	1.426	1.179	1.394
OTU 313	1.636	1.752	1.738	1.930	1.717	1.652	1.589	1.811	1.487	1.507
OTU 314	1.225	1.458	1.479	1.514	1.442	1.299	1.471	1.522	1.179	1.460
OTU 316	1.221	1.386	1.295	1.367	1.489	1.332	1.155	1.359	1.037	1.278
OTU 322	1.298	1.477	1.292	1.488	1.524	1.336	1.293	1.509	0.892	1.367
OTU 324	1.381	1.519	1.384	1.553	1.539	1.280	1.292	1.429	1.097	1.366
OTU 326	1.307	1.581	1.434	1.285	1.382	1.290	1.183	1.428	1.088	1.278
OTU 327	1.467	1.599	1.419	1.596	1.516	1.422	1.306	1.598	1.331	1.468
OTU 330	1.307	1.567	1.498	1.287	1.435	1.278	1.264	1.456	1.203	1.458
OTU 332	1.594	1.584	1.400	1.573	1.583	1.310	1.092	1.467	1.265	1.384
OTU 333	1.237	1.430	1.501	1.354	1.466	1.384	1.412	1.562	1.196	1.302
OTU 336	1.678	1.736	1.699	1.609	1.723	1.696	1.500	1.800	1.365	1.343
OTU 337	1.578	1.616	1.558	1.526	1.620	1.475	1.246	1.603	1.069	1.313
OTU 339	1.401	1.543	1.591	1.429	1.587	1.380	1.283	1.619	1.191	1.492
OTU 340	1.474	1.484	1.314	1.328	1.569	1.374	0.997	1.380	1.078	1.458
OTU 341	1.354	1.497	1.355	1.237	1.449	1.295	1.303	1.462	0.974	1.259
OTU 342	1.458	1.517	1.617	1.461	1.524	1.411	1.524	1.622	1.245	1.325
OTU 343	1.543	1.584	1.687	1.483	1.675	1.504	1.482	1.686	1.219	1.369
OTU 344	1.972	2.014	1.725	1.872	1.981	1.851	1.756	1.940	1.512	1.387
OTU 345	1.495	1.496	1.501	1.432	1.632	1.509	1.136	1.523	1.006	1.139

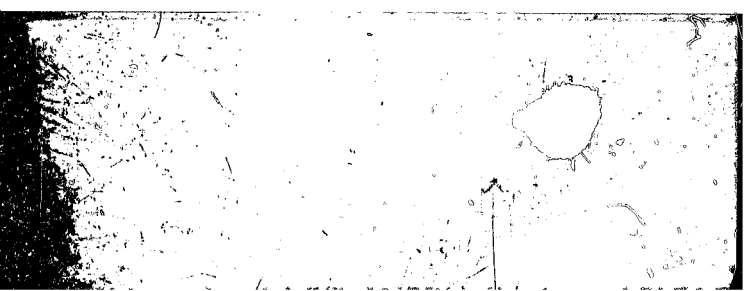


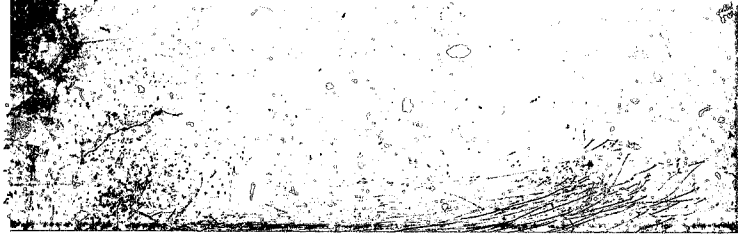


COMPUTE DISTANCE

	OTU 078	OTU 080	OTU 083	OTU 085	OTU 086	OTU 088	OTU 090	OTU 091	OTU 093	OTU 094
OTU 078	0.000									
OTU 080	1.038	0.000								
OTU 083	1.078	0.934	0.000							
OTU 085	0.971	0.909	0.919	0.000						
OTU 086	1.028	1.096	1.145	1.034	0.000					
OTU 088	1.196	1.441	1.545	1.518	1.333	0.000				
OTU 090	1.168	1.235	1.401	1.112	1.276	1.153	0.000			
OTU 091	1.084	1.178	1.230	1.344	1.335	1.159	1.216	0.000		
OTU 093	1.405	1.226	1.073	1.227	1.310	1.920	1.781	1.699	0.000	
OTU 094	1.343	1.324	1.533	1.419	1.527	1.603	1.230	1.321	1.512	0.000
OTU 097	1.282	1.572	1.734	1.541	1.524	1.819	1.283	1.250	2.055	1.233
OTU 100	1.285	1.038	0.954	0.902	1.030	1.640	1.246	1.258	1.238	1.582
OTU 102	1.219	1.115	1.342	1.303	1.440	1.369	1.225	0.851	1.538	0.982
OTU 106	1.159	1.189	0.872	1.049	0.982	1.627	1.520	1.692	1.175	1.626
OTU 108	1.229	1.404	1.574	1.381	1.329	1.790	1.432	1.618	1.181	1.761
OTU 108	1.123	0.923	1.143	1.086	1.140	1.819	1.369	1.434	1.350	1.491
OTU 110	1.229	1.319	1.153	1.089	1.264	1.767	1.440	1.506	1.260	1.559
OTU 112	1.563	1.283	1.334	1.385	1.668	2.053	1.677	1.794	1.344	1.751
OTU 113	1.103	1.251	1.027	1.106	1.036	1.611	1.539	1.463	1.200	1.710
OTU 115	1.175	1.365	1.203	1.203	0.917	1.832	1.334	1.441	1.523	1.626
OTU 116	1.682	1.667	1.718	1.791	1.697	1.860	1.568	1.669	2.012	1.730
OTU 119	1.432	1.382	1.584	1.472	1.659	1.986	1.178	1.365	1.988	1.032
OTU 124	1.386	1.350	1.537	1.546	1.680	1.524	1.319	1.169	1.992	1.201
OTU 125	1.309	1.412	1.716	1.608	1.642	1.537	1.380	1.258	1.995	1.150
OTU 127	1.125	1.107	1.069	0.997	1.272	1.980	1.335	1.341	1.668	1.222
OTU 129	1.018	1.184	1.081	1.082	1.081	1.619	1.018	1.396	1.398	1.650
OTU 130	1.088	1.130	1.194	1.031	1.109	1.763	1.504	1.509	1.498	1.659
OTU 132	0.880	1.095	1.110	0.978	1.102	1.696	1.094	1.105	1.426	1.843
OTU 135	1.168	1.269	1.183	1.117	1.277	1.984	1.774	1.827	1.119	1.966
OTU 136	1.096	1.234	1.093	1.113	1.055	1.573	1.409	1.501	1.482	1.707
OTU 138	1.352	1.385	1.530	1.462	1.305	1.706	1.835	1.879	1.632	2.133
OTU 140	1.035	1.106	1.015	0.905	1.077	1.680	1.227	1.241	1.458	1.518
OTU 143	1.076	1.109	1.295	0.974	0.974	1.399	1.318	1.402	1.496	1.602
OTU 145	1.263	1.254	1.197	1.085	1.151	1.772	1.548	1.790	1.269	1.659
OTU 147	1.063	0.982	0.970	0.706	0.990	1.474	1.122	1.345	1.342	1.392
OTU 149	1.075	1.038	1.108	0.990	1.030	1.551	1.218	1.396	1.397	1.514
OTU 151	1.180	1.215	1.309	1.070	1.153	1.717	1.357	1.635	1.255	1.765
OTU 152	1.097	1.178	1.289	1.029	1.165	1.648	1.424	1.583	1.496	1.547
OTU 153	1.267	0.989	1.023	1.045	1.216	1.638	1.219	1.341	1.358	1.840
OTU 155	1.093	1.052	1.194	0.968	1.031	1.566	1.468	1.402	1.144	1.512
OTU 158	1.191	1.369	1.336	1.304	1.107	1.188	1.045	1.376	1.681	1.553
OTU 159	1.117	1.061	1.119	1.077	0.979	1.481	1.314	1.390	1.468	1.584
OTU 162	1.354	1.365	1.476	1.301	1.337	1.812	1.662	1.602	1.577	1.816
OTU 165	1.368	1.090	1.381	1.187	1.156	1.618	1.436	1.639	1.628	1.646
OTU 166	1.195	1.450	1.295	1.276	1.214	1.879	1.642	1.687	1.527	1.935
OTU 167	1.136	1.349	1.289	1.262	1.019	1.436	1.653	1.588	1.540	1.675
OTU 171	1.235	1.099	0.785	0.962	1.027	1.636	1.420	1.481	1.024	1.740
OTU 177	1.181	1.129	1.095	0.960	1.021	1.718	1.341	1.427	1.484	1.511
OTU 178	0.966	0.806	1.111	1.010	0.941	1.304	1.219	1.223	1.398	1.668
OTU 183	1.419	1.298	1.110	1.055	1.219	1.625	1.531	1.653	1.457	1.723

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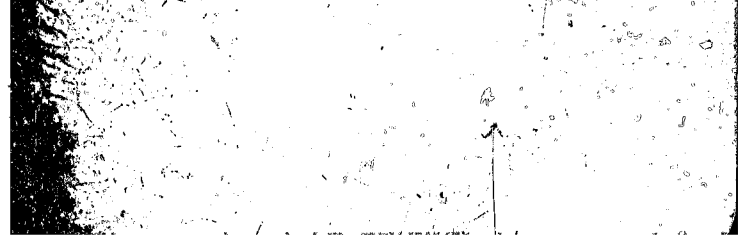


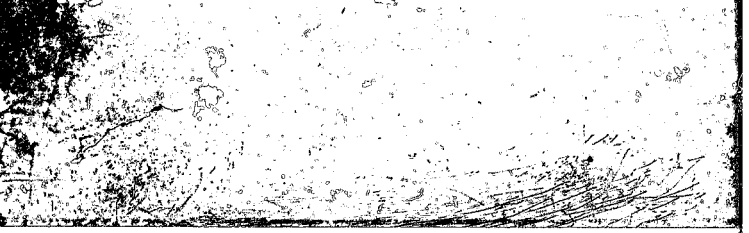


COMPUTE DISTANCE

	OTU 078	OTU 080	OTU 083	OTU 085	OTU 086	OTU 088	OTU 090	OTU 091	OTU 093	OTU 094
OTU 186	1.107	1.281	1.341	1.226	1.013	1.304	1.396	1.206	1.614	1.613
OTU 187	1.079	1.168	1.123	1.117	1.123	1.542	1.430	1.348	1.486	1.532
OTU 189	1.106	1.006	1.097	1.156	1.115	1.493	1.531	1.328	1.359	1.678
OTU 193	1.097	1.007	1.084	0.994	1.007	1.562	1.349	1.252	1.234	1.380
OTU 194	1.063	0.878	0.961	0.839	0.970	1.435	1.170	1.314	1.280	1.454
OTU 3	1.047	1.134	1.164	0.986	1.062	1.417	1.352	1.143	1.415	1.420
OTU 197	1.034	1.203	1.094	1.146	1.155	1.594	1.536	1.134	1.376	1.576
OTU 199	1.115	1.182	1.067	0.986	1.093	1.521	1.359	1.303	1.426	1.667
OTU 200	1.195	1.265	1.258	1.090	1.076	1.630	1.281	1.512	1.378	1.526
OTU 202	1.148	1.351	1.321	1.125	1.312	1.670	1.499	1.431	1.496	1.629
OTU 206	1.017	1.180	1.121	0.978	0.867	1.378	1.035	1.278	1.277	1.497
OTU 209	1.376	1.281	1.083	1.097	1.302	1.997	1.526	1.509	1.378	1.759
OTU 210	1.247	1.252	1.185	1.121	1.351	1.943	1.664	1.335	1.356	1.632
OTU 212	1.002	1.315	1.004	1.055	1.004	1.356	1.123	1.303	1.258	1.608
OTU 213	1.240	1.199	1.230	1.119	1.258	1.848	1.004	1.318	1.598	1.550
OTU 216	1.231	1.313	1.582	1.374	1.401	1.175	1.331	1.006	2.041	1.818
OTU 218	1.299	1.328	1.318	1.190	1.388	1.410	1.099	1.064	1.887	1.878
OTU 220	1.648	1.711	1.646	1.555	1.481	1.817	1.907	2.094	1.687	2.214
OTU 227	1.189	1.212	1.196	0.961	1.011	1.698	1.515	1.565	1.386	1.738
OTU 229	1.256	1.192	1.109	1.154	1.085	1.447	1.436	1.498	1.379	1.676
OTU 231	1.156	1.274	1.246	1.106	1.126	1.550	1.517	1.388	1.291	1.653
OTU 234	1.509	1.617	1.489	1.479	1.550	1.998	1.907	1.948	1.926	2.158
OTU 235	1.484	1.367	1.383	1.238	1.295	1.757	1.501	1.724	1.453	1.916
OTU 237	1.392	1.298	1.351	1.192	1.434	1.868	1.733	1.620	1.117	1.779
OTU 239	1.461	1.471	1.367	1.206	1.487	2.030	1.667	1.860	1.472	1.934
OTU 241	1.634	1.390	1.395	1.368	1.651	2.140	1.818	1.866	1.652	1.882
OTU 244	1.173	1.330	1.418	1.158	1.237	1.486	1.353	1.640	1.396	1.702
OTU 246	1.290	1.369	1.202	1.167	1.258	1.581	1.569	1.254	1.292	1.936
OTU 247	1.378	1.363	1.433	1.296	1.398	1.751	1.508	1.780	1.356	1.879
OTU 251	1.129	1.340	1.350	1.160	1.146	1.719	1.607	1.757	1.298	1.689
OTU 252	1.659	1.892	1.657	1.595	1.697	1.995	1.918	1.955	1.766	2.057
OTU 254	1.291	1.384	1.397	1.267	1.057	1.536	1.562	1.658	1.439	1.788
OTU 256	1.000	1.130	1.156	1.026	1.060	1.545	1.582	1.550	1.138	1.720
OTU 257	1.604	1.498	1.496	1.426	1.459	1.769	1.699	1.576	1.599	1.893
OTU 260	1.359	1.286	1.361	1.258	1.375	1.769	1.629	1.794	1.430	1.784
OTU 262	1.203	1.288	1.422	1.127	1.231	1.593	1.357	1.516	1.150	1.674
OTU 264	1.052	1.076	1.181	0.877	1.188	1.697	1.103	1.518	1.284	1.581
OTU 265	1.282	1.235	1.213	1.028	0.961	1.523	1.384	1.608	1.116	1.601
OTU 268	1.151	1.237	1.150	1.075	1.075	1.571	1.538	1.697	1.281	1.816
OTU 271	1.211	1.191	1.117	0.993	1.182	1.696	1.521	1.611	1.272	1.706
OTU 272	1.587	1.489	1.434	1.205	1.227	1.760	1.628	1.741	1.485	1.764
OTU 273	1.049	1.239	1.307	1.103	1.138	1.643	1.343	1.597	1.168	1.668
OTU 276	1.401	1.396	1.403	1.204	1.156	1.563	1.498	1.816	1.436	1.887
OTU 278	1.346	1.491	1.374	1.280	1.132	1.820	1.617	1.714	1.344	1.915
OTU 280	1.185	1.286	1.071	1.010	1.129	1.563	1.447	1.420	1.160	1.586
OTU 282	1.334	1.391	1.187	1.134	1.245	1.895	1.522	1.718	1.127	1.790
OTU 283	1.510	1.480	1.491	1.364	1.423	1.791	1.738	2.009	1.671	2.050
OTU 286	1.258	1.376	1.216	1.156	1.162	1.620	1.537	1.670	1.251	1.917
OTU 288	1.410	1.377	1.288	1.233	1.120	1.605	1.551	1.820	1.380	1.788
OTU 289	1.198	1.371	1.223	1.150	1.197	1.750	1.507	1.495	1.193	1.671

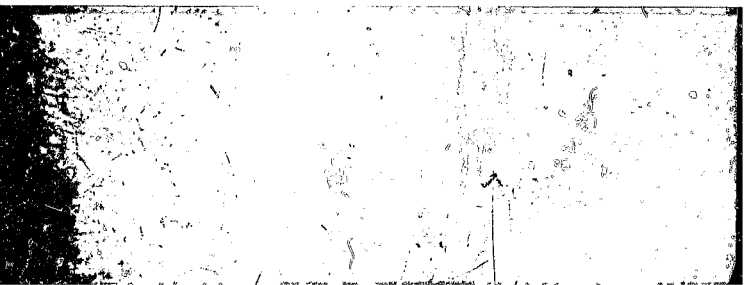
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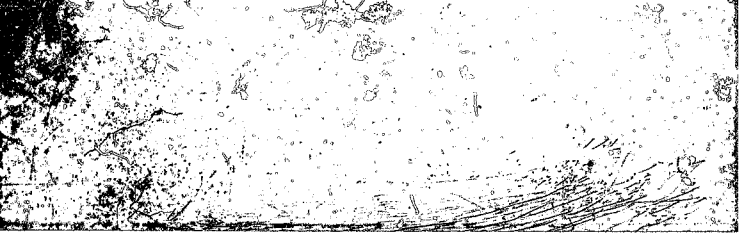




COMPUTE DISTANCE

	OTU 078	OTU 080	OTU 083	OTU 085	OTU 086	OTU 088	OTU 090	OTU 091	OTU 093	OTU 094
OTU 292	1.076	1.243	1.188	0.868	1.000	1.318	1.151	1.458	1.539	1.472
OTU 295	1.077	1.239	1.248	0.899	1.018	1.377	1.358	1.586	1.530	1.693
OTU 296	1.327	1.461	1.373	1.151	1.468	1.646	1.348	1.384	1.721	1.407
OTU 297	1.382	1.483	1.365	1.160	1.397	1.576	1.825	1.467	1.857	1.476
OTU 298	1.512	1.429	1.350	1.208	1.585	1.632	1.829	1.496	1.907	1.438
OTU 301	1.401	1.482	1.369	1.262	1.534	1.428	1.296	1.243	2.003	1.361
OTU 305	1.322	1.360	1.595	1.232	1.478	1.545	1.715	1.410	1.952	1.368
OTU 306	1.348	1.353	1.538	1.234	1.401	1.477	1.099	1.297	1.977	1.336
OTU 308	1.372	1.366	1.589	1.329	1.568	1.619	1.663	1.231	1.800	1.333
OTU 310	1.333	1.390	1.447	1.233	1.370	1.550	1.234	1.389	1.882	1.375
OTU 311	1.158	1.309	1.297	1.100	1.196	1.335	1.169	1.181	1.611	1.417
OTU 313	1.438	1.451	1.535	1.324	1.475	1.613	1.337	1.499	1.838	1.429
OTU 314	1.197	1.269	1.467	1.112	1.483	1.681	1.166	1.406	1.745	1.473
OTU 321	1.106	0.959	1.093	0.971	1.204	1.430	1.253	1.062	1.468	1.304
OTU 322	1.148	1.200	1.389	1.159	1.334	1.386	1.247	1.295	1.743	1.372
OTU 324	1.278	1.293	1.334	1.072	1.399	1.533	1.322	1.353	1.777	1.336
OTU 326	1.238	1.188	1.214	1.024	1.286	1.472	1.242	1.193	1.686	1.241
OTU 327	1.220	1.112	1.163	1.200	1.177	1.331	1.382	1.207	1.823	1.260
OTU 330	1.158	1.303	1.282	1.078	1.268	1.601	1.236	1.270	1.768	1.283
OTU 332	1.368	1.283	1.329	1.198	1.339	1.417	1.258	1.223	1.779	1.337
OTU 333	1.165	1.268	1.329	1.104	1.240	1.461	1.188	1.281	1.688	1.292
OTU 336	1.398	1.453	1.658	1.301	1.527	1.592	1.373	1.298	1.913	1.445
OTU 337	1.352	1.189	1.410	1.245	1.366	1.448	1.247	1.234	1.752	1.314
OTU 339	1.318	1.254	1.369	1.194	1.368	1.367	1.190	1.236	1.825	1.320
OTU 340	1.290	1.198	1.282	1.090	1.336	1.564	1.118	1.192	1.809	1.181
OTU 341	1.075	1.112	1.389	1.044	1.218	1.265	1.094	1.118	1.760	1.288
OTU 342	1.267	1.407	1.494	1.297	1.379	1.430	1.118	1.298	1.812	1.292
OTU 343	1.390	1.364	1.596	1.297	1.465	1.418		1.270	1.830	1.267
OTU 344	1.498	1.691	1.967	1.657	1.634	1.690		1.684	2.215	1.652
OTU 345	1.301	1.124	1.359	1.259	1.210	1.		1.154	1.744	1.283



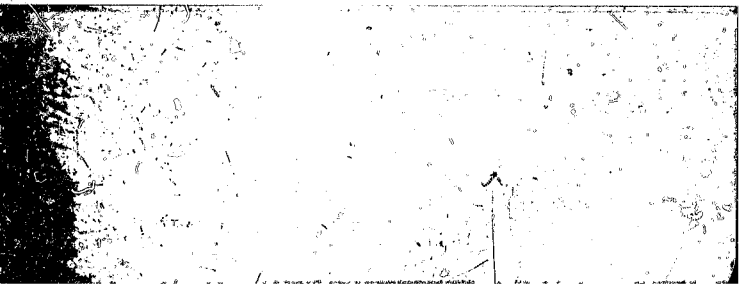


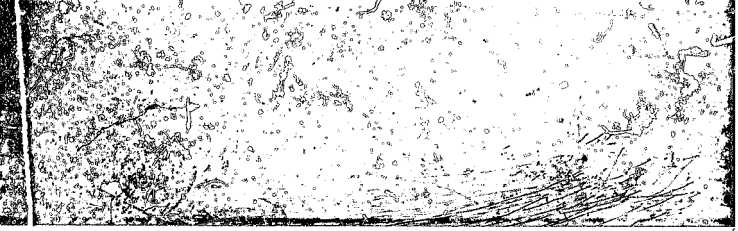
IDENTIFICATION:

COMPUTE DISTANCE

	OTU 097	OTU 100	OTU 102	OTU 104	OTU 106	OTU 108	OTU 110	OTU 112	OTU 114	OTU 115
OTU 097	0.000									
OTU 100	1.784	0.000								
OTU 102	1.217	1.425	0.000							
OTU 104	1.841	1.188	1.219	0.000						
OTU 106	2.035	1.409	1.370	1.255	0.000					
OTU 108	1.758	1.209	1.291	1.095	1.484	0.000				
OTU 110	1.793	1.095	1.544	1.108	0.956	1.311	0.000			
OTU 112	2.133	1.507	1.852	1.379	1.870	1.453	1.068	0.000		
OTU 114	1.861	1.155	1.560	1.030	1.039	1.177	0.829	1.255	0.000	
OTU 115	1.685	1.111	1.514	1.212	1.377	1.173	1.173	1.732	1.061	0.000
OTU 116	1.827	1.772	1.690	1.707	1.915	1.658	1.697	1.875	1.702	1.769
OTU 118	1.144	1.703	1.106	1.770	1.954	1.648	1.601	1.841	1.902	1.636
OTU 122	1.290	1.609	1.116	1.737	1.948	1.589	1.794	2.161	1.895	1.743
OTU 125	1.310	1.218	1.899	1.665	1.980	1.502	1.783	2.046	1.885	1.723
OTU 127	1.218	1.341	1.170	1.177	1.679	1.321	1.355	1.643	1.373	1.493
OTU 129	1.623	1.222	1.377	1.066	1.326	1.311	1.076	1.411	1.006	1.243
OTU 130	1.736	1.266	1.522	1.110	1.309	1.343	1.115	1.467	1.156	1.155
OTU 132	1.280	1.210	1.038	1.200	1.355	1.450	1.109	1.408	1.112	1.306
OTU 134	2.084	1.124	1.879	1.263	1.196	1.172	1.194	1.371	1.080	1.335
OTU 136	1.813	1.177	1.458	1.155	1.243	1.186	1.079	1.436	0.866	0.919
OTU 138	2.045	1.683	1.943	1.329	1.277	1.500	1.306	1.733	1.065	1.323
OTU 140	1.520	1.052	1.332	0.905	1.416	1.249	1.170	1.587	1.019	1.120
OTU 143	1.683	1.282	1.594	1.075	1.458	1.068	1.323	1.567	1.115	1.124
OTU 145	1.945	1.203	1.806	1.171	1.286	1.316	0.984	1.273	0.867	1.150
OTU 147	1.447	0.911	1.291	1.162	1.419	1.193	1.092	1.417	1.095	1.088
OTU 149	1.635	1.194	1.233	1.184	1.362	1.081	1.114	1.409	1.073	1.068
OTU 151	1.839	1.180	1.685	1.162	1.161	1.156	0.912	1.361	0.852	1.240
OTU 152	1.736	1.365	1.516	1.203	1.461	1.139	1.370	1.788	1.245	1.218
OTU 153	1.679	1.089	1.469	1.182	1.538	0.927	1.328	1.506	1.320	1.176
OTU 155	1.721	1.106	1.489	1.145	0.946	1.189	0.945	1.456	0.869	0.987
OTU 157	1.369	1.131	1.119	1.408	1.478	1.270	1.237	1.755	1.139	1.022
OTU 159	1.761	1.066	1.676	1.068	1.508	0.919	1.258	1.707	1.075	1.039
OTU 161	1.622	1.259	1.685	1.007	1.604	1.52.	1.274	1.695	1.165	1.214
OTU 165	1.697	1.177	1.632	1.350	1.713	1.188	1.491	1.788	1.408	1.351
OTU 166	1.871	1.487	1.783	1.265	1.310	1.373	1.259	1.767	1.008	1.272
OTU 167	1.708	1.111	1.717	1.171	1.417	1.366	1.419	1.911	1.178	1.234
OTU 171	1.824	0.880	1.503	1.098	1.241	1.240	0.949	1.176	0.882	1.127
OTU 177	1.750	0.988	1.568	1.213	1.620	1.32.	1.191	1.345	1.332	1.443
OTU 181	1.466	1.099	1.294	1.079	1.438	0.787	1.229	1.526	1.120	1.104
OTU 183	1.863	1.193	1.579	1.079	1.650	1.287	1.175	1.812	1.304	1.182
OTU 186	1.561	1.140	1.426	1.294	1.495	1.320	1.193	1.872	1.269	1.128
OTU 187	1.609	1.150	1.303	1.167	1.348	1.267	0.968	1.477	0.858	0.959
OTU 189	1.624	1.183	1.436	1.300	1.563	1.154	1.423	1.761	1.228	1.242
OTU 191	1.671	1.096	1.386	1.167	1.566	1.369	1.091	1.428	1.048	1.070
OTU 194	1.537	1.062	1.340	1.067	1.354	1.143	1.223	1.388	1.135	1.141
OTU 196	1.332	1.023	1.327	1.347	1.330	1.398	1.090	1.497	1.037	1.165
OTU 197	1.607	1.140	1.401	1.250	1.459	1.377	1.336	1.616	1.143	1.358
OTU 199	1.766	0.811	1.404	1.178	1.408	1.551	1.050	1.571	1.187	1.244
OTU 200	1.683	1.191	1.341	1.328	1.090	1.499	1.036	1.586	1.093	1.012
OTU 202	1.748	1.143	1.671	1.226	1.353	1.285	1.104	1.620	1.322	1.395

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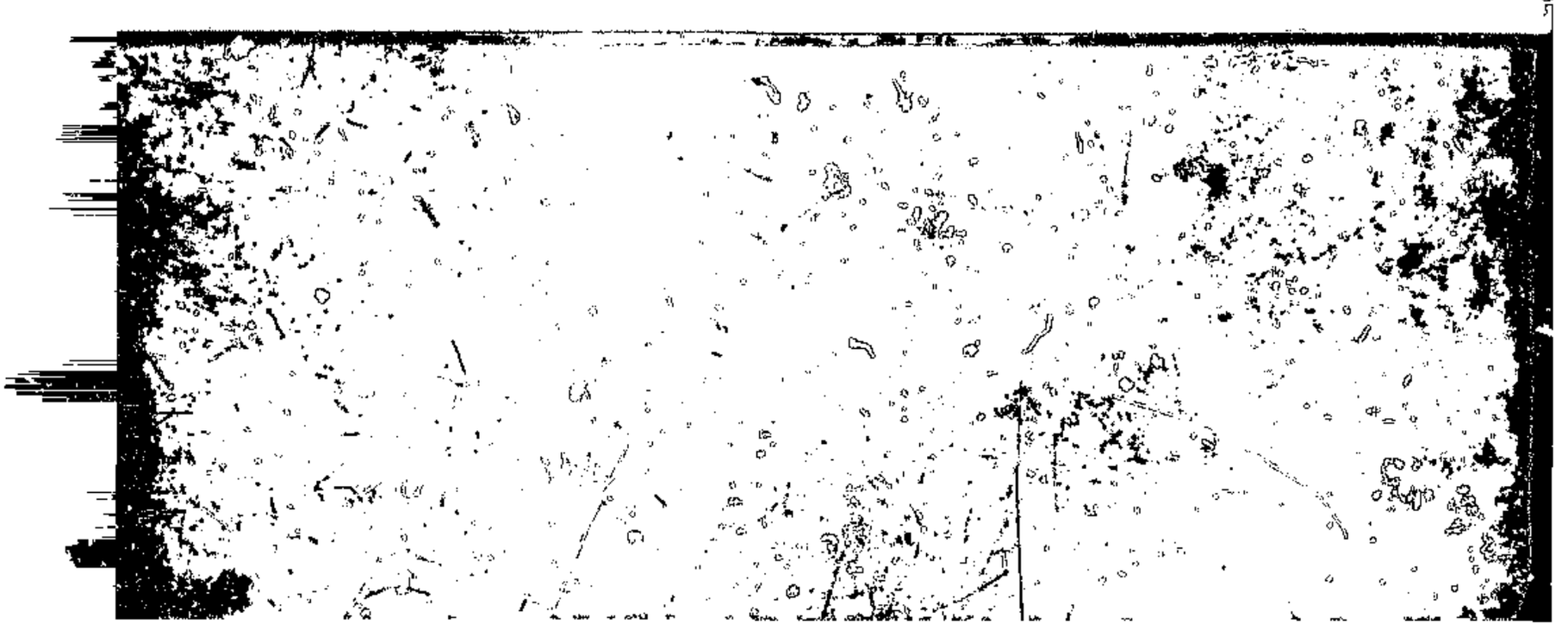
CONTINUATION OF

COMPUTE DISTANCE

	OTU 097	OTU 100	OTU 102	OTU 104	OTU 106	OTU 108	OTU 110	OTU 112	OTU 114	OTU 115
OTU 206	1.435	0.987	1.373	1.216	1.170	1.184	1.071	1.039	1.055	0.995
OTU 209	1.886	1.020	1.476	1.233	1.415	1.595	1.037	1.409	1.175	1.475
OTU 210	1.786	1.164	1.396	1.337	1.340	1.610	1.141	1.489	1.191	1.367
OTU 212	1.486	1.273	1.471	1.434	1.510	1.386	1.253	1.667	1.221	1.307
OTU 213	1.175	1.208	0.978	1.487	1.767	1.383	1.377	1.832	1.461	1.312
OTU 216	1.082	1.506	0.986	1.705	1.932	1.532	1.710	2.025	1.660	1.463
OTU 218	1.256	1.102	0.918	1.548	1.918	1.471	1.557	1.928	1.670	1.491
OTU 220	2.198	1.[illegible]	2.177	1.538	1.613	1.638	1.487	1.867	1.232	1.908
OTU 227	1.796	1.086	1.689	1.073	1.339	1.310	1.053	1.528	0.931	1.279
OTU 229	1.702	1.216	1.639	1.211	1.249	1.330	1.186	1.491	1.175	1.219
OTU 231	1.787	1.440	1.677	1.034	1.052	1.316	1.130	1.375	0.997	1.383
OTU 234	2.246	1.309	2.131	1.439	1.816	1.577	1.266	1.566	1.331	1.767
OTU 235	1.067	1.262	1.834	1.244	1.305	1.494	1.145	1.316	1.250	1.426
OTU 236	2.062	1.386	1.963	1.324	1.095	1.350	0.991	1.209	1.143	1.498
OTU 239	2.120	1.384	1.918	1.351	1.261	1.601	0.930	1.268	1.108	1.481
OTU 241	2.166	1.562	2.006	1.443	1.263	1.533	1.061	1.053	1.313	1.783
OTU 243	1.756	1.438	1.788	1.293	.953	1.319	1.004	1.258	1.112	1.381
OTU 244	1.984	1.347	1.902	1.200	1.137	1.285	1.128	1.485	1.072	1.508
OTU 247	2.016	1.492	1.974	1.422	0.938	1.436	1.039	1.104	1.115	1.433
OTU 251	1.910	1.363	1.809	1.270	0.970	1.345	1.096	1.412	0.990	1.354
OTU 252	2.115	1.457	2.108	1.504	1.599	1.811	1.557	1.885	1.573	1.757
OTU 254	1.772	1.[illegible]	1.776	1.278	1.139	1.280	1.130	1.530	1.080	1.264
OTU 256	1.734	1.440	1.695	1.075	1.115	1.213	1.188	1.958	0.981	1.280
OTU 259	2.181	1.323	1.873	1.488	1.075	1.512	1.260	1.577	1.221	1.578
OTU 260	1.915	1.332	1.927	1.419	1.257	1.364	1.196	1.448	1.289	1.367
OTU 262	1.832	1.202	1.567	1.115	0.917	1.353	0.929	1.311	1.038	1.241
OTU 264	1.756	1.263	1.549	1.143	1.067	1.116	1.021	1.148	1.078	1.232
OTU 266	1.810	1.050	1.704	1.099	1.108	1.053	1.010	1.408	1.034	1.171
OTU 267	1.902	1.210	1.702	1.161	1.097	1.175	1.025	1.227	1.039	1.143
OTU 270	1.884	1.107	1.641	1.189	1.280	1.354	1.084	1.502	1.029	1.172
OTU 272	1.801	1.208	1.763	1.353	1.117	1.469	0.863	1.570	1.174	1.257
OTU 273	1.733	1.310	1.640	1.262	1.088	1.299	1.102	1.573	1.105	1.040
OTU 276	1.958	1.432	1.932	1.392	1.473	1.507	1.353	1.949	1.212	1.264
OTU 278	1.902	1.295	1.874	1.288	1.200	1.613	1.137	1.570	0.943	1.234
OTU 280	1.666	1.116	1.541	1.072	1.032	1.268	0.802	1.280	0.893	1.315
OTU 282	1.918	1.219	1.736	1.328	0.958	1.575	0.811	1.285	1.082	1.241
OTU 284	2.172	1.621	2.090	1.389	1.581	1.369	1.459	1.576	1.299	1.481
OTU 286	1.938	1.195	1.837	1.142	1.043	1.368	0.971	1.440	0.908	1.339
OTU 288	1.881	1.316	1.861	1.294	1.278	1.302	1.201	1.520	1.102	1.245
OTU 289	1.765	1.281	1.650	1.190	1.073	1.446	1.075	1.382	1.124	1.417
OTU 292	1.437	1.108	1.450	1.102	1.182	1.201	1.004	1.486	1.116	1.080
OTU 295	1.612	1.234	1.682	1.138	1.167	1.175	1.136	1.506	1.019	1.198
OTU 296	1.371	1.387	1.131	1.045	1.116	1.759	1.355	1.705	1.519	1.373
OTU 297	1.329	1.367	1.238	1.226	1.810	1.679	1.413	1.908	1.537	1.353
OTU 298	1.521	1.294	1.289	1.271	1.695	1.618	1.408	1.878	1.716	1.600
OTU 301	1.375	1.394	1.073	1.622	2.028	1.984	1.685	2.124	1.718	1.917
OTU 305	1.226	1.428	1.210	1.734	2.006	1.459	1.559	2.009	1.686	1.343
OTU 306	1.206	1.329	1.219	1.780	1.959	1.525	1.588	1.997	1.703	1.323
OTU 308	1.848	1.440	1.001	1.837	1.796	1.667	1.633	2.001	1.656	1.544
OTU 310	1.277	1.465	1.039	1.690	1.906	1.638	1.645	2.038	1.668	1.387

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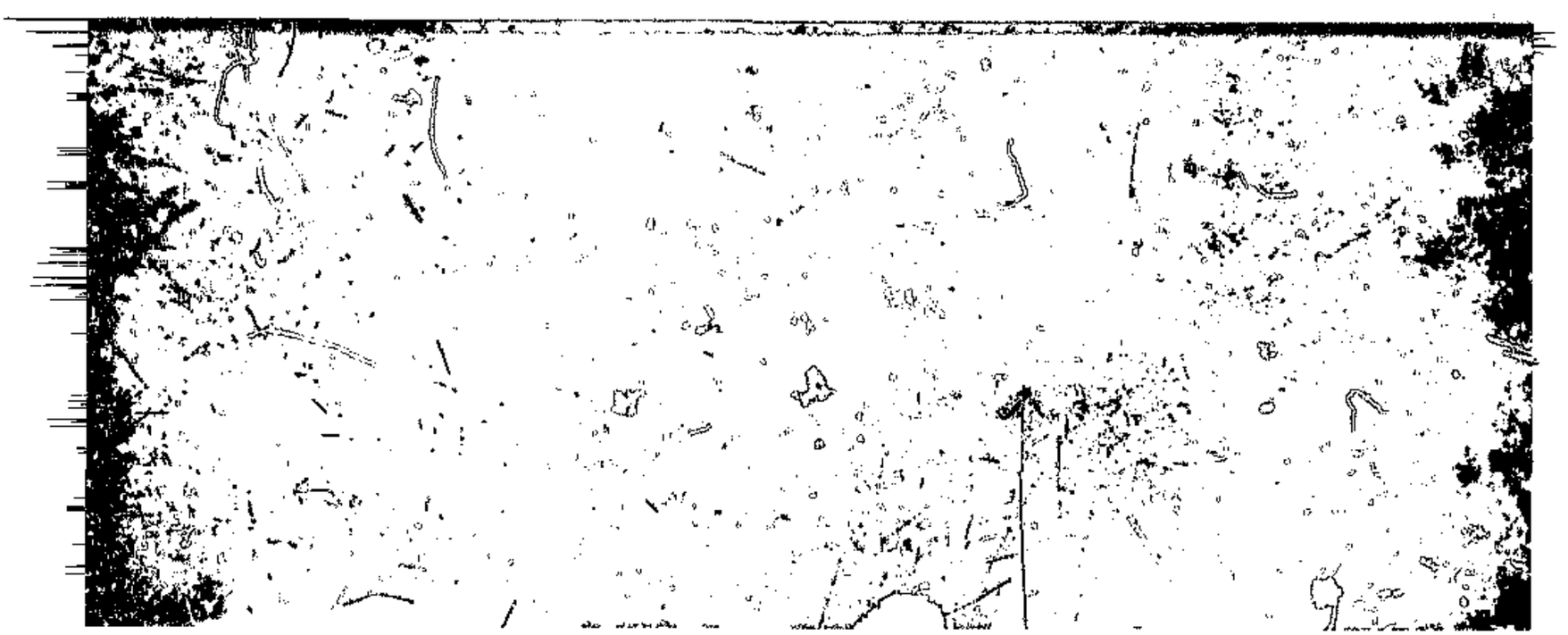
	OTU 097	OTU 100	OTU 102	OTU 104	OTU 106	OTU 108	OTU 110	OTU 112	OTU 114	OTU 115
OTU 311	1.040	1.258	1.198	1.482	1.780	1.468	1.504	1.955	1.538	1.424
OTU 313	1.318	1.428	1.104	1.802	1.949	1.727	1.633	1.992	1.764	1.462
OTU 314	1.452	1.403	1.317	1.700	1.612	1.584	1.325	1.608	1.524	1.384
OTU 316	1.356	1.212	1.043	1.442	1.602	1.319	1.391	1.672	1.361	1.300
OTU 322	1.283	1.383	1.139	1.447	1.777	1.291	1.486	1.814	1.571	1.389
OTU 324	1.376	1.298	1.216	1.505	1.860	1.355	1.416	1.773	1.558	1.398
OTU 326	1.264	1.179	0.882	1.472	1.700	1.476	1.370	1.766	1.433	1.385
OTU 327	1.382	1.532	1.255	1.633	1.575	1.533	1.415	1.827	1.405	1.463
OTU 330	1.433	1.224	0.948	1.519	1.756	1.573	1.353	1.771	1.536	1.521
OTU 332	1.316	1.226	1.005	1.541	1.859	1.458	1.525	1.946	1.591	1.541
OTU 333	1.145	1.251	0.942	1.633	1.608	1.594	1.428	1.863	1.504	1.338
OTU 336	1.462	1.478	1.216	1.851	1.881	1.624	1.681	2.093	1.762	1.472
OTU 337	1.147	1.387	1.065	1.748	1.849	1.578	1.642	1.953	1.665	1.472
OTU 339	1.133	1.318	1.027	1.705	1.880	1.582	1.584	1.930	1.649	1.429
OTU 340	1.242	1.250	1.027	1.496	1.775	1.446	1.520	2.001	1.595	1.407
OTU 341	1.116	1.244	0.946	1.536	1.700	1.500	1.417	1.885	1.435	1.300
OTU 342	1.080	1.323	1.102	1.747	1.743	1.565	1.375	1.866	1.574	1.335
OTU 343	1.155	1.391	1.070	1.760	1.850	1.570	1.553	1.957	1.735	1.470
OTU 344	1.173	1.822	1.438	2.079	2.147	1.925	1.952	2.442	2.018	1.638
OTU 345	1.235	1.292	1.10[illegible]	1.624	1.856	1.377	1.684	1.993	1.647	1.265



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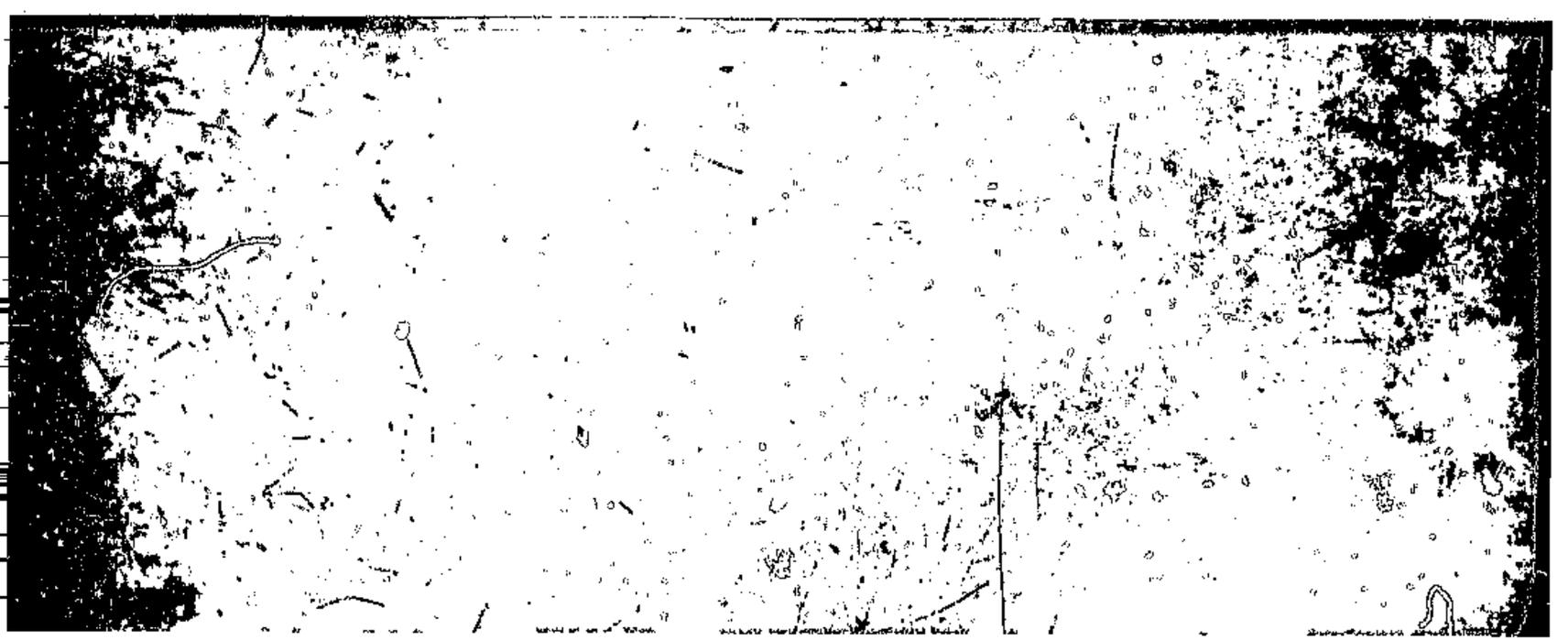
	OTU 116	OTU 119	OTU 122	OTU 125	OTU 127	OTU 129	OTU 130	OTU 132	OTU 135	OTU 136
OTU 116	0.000									
OTU 119	1.654	0.000								
OTU 122	1.784	1.163	0.000							
OTU 125	1.697	1.231	1.114	0.000						
OTU 127	1.706	1.197	1.330	1.398	0.000					
OTU 129	1.554	1.643	1.698	1.715	1.095	0.000				
OTU 130	1.776	1.627	1.668	1.709	1.250	0.795	0.000			
OTU 132	1.612	1.302	1.471	1.385	1.017	0.903	1.032	0.000		
OTU 135	1.940	2.022	2.009	2.088	1.530	1.216	1.120	1.460	0.000	
OTU 136	1.654	1.718	1.838	1.815	1.361	0.854	1.030	1.165	1.115	0.000
OTU 138	2.011	2.087	2.034	2.048	1.644	1.239	1.233	1.511	1.380	1.137
OTU 140	1.706	1.573	1.641	1.545	1.073	0.907	0.906	0.930	1.357	1.029
OTU 143	1.742	1.785	1.776	1.609	1.300	1.083	1.039	1.177	1.356	0.975
OTU 145	1.859	1.889	2.008	2.019	1.380	0.960	0.904	1.191	0.947	0.919
OTU 147	1.730	1.328	1.465	1.564	1.000	1.181	1.106	0.985	1.235	1.092
OTU 149	1.576	1.478	1.697	1.566	1.182	0.979	1.077	0.940	1.349	0.968
OTU 151	1.733	1.861	1.846	1.807	1.412	1.035	1.012	1.093	0.993	1.087
OTU 152	1.792	1.673	1.522	1.507	1.262	1.309	1.281	1.316	1.373	1.192
OTU 153	1.536	1.498	1.382	1.472	1.259	1.226	1.253	1.313	1.352	1.201
OTU 155	1.897	1.594	1.634	1.691	1.306	1.235	1.046	1.157	1.126	1.105
OTU 158	1.507	1.379	1.448	1.552	1.393	1.302	1.370	1.193	1.626	1.184
OTU 159	1.733	1.741	1.527	1.631	1.281	1.165	1.178	1.368	1.176	1.052
OTU 162	1.897	1.870	2.007	1.956	1.579	1.474	1.378	1.292	1.464	1.314
OTU 165	1.616	1.605	1.626	1.607	1.310	1.370	1.300	1.330	1.508	1.308
OTU 166	1.962	1.923	1.817	1.900	1.462	1.260	1.191	1.419	1.304	1.118
OTU 167	1.870	1.856	1.693	1.752	1.436	1.294	1.251	1.400	1.392	1.227
OTU 171	1.706	1.701	1.695	1.828	1.208	1.093	1.142	1.113	1.024	1.006
OTU 177	1.853	1.700	1.704	1.666	1.228	1.327	1.410	1.270	1.482	1.352
OTU 181	1.422	1.502	1.373	1.323	1.085	0.887	1.023	1.063	1.180	1.077
OTU 183	1.883	1.701	1.596	1.856	1.189	1.371	1.289	1.467	1.263	1.332
OTU 186	1.744	1.769	1.511	1.516	1.507	1.255	1.141	1.196	1.372	1.244
OTU 187	1.544	1.524	1.630	1.654	1.209	0.874	0.994	1.078	1.305	0.711
OTU 189	1.677	1.765	1.469	1.569	1.348	1.166	1.149	1.238	1.209	1.259
OTU 191	1.676	1.371	1.585	1.618	1.156	1.053	0.953	0.832	1.202	1.175
OTU 194	1.407	1.462	1.587	1.575	1.053	0.813	0.898	0.919	1.112	0.889
OTU 196	1.858	1.463	1.628	1.701	1.227	1.176	1.095	0.952	1.335	1.178
OTU 197	1.832	1.842	1.672	1.624	1.362	1.039	1.161	0.992	1.341	1.283
OTU 199	1.864	1.634	1.593	1.899	1.434	1.181	1.104	1.064	1.287	1.241
OTU 200	1.714	1.531	1.832	1.771	1.450	1.171	1.058	1.022	1.319	1.008
OTU 202	1.838	1.765	1.565	1.595	1.459	1.308	1.206	1.363	1.268	1.415
OTU 206	1.420	1.497	1.443	1.500	1.215	0.899	1.053	0.984	1.295	0.887
OTU 209	1.739	1.751	1.755	1.883	1.325	0.894	1.065	1.025	1.332	1.221
OTU 210	2.023	1.718	1.746	1.774	1.334	1.012	0.978	1.041	1.378	1.256
OTU 212	1.769	1.707	1.700	1.690	1.337	0.887	1.094	1.031	1.377	1.143
OTU 213	1.624	1.235	1.161	1.383	1.055	1.259	1.462	1.130	1.716	1.361
OTU 216	1.061	1.327	1.284	1.349	1.335	1.388	1.439	1.261	1.854	1.540
OTU 218	1.710	1.152	1.132	1.241	1.242	1.426	1.477	1.114	1.866	1.542
OTU 220	2.244	2.276	2.270	2.240	1.769	1.473	1.440	1.666	1.319	1.309
OTU 227	1.801	1.825	1.769	1.713	1.343	1.156	1.086	1.056	1.209	1.145
OTU 229	1.762	1.748	1.735	1.821	1.418	1.112	1.080	1.163	1.097	1.050

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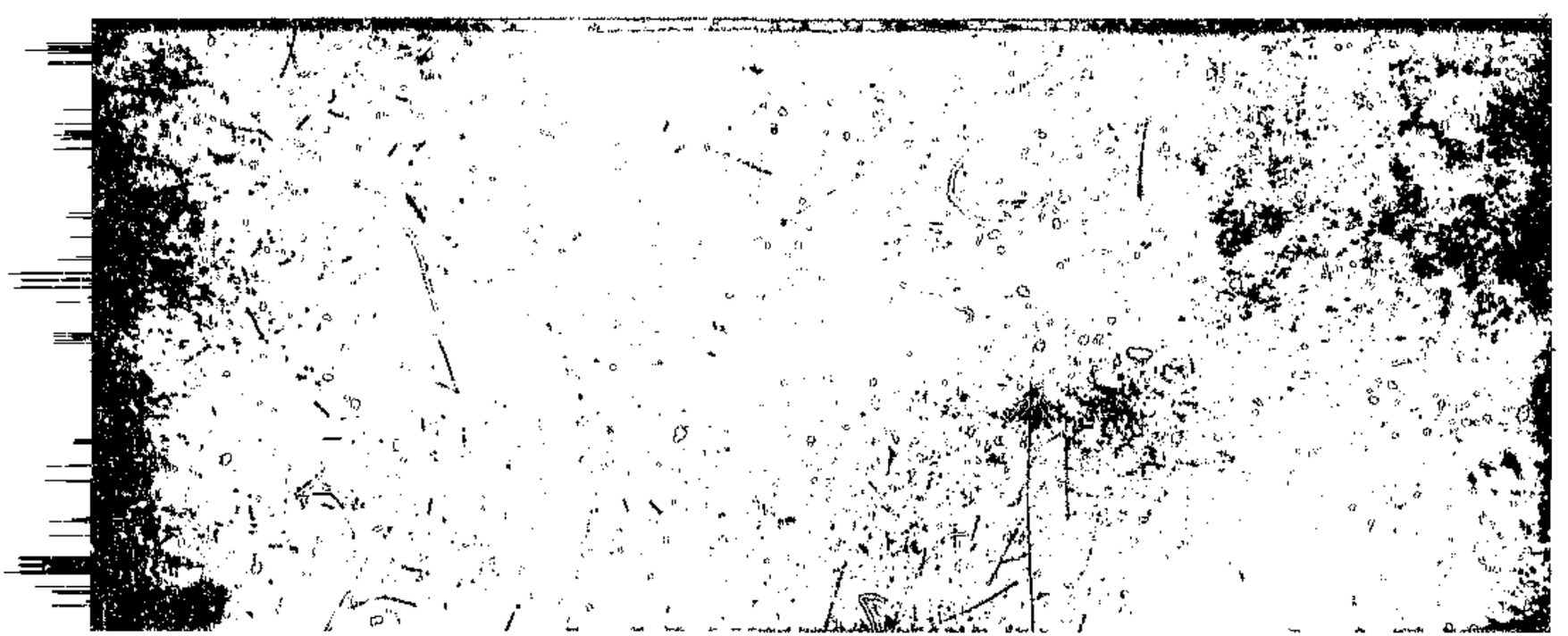


	OTU 116	OTU 119	OTU 122	OTU 125	OTU 127	OTU 129	OTU 130	OTU 132	OTU 135	OTU 136
OTU 231	1.678	1.754	1.812	1.696	1.177	1.013	1.057	1.128	1.130	1.088
OTU 234	1.961	2.225	2.130	2.097	1.818	1.432	1.411	1.631	1.240	1.438
OTU 235	1.804	1.934	1.976	1.887	1.585	1.228	1.137	1.214	1.228	1.191
OTU 236	1.968	1.931	1.944	1.923	1.492	1.409	1.237	1.435	0.925	1.343
OTU 239	1.918	1.990	2.077	1.992	1.583	1.208	1.177	1.279	1.282	1.196
OTU 241	1.975	1.987	2.114	2.069	1.584	1.521	1.656	1.518	1.315	1.561
OTU 243	1.730	1.821	1.886	1.713	1.480	1.232	1.228	1.220	1.258	1.209
OTU 244	1.906	1.988	1.897	1.943	1.490	1.261	1.319	1.486	1.108	1.104
OTU 247	2.004	1.914	2.074	1.993	1.732	1.460	1.329	1.375	1.264	1.341
OTU 251	1.888	1.957	1.963	1.896	1.474	1.065	1.119	1.248	0.969	1.143
OTU 252	2.229	2.185	2.163	2.177	1.820	1.686	1.710	1.687	1.730	1.737
OTU 254	1.942	1.855	1.792	1.814	1.554	1.297	1.371	1.325	1.175	1.291
OTU 256	1.852	1.856	1.800	1.793	1.238	0.909	0.961	1.126	1.011	1.043
OTU 259	2.169	2.029	2.003	2.122	1.784	1.640	1.684	1.612	1.393	1.473
OTU 260	2.032	1.807	1.873	1.911	1.486	1.448	1.337	1.473	1.159	1.367
OTU 262	1.821	1.655	1.639	1.840	1.376	1.203	1.233	1.225	1.246	1.206
OTU 264	1.632	1.626	1.714	1.635	1.310	1.020	1.106	1.103	1.206	0.931
OTU 266	1.726	1.832	1.834	1.761	1.426	1.296	1.356	1.301	1.015	1.182
OTU 268	1.934	1.818	1.805	1.863	1.398	1.203	1.185	1.314	1.141	0.990
OTU 270	2.000	1.740	1.906	1.874	1.249	1.183	1.177	1.228	1.270	1.036
OTU 272	1.866	1.741	1.720	1.870	1.515	1.393	1.253	1.365	1.288	1.388
OTU 273	1.830	1.726	1.756	1.716	1.423	1.106	1.028	1.203	1.195	0.906
OTU 276	1.913	1.934	2.113	2.083	1.563	1.314	1.239	1.288	1.220	1.097
OTU 278	2.080	1.954	2.075	2.013	1.630	1.402	1.306	1.217	1.382	1.274
OTU 280	1.797	1.617	1.650	1.683	1.158	1.164	1.197	1.155	1.191	1.201
OTU 282	1.984	1.731	1.946	1.957	1.472	1.292	1.308	1.195	1.278	1.212
OTU 283	2.030	2.072	2.250	2.103	1.623	1.397	1.329	1.650	1.226	1.252
OTU 286	1.923	1.972	1.889	2.005	1.536	1.123	1.207	1.323	1.115	1.163
OTU 288	1.981	1.852	1.919	2.008	1.494	1.422	1.429	1.450	1.225	1.179
OTU 289	1.869	1.799	1.770	1.717	1.425	1.221	1.280	1.182	1.380	1.212
OTU 292	1.695	1.542	1.621	1.703	1.100	1.000	1.061	1.105	1.289	1.006
OTU 295	1.774	1.747	1.736	1.787	1.258	0.990	0.964	1.187	1.196	1.066
OTU 296	1.942	1.312	1.684	1.776	1.239	1.315	1.415	1.114	1.798	1.357
OTU 297	1.778	1.289	1.678	1.773	1.071	1.218	1.453	1.159	1.778	1.329
OTU 298	1.812	1.399	1.388	1.623	1.246	1.408	1.579	1.340	1.836	1.554
OTU 301	1.819	1.511	1.262	1.525	1.279	1.428	1.560	1.344	1.928	1.497
OTU 305	1.624	1.191	1.412	1.430	1.197	1.432	1.491	1.312	1.818	1.442
OTU 306	1.686	1.241	1.432	1.483	1.421	1.558	1.572	1.269	1.892	1.531
OTU 308	2.019	1.449	1.434	1.583	1.510	1.606	1.576	1.441	1.814	1.637
OTU 310	1.832	1.305	1.515	1.554	1.164	1.397	1.516	1.152	1.503	1.465
OTU 311	1.720	1.344	1.292	1.445	1.060	1.361	1.554	1.165	1.781	1.486
OTU 313	2.035	1.205	1.576	1.723	1.374	1.668	1.699	1.353	1.914	1.612
OTU 314	1.653	1.276	1.685	1.571	1.384	1.320	1.247	1.016	1.649	1.368
OTU 316	1.731	1.142	1.309	1.478	1.129	1.259	1.275	1.074	1.552	1.345
OTU 322	1.572	1.269	1.352	1.370	0.995	1.063	1.193	1.181	1.587	1.317
OTU 324	1.611	1.305	1.478	1.541	1.094	1.261	1.392	1.341	1.628	1.349
OTU 326	1.703	1.184	1.285	1.571	1.072	1.210	1.307	1.028	1.648	1.370
OTU 327	1.946	1.399	1.475	1.572	1.321	1.305	1.344	1.281	1.670	1.394
OTU 330	1.793	1.278	1.329	1.657	1.152	1.303	1.405	1.147	1.708	1.457
OTU 332	1.817	1.310	1.145	1.557	1.147	1.449	1.577	1.326	1.765	1.549

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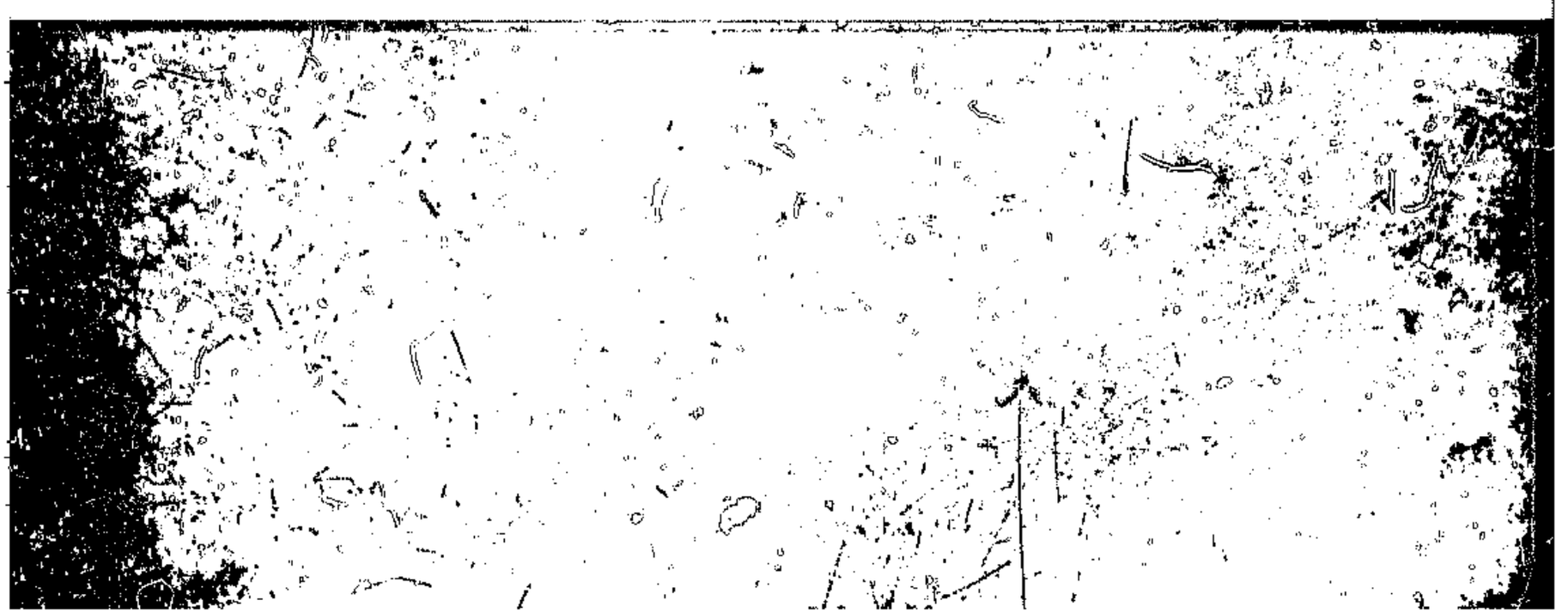
	OTU 116	OTU 119	OTU 122	OTU 125	OTU 127	OTU 129	OTU 130	OTU 132	OTU 135	OTU 136
OTU 333	1.817	1.185	1.449	1.515	1.143	1.335	1.461	0.987	1.690	1.408
OTU 336	1.863	1.545	1.453	1.511	1.676	1.692	1.655	1.341	1.926	1.690
OTU 337	1.799	1.024	1.308	1.606	1.245	1.552	1.607	1.300	1.851	1.576
OTU 339	1.923	1.129	1.390	1.616	1.156	1.452	1.554	1.217	1.809	1.537
OTU 340	1.764	1.222	0.973	1.429	1.085	1.453	1.487	1.303	1.749	1.521
OTU 341	1.754	1.261	1.299	1.502	1.100	1.180	1.236	0.931	1.619	1.364
OTU 342	1.557	1.109	1.428	1.451	1.326	1.437	1.561	1.107	1.779	1.841
OTU 343	1.671	1.145	1.345	1.415	1.328	1.546	1.594	1.188	1.865	1.615
OTU 344	1.971	1.432	1.533	1.699	1.596	1.799	1.726	1.558	2.106	1.868
OTU 345	1.701	1.254	1.308	1.466	1.266	1.431	1.576	1.299	1.802	1.491

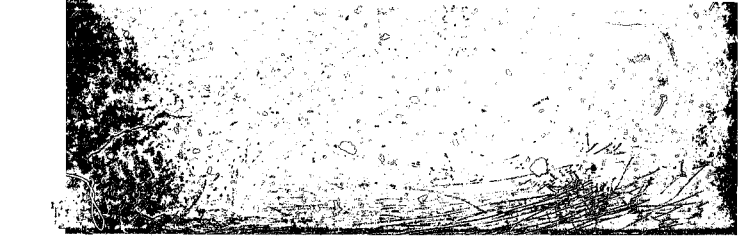


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	OTU 138	OTU 140	OTU 143	OTU 145	OTU 147	OTU 149	OTU 151	OTU 152	OTU 153	OTU 155
OTU 138	0.000									
OTU 140	1.285	0.000								
OTU 143	1.196	0.854	0.000							
OTU 145	1.047	1.059	1.024	0.000						
OTU 147	1.367	0.892	1.057	0.999	0.000					
OTU 149	1.440	0.991	0.985	1.112	1.059	0.000				
OTU 151	1.127	1.148	1.052	0.846	1.168	0.971	0.000			
OTU 152	1.299	1.153	1.013	1.233	0.974	1.113	1.290	0.000		
OTU 153	1.492	1.127	1.139	1.082	0.981	1.127	1.262	1.120	0.000	
OTU 155	1.109	1.099	1.062	0.993	0.958	1.027	0.903	1.039	1.245	0.000
OTU 158	1.349	1.250	1.315	1.381	1.167	1.071	1.243	1.342	1.174	1.181
OTU 159	1.242	1.070	0.968	1.188	1.065	1.170	1.174	0.856	1.085	1.066
OTU 162	1.461	1.334	1.317	1.258	1.260	1.234	1.099	1.608	1.588	1.113
OTU 165	1.483	1.098	0.999	1.289	1.055	1.062	1.277	1.090	1.127	1.262
OTU 166	0.827	1.125	1.083	1.019	1.269	1.400	1.057	1.216	1.368	1.046
OTU 167	0.981	1.003	1.098	1.213	1.114	1.427	1.250	0.951	1.263	1.079
OTU 171	1.263	1.009	1.213	0.663	0.868	1.155	0.985	1.162	1.048	0.994
OTU 177	1.687	1.130	1.239	1.210	0.966	1.396	1.420	1.361	1.213	1.374
OTU 181	1.379	0.938	0.916	1.164	1.062	0.895	1.028	1.042	0.841	1.150
OTU 183	1.425	1.281	1.374	1.280	1.099	1.355	1.399	1.138	1.124	1.191
OTU 186	1.366	1.066	1.085	1.362	1.276	1.352	1.123	1.319	1.221	1.184
OTU 187	1.035	0.971	1.073	0.958	1.029	0.968	1.063	1.161	1.103	0.993
OTU 189	1.322	1.151	1.130	1.251	1.186	1.193	1.138	1.053	1.015	1.176
OTU 191	1.469	0.955	1.232	1.106	0.920	1.110	1.169	1.312	1.209	0.959
OTU 194	1.389	0.846	0.914	0.981	0.896	0.905	1.103	1.111	0.905	1.132
OTU 196	1.449	0.897	1.134	1.131	0.898	1.141	1.126	1.309	1.287	0.938
OTU 197	1.552	1.057	1.213	1.339	1.278	1.306	1.160	1.435	1.380	1.282
OTU 199	1.518	1.205	1.410	1.143	1.038	1.295	1.180	1.480	1.245	1.102
OTU 200	1.374	1.082	1.149	1.028	1.066	1.042	1.066	1.342	1.345	0.861
OTU 202	1.525	1.313	1.291	1.366	1.286	1.516	1.219	1.417	1.395	1.214
OTU 206	1.322	0.876	0.931	1.044	0.917	0.927	1.016	1.043	1.013	1.103
OTU 209	1.553	1.063	1.407	1.105	1.140	1.237	1.199	1.439	1.291	1.327
OTU 210	1.607	1.104	1.450	1.221	1.272	1.233	1.260	1.553	1.457	1.153
OTU 212	1.387	1.060	1.079	1.116	1.212	1.131	1.110	1.273	1.265	1.307
OTU 213	1.744	1.237	1.369	1.519	1.182	1.203	1.441	1.402	1.148	1.392
OTU 216	1.663	1.307	1.457	1.748	1.420	1.412	1.713	1.479	1.467	1.538
OTU 218	1.990	1.249	1.491	1.697	1.225	1.258	1.615	1.406	1.174	1.550
OTU 220	1.132	1.509	1.330	1.027	1.538	1.718	1.274	1.607	1.630	1.364
OTU 227	1.102	0.795	0.988	0.891	0.889	1.121	0.850	1.013	1.206	0.973
OTU 229	1.212	1.061	1.156	0.911	1.059	1.343	1.043	1.336	1.163	1.081
OTU 231	1.024	1.014	0.953	0.877	1.092	1.211	1.006	1.073	1.327	0.986
OTU 234	1.279	1.420	1.467	1.211	1.513	1.728	1.190	1.598	1.587	1.393
OTU 235	1.322	1.171	1.124	0.931	1.155	1.388	1.072	1.426	1.315	1.229
OTU 236	1.301	1.409	1.317	0.984	1.159	1.507	1.068	1.365	1.388	0.990
OTU 239	1.234	1.210	1.271	0.740	1.237	1.356	0.989	1.446	1.455	1.197
OTU 241	1.762	1.621	1.692	1.283	1.327	1.626	1.374	1.660	1.561	1.395
OTU 243	1.131	1.229	0.990	0.942	1.188	1.302	1.006	1.240	1.406	1.086
OTU 244	1.077	1.273	1.124	0.914	1.190	1.496	1.103	1.199	1.298	1.115
OTU 247	1.317	1.478	1.331	0.991	1.297	1.420	1.062	1.581	1.553	1.044
OTU 251	1.064	1.213	1.170	0.903	1.171	1.319	0.960	1.240	1.507	0.978

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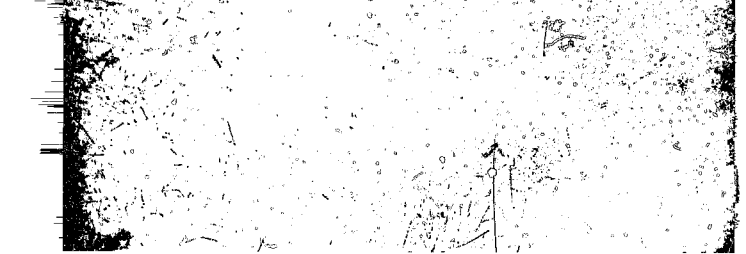


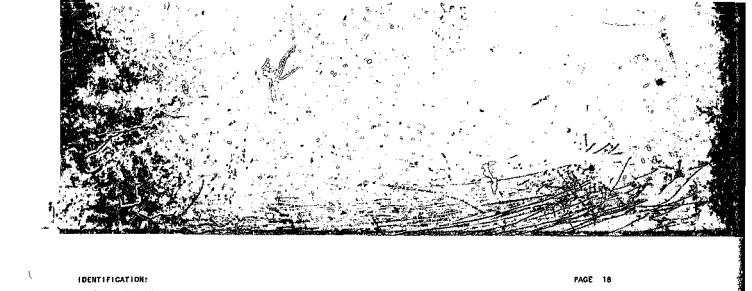


CONTINUATION OF

COMPUTE DISTANCE

	OTU 138	OTU 140	OTU 143	OTU 145	OTU 147	OTU 149	OTU 151	OTU 152	OTU 153	OTU 155
OTU 252	1.644	1.612	1.682	1.613	1.654	1.601	1.551	1.650	1.856	1.582
OTU 254	1.182	1.197	1.276	1.018	1.134	1.358	1.067	1.213	1.361	1.018
OTU 256	1.066	0.977	0.997	0.819	1.061	1.196	0.974	1.045	1.247	0.968
OTU 259	1.82	1.551	1.593	1.455	1.474	1.661	1.366	1.629	1.528	1.138
OTU 260	1.239	1.458	1.483	1.187	1.079	1.536	1.216	1.406	1.463	1.012
OTU 262	1.224	1.240	1.354	1.105	1.134	1.256	1.059	1.371	1.187	0.949
OTU 264	1.221	1.157	0.989	0.893	1.049	0.930	0.961	1.125	1.039	1.043
OTU 266	1.360	1.186	1.060	1.029	1.082	1.159	0.952	1.125	1.205	0.945
OTU 268	0.876	1.165	0.974	0.879	1.087	1.194	0.889	1.094	1.329	0.769
OTU 270	1.242	1.095	1.084	0.949	1.061	1.136	1.135	1.161	1.328	0.898
OTU 272	1.292	1.277	1.411	1.096	1.101	1.348	1.084	1.312	1.433	0.987
OTU 273	0.998	1.177	0.954	0.837	1.042	1.154	1.023	1.089	1.182	0.889
OTU 276	1.254	1.232	1.081	0.908	1.148	1.301	1.126	1.418	1.430	1.137
OTU 278	1.307	1.159	1.272	1.097	1.115	1.438	1.117	1.476	1.563	1.031
OTU 280	1.257	0.991	1.207	0.959	0.930	1.258	1.013	1.204	1.263	0.857
OTU 282	1.384	1.250	1.420	0.984	1.060	1.296	1.137	1.458	1.497	0.932
OTU 284	1.148	1.470	1.118	1.151	1.428	1.550	1.177	1.419	1.601	1.241
OTU 286	1.061	1.168	1.191	0.869	1.170	1.438	0.990	1.333	1.309	1.053
OTU 288	1.193	1.288	1.249	1.014	1.065	1.365	1.096	1.257	1.329	0.990
OTU 289	1.295	1.165	1.229	1.156	1.097	1.383	1.120	1.368	1.369	1.084
OTU 292	1.273	0.918	0.989	0.907	0.923	1.040	1.060	1.153	1.205	1.068
OTU 294	1.071	0.842	0.830	0.771	0.946	1.132	0.884	1.089	1.160	1.071
OTU 296	1.896	1.251	1.563	1.483	1.254	1.238	1.610	1.630	1.526	1.908
OTU 297	1.846	1.311	1.525	1.267	1.267	1.329	1.565	1.610	1.529	1.306
OTU 298	1.983	1.420	1.629	1.633	1.359	1.435	1.623	1.571	1.303	1.633
OTU 301	1.940	1.350	1.555	1.755	1.440	1.410	1.624	1.498	1.308	1.640
OTU 305	1.927	1.422	1.682	1.660	1.269	1.176	1.581	1.629	1.346	1.576
OTU 306	2.021	1.368	1.602	1.699	1.206	1.193	1.625	1.501	1.338	1.567
OTU 308	2.036	1.537	1.684	1.801	1.420	1.246	1.533	1.580	1.534	1.908
OTU 310	1.978	1.341	1.695	1.691	1.350	1.127	1.586	1.560	1.425	1.940
OTU 311	1.811	1.262	1.800	1.647	1.157	1.304	1.457	1.421	1.272	1.615
OTU 312	2.079	1.563	1.744	1.809	1.353	1.356	1.772	1.671	1.599	1.943
OTU 314	1.816	1.348	1.424	1.399	1.219	1.039	1.400	1.515	1.430	1.397
OTU 316	1.736	1.181	1.357	1.474	1.066	1.081	1.300	1.278	1.070	1.185
OTU 318	1.757	1.302	1.291	1.493	1.316	1.134	1.425	1.392	1.150	1.906
OTU 320	1.863	1.326	1.391	1.516	1.258	1.289	1.567	1.453	1.272	1.893
OTU 324	1.783	1.353	1.467	1.501	1.136	1.096	1.394	1.447	1.243	1.893
OTU 327	1.591	1.285	1.400	1.682	1.375	1.344	1.422	1.402	1.382	1.207
OTU 329	1.869	1.340	1.549	1.576	1.313	1.211	1.531	1.460	1.365	1.906
OTU 332	1.845	1.319	1.529	1.696	1.259	1.367	1.590	1.482	1.313	1.951
OTU 333	1.680	1.244	1.550	1.561	1.152	1.110	1.491	1.445	1.252	1.333
OTU 336	2.093	1.611	1.701	1.893	1.587	1.284	1.515	1.72-	1.497	1.562
OTU 337	1.982	1.436	1.629	1.759	1.221	1.288	1.705	1.595	1.388	1.410
OTU 339	1.970	1.375	1.633	1.670	1.288	1.327	1.684	1.655	1.439	1.488
OTU 340	1.854	1.320	1.469	1.654	1.197	1.372	1.627	1.287	1.270	1.360
OTU 341	1.713	1.183	1.366	1.677	1.189	1.096	1.356	1.382	1.361	1.309
OTU 342	1.902	1.426	1.594	1.642	1.229	1.195	1.468	1.590	1.410	1.437
OTU 343	2.022	1.469	1.613	1.758	1.350	1.179	1.582	1.608	1.426	1.493
OTU 344	2.075	1.734	1.813	1.930	1.666	1.519	1.855	1.737	1.606	1.711
OTU 345	1.997	1.494	1.863	1.760	1.274	1.230	1.634	1.494	1.232	1.466



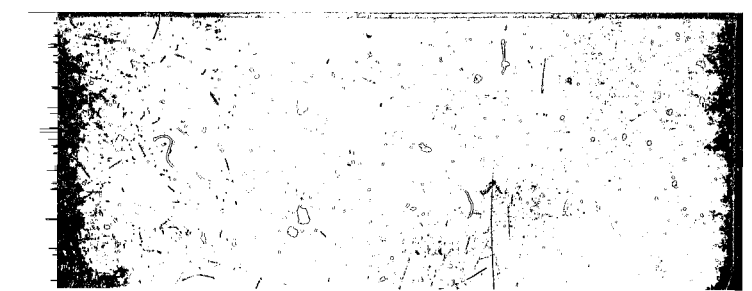


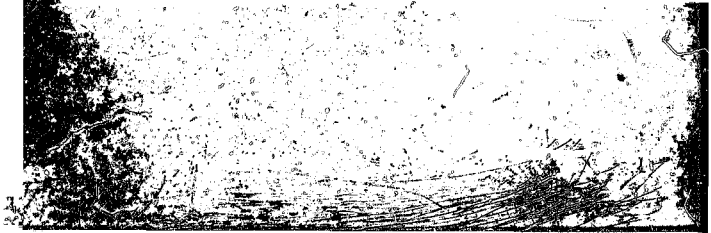
IDENTIFICATION:

COMPUTE DISTANCE

	OTU 158	OTU 159	OTU 162	OTU 165	OTU 166	OTU 167	OTU 171	OTU 177	OTU 181	OTU 183
OTU 158	0.000									
OTU 159	1.354	0.000								
OTU 162	1.380	1.410	0.000							
OTU 165	1.298	1.079	1.843	0.000						
OTU 166	1.258	1.144	1.363	1.337	0.000					
OTU 167	1.284	0.997	1.540	1.174	0.834	0.000				
OTU 171	1.216	1.058	1.218	1.263	1.052	1.155	0.000			
OTU 177	1.564	1.780	2.509	1.830	1.542	1.525	1.090	0.000		
OTU 181	1.211	0.795	1.417	0.959	1.264	1.187	1.123	1.221	0.000	
OTU 183	1.395	1.020	1.686	1.431	1.320	1.307	1.041	1.370	1.202	0.000
OTU 186	1.210	1.089	1.898	1.449	1.148	1.144	1.004	1.403	1.031	1.137
OTU 187	1.121	0.988	1.176	1.265	1.091	1.147	1.014	1.296	1.003	1.200
OTU 189	1.335	0.822	1.523	1.196	1.216	1.083	1.082	1.409	0.765	1.191
OTU 191	1.331	1.209	1.201	1.285	1.364	1.263	1.002	1.324	1.018	1.230
OTU 196	1.251	1.117	1.359	1.092	1.286	1.168	0.956	1.239	0.810	1.188
OTU 196	1.255	1.191	1.173	1.351	1.267	1.164	1.073	1.249	1.140	1.231
OTU 197	1.564	1.182	1.270	1.576	1.488	1.378	1.177	1.314	1.062	1.404
OTU 199	1.347	1.284	1.221	1.478	1.288	1.247	0.992	1.186	1.255	1.238
OTU 200	1.187	1.404	1.159	1.358	1.247	1.261	1.077	1.480	1.289	1.448
OTU 201	1.529	1.108	1.584	1.643	1.334	1.405	1.200	1.181	1.197	1.316
OTU 205	0.968	0.934	1.284	0.990	1.112	1.084	0.966	1.176	0.776	1.262
OTU 209	1.554	1.310	1.516	1.484	1.504	1.510	0.930	1.111	1.196	1.398
OTU 210	1.569	1.418	1.374	1.668	1.513	1.563	1.183	1.316	1.285	1.486
OTU 212	1.278	1.218	1.902	1.481	1.261	1.218	1.307	1.366	0.974	1.511
OTU 213	1.032	1.233	1.495	1.351	1.461	1.527	1.246	1.199	1.044	1.292
OTU 214	1.424	1.356	1.748	1.597	1.726	1.590	1.665	1.584	1.169	1.603
OTU 218	1.284	1.364	1.693	1.419	1.739	1.621	1.456	1.340	1.162	1.468
OTU 219	1.706	1.471	1.627	1.777	1.727	1.383	1.348	1.661	1.516	1.693
OTU 227	1.336	1.034	1.286	1.072	1.030	0.919	0.857	1.153	1.075	1.316
OTU 229	1.212	1.254	1.578	1.319	0.999	1.061	0.972	1.334	1.101	1.363
OTU 231	1.382	1.235	1.471	1.259	0.962	1.035	1.081	1.375	1.116	1.331
OTU 234	1.719	1.541	1.661	1.700	1.146	1.315	1.259	1.509	1.520	1.796
OTU 235	1.482	1.465	1.525	1.457	1.253	1.277	1.067	1.276	1.256	1.551
OTU 236	1.645	1.392	1.507	1.576	1.238	1.370	1.130	1.362	1.378	1.551
OTU 240	1.516	1.470	1.252	1.553	1.168	1.396	1.095	1.253	1.430	1.622
OTU 241	1.858	1.667	1.668	1.762	1.719	1.765	1.181	1.197	1.573	1.751
OTU 242	1.315	1.329	1.447	1.386	1.077	1.238	1.137	1.271	1.212	1.547
OTU 244	1.421	1.195	1.581	1.490	0.815	1.075	0.993	1.235	1.096	1.351
OTU 247	1.481	1.605	1.471	1.631	1.300	1.386	1.262	1.476	1.482	1.701
OTU 251	1.515	1.293	1.437	1.563	1.154	1.188	1.198	1.436	1.212	1.684
OTU 252	1.805	1.735	1.802	1.976	1.604	1.591	1.583	1.862	1.789	1.804
OTU 254	1.285	1.209	1.616	1.371	1.157	1.065	1.189	1.456	1.183	1.438
OTU 256	1.467	1.036	1.609	1.496	0.980	0.912	1.022	1.338	0.992	1.383
OTU 259	1.610	1.608	1.700	1.902	1.456	1.582	1.244	1.537	1.693	1.648
OTU 260	1.440	1.391	1.431	1.613	1.330	1.360	1.248	1.337	1.522	1.408
OTU 262	1.152	1.392	1.489	1.566	1.090	1.311	0.975	1.388	1.280	1.283
OTU 264	1.131	1.223	1.416	1.273	1.148	1.307	1.032	1.161	1.047	1.329
OTU 266	1.289	1.069	1.368	1.264	1.284	1.207	1.013	1.198	1.061	1.306
OTU 268	1.263	1.066	1.219	1.268	0.636	0.995	0.904	1.379	1.192	1.202
OTU 270	1.396	1.180	1.254	1.387	1.128	1.237	0.956	1.214	1.271	1.288

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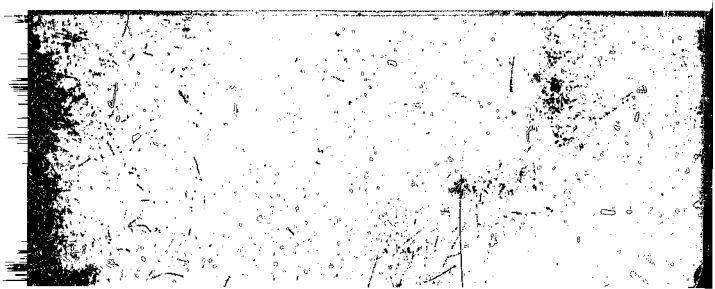




CONTINUATION OF

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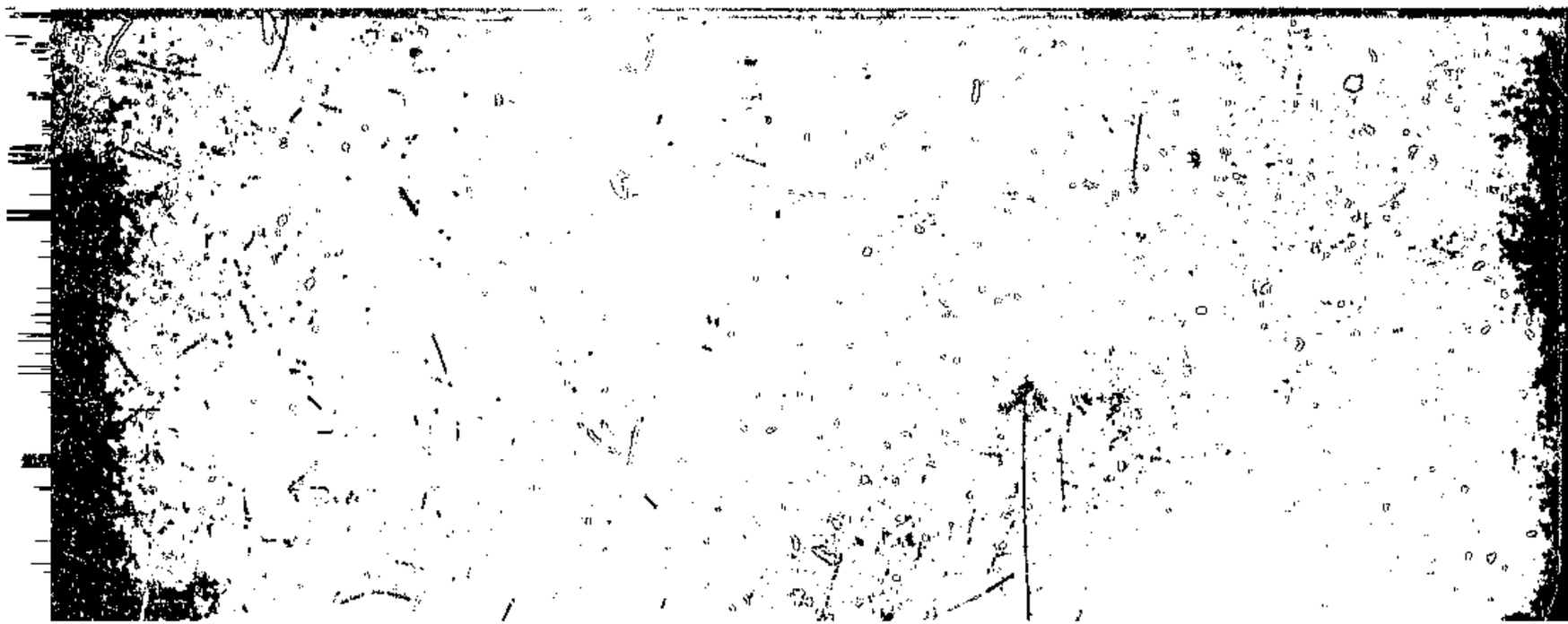
	OTU 158	OTU 159	OTU 162	OTU 165	OTU 166	OTU 167	OTU 171	OTU 177	OTU 181	OTU 183
OTU 272	1.182	1.386	1.523	1.461	1.212	1.299	1.181	1.437	1.368	1.376
OTU 274	1.133	1.222	1.350	1.408	1.059	1.121	1.093	1.356	1.187	1.343
OTU 276	1.332	1.478	1.350	1.372	1.182	1.236	1.191	1.575	1.391	1.501
OTU 278	1.516	1.506	1.280	1.600	1.261	1.276	1.070	1.475	1.519	1.545
OTU 280	1.265	1.345	1.380	1.397	1.011	1.147	0.879	1.103	1.219	1.286
OTU 282	1.370	1.507	1.329	1.573	1.292	1.419	0.981	1.275	1.402	1.516
OTU 283	1.747	1.317	1.760	1.607	1.355	1.507	1.362	1.493	1.410	1.523
OTU 284	1.428	1.271	1.532	1.570	0.970	1.138	0.950	1.299	1.362	1.366
OTU 288	1.258	1.264	1.469	1.404	1.163	1.116	1.069	1.421	1.383	1.390
OTU 289	1.111	1.414	1.450	1.391	1.273	1.301	1.095	1.229	1.403	1.373
OTU 292	0.997	1.103	1.443	1.249	1.119	1.130	1.027	1.145	1.076	1.214
OTU 295	1.039	1.028	1.397	1.138	0.906	0.899	1.090	1.223	0.999	1.112
OTU 296	1.339	1.605	1.395	1.651	1.494	1.702	1.372	1.428	1.494	1.602
OTU 297	1.250	1.550	1.534	1.625	1.636	1.692	1.398	1.445	1.395	1.495
OTU 298	1.347	1.480	1.865	1.593	1.732	1.728	1.488	1.195	1.339	1.495
OTU 301	1.356	1.386	1.725	1.568	1.685	1.638	1.523	1.453	1.287	1.505
OTU 305	1.201	1.399	1.509	1.384	1.725	1.689	1.586	1.511	1.236	1.517
OTU 306	1.122	1.495	1.695	1.343	1.788	1.667	1.568	1.507	1.293	1.656
OTU 308	1.412	1.577	1.909	1.680	1.805	1.794	1.573	1.762	1.509	1.667
OTU 310	1.263	1.555	1.587	1.545	1.739	1.745	1.470	1.606	1.337	1.510
OTU 311	1.136	1.380	1.523	1.409	1.548	1.642	1.329	1.365	1.254	1.442
OTU 313	1.335	1.634	1.580	1.743	1.910	1.876	1.549	1.628	1.589	1.637
OTU 314	1.265	1.590	1.310	1.435	1.657	1.709	1.348	1.498	1.313	1.573
OTU 316	1.269	1.338	1.383	1.328	1.495	1.481	1.204	1.411	1.103	1.322
OTU 322	1.268	1.588	1.660	1.386	1.599	1.547	1.465	1.458	0.937	1.373
OTU 324	1.446	1.613	1.704	1.569	1.652	1.660	1.434	1.200	1.159	1.314
OTU 326	1.151	1.338	1.696	1.389	1.565	1.516	1.280	1.420	1.167	1.329
OTU 327	1.301	1.420	1.664	1.525	1.585	1.416	1.446	1.571	1.275	1.526
OTU 330	1.288	1.391	1.586	1.566	1.640	1.714	1.382	1.347	1.292	1.342
OTU 332	1.283	1.552	1.674	1.435	1.587	1.569	1.377	1.325	1.220	1.256
OTU 333	1.173	1.486	1.447	1.528	1.672	1.571	1.347	1.4	1.292	1.523
OTU 336	1.514	1.640	1.996	1.645	1.903	1.846	1.677	1.616	1.530	1.788
OTU 337	1.253	1.527	1.602	1.439	1.778	1.651	1.586	1.631	1.363	1.502
OTU 339	1.276	1.531	1.600	1.598	1.746	1.730	1.490	1.473	1.336	1.451
OTU 340	1.258	1.423	1.756	1.402	1.566	1.481	1.385	1.336	1.170	1.169
OTU 341	1.113	1.334	1.436	1.439	1.470	1.487	1.306	1.484	1.106	1.329
OTU 342	0.952	1.256	1.397	1.311	1.710	1.659	1.430	1.558	1.345	1.665
OTU 343	1.084	1.469	1.584	1.518	1.789	1.773	1.518	1.659	1.327	1.686
OTU 344	1.362	1.777	1.756	1.665	1.985	1.784	1.952	2.120	1.586	1.817
OTU 345	1.232	1.390	1.653	1.514	1.812	1.678	1.503	1.541	1.145	1.649



COMPUTE DISTANCE

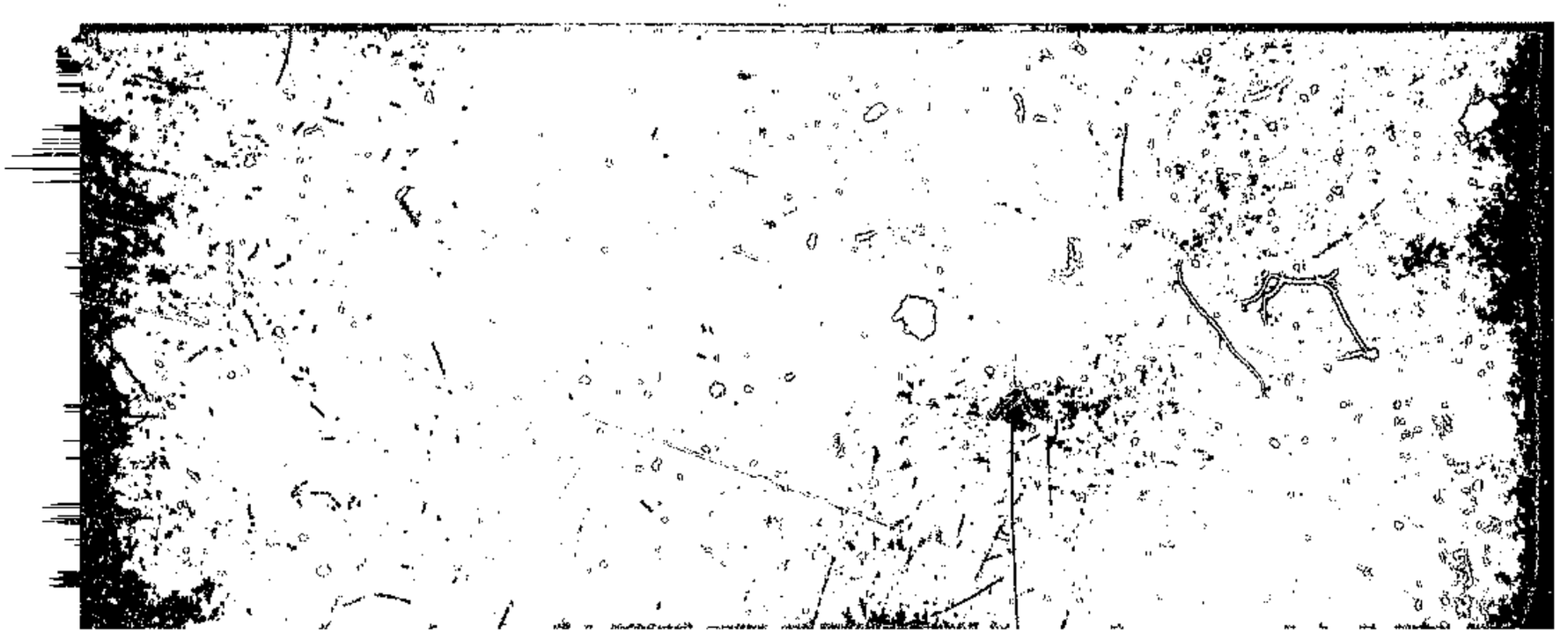
	OTU 186	OTU 187	OTU 189	OTU 191	OTU 194	OTU 196	OTU 197	OTU 199	OTU 200	OTU 202
OTU 186	0.000									
OTU 187	1.152	0.000								
OTU 189	0.953	1.109	0.000							
OTU 191	1.166	1.033	1.089	0.000						
OTU 194	1.123	0.939	1.007	0.833	0.000					
OTU 196	1.105	1.045	1.160	0.779	1.020	0.000				
OTU 197	0.924	1.211	0.998	0.953	1.073	0.971	0.000			
OTU 199	1.190	1.084	1.230	0.896	1.118	0.995	1.130	0.000		
OTU 200	1.208	1.014	1.404	0.832	0.937	0.912	1.301	1.019	0.000	
OTU 202	1.096	1.337	1.294	1.289	1.381	1.256	1.154	1.153	1.394	0.000
OTU 206	0.965	0.924	0.979	1.022	0.858	0.959	1.086	1.017	0.986	1.168
OTU 209	1.390	1.105	1.287	1.043	1.062	1.138	1.097	0.843	1.227	1.328
OTU 210	1.349	1.099	1.305	0.942	1.182	0.987	0.926	0.982	1.166	1.313
OTU 212	1.080	1.055	1.099	1.193	0.988	0.911	1.091	1.230	1.205	1.298
OTU 213	1.217	1.178	1.210	1.275	1.209	1.149	1.317	1.188	1.402	1.373
OTU 216	1.245	1.340	1.266	1.310	1.308	1.173	1.291	1.529	1.566	1.597
OTU 218	1.264	1.333	1.313	1.276	1.239	1.217	1.355	1.290	1.476	1.528
OTU 220	1.389	1.290	1.562	1.527	1.441	1.576	1.629	1.572	1.420	1.593
OTU 227	1.11[illegible]	1.040	1.099	1.086	1.054	1.021	1.148	1.113	1.091	1.284
OTU 229	1.02[illegible]	1.105	1.168	1.032	0.936	1.029	1.205	1.157	1.075	1.382
OTU 231	1.295	1.126	1.251	1.127	0.922	1.192	1.278	1.443	1.119	1.341
OTU 234	1.445	1.471	1.599	1.605	1.445	1.543	1.536	1.519	1.458	1.359
OTU 235	1.250	1.284	1.469	1.255	1.040	1.328	1.386	1.289	1.122	1.429
OTU 236	1.452	1.345	1.443	1.245	1.258	1.373	1.447	1.379	1.296	1.199
OTU 239	1.453	1.144	1.487	1.354	1.252	1.318	1.441	1.224	1.185	1.411
OTU 241	1.878	1.556	1.737	1.447	1.485	1.544	1.614	1.486	1.544	1.548
OTU 243	1.303	1.284	1.348	1.302	1.166	1.256	1.389	1.438	1.165	1.218
OTU 244	1.308	1.221	1.369	1.446	1.222	1.335	1.464	1.402	1.265	1.227
OTU 247	1.552	1.424	1.619	1.361	1.388	1.357	1.586	1.434	1.177	1.442
OTU 251	1.315	1.216	1.366	1.215	1.155	1.247	1.257	1.378	1.179	1.230
OTU 252	1.801	1.787	1.846	1.607	1.677	1.631	1.626	1.771	1.612	1.748
OTU 254	1.282	1.311	1.273	1.268	1.311	1.196	1.440	1.428	1.319	1.355
OTU 256	1.233	1.113	1.014	1.032	0.910	1.030	1.082	1.298	1.150	1.288
OTU 259	1.505	1.525	1.773	1.543	1.535	1.466	1.636	1.465	1.409	1.544
OTU 260	1.467	1.319	1.545	1.344	1.365	1.381	1.573	1.355	1.329	1.285
OTU 262	1.322	1.136	1.443	1.239	1.214	1.245	1.437	1.140	1.136	1.260
OTU 264	1.289	1.032	1.234	1.235	0.880	1.205	1.304	1.229	1.037	1.264
OTU 266	1.182	1.257	1.241	1.206	1.121	1.209	1.341	1.322	1.151	1.200
OTU 268	1.234	0.991	1.228	1.235	1.228	1.184	1.344	1.255	1.109	1.285
OTU 270	1.363	1.001	1.390	1.130	1.063	1.111	1.342	1.156	0.960	1.392
OTU 272	1.395	1.316	1.503	1.323	1.406	1.272	1.613	1.259	1.189	1.243
OTU 273	1.124	0.938	1.262	1.188	1.000	1.155	1.343	1.267	0.916	1.277
OTU 276	1.323	1.298	1.435	1.202	0.971	1.208	1.489	1.419	0.969	1.645
OTU 278	1.310	1.260	1.554	1.064	1.295	1.111	1.287	1.256	0.922	1.460
OTU 280	1.283	1.116	1.358	1.155	1.183	1.006	1.305	1.246	1.164	1.164
OTU 282	1.567	1.236	1.598	1.155	1.322	1.151	1.499	1.126	0.966	1.339
OTU 283	1.566	1.496	1.607	1.578	1.309	1.583	1.696	1.724	1.489	1.474
OTU 286	1.236	1.160	1.374	1.243	1.209	1.200	1.315	1.174	1.156	1.181
OTU 288	1.408	1.221	1.498	1.347	1.256	1.257	1.589	1.440	1.206	1.537
OTU 289	1.260	1.237	1.467	1.258	1.219	1.121	1.180	1.317	1.141	1.229

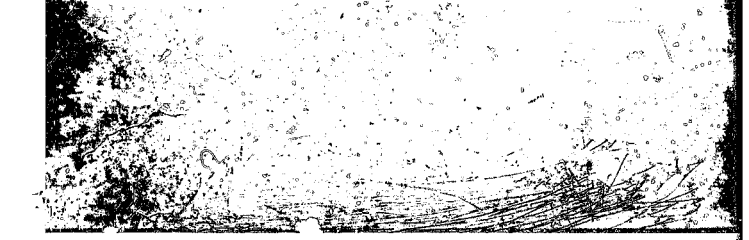
PLEASE TURN THE PAGE



COMPUTE DISTANCE

	OTU 186	OTU 187	OTU 189	OTU 191	OTU 194	OTU 196	OTU 197	OTU 199	OTU 200	OTU 202
OTU 292	1.230	1.035	1.328	1.216	0.982	1.002	1.358	1.253	1.088	1.270
OTU 295	1.154	1.035	1.139	1.200	0.971	0.974	1.249	1.278	1.167	1.253
OTU 296	1.564	1.220	1.595	1.182	1.248	0.966	1.438	1.209	1.144	1.686
OTU 297	1.556	1.235	1.646	1.310	1.223	1.177	1.529	1.306	1.240	1.638
OTU 298	1.540	1.391	1.607	1.506	1.396	1.413	1.658	1.272	1.558	1.513
OTU 301	1.221	1.325	1.406	1.549	1.328	1.354	1.409	1.405	1.585	1.601
OTU 305	1.455	1.313	1.380	1.432	1.282	1.305	1.559	1.488	1.471	1.621
OTU 306	1.419	1.413	1.427	1.380	1.322	1.206	1.555	1.400	1.406	1.681
OTU 308	1.362	1.464	1.325	1.327	1.430	1.182	1.355	1.365	1.423	1.718
OTU 310	1.414	1.348	1.474	1.305	1.231	1.256	1.422	1.429	1.323	1.752
OTU 311	1.247	1.362	1.338	1.341	1.256	1.083	1.312	1.370	1.387	1.430
OTU 313	1.610	1.474	1.611	1.376	1.472	1.301	1.652	1.441	1.425	1.745
OTU 314	1.477	1.297	1.388	1.153	1.125	1.112	1.411	1.292	1.093	1.583
OTU 316	1.303	1.169	1.055	0.973	1.027	0.903	1.209	1.123	1.204	1.477
OTU 322	1.250	1.222	1.182	1.289	1.013	1.222	1.309	1.419	1.418	1.403
OTU 324	1.418	1.199	1.383	1.367	1.247	1.190	1.433	1.374	1.492	1.305
OTU 326	1.324	1.157	1.262	1.109	1.112	0.939	1.268	1.120	1.258	1.535
OTU 327	1.271	1.213	1.342	1.340	1.291	0.975	1.393	1.394	1.309	1.483
OTU 330	1.390	1.233	1.417	1.313	1.286	1.186	1.417	1.095	1.397	1.436
OTU 332	1.361	1.348	1.310	1.395	1.387	1.255	1.460	1.269	1.580	1.395
OTU 333	1.374	1.276	1.407	1.141	1.196	0.990	1.349	1.269	1.183	1.631
OTU 336	1.283	1.549	1.403	1.484	1.553	1.387	1.476	1.475	1.514	1.691
OTU 337	1.554	1.385	1.422	1.242	1.307	1.156	1.616	1.405	1.383	1.744
OTU 339	1.496	1.377	1.485	1.240	1.305	1.133	1.480	1.302	1.399	1.644
OTU 340	1.330	1.340	1.319	1.313	1.290	1.234	1.477	1.270	1.466	1.401
OTU 341	1.118	1.198	1.194	1.104	1.106	0.963	1.180	1.138	1.225	1.403
OTU 342	1.369	1.318	1.468	1.302	1.308	1.121	1.501	1.359	1.247	1.610
OTU 343	1.379	1.461	1.459	1.367	1.313	1.251	1.565	1.419	1.347	1.700
OTU 344	1.610	1.658	1.584	1.585	1.634	1.538	1.855	1.777	1.609	1.935
OTU 345	1.324	1.407	1.369	1.284	1.262	1.254	1.405	1.433	1.414	1.624





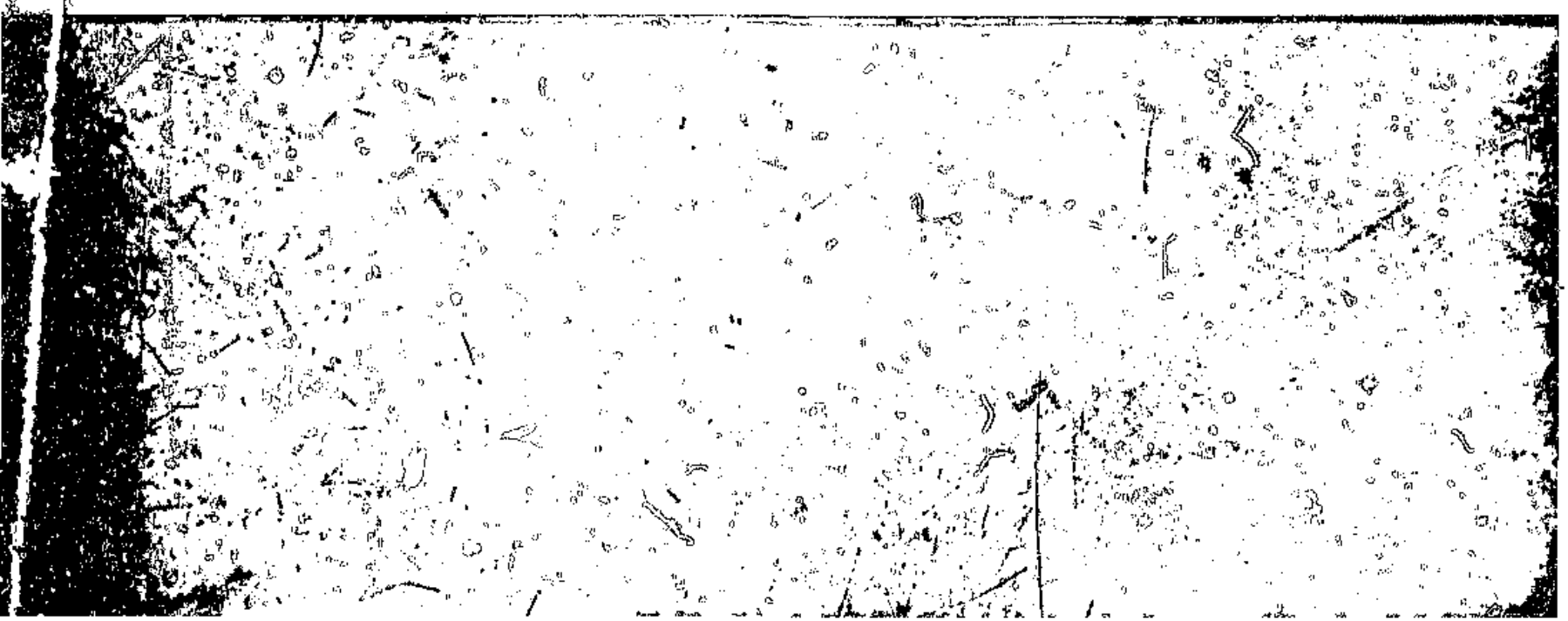
IDENTIFICATION:

COMPUTE DISTANCE

	OTU 206	OTU 209	OTU 210	OTU 212	OTU 213	OTU 216	OTU 218	OTU 220	OTU 227	OTU 229
OTU 206	0.000									
OTU 209	1.030	0.000								
OTU 210	1.235	0.893	0.000							
OTU 212	0.896	1.045	1.255	0.000						
OTU 213	0.897	1.315	1.365	1.174	0.000					
OTU 216	1.279	1.610	1.442	1.168	1.044	0.000				
OTU 218	1.114	1.901	1.926	1.236	0.776	0.967	0.000			
OTU 220	1.501	1.713	1.728	1.443	1.025	1.983	2.081	0.000		
OTU 227	0.938	1.028	1.261	1.154	1.023	1.618	1.460	1.362	0.000	
OTU 229	1.006	1.278	1.305	1.115	1.353	1.520	1.469	1.181	1.025	0.000
OTU 231	1.116	1.296	1.362	1.223	1.529	1.679	1.724	1.211	0.953	0.926
OTU 234	1.446	1.587	1.652	1.538	1.511	2.128	2.027	1.627	1.326	1.150
OTU 235	1.221	1.238	1.458	1.353	1.665	1.812	1.716	1.234	1.009	0.883
OTU 236	1.401	1.446	1.623	1.546	1.769	1.990	1.920	1.261	1.193	1.033
OTU 239	1.207	1.099	1.265	1.328	1.636	1.969	1.781	1.292	0.939	1.059
OTU 241	1.583	1.329	1.523	1.757	1.805	2.172	1.970	1.788	1.393	1.416
OTU 243	1.119	1.415	1.343	1.203	1.527	1.721	1.796	1.301	1.062	1.050
OTU 244	1.169	1.383	1.562	1.329	1.532	1.862	1.829	1.084	1.082	0.960
OTU 247	1.481	1.549	1.589	1.505	1.761	1.957	1.972	1.586	1.284	1.140
OTU 251	1.184	1.322	1.347	1.224	1.596	1.791	1.880	1.207	1.060	1.033
OTU 252	1.653	1.796	1.804	1.892	2.000	2.184	2.091	1.950	1.461	1.593
OTU 254	1.114	1.051	1.495	1.234	1.540	1.699	1.662	1.365	1.034	0.889
OTU 256	1.033	1.202	1.243	1.027	1.525	1.591	1.659	1.266	0.927	0.939
OTU 259	1.568	1.595	1.669	1.748	1.767	2.065	1.926	1.572	1.435	1.285
OTU 260	1.439	1.580	1.940	1.547	1.677	1.665	1.864	1.338	1.303	1.100
OTU 262	1.212	1.287	1.337	1.405	1.398	1.887	1.622	1.480	1.195	1.093
OTU 264	0.998	1.182	1.294	1.091	1.262	1.600	1.562	1.186	1.116	1.072
OTU 266	0.997	1.359	1.526	1.284	1.408	1.733	1.581	1.318	0.988	1.007
OTU 268	1.089	1.354	1.465	1.331	1.413	1.716	1.694	1.193	0.939	1.086
OTU 270	1.171	1.376	1.359	1.269	1.424	1.650	1.568	1.268	1.017	1.178
OTU 272	1.110	1.331	1.495	1.415	1.511	1.846	1.725	1.525	1.073	1.231
OTU 273	1.055	1.360	1.339	1.107	1.440	1.569	1.695	1.093	1.123	0.948
OTU 276	1.225	1.570	1.605	1.288	1.658	1.810	1.810	1.148	1.200	0.939
OTU 278	1.280	1.341	1.349	1.265	1.737	1.895	1.840	1.240	0.996	1.176
OTU 280	1.093	1.197	1.216	1.285	1.318	1.662	1.550	1.402	0.964	0.961
OTU 282	1.218	1.182	1.210	1.243	1.547	1.961	1.724	1.522	1.128	1.172
OTU 283	1.477	1.692	1.808	1.495	1.87	1.914	1.989	1.295	1.461	1.363
OTU 286	1.137	1.179	1.402	1.208	1.539	1.810	1.771	1.073	0.997	0.972
OTU 288	1.237	1.339	1.659	1.464	1.585	1.882	1.754	1.262	1.082	0.945
OTU 289	1.158	1.181	1.205	1.394	1.505	1.799	1.638	1.551	1.086	1.084
OTU 292	0.870	1.261	1.351	0.962	1.143	1.354	1.348	1.396	1.051	1.050
OTU 295	0.857	1.232	1.366	0.873	1.335	1.485	1.467	1.264	0.860	0.907
OTU 296	1.287	1.307	1.191	1.239	1.058	1.196	1.099	1.986	1.519	1.520
OTU 297	1.139	1.370	1.413	1.220	0.929	1.306	1.165	1.083	1.571	1.545
OTU 298	1.201	1.319	1.248	1.298	0.814	1.375	0.921	1.986	1.527	1.560
OTU 301	1.168	1.393	1.549	1.265	0.789	1.090	0.783	1.982	1.557	1.551
OTU 305	1.675	1.599	1.580	1.256	0.868	1.150	0.916	2.071	1.610	1.644
OTU 306	1.038	1.610	1.604	1.251	0.941	1.171	0.829	2.150	1.505	1.588
OTU 308	1.360	1.578	1.573	1.373	1.112	1.121	0.929	2.177	1.613	1.635
OTU 310	1.192	1.492	1.423	1.356	0.874	1.208	0.921	2.048	1.608	1.635

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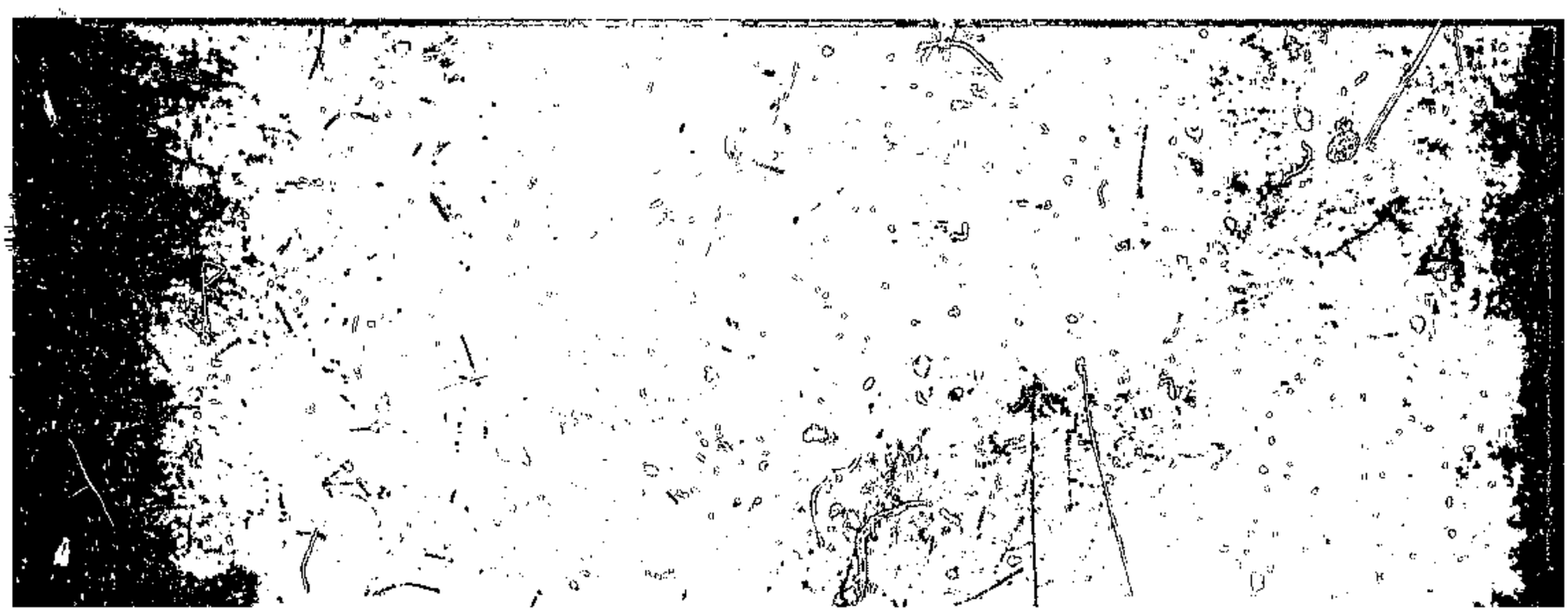
	OTU 206	OTU 209	OTU 210	OTU 212	OTU 213	OTU 216	OTU 218	OTU 220	OTU 227	OTU 229
OTU 311	1.037	1.446	1.484	1.221	0.766	1.275	1.001	1.965	1.422	1.471
OTU 313	1.449	1.683	1.556	1.577	1.081	1.288	1.100	2.178	1.781	1.775
OTU 314	1.129	1.347	1.292	1.189	1.208	1.312	1.204	2.008	1.430	1.501
OTU 316	1.09[illegible]	1.287	1.182	1.192	0.943	1.073	0.861	1.940	1.364	1.362
OTU 322	1.054	1.380	1.389	1.028	0.672	1.009	0.954	1.846	1.513	1.441
OTU 324	1.174	1.391	1.375	1.158	0.843	1.066	0.975	1.851	1.566	1.555
OTU 326	1.068	1.205	1.15[illegible]	1.158	0.780	0.985	0.762	1.998	1.352	1.375
OTU 327	1.191	1.484	1.320	1.000	1.025	1.001	1.166	1.725	1.433	1.327
OTU 330	1.188	1.223	1.280	1.276	0.737	1.199	0.874	1.988	1.495	1.525
OTU 332	1.150	1.411	1.486	1.405	0.643	1.139	0.928	2.030	1.503	1.554
OTU 333	1.129	1.379	1.262	1.195	0.902	1.058	0.912	1.983	1.437	1.450
OTU 336	1.299	1.737	1.553	1.454	1.105	1.353	1.024	2.240	1.699	1.664
OTU 337	1.284	1.618	1.530	1.465	0.957	1.156	1.030	2.1[illegible]	1.679	1.589
OTU 339	1.291	1.535	1.393	1.344	0.816	0.952	0.949	2.032	1.652	1.551
OTU 340	1.115	1.445	1.469	1.344	0.704	1.002	0.908	1.950	1.492	1.506
OTU 341	1.000	1.322	1.239	0.953	0.759	0.842	0.850	1.818	1.379	1.367
OTU 342	1.069	1.548	1.525	1.240	0.913	1.213	0.957	2.056	1.531	1.464
OTU 343	1.208	1.620	1.576	1.326	0.881	1.197	0.847	2.142	1.614	1.561
OTU 344	1.509	2.010	1.887	1.544	1.375	1.333	1.410	2.285	1.912	1.934
OTU 345	1.163	1.592	1.536	1.378	0.872	1.065	0.954	2.032	1.694	1.554



COMPUTE DISTANCE

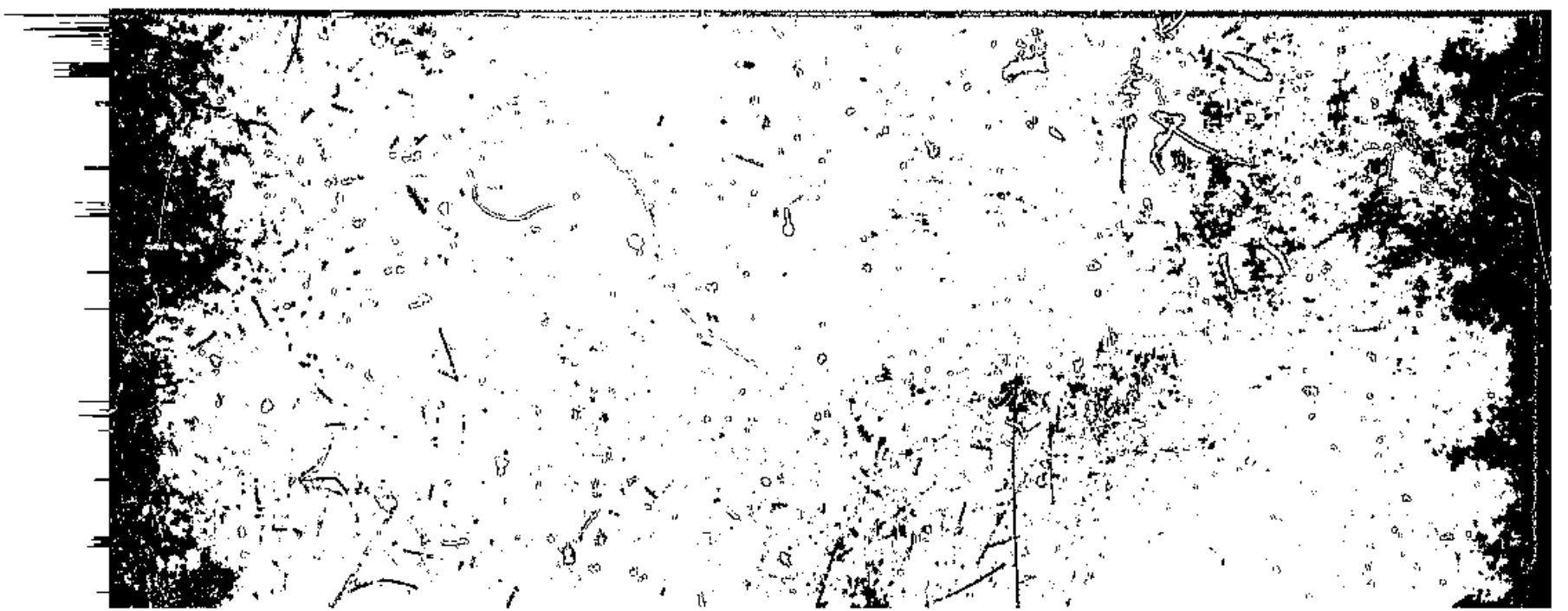
	OTU 231	OTU 234	OTU 235	OTU 236	OTU 239	OTU 241	OTU 243	OTU 244	OTU 247	OTU 251
OTU 231	0.000									
OTU 234	1.098	0.000								
OTU 235	0.943	1.109	0.000							
OTU 236	0.859	1.087	1.020	0.000						
OTU 239	1.037	1.041	0.930	1.070	0.000					
OTU 241	1.344	1.343	1.324	1.066	1.257	0.000				
OTU 243	0.770	1.118	0.933	0.995	0.995	1.297	0.000			
OTU 244	0.865	0.889	1.051	0.931	1.030	1.244	0.812	0.000		
OTU 247	1.123	1.283	1.079	0.960	1.081	1.232	0.761	1.048	0.000	
OTU 251	0.749	1.050	1.084	0.847	1.076	1.295	0.882	0.938	1.015	0.000
OTU 252	1.458	1.619	1.666	1.641	1.619	1.785	1.490	1.559	1.671	1.486
OTU 254	1.014	1.317	1.143	1.100	1.236	1.496	1.008	1.087	1.106	0.927
OTU 256	0.690	1.167	1.107	1.028	1.118	1.395	0 949	0.953	1.230	0.818
OTU 259	1.373	1.307	1.279	1.150	1.434	1.289	1.365	1.123	1.234	1.237
OTU 260	1.146	1.243	1.183	0.804	1.250	1.300	1.155	1.085	1.070	0.914
OTU 262	1.084	1.185	1.209	1.030	1.172	1.292	1.143	0.982	1.100	1.090
OTU 264	0.911	1.293	1.037	1.079	0.987	1.347	0.804	0.924	0.961	1.034
OTU 266	0.978	1.227	1.043	1.002	1.181	1.236	0.937	0.962	1.165	0.954
OTU 268	0.933	1.192	1.270	1.049	1.086	1.394	1.003	0.777	1.047	0.949
OTU 270	1.074	1.370	1.205	1.229	1.115	1.388	1.200	1.085	1.307	1.171
OTU 272	1.149	1.302	1.216	1.164	1.162	1.440	1.058	1.135	1.122	1.017
OTU 273	0.890	1.255	0.948	1.002	1.061	1.499	0.892	0.880	1.047	0.805
OTU 276	0.935	1.445	0.937	1.150	1.222	1.650	1.030	1.135	1.121	1.093
OTU 278	1.147	1.411	1.091	1.104	1.203	1.440	1.177	1.216	1.121	1.088
OTU 280	0.830	1.141	1.103	0.884	1.005	1.082	0.968	0.862	1.091	0.946
OTU 282	1.114	1.308	1.199	1.043	0.990	1.088	1.122	1.115	1.039	1.034
OTU 283	1.202	1.486	1.274	1.315	1.425	1.629	1.111	1.065	1.355	1.268
OTU 286	0.974	0.953	0.977	1.000	1.062	1.233	0.921	0.668	1.036	0.851
OTU 288	1.057	1.308	1.119	1.051	1.225	1.411	1.149	0.955	1.162	1.039
OTU 289	0.992	1.174	1.034	1.039	1.091	1.235	1.097	1.018	1.209	1.032
OTU 292	1.021	1.430	1.127	1.318	1.182	1.576	1.002	1.053	1.243	1.152
OTU 295	0.904	1.241	1.129	1.213	1.023	1.604	0.962	0.967	1.232	0.981
OTU 296	1.638	2.035	1.701	1.896	1.629	1.869	1.700	1.773	1.812	1.793
OTU 297	1.597	2.008	1.759	1.911	1.683	1.911	1.673	1.694	1.861	1.703
OTU 298	1.750	1.916	1.696	1.915	1.637	1.809	1.707	1.646	1.925	1.877
OTU 301	1.750	2.037	1.705	2.020	1.819	2.135	1.823	1.753	2.108	1.937
OTU 305	1.741	2.168	1.884	1.989	1.812	2.046	1.749	1.850	1.989	1.886
OTU 306	1.817	2.169	1.838	2.026	1.817	2.071	1.752	1.920	1.921	1.904
OTU 308	1.823	2.192	1.930	1.969	1.899	2.099	1.859	1.988	1.942	1.895
OTU 310	1.709	2.208	1.855	2.021	1.869	2.096	1.817	1.887	2.009	1.897
OTU 311	1.549	1.935	1.737	1.810	1.777	1.844	1.596	1.594	1.840	1.690
OTU 313	1.905	2.327	1.973	2.033	2.033	2.086	1.906	1.985	2.005	2.003
OTU 314	1.540	1.901	1.596	1.755	1.492	1.799	1.432	1.740	1.547	1.649
OTU 316	1.508	1.913	1.709	1.684	1.646	1.761	1.598	1.638	1.718	1.655
OTU 322	1.456	1.870	1.655	1.784	1.699	1.949	1.557	1.599	1.861	1.680
OTU 324	1.620	1.995	1.758	1.777	1.737	1.841	1.649	1.605	1.878	1.732
OTU 326	1.542	1.937	1.678	1.784	1.667	1.854	1.679	1.709	1.802	1.702
OTU 327	1.417	1.780	1.684	1.711	1.577	1.943	1.446	1.463	1.629	1.568
OTU 330	1.663	1.972	1.738	1.814	1.656	1.876	1.698	1.712	1.844	1.781
OTU 332	1.670	1.999	1.833	1.845	1.857	1.952	1.723	1.679	1.942	1.816

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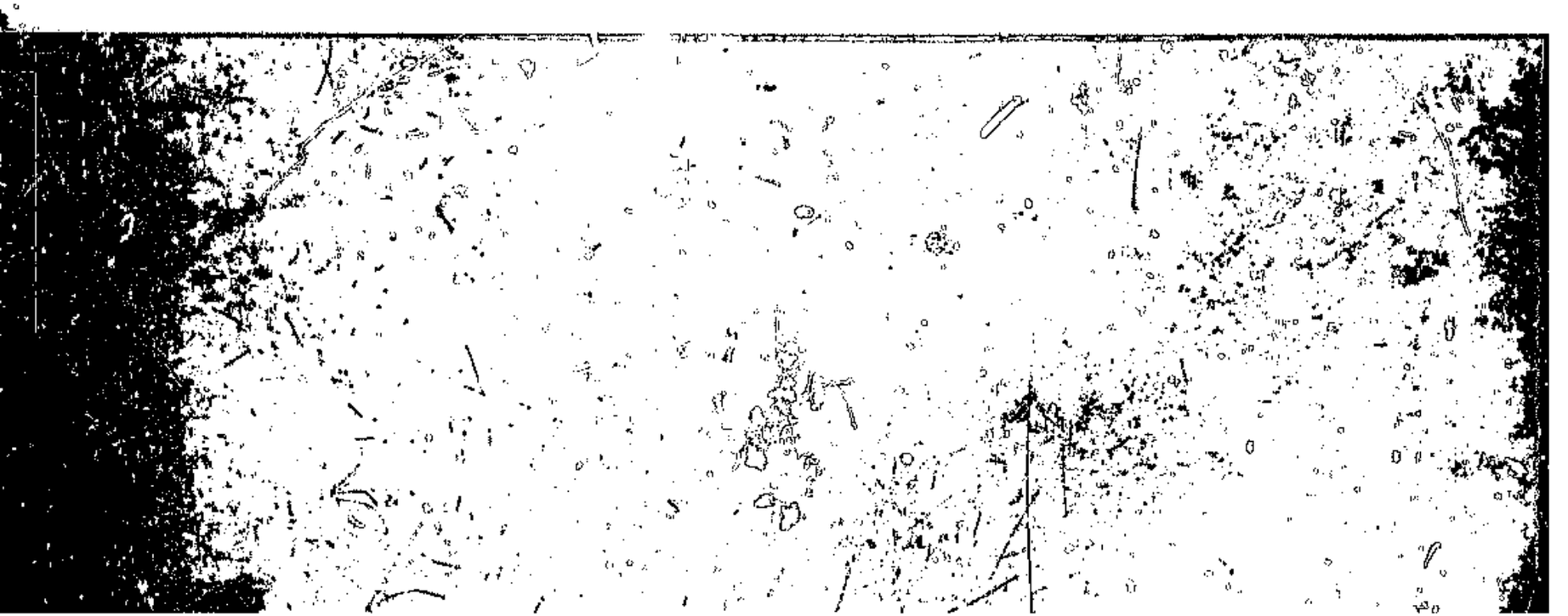
COMPUTE DISTANCE

	OTU 231	OTU 234	OTU 235	OTU 236	OTU 239	OTU 241	OTU 243	OTU 244	OTU 247	OTU 251
OTU 333	1.583	1.994	1.723	1.833	1.715	1.840	1.658	1.744	1.787	1.639
OTU 335	1.953	2.215	1.971	2.057	1.955	2.191	1.894	2.051	1.963	1.986
OTU 337	1.752	2.222	1.947	1.933	1.999	1.996	1.834	1.889	1.913	1.878
OTU 339	1.748	2.148	1.859	1.938	1.935	1.977	1.793	1.831	1.878	1.857
OTU 340	1.585	2.008	1.776	1.790	1.832	1.936	1.645	1.610	1.856	1.755
OTU 341	1.491	1.936	1.650	1.784	1.681	1.957	1.546	1.659	1.730	1.596
OTU 342	1.668	1.997	1.706	1.879	1.738	1.867	1.624	1.785	1.780	1.746
OTU 343	1.751	2.116	1.775	1.955	1.868	2.011	1.735	1.900	1.881	1.904
OTU 344	1.973	2.443	2.212	2.258	2.242	2.513	2.017	2.209	2.216	2.078
OTU 345	1.734	2.195	1.834	1.926	2.007	2.009	1.795	1.820	1.924	1.785



COMPUTE DISTANCE

	OTU 252	OTU 254	OTU 256	OTU 259	OTU 260	OTU 262	OTU 264	OTU 266	OTU 268	OTU 270
OTU 252	0.000									
OTU 254	1.614	0.000								
OTU 256	1.477	0.967	0.000							
OTU 259	1.691	1.314	1.457	0.000						
OTU 260	1.705	1.120	1.208	1.205	0.000					
OTU 262	1.575	1.19	1.199	0.900	1.126	0.000				
OTU 264	1.648	1.195	1.003	1.345	1.197	0.929	0.000			
OTU 266	1.545	0.862	0.992	1.084	1.120	1.082	1.016	0.000		
OTU 268	1.530	1.033	0.988	1.200	1.116	0.950	0.878	1.013	0.000	
OTU 270	1.621	1.401	1.050	1.337	1.204	1.171	1.049	1.124	0.957	0.000
OTU 272	1.656	0.939	1.280	1.314	1.198	0.932	1.181	1.013	1.068	1.328
OTU 273	1.618	1.080	0.934	1.268	0.994	0.959	0.744	1.036	0.960	0.979
OTU 276	1.679	1.179	1.008	1.435	1.224	1.297	1.049	1.081	1.160	1.178
OTU 278	1.536	1.238	1.179	1.276	1.336	1.180	1.287	1.190	1.061	1.156
OTU 280	1.541	0.936	1.020	1.006	1.053	0.808	1.050	0.907	0.859	1.089
OTU 282	1.574	1.189	1.189	1.148	1.116	0.890	1.092	1.066	1.034	1.080
OTU 283	1.919	1.519	1.253	1.677	1.382	1.605	1.258	1.298	1.283	1.229
OTU 286	1.506	1.000	0.944	1.028	1.150	0.837	1.049	0.975	0.863	1.118
OTU 288	1.503	0.917	1.109	1.039	0.931	1.020	1.127	0.860	0.939	1.129
OTU 289	1.487	1.157	1.071	1.102	1.221	0.948	1.028	1.077	1.120	1.247
OTU 292	1.599	1.013	1.012	1.476	1.226	1.140	0.908	1.024	1.086	1.072
OTU 295	1.503	0.920	0.774	1.520	1.241	1.173	0.923	1.013	0.962	1.143
OTU 296	1.970	1.736	1.558	1.901	1.809	1.580	1.433	1.665	1.628	1.316
OTU 297	1.989	1.781	1.562	1.931	1.719	1.553	1.397	1.612	1.582	1.308
OTU 298	2.092	1.742	1.722	1.847	1.794	1.522	1.432	1.559	1.691	1.482
OTU 301	2.101	1.854	1.688	1.942	1.962	1.647	1.501	1.667	1.684	1.557
OTU 305	2.194	1.824	1.711	2.153	1.876	1.770	1.464	1.659	1.672	1.559
OTU 306	2.202	1.717	1.737	2.080	1.886	1.744	1.489	1.603	1.731	1.647
OTU 308	2.131	1.792	1.729	1.938	1.969	1.668	1.561	1.706	1.697	1.632
OTU 310	2.074	1.894	1.689	2.029	1.750	1.634	1.449	1.605	1.675	1.475
OTU 311	1.921	1.631	1.506	1.766	1.720	1.426	1.377	1.450	1.513	1.449
OTU 313	2.229	1.915	1.868	2.002	1.881	1.675	1.609	1.749	1.764	1.573
OTU 314	2.022	1.704	1.504	2.005	1.724	1.593	1.201	1.617	1.575	1.421
OTU 316	1.852	1.596	1.358	1.738	1.687	1.409	1.288	1.491	1.410	1.289
OTU 322	2.078	1.667	1.390	1.986	1.761	1.551	1.268	1.547	1.567	1.412
OTU 324	2.131	1.703	1.562	1.925	1.718	1.600	1.358	1.531	1.575	1.404
OTU 326	1.916	1.569	1.485	1.793	1.722	1.408	1.349	1.532	1.481	1.388
OTU 327	1.883	1.487	1.410	1.716	1.702	1.421	1.285	1.563	1.344	1.378
OTU 330	2.029	1.714	1.630	1.774	1.755	1.379	1.351	1.550	1.546	1.441
OTU 332	2.106	1.620	1.630	1.812	1.753	1.464	1.477	1.515	1.513	1.567
OTU 333	1.993	1.594	1.538	1.795	1.680	1.499	1.404	1.492	1.549	1.386
OTU 336	2.280	1.815	1.874	2.033	2.005	1.693	1.607	1.701	1.782	1.804
OTU 337	2.223	1.742	1.702	1.913	1.814	1.575	1.549	1.668	1.643	1.607
OTU 339	2.169	1.742	1.689	1.942	1.739	1.620	1.525	1.696	1.647	1.496
OTU 340	2.039	1.601	1.578	1.812	1.716	1.489	1.419	1.515	1.499	1.491
OTU 341	1.997	1.556	1.444	1.856	1.700	1.453	1.319	1.517	1.441	1.375
OTU 342	2.064	1.611	1.669	1.857	1.703	1.552	1.441	1.498	1.625	1.545
OTU 343	2.158	1.741	1.760	1.925	1.652	1.577	1.473	1.585	1.735	1.611
OTU 344	2.428	2.009	1.938	2.411	2.115	1.940	1.846	1.963	1.944	1.924
OTU 345	2.154	1.746	1.669	1.838	1.769	1.603	1.456	1.548	1.675	1.570



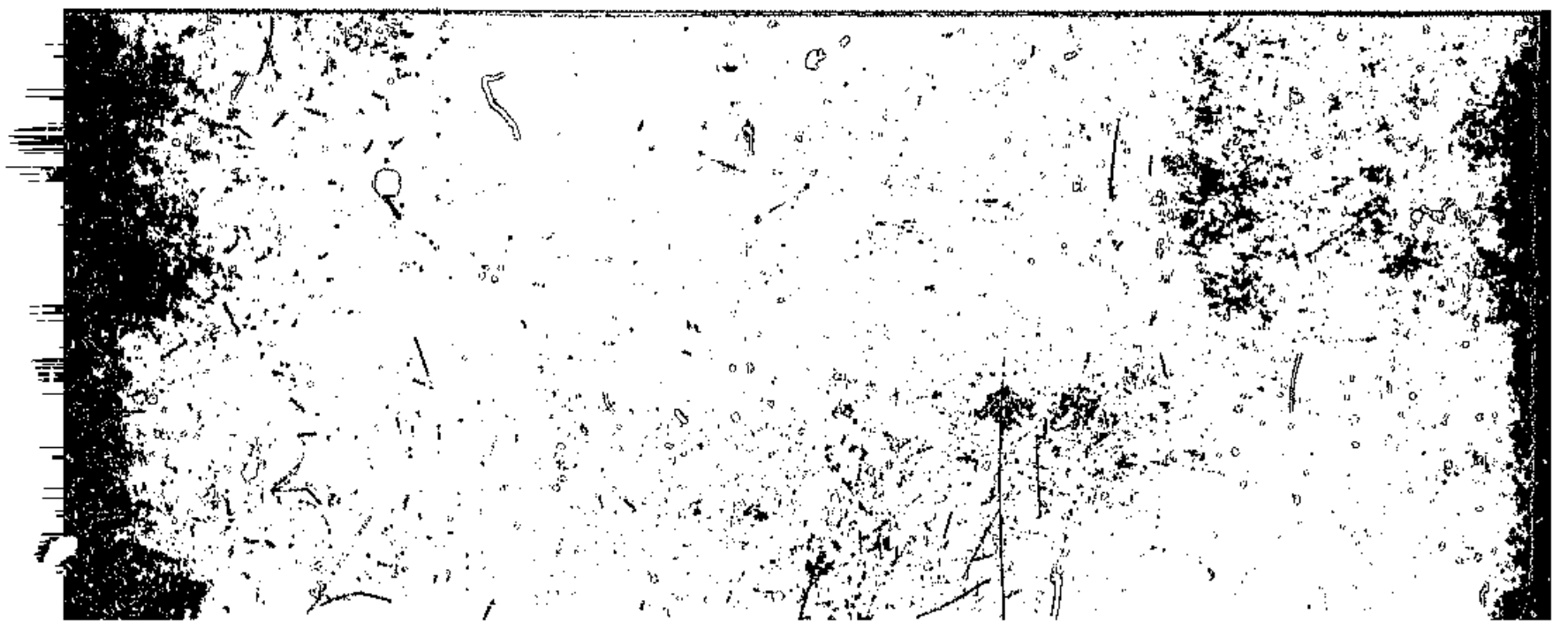
COMPUTE DISTANCE

	OTU 272	OTU 273	OTU 276	OTU 278	OTU 280	OTU 282	OTU 283	OTU 286	OTU 288	OTU 289
OTU 272	0.000									
OTU 273	1.119	0.000								
OTU 276	1.390	0.903	0.000							
OTU 278	1.162	1.072	1.101	0.000						
OTU 280	0.848	1.044	1.247	1.074	0.000					
OTU 282	0.965	1.053	1.245	0.980	0.807	0.000				
OTU 283	1.632	1.238	1.252	1.588	1.441	1.604	0.000			
OTU 286	0.982	0.911	1.171	0.923	0.860	0.998	1.317	0.000		
OTU 288	1.095	0.925	0.964	1.108	0.972	1.069	1.403	1.004	0.000	
OTU 289	1.162	0.949	1.265	0.968	0.803	0.886	1.623	0.975	1.059	0.000
OTU 292	1.005	0.956	1.087	1.283	0.957	1.210	1.311	1.070	1.022	1.156
OTU 295	1.077	0.948	1.018	1.196	0.986	1.254	1.291	0.954	0.983	1.128
OTU 296	1.653	1.495	1.633	1.628	1.464	1.459	1.960	1.700	1.725	1.545
OTU 297	1.647	1.484	1.610	1.721	1.499	1.528	1.783	1.675	1.657	1.636
OTU 298	1.597	1.626	1.885	1.942	1.486	1.661	1.889	1.651	1.729	1.696
OTU 301	1.821	1.591	1.830	1.925	1.624	1.913	1.997	1.766	1.790	1.668
OTU 305	1.721	1.594	1.783	1.936	1.632	1.809	1.856	1.921	1.810	1.796
OTU 306	1.646	1.626	1.725	1.844	1.641	1.759	2.035	1.905	1.768	1.767
OTU 308	1.781	1.652	1.843	1.839	1.665	1.776	2.196	1.915	1.876	1.731
OTU 310	1.807	1.547	1.700	1.763	1.657	1.724	1.997	1.857	1.774	1.658
OTU 311	1.551	1.471	1.641	1.629	1.342	1.558	1.896	1.598	1.545	1.367
OTU 313	1.802	1.634	1.818	1.818	1.705	1.669	2.080	1.930	1.790	1.755
OTU 314	1.573	1.411	1.533	1.647	1.542	1.502	1.757	1.730	1.799	1.611
OTU 316	1.634	1.426	1.580	1.625	1.379	1.495	1.793	1.599	1.609	1.511
OTU 322	1.678	1.410	1.650	1.868	1.492	1.752	1.589	1.645	1.739	1.624
OTU 324	1.696	1.469	1.777	1.853	1.469	1.667	1.612	1.650	1.705	1.615
OTU 326	1.542	1.502	1.636	1.691	1.364	1.547	1.939	1.633	1.597	1.516
OTU 327	1.534	1.344	1.607	1.687	1.298	1.604	1.739	1.485	1.626	1.535
OTU 330	1.578	1.558	1.760	1.814	1.437	1.573	1.929	1.650	1.685	1.594
OTU 332	1.571	1.638	1.935	1.862	1.414	1.653	1.994	1.653	1.668	1.612
OTU 333	1.560	1.454	1.604	1.621	1.405	1.470	1.932	1.691	1.591	1.526
OTU 336	1.773	1.697	1.898	1.925	1.760	1.851	2.263	1.990	1.912	1.790
OTU 337	1.708	1.624	1.729	1.816	1.560	1.649	2.086	1.837	1.701	1.717
OTU 339	1.734	1.609	1.740	1.802	1.563	1.668	1.982	1.773	1.750	1.733
OTU 340	1.499	1.542	1.774	1.803	1.401	1.691	1.881	1.633	1.665	1.646
OTU 341	1.498	1.405	1.568	1.625	1.413	1.615	1.785	1.502	1.657	1.588
OTU 342	1.528	1.490	1.640	1.720	1.459	1.543	1.962	1.760	1.624	1.564
OTU 343	1.635	1.585	1.718	1.855	1.572	1.715	2.075	1.855	1.759	1.702
OTU 344	1.850	1.788	1.946	2.077	1.971	2.077	2.298	2.153	2.045	2.106
OTU 345	1.773	1.518	1.697	1.797	1.615	1.761	1.915	1.781	1.673	1.657



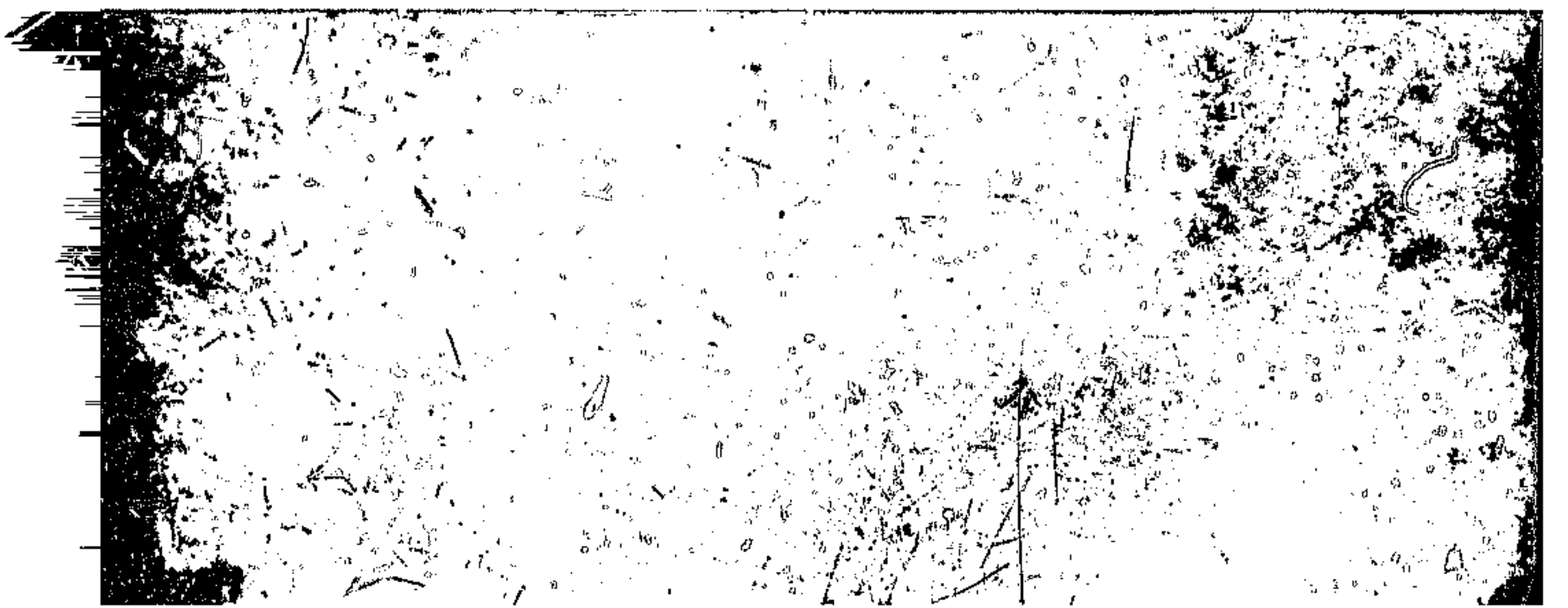
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	OTU 292	OTU 295	OTU 296	OTU 297	OTU 298	OTU 301	OTU 305	OTU 306	OTU 308	OTU 310
OTU 292	0.000									
OTU 295	0.649	0.000								
OTU 296	1.163	1.465	0.000							
OTU 297	1.098	1.407	0.725	0.000						
OTU 298	1.205	1.481	1.139	1.004	0.000					
OTU 301	1.305	1.464	1.180	1.105	0.889	0.000				
OTU 305	1.306	1.482	1.111	0.954	1.121	1.001	0.000			
OTU 306	1.308	1.463	1.105	1.116	1.184	1.103	0.620	0.000		
OTU 308	1.557	1.678	1.122	1.351	1.430	1.134	1.130	1.080	0.000	
OTU 310	1.354	1.559	0.926	0.809	1.201	0.900	0.857	0.990	0.940	0.000
OTU 311	1.197	1.355	1.155	1.004	1.122	0.949	0.955	1.010	1.178	0.856
OTU 313	1.467	1.746	0.974	1.058	1.366	1.287	1.066	1.105	1.022	0.822
OTU 315	1.296	1.427	0.966	1.085	1.397	1.444	0.974	0.973	1.128	1.108
OTU 316	1.321	1.350	0.977	1.127	1.252	1.129	0.982	1.026	0.847	0.942
OTU 322	1.144	1.291	1.144	0.974	1.087	0.958	0.847	1.140	1.238	0.928
OTU 324	1.195	1.377	1.072	0.962	0.955	1.015	0.905	1.183	1.320	1.058
OTU 326	1.128	1.327	0.773	0.908	1.011	0.900	0.959	0.960	0.806	0.802
OTU 327	1.178	1.232	1.083	1.175	1.246	1.139	1.228	1.322	1.114	1.237
OTU 330	1.209	1.432	0.948	0.924	0.797	0.833	1.065	1.143	0.969	0.903
OTU 332	1.258	1.481	1.211	1.172	1.019	0.954	1.170	1.197	1.175	1.102
OTU 333	1.201	1.446	0.760	0.792	1.124	1.102	0.937	0.887	0.826	0.729
OTU 336	1.624	1.740	1.617	1.479	1.467	1.213	1.091	0.928	0.757	1.050
OTU 337	1.428	1.593	1.084	1.141	1.348	1.264	1.037	0.985	1.010	0.958
OTU 339	1.272	1.561	0.818	0.846	1.132	1.134	1.037	1.045	1.062	0.871
OTU 340	1.166	1.410	1.166	1.12.	0.934	0.902	1.079	1.116	1.162	1.089
OTU 341	1.107	1.294	0.921	0.864	1.095	0.913	0.861	0.899	0.827	0.777
OTU 342	1.260	1.515	0.984	0.949	1.169	1.170	0.761	0.699	1.025	0.954
OTU 343	1.359	1.604	1.060	1.066	1.136	1.054	0.834	0.766	0.847	0.802
OTU 344	1.653	1.775	1.500	1.427	1.695	1.469	1.109	1.124	1.210	1.170
OTU 345	1.383	1.566	1.260	1.106	1.288	1.070	0.989	0.987	1.101	0.829



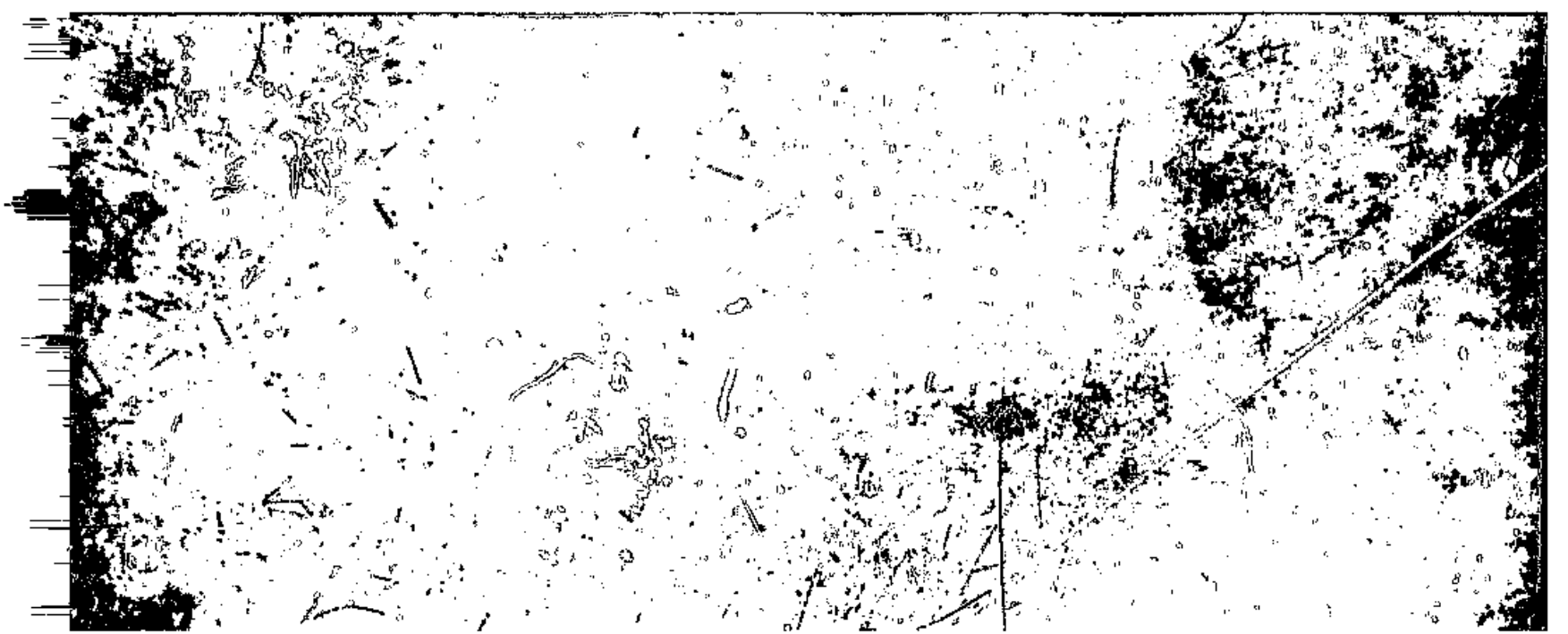
COMPUTE DISTANCE

	OTU 311	OTU 313	OTU 314	OTU 316	OTU 322	OTU 324	OTU 326	OTU 327	OTU 330	OTU 332
OTU 311	0.000									
OTU 313	1.086	0.000								
OTU 314	1.295	1.221	0.000							
OTU 316	0.978	1.010	0.966	0.000						
OTU 322	1.023	1.245	1.092	0.943	0.000					
OTU 324	1.045	1.093	1.270	1.021	0.770	0.000				
OTU 326	0.904	0.960	1.057	0.897	0.917	0.971	0.000			
OTU 327	1.179	1.412	1.204	0.963	1.019	1.067	0.955	0.000		
OTU 330	1.010	0.991	1.211	0.931	0.990	0.887	0.592	1.069	0.000	
OTU 332	0.948	1.057	1.463	1.035	1.074	0.956	0.783	1.188	0.686	0.000
OTU 333	0.900	0.798	0.985	0.884	1.066	1.082	0.671	1.094	0.890	1.052
OTU 336	1.155	1.225	1.234	1.143	1.306	1.454	1.081	1.413	1.184	1.316
OTU 337	0.963	0.776	1.217	0.791	1.154	1.133	0.798	1.234	0.998	0.914
OTU 339	1.015	0.734	1.142	0.924	1.012	0.952	0.708	1.133	0.883	0.851
OTU 340	0.976	1.181	1.371	1.024	1.054	0.975	0.818	1.068	0.825	0.666
OTU 341	0.882	1.002	0.950	0.852	0.812	0.981	0.613	0.890	0.772	0.930
OTU 342	0.883	0.969	0.932	1.021	1.099	1.170	0.895	1.213	1.070	1.184
OTU 343	0.895	0.946	0.996	0.954	1.004	1.196	0.806	1.162	0.962	1.096
OTU 344	1.306	1.201	1.368	1.349	1.354	1.532	1.288	1.498	1.417	1.402
OTU 345	0.878	0.998	1.333	0.957	1.033	1.065	0.959	1.324	1.101	1.065



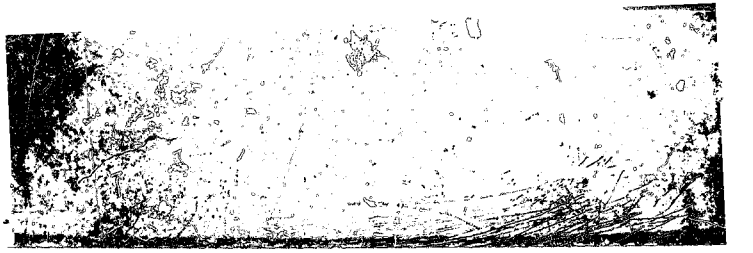
COMPUTE DISTANCE

	OTU 333	OTU 336	OTU 337	OTU 339	OTU 340	OTU 341	OTU 342	OTU 343	OTU 344	OTU 345
OTU 333	0.000									
OTU 336	1.060	0.000								
OTU 337	0.810	1.178	0.000							
OTU 339	0.692	1.268	0.726	0.000						
OTU 340	0.999	1.328	0.950	0.881	0.000					
OTU 341	0.667	1.005	0.929	0.739	0.817	0.000				
OTU 342	0.695	0.946	0.947	0.951	1.088	0.859	0.000			
OTU 343	0.765	0.785	0.887	0.893	1.007	0.796	0.555	0.000		
OTU 344	1.145	1.191	1.067	1.281	1.334	1.045	1.160	1.092	0.000	
OTU 345	0.889	1.094	0.821	0.886	0.965	0.918	1.011	0.928	1.265	0.000



APPENDIX IIB

Matrix of Correlation Values for
150 Female OTUs



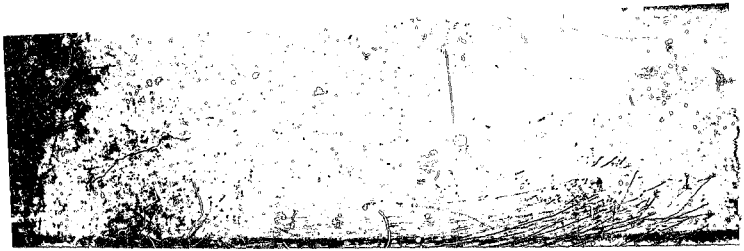
IDENTIFICATION:

COMPUTE CORRELATIONS

	OTU 039	OTU 042	OTU 043	OTU 045	OTU 047	OTU 049	OTU 050	OTU 053	OTU 056	OTU 057
OTU 039	1.000									
OTU 042	-0.396	1.000								
OTU 043	0.132	0.089	1.000							
OTU 045	-0.128	0.118	0.160	1.000						
OTU 047	-0.084	0.083	0.066	0.506	1.000					
OTU 049	0.051	-0.255	-0.189	0.175	0.191	1.000				
OTU 050	-0.341	0.323	-0.137	0.261	0.113	0.098	1.000			
OTU 053	0.067	-0.084	-0.619	0.402	0.350	0.491	-0.092	1.000		
OTU 056	-0.168	0.288	-0.228	0.361	0.336	0.223	0.157	0.336	1.000	
OTU 057	-0.355	0.327	-0.035	0.200	0.200	-0.010	0.202	0.177	0.248	1.000
OTU 059	-0.300	0.253	-0.334	0.304	0.136	0.113	0.061	0.121	0.423	0.515
OTU 060	-0.217	0.011	-0.072	0.194	0.021	-0.061	0.147	0.084	0.070	0.430
OTU 061	-0.122	-0.213	-0.171	-0.079	0.003	0.094	0.013	0.125	-0.121	0.253
OTU 064	0.153	-0.001	0.133	0.186	0.158	0.084	-0.019	-0.006	0.428	-0.064
OTU 066	-0.290	0.226	-0.030	0.519	0.352	-0.006	0.462	0.166	0.173	0.262
OTU 068	-0.044	-0.062	0.134	0.189	0.270	0.361	0.284	0.382	0.199	-0.235
OTU 070	0.169	-0.261	0.415	0.139	-0.307	0.143	0.057	0.213	-0.054	0.197
OTU 071	-0.095	-0.198	-0.032	0.286	0.084	-0.022	-0.044	0.262	0.295	0.345
OTU 076	0.317	-0.065	0.182	0.039	0.144	-0.165	0.181	0.038	0.348	0.268
OTU 077	0.112	-0.220	0.206	-0.312	0.077	-0.289	-0.126	-0.222	-0.617	-0.211
OTU 078	-0.014	0.021	0.089	0.013	0.376	0.197	0.071	-0.040	-0.243	0.181
OTU 080	0.296	0.072	0.316	0.185	0.102	-0.258	-0.126	0.168	0.601	0.299
OTU 083	0.008	0.008	-0.092	0.362	0.136	-0.189	0.180	0.321	0.291	0.164
OTU 085	-0.112	0.109	0.143	-0.110	0.003	-0.153	-0.018	-0.088	0.155	-0.302
OTU 086	-0.386	-0.065	0.208	-0.037	0.196	0.103	0.024	0.055	-0.036	0.355
OTU 088	0.329	-0.254	0.189	-0.328	-0.069	0.210	-0.128	-0.081	0.500	-0.117
OTU 090	0.506	-0.173	0.138	-0.572	-0.128	-0.182	-0.421	-0.292	-0.190	-0.295
OTU 092	0.466	-0.212	0.543	0.286	0.299	0.023	-0.260	0.152	-0.267	-0.233
OTU 093	-0.332	0.098	-0.183	0.373	0.036	-0.377	0.127	0.010	-0.001	0.323
OTU 094	0.539	-0.273	0.294	-0.068	0.065	-0.108	-0.107	-0.057	-0.410	-0.314
OTU 097	0.668	-0.225	0.376	-0.318	-0.039	-0.194	-0.253	-0.436	-0.189	-0.283
OTU 098	-0.170	0.014	0.239	0.355	0.247	0.156	-0.007	0.166	0.636	0.198
OTU 102	0.562	-0.218	0.324	0.116	0.102	-0.110	-0.121	-0.026	-0.213	-0.521
OTU 104	-0.040	-0.103	-0.093	0.248	0.251	0.108	0.080	0.383	0.105	0.252
OTU 106	-0.269	-0.039	-0.340	0.191	0.402	0.010	0.219	0.186	-0.083	0.129
OTU 108	0.080	-0.255	0.136	0.051	-0.106	0.093	0.092	0.176	-0.268	0.173
OTU 110	-0.237	0.215	-0.283	0.264	0.230	0.179	0.187	0.197	0.355	-0.052
OTU 112	-0.096	0.159	-0.354	0.295	0.155	-0.115	-0.037	0.075	0.177	0.028
OTU 114	-0.482	0.310	-0.136	0.366	0.220	0.112	0.265	0.170	0.122	0.197
OTU 115	-0.217	0.308	0.213	-0.147	0.007	0.217	0.238	0.161	0.039	0.122
OTU 116	0.208	-0.215	0.126	-0.107	-0.007	-0.247	-0.152	-0.073	-0.161	-0.118
OTU 119	0.530	-0.066	0.276	-0.298	-0.066	-0.374	-0.251	-0.166	-0.231	-0.401
OTU 122	0.620	-0.517	0.560	-0.084	-0.119	-0.027	-0.275	-0.109	-0.376	-0.411
OTU 125	0.583	-0.321	0.307	-0.196	0.079	-0.199	-0.174	-0.096	-0.484	-0.306
OTU 127	0.295	-0.096	0.035	0.068	-0.063	-0.314	-0.196	-0.132	-0.031	-0.114
OTU 129	-0.163	0.109	-0.449	0.373	0.494	-0.102	-0.152	0.105	0.465	0.220
OTU 130	-0.199	0.183	-0.298	0.164	0.314	0.025	-0.076	0.253	0.369	0.427
OTU 132	0.191	0.216	0.000	0.056	0.136	-0.441	-0.007	-0.307	0.014	-0.039
OTU 135	-0.409	0.015	-0.357	0.655	0.478	0.028	0.303	0.176	0.277	0.430
OTU 136	-0.266	0.228	-0.338	0.001	0.168	0.012	0.189	0.191	0.183	-0.027

PLEASE TURN THE PAGE





CONTINUATION OF

COMPUTE CORRELATIONS

	OTU 039	OTU 042	OTU 043	OTU 045	OTU 047	OTU 049	OTU 050	OTU 053	OTU 054	OTU 057
OTU 138	-0.350	0.150	-0.170	0.019	0.085	0.330	0.186	0.022	+0.001	0.052
OTU 140	-0.296	0.171	-0.019	0.138	0.106	0.027	-0.039	0.115	0.130	0.070
OTU 143	-0.135	0.052	-0.155	-0.026	-0.194	0.078	+0.204	0.168	-0.017	0.212
OTU 145	-0.479	0.405	-0.561	-0.022	-0.096	0.115	0.285	-0.004	0.361	0.340
OTU 147	-0.134	0.245	0.226	-0.194	-0.330	-0.225	-0.011	-0.122	-0.081	-0.041
OTU 149	-0.033	0.239	-0.081	-0.078	-0.120	-0.316	0.155	-0.200	-0.102	-0.064
OTU 151	-0.359	0.067	-0.250	0.063	-0.070	0.029	0.070	-0.104	0.021	0.297
OTU 152	0.624	-0.068	-0.036	-0.167	-0.286	0.055	0.201	0.035	-0.390	-0.076
OTU 153	0.382	-0.189	0.486	-0.156	-0.652	-0.128	-0.129	-0.122	-0.182	-0.160
OTU 155	-0.161	0.845	0.220	0.206	0.001	0.155	0.262	0.179	-0.238	0.125
OTU 158	0.130	-0.104	0.061	-0.575	-0.182	0.067	+0.341	+0.113	-0.234	-0.436
OTU 159	-0.086	-0.165	0.122	0.286	-0.107	0.396	0.129	0.463	-0.097	0.210
OTU 162	-0.506	0.436	0.166	0.077	-0.113	-0.119	0.000	-0.077	-0.016	0.091
OTU 165	-0.617	-0.089	0.063	-0.880	-0.513	-0.228	+0.205	-0.129	-0.349	0.049
OTU 166	-0.116	0.015	-0.222	-0.100	0.176	0.260	0.137	0.135	-0.193	-0.020
OTU 167	-0.354	-0.049	0.044	-0.702	-0.115	0.344	0.154	0.020	-0.299	0.164
OTU 171	-0.260	0.191	-0.233	0.220	-0.287	+0.004	0.068	0.111	0.332	0.065
OTU 177	0.139	0.013	-0.030	0.237	0.001	0.211	-0.197	0.191	0.190	0.064
OTU 181	0.252	-0.299	0.032	0.080	-0.084	-0.010	-0.035	0.003	-0.273	0.259
OTU 184	0.094	-0.052	0.097	0.068	-0.157	0.193	-0.261	0.123	0.132	-0.057
OTU 186	-0.013	-0.368	0.134	-0.071	0.102	0.359	-0.253	0.168	-0.149	0.041
OTU 187	-0.137	0.300	+0.118	0.203	0.157	0.095	-0.267	0.043	0.175	-0.176
OTU 189	-0.067	-0.161	0.070	0.166	-0.193	0.091	0.066	-0.007	-0.351	0.152
OTU 192	-0.201	0.314	0.077	0.186	0.161	+0.437	0.009	+0.076	0.010	0.312
OTU 194	-0.067	0.122	-0.394	-0.171	0.005	-0.519	-0.026	-0.159	-0.026	0.234
OTU 196	-0.409	0.250	0.118	0.178	0.001	-0.103	0.049	-0.092	-0.012	0.082
OTU 197	0.230	-0.023	0.042	0.496	0.393	-0.049	-0.122	0.083	0.040	0.317
OTU 199	0.001	0.266	-0.061	0.285	0.034	+0.010	-0.100	0.083	-0.502	0.111
OTU 200	-0.352	0.397	-0.186	-0.265	0.001	-0.381	-0.072	-0.085	0.062	0.149
OTU 202	0.032	-0.309	0.052	0.241	0.336	0.333	0.202	0.446	0.033	0.183
OTU 206	0.195	-0.227	-0.178	-0.151	-0.251	-0.008	-0.190	-0.128	-0.015	-0.153
OTU 208	-0.033	0.072	-0.415	0.008	0.127	-0.099	+0.046	0.064	0.592	0.034
OTU 210	-0.190	0.288	-0.058	0.666	0.116	0.490	0.125	0.108	0.189	0.053
OTU 212	-0.167	0.110	+0.348	-0.112	0.169	0.101	0.181	-0.244	0.117	-0.168
OTU 213	0.248	-0.255	0.276	-0.137	-0.885	0.044	-0.263	-0.142	-0.082	-0.769
OTU 216	0.576	+0.171	0.975	-0.023	0.180	0.233	-0.191	0.409	-0.293	+0.204
OTU 218	0.427	-0.224	0.345	-0.192	0.176	0.107	-0.269	0.111	0.183	0.905
OTU 220	-0.292	0.216	-0.293	-0.072	0.037	0.269	0.104	0.056	0.113	0.250
OTU 227	-0.342	0.110	-0.153	0.051	-0.201	0.119	-0.004	-0.088	0.151	0.191
OTU 229	-0.235	-0.102	-0.209	-0.081	0.072	0.102	0.020	-0.038	-0.061	0.093
OTU 231	-0.295	-0.074	-0.500	-0.088	0.104	-0.091	0.090	-0.053	-0.197	0.091
OTU 234	-0.303	-0.157	-0.440	0.110	0.094	0.194	-0.057	0.150	0.185	0.228
OTU 235	-0.100	-0.027	-0.366	-0.112	0.090	0.121	+0.318	+0.002	0.155	0.100
OTU 236	-0.299	-0.051	-0.324	0.179	0.152	0.001	0.129	0.077	-0.093	0.239
OTU 239	-0.287	0.262	-0.592	0.069	0.099	0.092	0.016	0.042	0.114	-0.056
OTU 241	-0.200	0.157	-0.269	0.345	0.057	-0.190	0.062	0.003	0.279	0.243
OTU 243	-0.178	-0.016	-0.429	-0.295	0.046	0.194	-0.154	0.007	-0.132	0.136
OTU 244	-0.336	-0.139	-0.472	-0.078	-0.107	0.157	-0.043	0.223	-0.068	0.126
OTU 247	-0.290	0.228	-0.241	-0.139	0.170	0.142	-0.057	-0.049	-0.014	0.248
OTU 251	-0.369	0.092	-0.342	0.159	0.403	0.111	0.283	-0.017	0.055	0.365

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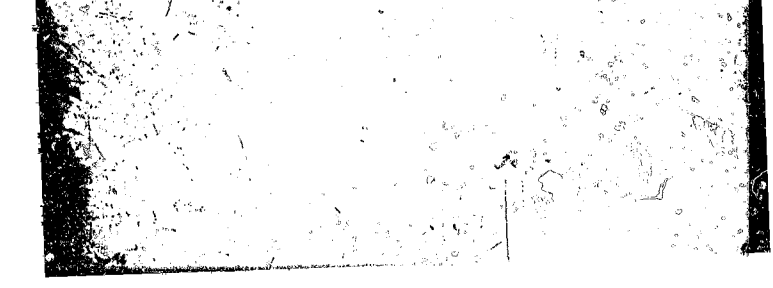


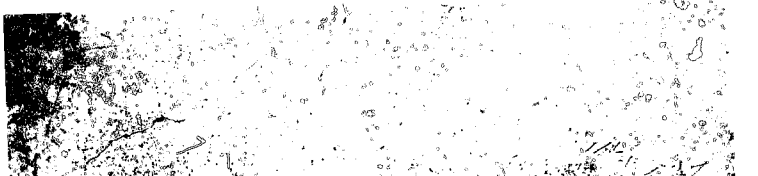
CONTINUATION OF

COMPUTE CORRELATIONS

PAGE 3

	OTU 039	OTU 042	OTU 043	OTU 045	OTU 052	OTU 049	OTU 050	OTU 053	OTU 054	OTU 057
OTU 252	-0.258	0.018	-0.123	-0.022	0.011	0.061	0.025	0.081	-0.195	0.166
OTU 254	-0.285	-0.226	-0.096	-0.028	0.160	0.398	0.176	-0.082	-0.206	0.059
OTU 256	-0.419	0.043	-0.339	0.161	0.103	-0.059	0.189	0.043	-0.119	0.039
OTU 259	-0.160	-0.184	-0.018	0.193	0.097	0.255	0.040	0.288	0.006	-0.082
OTU 260	-0.236	0.125	0.062	0.083	0.299	0.258	0.117	-0.020	0.006	-0.284
OTU 268	-0.034	-0.269	-0.289	0.089	0.089	0.012	0.072	-0.095	0.108	-0.117
OTU 264	0.060	0.088	-0.355	-0.287	-0.060	-0.098	-0.133	-0.151	-0.076	-0.107
OTU 266	-0.298	-0.573	-0.340	-0.119	-0.122	0.184	0.092	0.075	-0.168	0.218
OTU 268	-0.048	0.094	-0.118	-0.005	-0.131	0.260	0.184	0.176	-0.060	0.047
OTU 270	-0.277	0.531	-0.225	-0.055	-0.071	0.000	0.210	0.092	0.239	0.259
OTU 272	-0.359	-0.210	-0.129	-0.173	-0.133	0.320	0.095	-0.178	0.119	-0.187
OTU 273	-0.177	0.118	-0.335	-0.272	0.076	0.126	0.080	0.117	-0.083	-0.008
OTU 276	-0.425	0.223	-0.338	-0.337	-0.090	-0.151	-0.004	-0.180	-0.104	0.238
OTU 278	-0.576	0.348	-0.063	-0.041	0.020	-0.062	-0.038	-0.158	0.103	0.047
OTU 280	-0.365	-0.145	-0.106	0.083	0.065	0.187	0.185	0.078	0.057	-0.267
OTU 282	-0.518	0.282	-0.252	0.206	0.203	-0.186	0.108	-0.069	0.336	-0.015
OTU 283	-0.146	0.163	-0.823	-0.167	0.062	0.185	0.036	0.462	0.216	0.391
OTU 286	-0.328	-0.053	-0.334	0.094	0.066	0.323	0.069	0.101	0.286	0.298
OTU 288	-0.408	-0.042	-0.114	-0.263	-0.268	0.173	0.169	-0.315	-0.207	0.043
OTU 290	-0.306	0.227	-0.242	0.153	0.223	-0.029	0.199	-0.004	0.018	0.151
OTU 292	-0.135	-0.087	-0.246	-0.378	-0.075	0.395	0.114	-0.082	0.149	-0.030
OTU 294	-0.378	-0.092	-0.385	-0.026	-0.161	-0.040	0.098	-0.117	-0.061	0.151
OTU 296	0.057	0.343	0.003	0.019	0.034	-0.165	0.095	0.184	0.239	0.261
OTU 297	0.137	0.263	-0.103	-0.216	-0.078	-0.165	0.115	-0.154	0.331	-0.121
OTU 298	0.590	0.159	0.011	-0.110	-0.220	0.119	0.153	0.091	0.271	0.306
OTU 301	0.575	-0.378	0.123	-0.207	-0.339	0.096	-0.229	-0.084	-0.084	-0.465
OTU 303	0.279	0.097	0.170	-0.151	-0.381	-0.576	-0.057	-0.287	-0.099	-0.370
OTU 306	0.205	-0.022	0.335	-0.098	-0.353	-0.257	-0.179	-0.391	-0.201	-0.343
OTU 308	0.044	-0.029	0.287	-0.031	-0.196	-0.205	-0.017	-0.239	-0.333	-0.334
OTU 310	0.278	0.061	0.091	-0.112	-0.306	-0.382	-0.092	-0.317	-0.099	-0.287
OTU 311	0.166	-0.218	0.266	-0.251	-0.280	-0.221	-0.156	-0.339	-0.157	-0.5
OTU 313	0.179	0.129	0.333	-0.213	-0.184	-0.223	-0.134	-0.180	-0.040	-0.6
OTU 314	0.087	0.376	0.161	-0.391	-0.117	-0.410	-0.124	-0.260	0.048	-0.10
OTU 316	0.233	0.196	0.130	-0.007	-0.275	-0.434	-0.020	-0.027	-0.227	-0.193
OTU 317	0.522	-0.094	0.188	-0.232	-0.156	-0.171	0.124	0.037	-0.032	-0.201
OTU 324	0.393	-0.090	0.000	-0.017	-0.057	0.088	-0.051	0.191	0.216	-0.193
OTU 326	0.298	-0.100	0.294	-0.052	-0.218	-0.161	0.098	-0.219	-0.013	-0.343
OTU 327	0.256	-0.082	-0.076	-0.148	-0.118	0.170	0.061	0.003	-0.207	-0.484
OTU 330	0.474	-0.188	0.079	0.009	-0.152	0.006	-0.117	0.018	0.105	-0.398
OTU 332	0.423	-0.440	0.361	-0.088	-0.063	0.143	-0.248	-0.003	-0.099	-0.426
OTU 333	0.125	0.133	0.221	-0.135	-0.094	-0.289	0.058	-0.377	-0.081	-0.220
OTU 336	0.260	-0.168	0.369	-0.189	-0.158	-0.169	-0.151	-0.265	-0.313	-0.290
OTU 337	0.190	-0.039	0.437	-0.189	-0.280	-0.350	-0.078	-0.295	-0.279	-0.296
OTU 339	0.308	0.089	0.423	-0.092	-0.120	-0.099	-0.108	-0.213	0.008	-0.161
OTU 340	0.572	-0.365	0.358	-0.114	-0.257	0.164	-0.102	0.012	-0.177	-0.327
OTU 341	0.307	-0.027	0.247	-0.602	-0.102	-0.092	-0.033	-0.271	-0.027	-0.241
OTU 342	0.166	0.006	0.258	-0.376	-0.168	-0.363	-0.133	-0.385	-0.131	-0.387
OTU 343	0.378	-0.118	0.519	-0.418	-0.246	-0.289	-0.203	-0.486	-0.264	-0.408
OTU 344	0.103	-0.060	0.295	-0.425	-0.268	-0.268	-0.056	-0.425	-0.361	-0.203
OTU 345	0.366	-0.176	0.453	-0.186	-0.150	-0.232	-0.128	-0.184	-0.221	-0.117





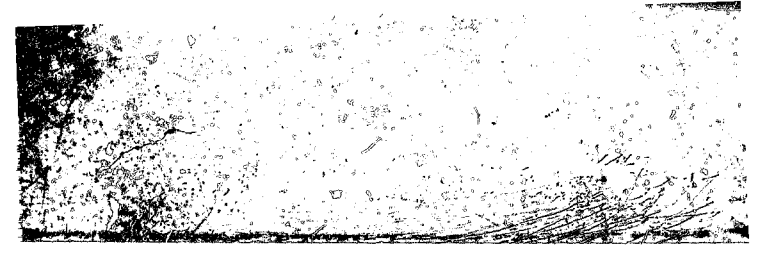
IDENTIFICATION:

COMPUTE CORRELATIONS

	OTU 059	OTU 060	OTU 061	OTU 064	OTU 066	OTU 068	OTU 071	OTU 071	OTU 075	OTU 077
OTU 059	1.000									
OTU 060	0.519	1.000								
OTU 061	0.134	0.125	1.000							
OTU 064	0.081	-0.062	-0.156	1.000						
OTU 066	0.269	0.190	-0.076	-0.046	1.000					
OTU 068	-0.358	-0.160	0.233	-0.069	0.205	1.000				
OTU 070	-0.045	0.247	0.206	0.074	-0.033	-0.021	1.000			
OTU 071	0.399	0.176	0.309	0.000	0.192	-0.259	0.371	1.000		
OTU 076	0.195	0.257	0.012	0.178	-0.136	-0.163	0.402	0.311	1.000	
OTU 077	-0.231	0.132	0.067	-0.134	-0.398	-0.178	-0.103	-0.241	0.176	1.000
OTU 078	0.034	-0.082	0.208	-0.114	0.039	-0.023	-0.243	-0.067	0.067	0.574
OTU 080	0.266	0.267	0.005	-0.089	0.062	-0.236	0.457	0.317	0.503	0.237
OTU 083	0.366	0.179	0.123	0.965	0.099	-0.096	0.387	0.331	0.161	-0.145
OTU 085	0.300	0.281	0.152	0.039	0.062	-0.175	0.196	0.290	0.177	-0.293
OTU 086	0.060	0.117	0.255	-0.003	-0.090	-0.095	0.191	0.008	-0.082	0.322
OTU 088	-0.498	-0.199	-0.051	-0.072	-0.440	0.119	0.185	-0.376	-0.002	0.561
OTU 090	-0.264	-0.102	-0.069	0.164	-0.331	-0.201	0.081	-0.172	0.195	0.328
OTU 091	-0.265	-0.168	-0.180	0.156	-0.168	0.090	0.161	-0.017	-0.089	0.342
OTU 093	0.531	0.429	0.079	-0.055	0.145	-0.055	0.165	0.211	0.085	0.070
OTU 094	-0.548	-0.062	-0.211	0.157	-0.048	0.107	0.099	-0.198	0.203	0.309
OTU 097	-0.451	-0.257	-0.199	-0.082	-0.298	0.069	-0.252	-0.206	0.009	0.425
OTU 100	0.267	0.267	-0.106	0.198	0.066	-0.168	0.516	0.435	0.134	-0.351
OTU 102	-0.945	-0.350	-0.525	0.178	-0.789	0.169	-0.612	-0.271	0.043	0.262
OTU 104	0.250	0.052	0.205	0.023	0.036	0.101	0.203	0.299	-0.036	-0.167
OTU 106	0.201	0.170	0.040	-0.251	0.306	-0.038	-0.300	0.016	-0.253	0.178
OTU 108	0.099	0.347	0.111	-0.431	0.153	0.090	0.445	0.209	0.366	0.115
OTU 110	0.113	0.013	-0.194	-0.169	0.540	0.267	-0.318	0.048	-0.289	-0.493
OTU 112	0.396	0.120	-0.184	-0.262	0.345	0.010	-0.234	0.090	-0.066	-0.268
OTU 114	0.040	0.002	0.050	-0.171	0.439	0.182	-0.183	-0.064	-0.218	-0.175
OTU 115	-0.127	0.008	0.161	-0.045	0.033	0.065	0.099	-0.179	-0.018	0.081
OTU 116	-0.029	0.063	0.029	-0.012	-0.087	-0.095	-0.043	0.192	-0.095	0.148
OTU 119	-0.435	-0.198	-0.253	-0.059	-0.091	0.160	-0.012	-0.138	0.165	0.226
OTU 122	-0.419	-0.214	0.061	0.205	-0.332	-0.036	-0.313	0.110	0.320	0.300
OTU 125	-0.238	-0.007	0.007	-0.182	-0.209	-0.038	-0.114	-0.049	0.177	0.496
OTU 127	-0.080	0.107	0.106	0.071	0.181	0.183	-0.138	0.138	-0.363	-0.077
OTU 129	0.319	-0.099	0.189	0.138	0.157	0.063	-0.096	0.179	0.013	0.184
OTU 130	0.269	-0.111	0.092	0.156	0.159	-0.021	-0.233	0.322	0.167	-0.178
OTU 132	-0.041	-0.215	0.351	0.251	0.004	0.183	-0.213	-0.230	-0.004	0.176
OTU 135	0.901	0.345	0.332	-0.053	0.266	-0.066	0.085	0.373	0.134	-0.149
OTU 136	0.111	-0.176	0.196	-0.139	0.186	-0.096	-0.239	-0.072	-0.195	-0.049
OTU 138	-0.026	-0.159	0.367	-0.111	-0.010	0.022	-0.281	-0.094	-0.365	-0.087
OTU 140	0.173	-0.007	0.122	0.004	-0.038	-0.243	-0.069	0.153	-0.228	-0.205
OTU 143	0.075	0.008	0.328	-0.311	-0.179	-0.237	0.003	0.068	0.057	0.139
OTU 145	0.462	0.100	0.281	-0.103	0.246	-0.129	-0.252	0.018	-0.006	-0.415
OTU 147	0.104	0.089	0.049	0.140	-0.185	-0.294	0.103	0.187	0.211	-0.100
OTU 149	0.091	0.016	-0.118	-0.200	0.362	-0.058	-0.129	-0.298	0.181	0.077
OTU 151	0.157	0.029	0.005	-0.152	0.295	-0.027	0.272	0.008	-0.030	-0.170
OTU 154	-0.008	-0.009	0.026	-0.160	-0.219	-0.191	0.119	-0.006	0.164	0.246
OTU 153	0.113	0.057	0.233	0.029	-0.332	-0.294	0.496	0.173	0.191	-0.017
OTU 155	-0.131	0.091	-0.000	-0.221	0.219	0.061	0.046	-0.015	-0.038	0.318

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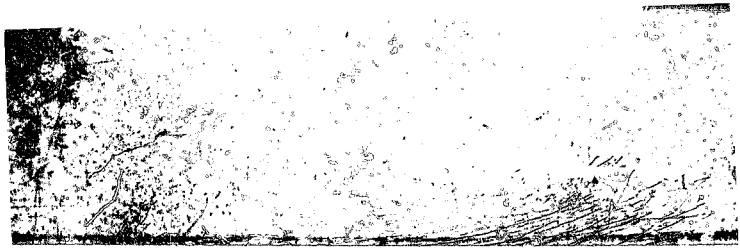
CONTINUATION OF

COMPUTE CORRELATIONS

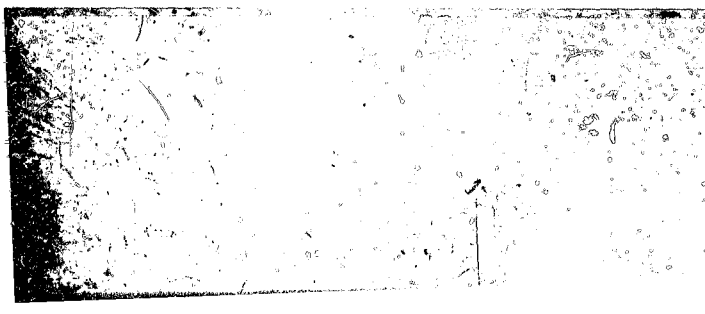
	OTU 059	OTU 060	OTU 061	OTU 064	OTU 066	OTU 068	OTU 070	OTU 071	OTU 076	OTU 077
OTU 158	-0.374	-0.297	-0.150	0.064	-0.233	0.053	-0.115	-0.436	-0.178	0.200
OTU 159	-0.032	0.068	0.358	-0.206	0.002	0.044	0.484	0.238	0.160	-0.208
OTU 162	0.077	-0.106	-0.149	-0.040	0.218	-0.117	-0.202	0.033	-0.180	-0.697
OTU 165	0.394	0.148	0.330	-0.286	-0.077	-0.008	0.184	0.189	0.111	0.044
OTU 166	-0.061	-0.095	0.374	-0.166	-0.063	0.131	-0.142	-0.092	-0.330	-0.085
OTU 167	-0.052	-0.155	0.507	-0.187	-0.279	-0.131	0.080	0.039	-0.267	0.169
OTU 171	0.496	0.149	0.002	0.344	-0.082	-0.167	0.081	0.108	-0.085	-0.384
OTU 177	0.353	0.250	0.004	0.003	0.009	-0.138	0.201	0.237	0.070	-0.040
OTU 181	0.072	0.316	0.131	-0.288	-0.128	-0.158	0.363	0.284	0.375	0.214
OTU 183	-0.108	0.082	0.352	0.361	-0.161	0.240	0.455	0.193	0.102	-0.061
OTU 186	-0.165	-0.195	0.126	0.527	-0.474	0.001	-0.058	-0.011	-0.223	0.062
OTU 187	0.161	-0.251	0.061	0.090	0.219	-0.125	-0.212	-0.108	-0.337	-0.237
OTU 189	0.131	0.057	0.090	-0.013	-0.268	-0.230	0.225	0.106	0.018	0.213
OTU 191	0.078	0.091	-0.013	0.127	0.036	-0.199	-0.051	0.075	-0.075	0.066
OTU 194	0.339	0.056	0.156	-0.082	-0.252	-0.023	-0.088	0.028	0.151	0.126
OTU 196	-0.051	-0.139	-0.319	-0.159	0.015	-0.053	-0.096	-0.176	-0.368	-0.060
OTU 197	0.291	0.127	0.037	0.066	-0.056	-0.130	-0.168	0.111	-0.107	0.097
OTU 199	0.113	-0.048	-0.097	0.552	0.059	-0.252	0.109	0.250	-0.079	-0.457
OTU 200	0.088	-0.104	-0.188	-0.061	0.013	-0.250	-0.196	0.183	-0.285	0.051
OTU 202	0.061	0.146	0.359	0.036	0.087	0.187	0.083	0.636	-0.022	-0.128
OTU 206	-0.034	0.060	0.367	0.001	-0.097	-0.206	-0.030	0.068	-0.170	-0.009
OTU 209	0.439	0.032	-0.002	0.266	0.113	-0.264	-0.129	0.336	-0.112	-0.502
OTU 210	0.343	0.065	0.172	0.179	0.418	-0.001	-0.236	0.182	-0.106	-0.189
OTU 212	-0.009	-0.303	0.062	-0.152	-0.006	0.051	-0.348	-0.302	-0.289	0.083
OTU 213	-0.410	-0.126	0.215	0.198	-0.171	0.194	0.225	-0.260	0.006	-0.059
OTU 216	-0.049	-0.345	-0.195	-0.009	-0.231	0.251	0.095	-0.184	0.014	0.321
OTU 219	-0.121	-0.290	-0.268	0.184	-0.104	0.063	-0.277	-0.211	0.098	-0.085
OTU 220	-0.536	-0.083	0.264	-0.069	-0.009	0.032	-0.176	-0.111	-0.158	-0.145
OTU 227	0.273	0.054	0.194	-0.036	-0.002	-0.335	-0.159	0.195	-0.269	-0.306
OTU 229	0.146	0.087	0.191	0.237	-0.201	0.147	-0.180	-0.053	-0.241	0.115
OTU 231	0.193	0.161	0.270	-0.197	-0.062	-0.102	-0.360	0.107	-0.150	0.052
OTU 234	0.432	0.240	0.291	-0.119	0.063	-0.176	-0.223	0.401	-0.251	-0.196
OTU 235	0.334	-0.014	-0.040	0.120	-0.252	-0.325	-0.319	0.100	-0.081	-0.144
OTU 236	0.315	0.367	0.284	-0.133	0.117	-0.083	-0.001	0.100	-0.061	-0.106
OTU 239	0.390	0.076	0.117	-0.076	0.186	-0.201	-0.493	0.101	-0.205	-0.501
OTU 241	0.592	0.470	0.109	-0.182	0.342	-0.187	-0.047	0.334	0.100	-0.260
OTU 243	0.166	0.104	0.207	-0.356	-0.099	-0.147	-0.059	-0.053	-0.233	0.105
OTU 244	0.290	0.118	0.360	-0.192	0.109	-0.092	-0.081	0.104	-0.113	-0.120
OTU 247	0.256	0.120	0.035	-0.256	0.190	-0.197	-0.402	-0.080	-0.115	0.021
OTU 251	0.266	0.325	0.303	-0.101	0.282	-0.076	-0.343	0.254	-0.077	0.103
OTU 252	0.109	0.066	0.179	-0.114	-0.066	-0.096	-0.199	0.122	-0.261	-0.082
OTU 254	0.020	0.097	0.304	-0.226	-0.005	0.063	-0.039	-0.159	-0.237	0.050
OTU 256	0.393	0.225	0.216	-0.235	0.009	-0.274	-0.072	0.193	-0.030	0.067
OTU 258	-0.060	0.109	0.277	-0.058	-0.053	-0.143	0.099	0.082	-0.120	0.016
OTU 260	0.160	0.179	0.108	-0.026	0.183	-0.009	-0.015	0.262	0.189	-0.103
OTU 262	-0.080	-0.133	-0.015	0.261	-0.003	0.046	-0.065	0.092	-0.235	-0.051
OTU 265	0.250	-0.005	-0.083	-0.239	-0.070	-0.281	-0.325	-0.119	-0.049	0.046
OTU 266	0.074	0.043	0.208	-0.308	-0.014	-0.097	-0.162	0.082	-0.112	0.040
OTU 268	-0.001	0.046	0.108	-0.028	0.211	0.143	-0.082	-0.123	-0.229	0.104
OTU 270	0.212	0.097	-0.119	-0.123	0.174	-0.027	-0.097	-0.046	-0.002	-0.273

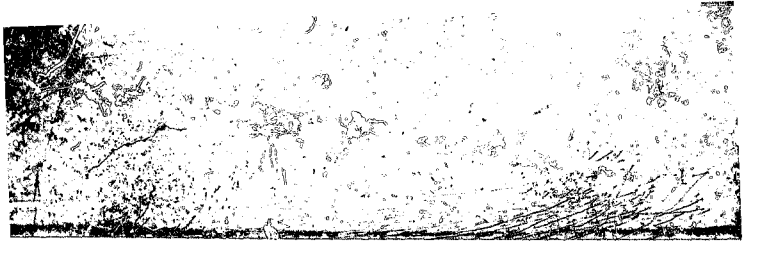
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	OTU 059	OTU 060	OTU 061	OTU 064	OTU 066	OTU 068	OTU 070	OTU 071	OTU 076	OTU 077
OTU 272	-0.119	0.084	0.162	-0.037	0.071	0.043	-0.100	0.118	-0.144	-0.199
OTU 273	0.037	-0.805	0.175	-0.110	-0.233	-0.171	-0.193	-0.810	-0.093	0.262
OTU 276	0.090	-0.019	0.061	-0.069	-0.263	-0.286	-0.235	-0.179	-0.199	0.120
OTU 278	0.007	-0.116	-0.081	0.044	-0.096	-0.187	-0.154	-0.089	-0.149	0.016
OTU 280	0.062	0.189	-0.123	-0.180	0.203	0.365	-0.101	0.122	-0.236	-0.277
OTU 282	0.272	0.109	-0.092	-0.096	0.371	-0.109	-0.166	-0.001	-0.220	0.264
OTU 283	0.217	0.141	0.213	-0.283	0.014	0.102	-0.111	0.105	0.199	-0.005
OTU 286	0.194	-0.013	0.286	0.068	0.020	-0.013	-0.089	0.132	-0.273	-0.163
OTU 288	-0.109	-0.009	0.095	-0.246	-0.159	-0.065	0.061	-0.138	-0.145	0.012
OTU 289	0.263	-0.012	-0.038	-0.003	-0.136	-0.130	-0.338	0.098	-0.305	0.063
OTU 292	0.089	-0.160	-0.081	-0.182	-0.033	0.170	-0.082	0.058	-0.280	-0.268
OTU 295	0.065	-0.065	0.461	-0.295	-0.070	-0.052	-0.055	0.054	-0.193	-0.222
OTU 296	-0.077	-0.246	-0.549	0.060	0.093	0.127	-0.178	-0.193	-0.219	-0.275
OTU 297	-0.119	-0.073	-0.434	0.195	0.135	0.219	-0.125	-0.256	-0.084	-0.280
OTU 298	0.167	-0.163	-0.255	0.165	-0.053	0.084	0.260	-0.056	0.111	-0.180
OTU 301	-0.428	-0.405	-0.271	0.217	-0.800	0.076	0.204	-0.184	0.044	-0.064
OTU 305	-0.301	-0.139	-0.280	-0.001	-0.050	0.146	0.084	-0.217	0.236	-0.073
OTU 306	-0.310	-0.122	-0.825	-0.025	-0.163	-0.112	0.089	-0.273	0.090	0.139
OTU 308	-0.334	-0.277	-0.003	0.530	-0.098	0.047	0.048	-0.412	-0.005	0.229
OTU 310	-0.292	-0.208	-0.414	0.150	-0.193	0.037	-0.067	-0.116	0.086	0.168
OTU 311	-0.270	-0.143	-0.489	0.131	-0.126	0.066	0.137	-0.106	-0.006	0.202
OTU 313	-0.349	-0.321	-0.606	0.085	-0.176	0.193	0.045	-0.118	0.002	0.163
OTU 314	-0.148	-0.018	-0.308	-0.028	0.066	-0.179	-0.466	-0.285	0.012	0.066
OTU 316	-0.135	-0.153	-0.223	-0.007	-0.143	0.063	0.186	-0.175	0.059	0.132
OTU 325	-0.009	-0.110	-0.184	-0.010	-0.141	0.312	0.042	-0.131	0.309	0.081
OTU 324	-0.198	-0.167	-0.097	-0.181	0.092	0.023	0.191	-0.095	0.181	-0.102
OTU 326	-0.275	-0.296	-0.022	0.201	-0.005	0.195	-0.161	-0.273	-0.043	-0.168
OTU 327	-0.467	-0.346	-0.249	-0.232	-0.103	0.399	-0.221	-0.210	-0.317	-0.021
OTU 330	-0.368	-0.124	-0.378	0.237	-0.004	0.255	0.124	-0.164	-0.017	-0.290
OTU 332	-0.452	-0.167	-0.127	0.159	-0.180	0.245	0.146	-0.083	-0.050	-0.180
OTU 333	-0.233	-0.122	-0.449	0.102	0.000	0.056	-0.117	-0.122	0.002	0.174
OTU 336	-0.329	-0.174	-0.314	0.077	-0.090	-0.087	-0.003	-0.242	0.056	0.126
OTU 337	-0.454	-0.225	-0.283	0.001	-0.150	0.083	0.284	-0.236	0.060	0.285
OTU 339	-0.258	-0.134	-0.437	0.131	-0.038	0.215	0.195	-0.330	0.077	0.029
OTU 340	-0.454	-0.172	-0.061	0.176	-0.232	0.107	0.475	-0.244	0.181	0.096
OTU 341	-0.439	-0.353	-0.600	0.300	-0.142	0.232	-0.079	-0.400	0.077	0.167
OTU 342	-0.328	-0.194	-0.550	0.031	-0.089	0.115	-0.195	-0.293	-0.060	0.205
OTU 343	-0.356	-0.196	-0.557	0.102	-0.228	0.073	-0.036	-0.191	0.075	0.092
OTU 344	-0.535	-0.351	-0.576	-0.087	-0.271	0.007	-0.082	-0.277	0.081	0.434
OTU 345	-0.332	-0.085	-0.284	0.181	-0.210	0.022	0.273	-0.170	0.344	0.435





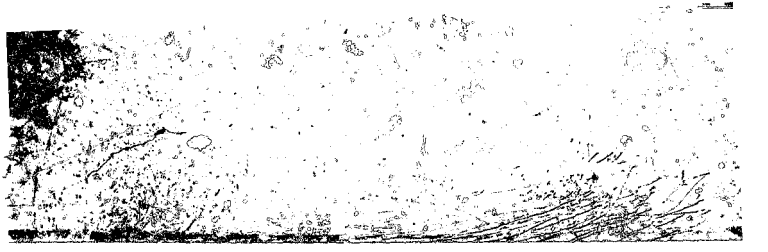
IDENTIFICATION:

COMPUTE C RELATIONS

	QTU 078	QTU 080	QTU 083	QTU 085	QTU 086	QTU 088	QTU 090	QTU 091	QTU 093	QTU 094
QTU 078	1.000									
QTU 080	0.091	1.000								
QTU 083	0.092	0.328	1.000							
QTU 085	0.005	0.177	0.199	1.000						
QTU 086	0.107	0.010	0.112	-0.694	1.000					
QTU 088	0.324	0.013	-0.071	-0.694	0.174	1.000				
QTU 090	0.130	0.060	0.008	0.138	-0.010	0.169	1.000			
QTU 091	0.301	0.226	0.486	0.239	0.017	0.495	0.096	1.000		
QTU 093	0.042	0.293	-0.367	0.187	0.178	-0.251	-0.286	-0.003	1.000	
QTU 094	0.141	0.198	-0.067	-0.071	-0.278	0.136	0.404	0.2577	-0.264	1.000
QTU 097	0.310	-0.061	-0.033	-0.166	0.038	0.322	0.006	0.414	-0.291	0.530
QTU 100	0.350	0.152	0.378	0.227	0.159	-0.282	-0.188	0.185	0.283	-0.184
QTU 103	0.161	0.076	0.128	-0.221	-0.189	0.291	-1.322	0.665	-0.196	0.672
QTU 106	0.199	0.434	-0.496	0.130	0.332	-0.487	-0.222	0.067	0.278	-0.498
QTU 106	0.272	-0.098	-0.028	-0.172	-0.005	-0.121	-0.178	0.058	0.346	-0.109
QTU 109	0.159	0.452	0.175	0.106	0.197	0.172	0.030	-0.008	0.231	0.092
QTU 110	-0.176	-0.235	-0.145	-0.130	-0.374	-0.459	-0.217	-0.161	0.019	-0.086
QTU 112	-0.033	0.217	0.166	0.113	-0.284	-0.284	-0.007	0.050	0.244	0.083
QTU 114	-0.074	-0.199	0.147	-0.132	0.160	-0.169	-0.389	-0.066	0.220	-0.337
QTU 115	-0.029	-0.109	-0.012	-0.266	0.191	0.008	0.002	-0.100	0.101	0.163
QTU 116	-0.033	0.035	0.038	-0.320	-0.005	0.085	0.252	0.133	-0.042	0.196
QTU 118	0.082	0.173	0.017	-0.052	-0.251	0.198	0.592	0.373	-0.370	0.566
QTU 122	0.185	0.261	0.049	-0.163	-0.232	0.303	0.313	0.525	-0.268	0.595
QTU 125	0.349	0.249	-0.145	-0.168	-0.091	0.289	0.252	0.474	-0.180	0.611
QTU 127	0.079	0.145	0.220	0.180	-0.146	0.031	0.017	0.061	0.046	0.174
QTU 129	0.091	-0.138	0.209	-0.102	0.066	-0.340	-0.288	-0.254	0.219	-0.359
QTU 130	0.067	0.028	-0.022	0.013	-0.014	-0.451	-0.308	-0.319	-0.045	-0.578
QTU 132	0.286	-0.033	0.004	-0.034	-0.059	-0.069	0.233	0.268	-0.026	0.277
QTU 135	-0.000	0.074	0.142	0.160	0.069	-0.395	-0.481	-0.490	0.438	-0.442
QTU 136	0.031	-0.170	0.206	-0.168	0.137	-0.166	-0.185	-0.292	0.032	-0.359
QTU 138	0.108	-0.282	-0.246	-0.302	0.194	0.026	-0.003	-0.363	-0.092	-0.565
QTU 140	-0.020	-0.071	0.202	0.100	0.490	-0.145	-0.183	0.001	-0.080	-0.175
QTU 143	0.080	-0.086	-0.168	0.154	0.302	0.167	-0.021	-0.206	0.024	-0.177
QTU 145	-0.203	-0.169	-0.114	0.145	-0.009	-0.417	-0.354	-0.715	0.118	-0.568
QTU 147	-0.100	0.199	0.008	0.403	0.038	-0.181	0.168	-0.105	0.184	0.031
QTU 149	-0.004	0.130	-0.092	0.100	0.141	-0.201	0.082	-0.205	0.137	0.050
QTU 151	-0.078	0.186	-0.151	-0.064	-0.039	-0.355	-0.000	-0.448	0.177	-0.031
QTU 152	0.167	0.069	-0.091	0.178	0.077	0.113	-0.082	-0.177	0.003	-0.004
QTU 154	-0.229	0.273	0.239	-0.042	-0.098	0.079	0.169	0.033	0.189	-0.051
QTU 155	-0.025	-0.045	-0.183	-0.014	0.038	-0.068	-0.026	-0.047	0.141	-0.100
QTU 158	-0.009	-0.291	-0.206	-0.461	0.136	0.132	0.416	-0.056	-0.352	-0.025
QTU 159	0.003	0.153	0.116	-0.067	0.279	0.035	-0.359	-0.108	0.032	-0.152
QTU 162	-0.027	-0.018	-0.175	-0.063	0.029	-0.217	-0.241	-0.099	0.118	-0.207
QTU 163	-0.183	0.378	-0.097	0.059	0.236	-0.037	0.009	-0.259	-0.003	-0.047
QTU 166	0.110	-0.327	-0.088	-0.213	0.060	0.152	-0.343	-0.117	-0.101	-0.503
QTU 167	0.192	-0.128	-0.021	-0.136	0.361	0.185	-0.362	-0.179	-0.060	-0.406
QTU 171	-0.553	-0.036	0.415	0.000	-0.056	-0.324	-0.303	-0.233	0.376	-0.346
QTU 177	-0.159	0.187	0.285	0.167	-0.167	-0.208	0.068	0.056	0.010	0.083
QTU 181	0.025	0.461	0.061	-0.192	0.234	0.105	-0.035	-0.066	0.188	0.063
QTU 183	-0.260	-0.016	0.226	0.239	-0.023	-0.023	-0.140	-0.224	0.019	-0.159

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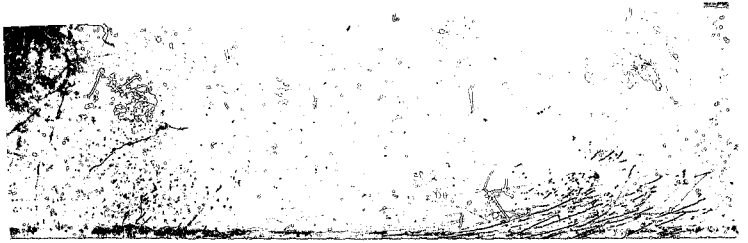


COMPUTE CORRELATIONS

	OTU 086	OTU 087	OTU 088	OTU 089	OTU 090	OTU 091	OTU 092	OTU 093	OTU 094
OTU 186	0.059	-0.183	-0.190	-0.322	0.265	0.238	-0.119	0.172	-0.114	-0.170
OTU 187	-0.075	-0.190	-0.019	-0.364	-0.111	-0.234	-0.367	-0.163	-0.129	-0.165
OTU 189	0.060	0.302	0.031	-0.159	0.135	-0.035	-0.359	-0.033	0.386	-0.282
OTU 191	-0.081	0.196	0.122	-0.068	0.109	-0.229	-0.173	0.077	0.206	0.087
OTU 194	-0.177	0.288	0.279	0.199	0.116	-0.184	0.031	-0.238	0.309	-0.133
OTU 196	-0.061	-0.206	-0.115	0.092	0.016	-0.069	-0.259	0.162	0.180	-0.021
OTU 197	0.284	0.018	0.174	-0.069	0.114	-0.161	-0.122	0.269	0.807	-0.349
OTU 199	-0.232	-0.035	0.178	0.136	-0.261	-0.217	-0.051	-0.019	0.017	-0.269
OTU 200	-0.135	-0.244	-0.259	-0.027	0.081	-0.230	-0.089	-0.246	-0.002	-0.212
OTU 202	0.161	-0.141	-0.109	0.095	-0.097	-0.152	-0.115	0.077	-0.277	-0.091
OTU 206	-0.192	-0.318	-0.113	-0.132	0.291	-0.123	0.236	-0.311	-0.116	-0.319
OTU 209	-0.310	0.080	0.275	0.138	-0.134	-0.713	-0.228	0.749	0.219	-0.294
OTU 210	-0.049	-0.006	0.167	0.056	-0.187	-0.602	-0.437	0.074	0.303	-0.099
OTU 212	0.173	-0.381	-0.382	-0.085	-0.091	0.094	-0.093	-0.274	-0.069	-0.287
OTU 213	-0.240	-0.055	0.033	-0.123	-0.169	0.285	0.929	0.256	-0.259	0.306
OTU 216	0.143	0.283	0.165	0.214	-0.030	0.518	0.217	0.512	-0.404	0.534
OTU 218	-0.099	0.115	0.089	0.020	-0.162	0.167	0.121	0.195	-0.329	0.582
OTU 220	-0.158	-0.258	-0.217	-0.158	0.039	0.028	-0.303	-0.482	-0.019	-0.481
OTU 227	-0.188	-0.143	-0.127	0.165	0.188	-0.131	-0.369	-0.316	-0.519	-0.907
OTU 229	-0.245	-0.096	0.021	-0.266	0.070	0.071	-0.211	-0.199	-0.018	-0.285
OTU 231	0.043	-0.176	-0.195	0.064	0.060	-0.020	-0.281	0.135	0.162	-0.188
OTU 234	0.336	-0.156	-0.062	-0.072	-0.019	-0.211	-0.348	-0.275	0.098	-0.447
OTU 235	-0.382	0.103	0.311	0.096	-0.009	0.159	-0.097	0.667	-0.053	-0.234
OTU 236	-0.041	0.088	-0.148	0.181	-0.251	-0.266	-0.903	-0.311	0.300	-0.151
OTU 239	-0.288	-0.241	-0.133	0.206	-0.306	-0.247	-0.271	-0.466	-0.093	-0.397
OTU 241	-0.155	0.229	0.168	0.172	-0.285	-0.415	-0.209	-0.071	0.516	-0.063
OTU 243	0.119	-0.174	-0.141	-0.096	0.000	0.149	-0.080	-0.243	-0.404	0.130
OTU 244	-0.018	-0.196	-0.021	0.005	-0.030	0.067	-0.319	-0.378	0.091	-0.527
OTU 247	0.078	0.047	0.295	0.010	-0.077	-0.062	0.087	-0.167	0.035	0.536
OTU 251	0.823	-0.147	-0.267	-0.001	0.152	-0.172	-0.299	0.357	0.157	-0.349
OTU 252	0.093	0.298	-0.002	0.078	-0.109	-0.005	-0.126	-0.087	0.118	0.099
OTU 254	-0.038	-0.218	-0.338	0.210	0.298	0.104	-0.177	-0.220	-0.059	-0.183
OTU 258	0.217	-0.009	0.056	0.030	0.133	-0.097	-0.472	-0.133	0.039	-0.159
OTU 259	-0.177	-0.023	0.115	-0.076	-0.008	0.108	-0.073	0.221	0.185	-0.064
OTU 260	0.016	0.106	-0.137	-0.018	-0.123	-0.035	-0.108	-0.070	-0.116	-0.158
OTU 262	0.037	-0.248	-0.102	0.111	-0.177	-0.051	0.055	0.032	0.109	-0.221
OTU 264	0.060	0.028	-0.109	0.205	-0.224	-0.065	0.267	-0.330	0.112	-0.206
OTU 266	-0.230	0.126	-0.207	0.067	0.174	0.025	-0.084	-0.197	0.102	-0.284
OTU 268	0.039	-0.146	-0.095	-0.039	0.119	-0.097	-0.358	-0.387	0.029	-0.507
OTU 270	-0.108	-0.028	0.040	0.205	-0.059	-0.196	0.308	-0.351	0.161	-0.290
OTU 272	-0.183	-0.847	-0.476	-0.047	0.041	-0.191	0.097	-0.304	-0.233	-0.216
OTU 273	0.155	-0.209	-0.530	-0.177	-0.098	0.089	-0.056	-0.376	-0.079	-0.280
OTU 276	-0.148	-0.128	-0.195	0.044	0.227	0.103	-0.034	-0.626	0.051	-0.343
OTU 278	0.082	-0.273	-0.188	0.063	0.302	-0.195	-0.171	-0.154	0.106	-0.359
OTU 280	-0.151	-0.872	-0.105	-0.039	-0.112	-0.177	-0.309	0.012	0.094	-0.069
OTU 282	-0.096	-0.296	-0.099	0.082	-0.034	-0.090	-0.195	-0.257	0.254	-0.315
OTU 283	-0.012	0.038	-0.016	0.110	0.103	0.089	-0.155	-0.638	-0.013	-0.319
OTU 284	-0.030	-0.280	-0.095	-0.052	0.082	-0.039	-0.223	-0.282	0.135	-0.559
OTU 288	-0.212	-0.182	-0.208	-1.094	0.256	0.095	-0.150	-0.490	-0.119	-0.250
OTU 289	0.099	-0.256	-0.108	-0.024	0.031	-0.238	-0.159	0.053	0.214	-0.127

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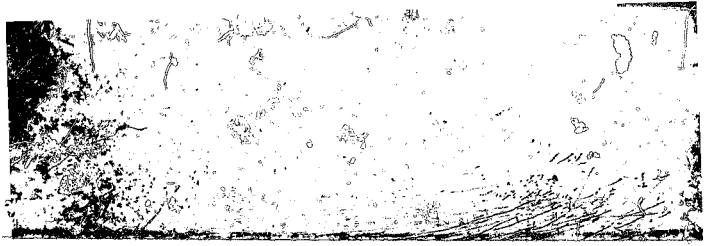


CONTINUATION OF

COMPUTE CORRELATIONS

	OTU 078	OTU 080	OTU 083	OTU 085	OTU 086	OTU 088	OTU 090	OTU 091	OTU 093	OTU 096
OTU 292	-0.099	-0.102	-0.232	0.135	0.078	0.140	0.122	-0.385	-0.367	-0.095
OTU 295	0.001	-0.256	-0.285	0.189	0.149	-0.060	-0.154	-0.526	-0.194	-0.396
OTU 296	-0.169	-0.267	0.036	0.133	-0.271	-0.113	0.182	0.113	-0.127	0.532
OTU 297	-0.113	-0.321	0.039	0.101	-0.155	-0.025	0.271	-0.125	-0.256	0.143
OTU 298	-0.307	-0.095	0.123	0.136	-0.373	-0.093	0.306	0.090	-0.316	0.240
OTU 301	-0.157	-0.113	0.071	0.025	-0.277	0.214	0.254	0.237	-0.360	0.349
OTU 305	-0.060	-0.011	-0.113	0.069	-0.222	0.033	0.368	-0.026	-0.296	0.319
OTU 306	-0.070	0.011	-0.118	0.097	-0.058	0.144	0.569	0.185	-0.332	0.363
OTU 306	0.002	0.068	-0.153	0.013	-0.247	0.036	0.087	0.327	-0.012	0.364
OTU 310	-0.049	-0.060	-0.008	0.065	-0.011	0.053	0.306	0.064	-0.118	0.301
OTU 311	0.076	-0.115	0.008	0.085	0.079	0.238	0.281	0.267	-0.024	0.168
OTU 313	-0.006	0.013	-0.068	0.094	-0.028	0.118	0.291	0.178	-0.147	0.324
OTU 316	0.078	0.040	-0.175	0.161	-0.351	-0.195	0.331	0.013	-0.102	0.122
OTU 316	0.016	0.136	0.070	0.164	-0.266	0.011	0.066	0.318	0.167	0.242
OTU 322	0.020	0.092	0.049	-0.083	-0.211	0.126	0.158	-0.036	-0.092	0.216
OTU 325	0.101	-0.036	0.047	0.207	-0.229	-0.006	0.125	0.008	-0.190	0.265
OTU 326	-0.229	-0.023	0.100	-0.098	-0.212	-0.033	0.102	0.240	-0.190	0.338
OTU 327	-0.078	-0.268	-0.088	-0.086	-0.337	0.249	0.010	0.180	-0.303	0.179
OTU 330	-0.264	-0.071	0.070	0.168	-0.368	-0.086	0.188	0.169	-0.234	0.139
OTU 331	-0.180	0.032	0.096	0.096	-0.059	0.196	0.228	0.269	-0.219	0.305
OTU 333	0.032	-0.096	-0.068	0.044	-0.221	0.060	0.247	0.186	-0.162	0.347
OTU 336	0.080	0.080	-0.197	-0.177	-0.030	0.131	0.274	0.322	-0.099	0.321
OTU 337	-0.038	0.261	0.014	0.057	0.030	0.213	0.301	0.294	-0.092	0.367
OTU 339	-0.063	0.116	0.054	0.076	-0.068	0.255	0.331	0.251	-0.220	0.337
OTU 340	-0.128	0.028	0.066	0.135	-0.137	0.329	0.356	0.311	-0.343	0.442
OTU 341	0.040	-0.160	-0.346	0.017	-0.111	0.246	0.317	0.107	-0.333	0.273
OTU 342	-0.029	-0.200	-0.251	-0.202	-0.147	0.159	0.186	0.213	-0.264	0.346
OTU 343	-0.137	-0.014	-0.232	-0.061	-0.183	0.200	0.140	0.215	-0.170	0.410
OTU 344	0.188	-0.025	-0.378	-0.115	0.068	0.263	0.249	0.040	-0.286	0.496
OTU 345	-0.045	0.308	0.078	-0.059	0.192	0.332	0.444	0.338	-0.068	0.375



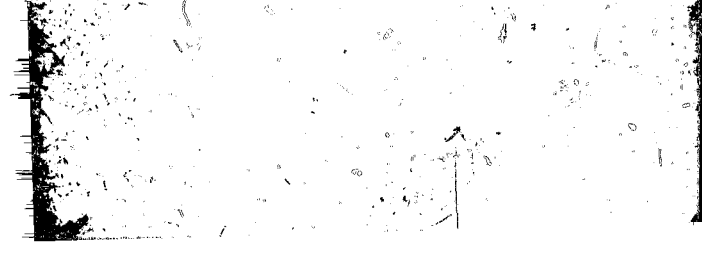


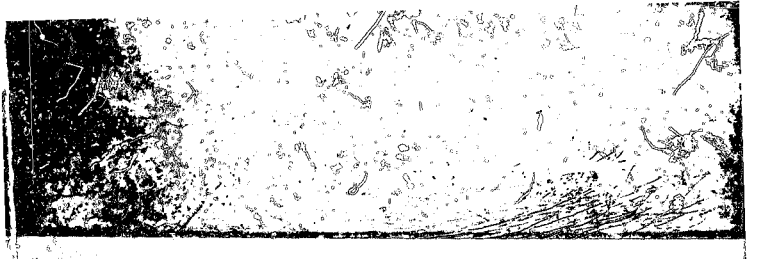
IDENTIFICATION:

COMPUTE CORRELATIONS

	OTU 097	OTU 100	OTU 102	OTU 104	OTU 106	OTU 108	OTU 110	OTU 112	OTU 114	OTU 115
OTU 097	1.000									
OTU 100	-0.280	1.000								
OTU 102	0.478	-0.075	1.000							
OTU 104	-0.269	0.072	-0.114	1.000						
OTU 106	-0.338	-0.078	-0.162	0.096	1.000					
OTU 108	0.177	0.076	0.180	0.043	0.056	1.000				
OTU 110	-0.299	0.185	-0.152	0.069	0.403	-0.089	1.000			
OTU 112	-0.269	0.063	-0.061	0.162	0.309	0.221	0.491	1.000		
OTU 114	-0.434	0.013	-0.213	0.256	0.382	0.146	0.442	0.306	1.000	
OTU 115	-0.150	0.145	-0.151	0.109	0.060	0.190	0.062	-0.095	0.246	1.000
OTU 116	0.120	-0.098	0.143	0.138	0.041	0.150	0.177	0.210	-0.018	-0.043
OTU 118	0.614	-0.290	0.606	-0.284	-0.599	-0.065	-0.132	-0.017	-0.344	-0.146
OTU 122	0.545	-0.087	0.589	-0.146	-0.275	0.056	-0.361	-0.374	-0.517	-0.229
OTU 125	0.508	-0.341	0.452	0.041	-0.091	0.213	-0.230	-0.117	-0.402	-0.127
OTU 127	0.449	-0.223	0.339	0.200	-0.432	-0.006	-0.233	-0.052	-0.290	-0.329
OTU 129	-0.293	0.173	-0.189	0.183	0.274	0.119	0.388	0.350	0.251	-0.113
OTU 130	-0.305	-0.118	-0.255	0.283	0.199	-0.116	0.168	0.780	0.074	0.093
OTU 132	0.312	0.210	0.417	0.009	0.011	0.051	0.067	0.200	0.011	-0.301
OTU 135	-0.567	0.305	-0.465	0.115	0.299	0.335	0.165	0.260	0.319	0.061
OTU 136	-0.434	-0.031	-0.139	0.222	0.276	0.127	0.806	0.881	0.897	0.429
OTU 138	-0.305	0.218	-0.408	0.161	0.186	-0.013	0.100	-0.031	0.474	0.205
OTU 140	-0.093	0.084	-0.078	0.534	-0.061	-0.083	-0.045	0.091	0.222	0.036
OTU 143	-0.233	0.190	-0.187	0.302	0.006	-0.317	-0.181	0.078	0.169	0.169
OTU 145	0.596	-0.041	-0.653	0.069	0.111	-0.097	0.335	0.301	0.440	0.131
OTU 147	0.111	0.253	-0.150	-0.133	-0.447	0.021	-0.207	-0.086	0.133	0.036
OTU 149	-0.224	-0.118	0.136	0.127	0.178	0.238	0.155	0.280	0.169	0.185
OTU 151	-0.404	0.043	-0.660	0.076	0.245	0.178	0.192	0.458	0.452	-0.043
OTU 152	-0.178	-0.220	-0.100	0.178	-0.019	0.277	-0.231	-0.275	0.015	0.099
OTU 153	-0.163	0.162	-0.104	0.299	-0.211	0.491	-0.835	0.066	-0.196	0.097
OTU 155	-0.281	-0.032	-0.186	-0.112	0.377	0.032	0.056	-0.168	0.311	0.101
OTU 156	0.315	-0.197	0.189	-0.214	-0.138	-0.075	-0.058	-0.292	-0.190	0.249
OTU 159	-0.316	0.172	-0.174	0.364	-0.132	0.498	-0.084	-0.167	0.226	0.276
OTU 162	-0.132	0.166	-0.164	-0.224	-0.057	-0.088	0.177	0.085	0.339	0.270
OTU 165	-0.028	-0.079	-0.191	0.187	-0.224	0.389	-0.214	-0.082	-0.069	0.088
OTU 166	-0.267	0.360	-0.406	0.078	0.151	0.810	0.040	0.273	0.535	0.084
OTU 167	-0.060	-0.211	-0.410	0.253	0.069	0.084	-0.266	-0.433	0.179	0.141
OTU 171	-0.497	0.386	-0.203	0.161	-0.092	-0.059	0.103	0.021	0.304	0.045
OTU 177	-0.189	0.296	-0.108	0.152	0.333	0.094	0.161	0.348	0.163	0.236
OTU 181	-0.083	-0.055	-0.104	0.331	-0.004	0.658	-0.129	0.131	0.083	0.039
OTU 183	-0.232	0.160	-0.058	0.346	-0.379	0.158	-0.226	-0.324	0.042	0.231
OTU 186	-0.037	0.704	-0.089	0.071	0.016	-0.023	-0.247	-0.360	-0.023	0.186
OTU 187	-0.292	-0.111	-0.002	0.075	0.064	-0.110	0.336	0.107	0.466	0.305
OTU 189	-0.157	0.040	-0.131	0.098	-0.056	0.281	-0.269	-0.105	0.057	0.014
OTU 191	0.064	0.075	0.019	0.023	0.110	-0.289	0.018	0.108	0.113	0.135
OTU 194	-0.208	-0.026	-0.187	0.254	0.045	0.005	-0.247	0.290	-0.063	-0.081
OTU 196	0.207	0.096	-0.077	-0.219	0.067	-0.007	0.077	0.057	0.154	-0.073
OTU 197	-0.101	0.159	-0.049	0.236	0.203	-0.068	-0.003	0.153	0.286	-0.142
OTU 199	-0.225	0.359	-0.069	-0.215	-0.039	-0.457	0.230	-0.031	0.006	-0.028
OTU 200	-0.169	-0.067	-0.229	-0.213	0.369	-0.420	0.160	-0.079	0.093	0.299
OTU 202	-0.100	0.214	-0.233	0.157	0.126	0.137	0.245	-0.029	-0.075	-0.103

PLEASE TURN THE PAGE





CONTINUATION OF

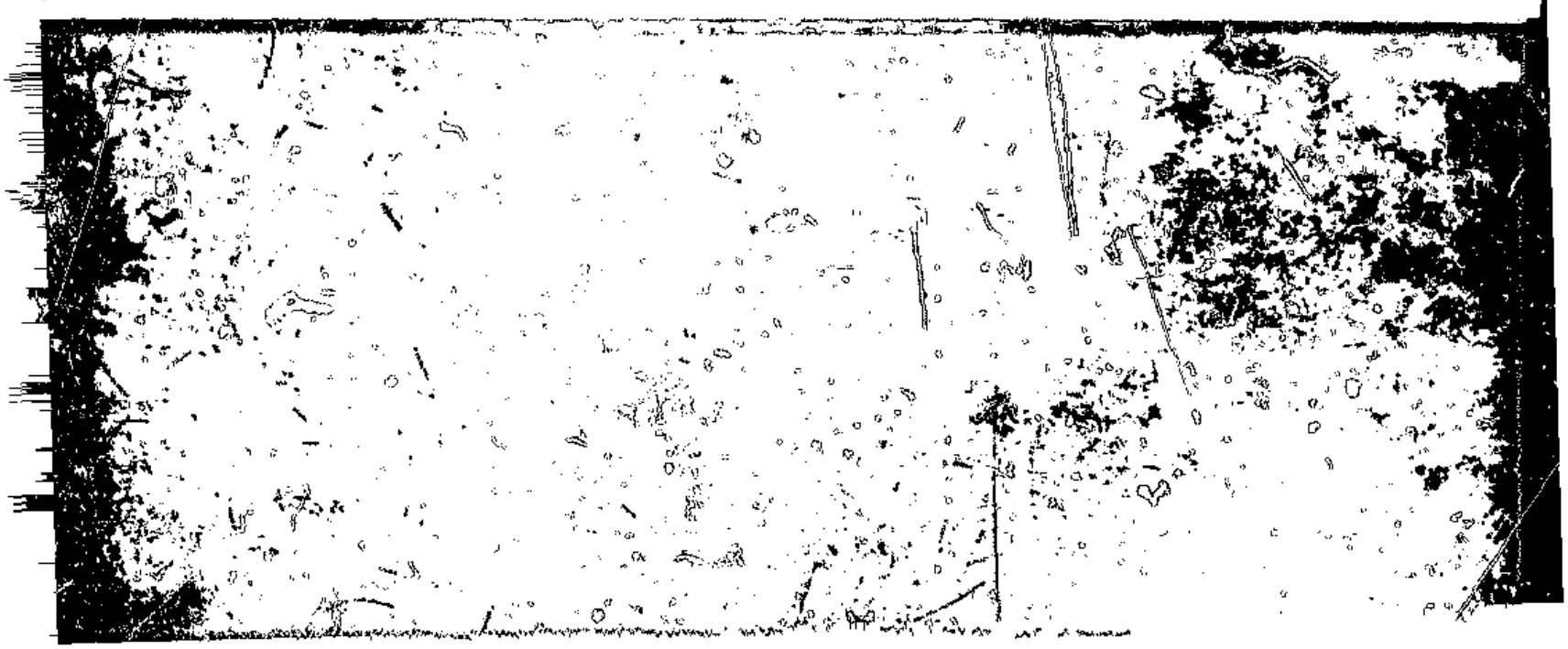
COMPUTE CORRELATIONS

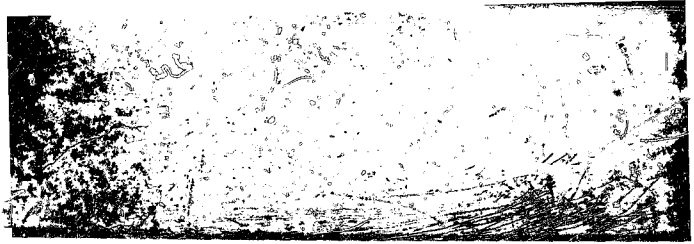
	OTU 097	OTU 100	OTU 102	OTU 104	OTU 106	OTU 108	OTU 110	OTU 112	OTU 114	OTU 115
OTU 206	-0.211	0.269	-0.260	-0.085	0.033	-0.013	0.141	-0.242	0.090	0.264
OTU 209	-0.398	0.337	-0.037	0.191	0.091	-0.398	0.383	0.495	0.153	-0.301
OTU 210	-0.264	0.159	0.076	0.098	0.271	-0.393	0.283	0.291	0.178	-0.090
OTU 212	0.034	-0.222	-0.476	-0.103	0.181	-0.219	0.200	0.116	0.130	-0.192
OTU 214	0.102	0.226	0.585	-0.098	-0.531	0.154	-0.206	-0.099	0.427	-0.145
OTU 216	0.607	-0.226	0.585	-0.226	-0.265	-0.055	-0.348	-0.175	-0.335	-0.025
OTU 218	0.385	0.019	0.507	-0.126	-0.499	-0.101	-0.257	-0.201	-0.503	-0.077
OTU 220	-0.337	0.136	-0.556	0.068	0.023	-0.020	0.016	0.106	0.284	0.260
OTU 227	-0.364	0.096	-0.393	0.219	-0.021	-0.081	0.132	-0.042	0.385	-0.132
OTU 229	-0.188	-0.106	-0.389	-0.065	0.193	-0.107	-0.136	0.057	0.178	-0.017
OTU 231	-0.159	-0.671	-0.359	0.237	0.310	-0.025	-0.009	0.156	0.269	-0.242
OTU 234	0.025	0.019	0.529	0.108	0.013	0.053	0.259	0.169	0.230	-0.297
OTU 235	-0.329	0.095	-0.398	0.129	0.134	-0.116	0.178	0.310	0.056	-0.092
OTU 236	-0.405	-0.089	-0.559	0.095	0.339	0.217	0.139	0.346	0.202	-0.186
OTU 239	-0.535	-0.062	-0.691	0.004	0.225	-0.246	0.291	0.378	0.295	-0.142
OTU 241	-0.216	0.330	-0.269	0.027	0.209	-0.130	0.454	0.566	0.209	-0.152
OTU 243	-0.102	-0.347	-0.446	0.022	0.386	0.050	0.261	0.322	0.158	-0.139
OTU 244	-0.408	-0.128	-0.590	0.089	0.490	0.147	0.069	0.003	0.235	-0.102
OTU 247	-0.294	-0.178	-0.971	-0.154	0.506	0.088	0.309	0.487	0.312	-0.024
OTU 248	-0.217	0.159	-0.510	0.020	0.310	0.060	0.161	0.199	0.410	-0.058
OTU 252	-0.041	-0.209	-0.197	0.253	0.173	-0.022	0.111	-0.001	0.106	-0.001
OTU 254	-0.086	-0.091	-0.366	0.095	0.296	0.204	-0.036	-0.004	0.241	-0.098
OTU 256	-0.265	0.187	-0.515	0.266	0.414	0.094	0.036	0.101	0.317	-0.109
OTU 259	-0.360	0.301	-0.092	-0.028	0.409	0.116	0.076	0.119	0.084	-0.066
OTU 260	-0.159	0.018	-0.476	-0.016	0.069	0.136	-0.019	0.099	-0.060	-0.060
OTU 262	-0.252	0.003	-0.017	0.086	0.390	-0.095	0.172	0.084	0.140	-0.195
OTU 264	-0.355	-0.304	-0.309	0.022	0.231	0.174	-0.083	0.469	0.096	-0.128
OTU 260	-0.206	0.227	-0.424	0.135	0.227	0.362	0.124	0.019	0.170	0.106
OTU 268	-0.459	-0.258	-0.424	0.023	0.233	0.161	0.070	-0.149	0.279	0.158
OTU 270	-0.434	-0.019	-0.326	0.056	0.073	-0.100	0.093	-0.303	0.224	0.105
OTU 272	0.182	0.169	-0.588	-0.168	0.294	-0.134	0.450	0.139	0.080	0.077
OTU 273	-0.327	-0.314	-0.383	-0.159	0.265	-0.069	-0.045	-0.036	0.025	0.264
OTU 274	-0.168	0.167	-0.484	-0.052	0.097	-0.115	-0.005	0.016	0.168	0.167
OTU 278	-0.166	0.104	-0.382	0.062	0.232	-0.266	0.157	-0.034	0.096	0.255
OTU 280	-0.008	0.164	-0.189	0.050	0.217	-0.068	0.338	0.133	0.301	-0.300
OTU 282	-0.280	0.117	-0.261	-0.263	0.376	-0.421	0.672	0.180	0.285	-0.026
OTU 284	-0.270	0.157	-0.490	0.052	0.055	0.285	0.036	0.213	0.186	0.109
OTU 286	-0.391	0.090	-0.539	0.184	0.332	-0.034	0.268	0.049	0.430	-0.074
OTU 288	-0.173	-0.034	-0.459	-0.069	-0.033	0.160	0.110	-0.117	0.195	0.184
OTU 289	-0.086	0.019	-0.169	0.018	0.311	-0.157	0.104	0.128	0.119	-0.205
OTU 292	0.086	-0.072	-0.254	0.109	-0.031	-0.025	0.155	-0.010	-0.055	0.079
OTU 295	-0.152	-0.202	-0.618	0.128	0.016	0.099	0.033	0.057	0.213	-0.039
OTU 296	0.283	0.092	0.396	-0.303	-0.114	-0.562	0.151	-0.010	-0.218	-0.004
OTU 297	0.325	-0.108	0.270	-0.281	-0.304	-0.429	0.029	-0.199	-0.267	0.077
OTU 298	0.196	0.141	0.295	-0.108	-0.498	-0.804	0.081	-0.189	-0.097	-0.870
OTU 301	0.295	0.010	0.487	-0.069	-0.499	-0.156	-0.297	-0.398	-0.491	-0.178
OTU 305	0.442	-0.104	0.310	-0.354	-0.524	0.009	-0.074	-0.212	-0.454	0.111
OTU 306	0.458	0.113	0.294	-0.462	-0.397	-0.075	-0.108	-0.186	-0.462	0.162
OTU 308	0.268	-0.004	0.581	-0.435	-0.083	-0.211	-0.171	-0.171	-0.259	-0.109
OTU 310	0.397	-0.199	0.514	-0.199	-0.408	-0.278	-0.327	-0.317	-0.414	0.037

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	OTU 097	OTU 100	OTU 102	OTU 104	OTU 106	OTU 108	OTU 110	OTU 112	OTU 114	OTU 116
OTU 311	0.598	0.005	0.292	-0.167	-0.433	-0.168	-0.355	-0.426	-0.427	-0.199
OTU 313	0.457	0.069	0.557	-0.372	-0.401	-0.232	-0.214	-0.213	-0.431	0.070
OTU 314	0.171	-0.163	0.154	-0.450	0.059	-0.290	0.185	0.258	-0.265	-0.055
OTU 316	0.204	-0.063	0.402	-0.230	-0.192	-0.059	-0.269	-0.025	-0.237	-0.140
OTU 322	0.308	-0.296	0.293	-0.008	-0.289	0.104	-0.203	-0.050	-0.527	-0.209
OTU 324	0.249	-0.011	0.263	-0.107	-0.460	0.054	-0.031	-0.013	-0.375	-0.110
OTU 326	0.323	0.030	0.586	-0.236	-0.333	-0.320	-0.144	-0.140	-0.339	-0.272
OTU 327	0.240	-0.463	0.214	-0.374	0.073	-0.247	-0.055	-0.121	-0.091	-0.235
OTU 330	0.201	0.089	0.268	-0.198	-0.343	-0.313	-0.002	-0.089	-0.380	-0.336
OTU 332	0.356	0.147	0.535	-0.164	-0.463	-0.061	-0.261	-0.309	-0.400	-0.293
OTU 333	0.490	-0.010	0.554	-0.482	-0.221	-0.421	-0.208	-0.276	-0.386	-0.083
OTU 336	0.306	0.045	0.435	-0.343	-0.116	-0.044	-0.140	-0.226	-0.323	0.101
OTU 337	0.542	-0.009	0.517	-0.426	-0.339	-0.153	-0.376	-0.240	-0.416	-0.077
OTU 339	0.529	0.040	0.515	-0.401	-0.420	-0.224	-0.299	-0.219	-0.452	-0.074
OTU 340	0.407	0.041	0.488	-0.161	-0.383	-0.111	-0.347	-0.473	-0.507	-0.145
OTU 341	0.494	-0.137	0.509	-0.401	-0.315	-0.439	-0.252	-0.372	-0.380	-0.158
OTU 342	0.568	-0.020	0.424	-0.558	-0.231	-0.249	0.042	-0.173	-0.377	0.026
OTU 343	0.518	-0.029	0.486	-0.439	-0.295	-0.157	-0.163	-0.211	-0.358	-0.091
OTU 344	0.620	-0.217	0.345	-0.411	-0.250	-0.231	-0.294	-0.473	-0.444	0.104
OTU 345	0.429	0.077	0.431	-0.246	-0.364	0.083	-0.518	-0.316	-0.453	0.171



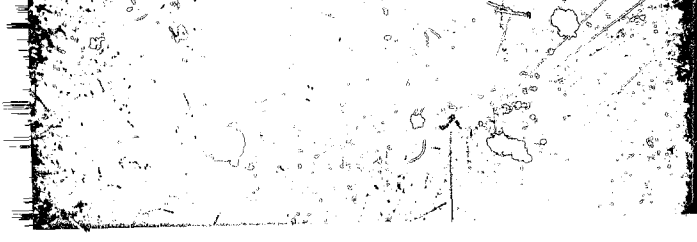


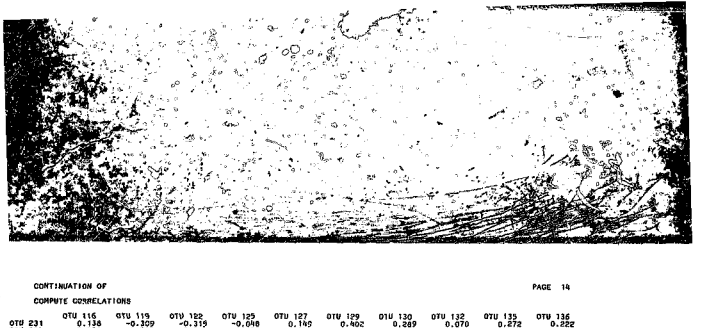
IDENTIFICATION:

COMPUTE CORRELATIONS

	OTU 116	OTU 119	OTU 122	OTU 125	OTU 127	OTU 129	OTU 130	OTU 132	OTU 135	OTU 136
OTU 116	1.000									
OTU 119	0.305	1.000								
OTU 122	0.188	0.604	1.000							
OTU 125	0.284	0.579	0.655	1.000						
OTU 127	0.045	0.442	0.328	0.538	1.000					
OTU 129	0.159	-0.230	-0.300	-0.266	0.156	1.000				
OTU 130	-0.111	-0.148	-0.170	-0.168	-0.044	0.514	1.000			
OTU 132	0.067	0.261	0.094	0.242	0.238	0.283	0.130	1.000		
OTU 135	-0.083	0.517	-0.415	-0.451	0.013	0.269	0.362	-0.290	1.000	
OTU 136	0.064	-0.298	-0.447	-0.334	-0.242	0.444	0.224	-0.135	0.353	1.000
OTU 138	-0.080	-0.453	-0.311	-0.260	-0.231	0.357	0.383	-0.186	0.190	0.829
OTU 140	-0.113	-0.172	-0.203	-0.081	-0.119	0.022	0.313	0.170	-0.081	0.11
OTU 143	-0.065	-0.385	-0.334	-0.020	-0.113	0.067	0.221	-0.118	0.059	0.417
OTU 145	-0.167	-0.559	-0.488	-0.603	-0.223	0.409	0.479	-0.086	0.493	0.940
OTU 147	-0.117	0.189	0.045	-0.032	0.229	-0.264	-0.057	0.039	-0.054	-0.046
OTU 149	0.126	0.012	-0.280	-0.098	0.012	0.170	0.091	0.223	0.000	0.277
OTU 151	0.012	-0.538	-0.429	-0.275	-0.317	0.275	0.296	-0.061	0.439	0.165
OTU 152	-0.038	-0.121	-0.120	0.191	0.054	-0.164	-0.051	-0.233	0.095	0.062
OTU 153	0.242	0.067	0.254	0.195	-0.013	-0.114	-0.090	-0.336	0.035	-0.005
OTU 157	-0.128	-0.253	-0.176	-0.168	-0.277	-0.191	0.199	-0.215	0.000	0.078
OTU 158	0.314	0.292	0.206	0.136	-0.180	-0.157	-0.229	-0.033	-0.406	0.078
OTU 159	-0.098	-0.320	0.000	-0.049	-0.087	-0.073	-0.006	-0.521	0.297	0.198
OTU 162	-0.042	-0.223	-0.366	-0.239	-0.230	-0.201	0.009	0.060	0.088	0.059
OTU 165	0.212	0.062	0.058	0.120	0.099	-0.152	0.044	-0.097	0.044	0.039
OTU 166	-0.180	-0.430	-0.204	-0.269	-0.183	0.080	0.185	-0.318	0.148	0.276
OTU 167	-0.077	-0.370	-0.044	-0.060	-0.118	0.068	0.068	-0.285	0.065	0.119
OTU 171	0.002	-0.385	-0.385	-0.430	0.059	0.128	-0.009	-0.105	0.118	0.231
OTU 177	-0.065	-0.127	-0.075	0.038	0.147	-0.098	-0.209	-0.060	-0.130	-0.119
OTU 181	0.291	0.161	0.293	0.085	0.176	0.073	-0.157	0.098	-0.006	
OTU 183	-0.058	-0.091	0.104	-0.167	0.241	-0.088	0.059	-0.380	0.213	-0.023
OTU 186	0.058	0.357	0.060	0.119	0.056	-0.232	0.091	-0.114	0.083	-0.079
OTU 187	0.155	-0.082	-0.218	-0.185	-0.099	0.208	0.181	-0.092	0.002	0.365
OTU 189	0.061	-0.320	0.135	-0.041	-0.162	-0.087	-0.079	-0.205	0.263	0.108
OTU 191	-0.009	0.160	-0.115	-0.089	0.017	0.061	0.273	0.369	0.133	-0.134
OTU 194	0.117	-0.027	-0.218	-0.138	0.108	0.318	0.274	0.113	0.336	0.259
OTU 196	-0.388	-0.009	-0.298	-0.301	-0.171	-0.193	-0.034	0.109	-0.075	-0.200
OTU 197	-0.175	-0.400	-0.186	-0.013	-0.139	0.113	0.099	0.288	0.208	-0.109
OTU 199	-0.191	-0.136	-0.029	-0.418	0.328	-0.020	0.158	0.119	0.100	-0.083
OTU 200	0.020	-0.016	-0.429	-0.218	0.413	-0.011	0.203	0.161	-0.013	0.267
OTU 202	-0.086	-0.194	0.122	0.143	-0.177	-0.023	0.156	-0.211	0.211	-0.191
OTU 206	0.277	-0.167	-0.033	-0.076	0.333	0.002	-0.116	0.120	-0.030	0.269
OTU 209	0.033	-0.218	-0.181	-0.302	-0.089	0.496	0.287	0.277	0.136	0.054
OTU 210	-0.344	-0.196	-0.156	-0.139	-0.022	0.233	0.411	0.211	0.113	0.028
OTU 212	-0.633	-0.327	-0.325	-0.256	-0.060	0.217	0.096	0.112	0.159	0.021
OTU 213	0.676	0.418	0.500	0.272	0.288	-0.314	-0.567	-0.029	-0.557	-0.345
OTU 216	-0.132	0.519	0.511	0.441	0.120	-0.310	-0.168	0.089	-0.355	-0.249
OTU 218	0.043	0.585	0.579	0.488	0.172	-0.443	-0.345	0.212	-0.561	-0.461
OTU 220	-0.219	-0.528	-0.452	-0.346	-0.219	0.203	0.216	-0.210	0.173	0.370
OTU 227	-0.112	-0.493	-0.328	-0.150	-0.211	0.011	0.154	0.097	0.150	0.044
OTU 229	-0.038	-0.353	-0.254	-0.308	-0.261	0.186	0.182	-0.083	0.303	0.215

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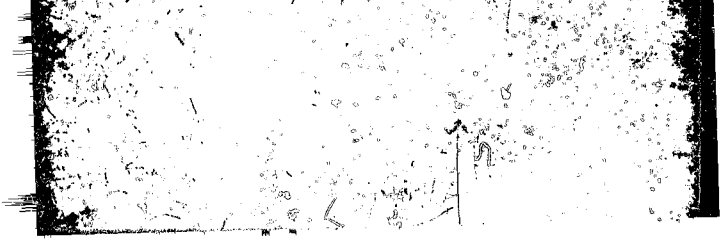


CONTINUATION OF

COMPUTE CORRELATIONS

	OTU 116	OTU 119	OTU 122	OTU 125	OTU 127	OTU 129	OTU 130	OTU 132	OTU 135	OTU 136
OTU 231	0.138	-0.309	-0.319	-0.048	0.195	0.402	0.289	0.070	0.272	0.222
OTU 234	0.091	-0.513	-0.304	-0.192	-0.380	0.267	0.237	-0.195	0.412	0.181
OTU 235	0.088	-0.395	-0.373	-0.166	-0.319	0.251	0.337	0.196	0.256	0.294
OTU 236	-0.025	-0.416	-0.294	-0.148	-0.184	0.169	0.347	-0.176	0.619	0.112
OTU 239	-0.036	-0.442	-0.492	-0.285	-0.272	0.317	0.390	0.075	0.216	0.265
OTU 241	0.139	-0.614	-0.288	-0.131	0.093	0.254	-0.105	0.040	0.309	0.030
OTU 243	0.126	-0.335	-0.350	-0.003	-0.271	0.134	0.106	0.011	0.191	0.116
OTU 244	-0.060	-0.586	-0.322	-0.399	-0.236	0.191	0.021	0.467	0.202	0.349
OTU 247	-0.034	-0.302	-0.437	-0.198	-0.984	0.108	0.280	0.089	0.235	0.183
OTU 251	-0.069	-0.513	-0.435	-0.248	-0.219	0.436	0.200	-0.053	0.509	0.246
OTU 252	-0.092	-0.225	-0.135	-0.095	-0.060	0.143	0.067	0.038	0.080	0.012
OTU 254	-0.132	-0.345	-0.168	-0.151	-0.353	0.003	0.082	-0.131	0.276	0.020
OTU 256	-0.192	-0.516	-0.359	-0.272	-0.011	0.406	0.344	-0.016	0.459	0.218
OTU 258	-0.148	-0.350	-0.179	-0.269	-0.392	-0.004	-0.238	-0.235	0.182	0.157
OTU 260	-0.135	-0.197	-0.178	-0.135	-0.098	0.084	0.149	-0.063	0.129	0.053
OTU 262	0.034	-0.184	0.010	-0.254	-0.188	0.300	0.087	-0.069	0.009	0.099
OTU 264	0.112	-0.229	-0.297	-0.070	-0.202	0.065	0.064	-0.065	0.139	0.339
OTU 266	0.086	-0.485	-0.381	-0.156	-0.334	-0.116	-0.256	-0.305	0.391	0.056
OTU 268	-0.295	-0.467	-0.333	-0.330	0.284	0.084	0.070	-0.391	0.115	0.277
OTU 270	-0.362	-0.294	-0.090	-0.393	0.016	0.058	0.077	-0.135	0.084	0.277
OTU 272	0.027	-0.169	-0.026	-0.161	-0.262	-0.023	0.171	-0.170	0.103	0.107
OTU 273	-0.132	-0.360	-0.298	-0.138	-0.373	0.167	0.273	-0.174	0.131	0.437
OTU 276	-0.052	-0.370	-0.565	-0.439	-0.299	0.096	0.199	0.030	0.298	0.173
OTU 278	-0.120	-0.397	-0.485	-0.295	-0.346	0.060	0.165	0.223	0.061	0.190
OTU 280	-0.011	-0.296	-0.197	-0.091	0.120	0.108	-0.041	-0.120	0.090	-0.086
OTU 282	-0.115	-0.206	-0.462	-0.340	-0.237	0.259	0.080	0.186	0.051	0.231
OTU 283	-0.004	-0.311	-0.484	-0.231	-0.005	0.231	0.297	-0.066	0.491	0.382
OTU 285	-0.130	-0.614	-0.367	-0.457	-0.392	0.359	0.134	-0.192	0.309	0.200
OTU 288	-0.129	-0.359	-0.338	-0.381	-0.211	-0.034	-0.139	-0.346	0.196	0.304
OTU 289	-0.040	-0.310	-0.160	0.011	-0.169	0.208	0.604	0.102	-0.066	0.132
OTU 292	-0.008	-0.141	-0.317	-0.276	-0.072	0.106	0.048	-0.195	-0.004	0.118
OTU 295	-0.143	-0.405	-0.333	-0.341	-0.120	0.188	0.281	-0.225	-0.004	0.116
OTU 296	-0.217	-0.407	-0.031	-0.116	0.196	-0.123	-0.170	0.292	-0.909	-0.061
OTU 297	-0.018	-0.405	-0.531	-0.119	0.408	0.089	-0.249	0.160	-0.348	-0.027
OTU 298	0.029	-0.336	-0.352	0.191	0.253	-0.134	-0.321	-0.017	-0.388	-0.275
OTU 301	-0.041	-0.265	-0.507	-0.232	0.237	-0.316	-0.160	-0.099	0.422	-0.217
OTU 305	0.179	-0.605	-0.330	0.353	0.322	-0.382	-0.281	-0.047	-0.341	-0.168
OTU 306	0.181	-0.540	-0.313	-0.272	-0.009	-0.581	-0.392	0.070	-0.453	-0.298
OTU 308	-0.104	-0.333	-0.336	0.209	-0.053	-0.473	-0.256	0.208	-0.340	-0.356
OTU 310	-0.16	-0.466	-0.506	0.187	0.398	-0.225	-0.281	0.286	-0.207	-0.179
OTU 311	0.030	-0.318	-0.383	0.280	0.393	-0.305	-0.542	0.056	-0.539	-0.406
OTU 313	-0.129	-0.543	-0.230	0.113	0.193	-0.391	-0.348	0.116	-0.390	-0.206
OTU 314	0.126	-0.438	-0.058	0.122	-0.051	-0.197	0.072	0.361	-0.174	-0.118
OTU 316	-0.089	-0.500	-0.321	0.347	0.162	-0.337	-0.208	0.096	-0.252	-0.337
OTU 322	0.136	-0.480	-0.329	0.326	0.485	-0.069	0.035	-0.030	-0.136	-0.193
OTU 324	-0.089	-0.397	-0.190	0.184	0.350	-0.159	-0.209	-0.228	-0.179	-0.139
OTU 326	-0.051	-0.492	-0.363	0.018	0.274	-0.225	-0.245	0.166	-0.393	-0.368
OTU 327	-0.278	-0.502	-0.267	0.108	0.018	-0.207	-0.130	-0.185	-0.260	-0.209
OTU 330	-0.023	-0.303	-0.353	0.008	0.254	-0.159	-0.450	-0.117	-0.384	-0.313
OTU 332	-0.038	0.389	0.545	0.162	0.305	-0.340	-0.450	-0.117	-0.384	-0.400

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Author Haines David William
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