# The Classification of the Greek Manuscripts of the Epistle of James 

Joel D. Awoniyi<br>Andrews University

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# Andrews University <br> Seventh-day Adventist Theological Seminary 

# THE CLASSIFICATION OF THE GREEK MANUSCRIPTS OF THE EPISTLE OF JAMES 

A Dissertation<br>Fresented in Partial Fulfillment of the Requirements for the Degree Doctor of Theology

## by

## Joel D. Awoniyi

June 1979

## OF THE EPISTLE OF JAMES

A dissertation presented in partial fulfillment of the requirements<br>for the degree<br>Doctor of Theology

by

Joel D. Awoniyi

APPROVAL $3 Y$ THE COMMITTEE


## ABSTRACT

# the classification of Ifie greek Mavescripts OF THE EPISTLE OF JAMES 

by

Joel D. Awoniyi

Chairperson: James J. C. Cox

# ABSTRACT OF GRADUATE STUDENT RESEARCE 

## Dissertation

Andrews University<br>Seventh-day Adventist Theological Seminary

Title: THE CLASSIFICATION OF THE GREEK MANUSCRIPTS OF THE EPISTLE OF JAMES

Name of researcher: Joel D. Awoniyi
Name and title of faculty adviser: James J. C. Cox, Ph.D.
Date completed: June 1979
Although a significant number of the Greek manuscripts of the Epistles of $I$ and II Peter, I, II, and III John, and Jude have recentiv received long overdue classification, oniy a very few Greek manuscrigts of the Epistle of James have been given comparable treatment.

In this dissertation, we have sought to rectify this situation by classifying 36 Greek manuscripts of the Epistle of James--primarily according to their phenetic reiationships and only secondarily according to their text-types.

In order to accomplish this, we have made use of new compifer methods.

In a recent dissertation on the classificarion of 81 Greek manu-
scripts of the Johannine epistles. W. L. Richards employed a computer to form "tentative groupinga" by Quantitative Analysis. These tentative groupings served as the basis of his classification which was determined ultimately by applying (without the aid of a computer) the Claremont Profile Mechod.

We have taken both of these procedures and combined them into a single program; and have, by means of a computer, applied this program to the raw data of our collations, and have thereby produced both the dendrographic charts and the "merge" tables which serve as the basis of our classification.

An analysis of these dendrograms and merge tables indicates three major manuscript groupings: (A) Group ? (consisting of 10 manuscripts [01-2298]). This group is probably Alexandrian in text-type. (B) Group 7 (consisting of 67 manuscripts [049-876j which may be conveniently divided into 11 suiggroups (subgroups $7^{a-k}$ ]). Subgroups $7^{a-h}$ are probably Byzantine in text-type. While subgroups $7^{i-k}$ have a distinct orientation towards the major representatives of che Byzantine text-type, they also show a certain independence in the direction of the Alexandrian text traditions. (C) Group 37 (consisting of 9 maniscripts [522-1505]). This group is patently independent of both the Byzantine and the Alexandrian text traditions.

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## ABBREVIATIONS

| ATR | Anglican Theological Review |
| :--- | :--- |
| AUSS | Andrews University Seminary Studies |
| $\underline{\text { JBL }}$ | Journal of Biblical Literature <br> JThS |
| NTS Journal of Theological Studies <br> SBL Sow Testament Studies |  |
|  |  |

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## ACKNOWLEDGEMENTS

Since I first sat in Dr. Sakae Kubo's class on text criticism in 1966, I have had a continuing interest in the manuscripts of the New Testament. For instance, my Master of Theology thesis is a comparison of the Yoruba ${ }^{1}$ translation of the book of Hebrews with the Greek text of same. This interest has now climaxed in this study of the Greek manuscripts of the Epistle of James.

Two former members of the faculty at Andrews Liniversity have given considerable attention to the text-criticism of the Catholic Epistles. Dr. Kubo wrote als joctorai dissertation on the text of I and II Peter and Jude, while Dr. W. L. Richards wrote his on the text of the three Epistles of John. I have sought to give the same kind of attention to the Epistle of James.

Dr. James J. C. Cox indicares that Andrews tniversity and Pacific Union College hope to publish in the near future text-critical studies on all the Catholic Epistles. The collations and the findings in this study, I trust, will make a user̂ul contribution to such publishing.

Sincere thanks are due Dr. Walter F. Specht for encouraging me in text-critical studies, Dr. Richards for his suggestions with respect to text-critical methodology, Dr. Leona $G$. Running for her careful
${ }^{1}$ Yoruba is spoken by over sixteen million people in West Africa. My thesis, "An Evaluative Analysis of the Yoruba Bible Translation on the Basis of the Book of Hebrews" was used by the committee which embarked on a fresh translation of the Greek New Iestament into Yoruba in 1970-74.
reading of th:is manuscript, Dr. Kubo for so kindly lending me his private collations of the Epistle of James, and Dr. Cox for his guidance in the research and writing of this dissertation.

I am most grateful for the kind help of a number of people whose assistance made possible the completion of this dissertation. Mr. LeRoy $H$. Botten and iliss Ruth Ann Plue of the Computing Center of Andrews University were most supportive in many ways. Mr. Terry Robertson checked and rechecked all of the collations and assisted in their compilation, and Mr. James K. Brower designed the basic methodological programs, fed the raw data into the computer, and produced, by means of the computer, most of the charts and dendrograms. Mrs. Vern Ferris has contributed significant personal and financial assistance, and Miss Deborah Anfenson has brought cosmos out of chaos by transforming a complex and untidy manuscript into an organized and legible typescript.

Finally, I am more grateful tinan $I$ can adequateiy express for the parience, encouragement, support, and love of my wife, Vertibelle, and my children, Andrew and Deboran.

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## INIRGDUCTION

Until quite recentiy, the only independent and substantive work on the classification of the Greek manuscripts of the Catholic Eplsties (including the Epistle of James) was that of Hermann E. von Soden.

Reviev of Relevant Rescan oh

A survey of text-critical research (especinlly with respect ro
 Epistles makes obvious the zart that the work ci vor Sodon form a watershed.

That being the case, we review, rather brietly, d; tha reievart researcin prior to voa Sodan and (2) tie relevant reseaich since von Soden.


 Alexander Duticker, is02), ep. isto-9S.

Von Socen classified the Green manuscripts of the Now Tesaineat,





 Johann J. Griesjach, as tite "By\&antine" tesi; (2) the "Hasyoimisn" (:ihicin he identified with :!e Greak letter $\because$ a ajer-cype correspondia; to those designared by iestoote and Hort as the "sentral" and "Alom:nedrana" texts; and (3) the "Jerusaiem" iwhicis de ideatificd with the brect better I), a text-type corrosbondias romblity to tiat diosigated by inestcott and Hore as tie "Nestera" cext. Ennlowiag, in general, the pria-




Prior to von Soden
Prior to von Soden, Juhann A. Bengel, ${ }^{1}$ Johann S. Semler, ${ }^{2}$ Johann J. Griesbach, ${ }^{3}$ Johann L. Hug, ${ }^{4}$ Brooke F. Westcott and Fenton I. $\therefore$. Hort, ${ }^{5}$ all of whom gave special attention to the classification of the Greek manuscripts of the New Testament as a whole, gave little or no attention to the classification of the Greek manuscripts of the Catholic Epistles in particular. Indeed, they assumed that classifications determined by a study of the Gospels andior the Paininc Epistles would apply to the Catholic Epistles equally. ${ }^{6}$
${ }^{1}$ See the sumary of his text-critical principles in the preface to his comentary, Enomon Novi Testamenti (Tübingen, iJt2), and the application of these principles in his text, fovun pestamentum veace (Tüingen, 173i).

2
${ }^{2}$ His text-critical coments are to be found in his Netstenii libelli ad cr: - atque intereretacionem Vovi Testamenti (itale, i64): and his classificat of the leek manuscripes of tee New restament in his Apparatis adi - jeralem Sovi Testamenti interprecationom asile, 1767).
${ }^{3}$ Griesbaci's elassification is set forth in his Symotae Criticae ad suppie:das et corrigendus variarum $\mathrm{A} . \mathrm{T}$. Jectionum coliecinome i? vols.; Haile, 7 (5s-93), and his Comenearius Criticus in rextum Graecum Novi Yestamenci (Jena, 1i98-i31i).
${ }^{4}$ His now system of recensions is proposed in his Einleitume in

${ }^{5}$ Westcott's and Hort's system of classification is cuplained in The New Testarenc in the Original Greek. Vol. 2: Introducion ari drpendix (2nd ea.; New Yorik and London: Macmillan, iś96).
${ }^{6}$ On the purticular contributions of all these text-criti.s. with respect to the viassification of the Greek manuscripts of the Sew Testament, see, among others. Jack Finegan, Encountering Sov Testiment Manuscripts: A Workine introduction to Textual Criticism (Grand Rapids: Eerdmans, 197\%), pp. bl-uj; j. Harold Greenlee, intenduction to fev Testament Texthal Criticism Grand Rapids: Eerdians, i964), pp. i2-it; Werner Georg Kümel, Fe Vew Testament: The history of the Investigation of its Problems, trans. Jy S. NeClean dilmour and iowari C. See (Nashville and New York: Abingdon Press, 1972), pp. 47-48, 62-59. $14-$ 75, 185-86; and Bruce M. Metzger, The Text of the New Tostament: [ts Transmission, Corruntion. and Restoration (2nd id.; Sew York and oxford: Oxford Liniversify Press, 1968), pp. 112-13, 115, 119-22.

## Since von Soden

Since von Soden, of those who have given special attention co the classification of the Greek manuscripts of the New Testament, or a part thereof, only Sakae Kubo, ${ }^{1}$ Wayne A. Blakely, ${ }^{2}$ Muriel M. Carder, ${ }^{3}$ and W. L. Richards ${ }^{4}$ have done major work ${ }^{5}$ on the Greek manuscripts of the Catholic Epistles; and, of these, none has attempted to classify the Greek manuscripts of the Epistle of James. ${ }^{6}$
$1_{p} 72$ and the Codex Vaticanus, Studies and Documents, 27, ed. by Jacob Feerlings (Salt Lake CiEy: University of Utah Press, 1965).
${ }^{2}$ Manuscript Relationships as Indicated by the Epistles or Jude and II Peter," - そols. (Dh.D. dissertation, Emory lniversity, 1964).

3"An Enquiry into the Textual Transmission of the Catholic Epistles" (Th.D. dissertation, Victoria University, 1958).

4 The Classificatinn of the Greek Manuscrizts of the Johannine Epistles, SBL Pinctation Series, 35 , ed. jy H. C. Lee and D. A. Knight (ilisscuia, Montant: Schoiars Press, i97i).
${ }^{5}$ Others have contributed siorter and more specialized studies. For example, note the essays jy 1 . - J. Lagrange, incroduction ì l'atude du Nouveau Testament: Deuxième partie: Critique textuelie, if, La critique rat aneil: (Paris: Gabaida, 1935): jean Duplacy, "te taxte occidental iiss ipitres Catholic̣ues," XTS 16 (i970), $297-90 ;$ and i. T, Gallagher, "t Study of von Soden's t-Text in the Catholic Epistles," AUSS 8 (1970), 97-119.
${ }^{6}$ Others since von Soden have given considerable attention to the classification of the Greek manuscripts of the New Testament, especially the manuscripts of the Synoptic Gospeis and ?auline Episties. Sote, for example, the studies of Burnett $H$. Streeter The Eour Gospels: A Study of Origins (New fori ani London: Vacmillan, 1924; 9th inpression revised, 1956j): Hans Lietzmann (Einführung in die Textgescinichte der Paulusbriefe, in die Römer, vol. 3 , in the series iandouch zua ieuen Testament [Tüingen: j. C. B. Mohr (Paul Siebeck), Ind ed., i919!); Paul R. McReynolds ("The Claremont Profile Yethod and tie Groupinas of Byzantine New Testament lianuscripts" [Ph.D. dissertation. Claremone Graduate School, 19631): and Frederik Nisse ('The Claremont Protile Method for the Classification of the Byzantine New [estament hanuscripts: A Study in lethod" PPh.D. dissertation, Claremont Graduate School, 1963]). Sut none of these sciolars has dealt with the manuscripts of the Catholic Epistles in general, or the Epistle of james in particular.

## The Epistle of James

To date, apart from the work of von Soden, the only text-critical observations which include any reference to the classification of the Greek manuscripts of the Epistle of James that are worthy of note here are the following:

1. M.-J. Lagrange, Introduction à I'étude du Nouveau Testament: Deuxiène partie: Critique textuelle, II, La critique rationnelle (Paris: Gabalda, 1935). Lagrange discusses von Soden's methodology: and conclusions and raises serious questions concerning his proposed I-text and his deteraination of sub-groups on the basis of incomplete collations. In the process he draws heavily on tine Greek manuscripts of the Epistie of James to support his arguments.
2. Joseon B. Yayor, The Epistle oESt. James: Ghe Greek mext with Introduc:. $\therefore$ Yotes, Coments London: YacMillan, 1913 ; reprint, Grand Rapids: Zondervan, 1954), pp. cclaxx-ccixxxix. Mayor, who gives an annotated list of ten uncials (B, K, A, C, K, L, 卫, ב [now 048], :' and S) and notes that Caspar R. Gregory gives a list of " 416 :1SS. of the Acts and Catholic Epistles," merely observes, on the question of classification, in patent dependence on westcott and Hort. and apparently with Euil approval, that Codex Vaticarus (B) "is generaily regarded as the most valuable of all the ASS. containing a pure DreSyrian text" ${ }^{2}$ and that Codex Sinaiticus ( $\mathrm{H}^{2}$ ) is "the most valuable MS. after $B$, giving in che main a Pre-Syrian text but to a certain extent compped by Western and Alexandrian readings."3
${ }^{1}$ Die griariniscien Handschriften des Veven Testaments (Leipzig: Hinrichs, 1908!.
${ }^{2}$ St. James. p. celxxx. ${ }^{3}$ Ibid., p. celxxxi.
3. Janes H. Ropes, A Critical and Exegetical Commentary on the Epistle si St. James, International Critical Commentary, 40 (Edinburgin: T. \& T. Clark, 1916), pp. 74-86. Ropes, who lists two papyri ( ${ }^{21}$ [sic], ${ }^{1}$ and $\mathrm{P}^{[23]}$ ), ${ }^{2}$ twelve uncials (B, K, A, C, 048, 0166, [0173], $K^{c}, \Psi, S, K, L$, and $P$ ), and two ninuscules (33 and 69 ), and refers to "about four hundred and seventy-five manuscripts dating from the tenth to the eighteenth centuries . . . enumerated in the lists of Gregory and H. von Soden, ${ }^{3}$ oriefly notes, with respect to the matter of classification, also in obvious dependence on Nestcott and Hort, that "the chief groups that can at present be treated as distinct critical entities are $B$ ff, A 33 , KLPS al. (the 'Antiocian recension')," and adds that the "statenent of Hort ['Introduction,' ?. 171], wich seems to mean that the authorities for the Catholic Epistles stand in order of excellence $\mathrm{E} N 33 \mathrm{CA} \mathrm{P}$, is substantiated (at any rate for the uncials) in che Epistle of James. ${ }^{\prime \prime}$
4. M. -ineli:A, James: t Commentary on the Epistle of James,
rev. by H. Greeven, trans. by M. A. Filliams, and ed. by f. Koestex (Philadelphia: Fortress Press, 1976), pp. 57-61. Pibelius, :ho
${ }^{1}$ No doubt this should read $\mathrm{p}^{20}$. Ropes also identifies the papyrus intended as Oxprhynchus 1171 which is regularly given the sisium p20. The fragmertary manuscript designated ? 20 does, in Eact, contain Jas. 2:19-3:9. $\mathbf{Z}^{2}$ (otherwise designared as Uxyrnynchus 1227) cuntains only :latt. 12:24-26, 31-33.

See B. P. Grenfell and A. S. Hunt, The Ozyrhuncinus Papyri (London, 1898ff.), vol. Q, pp. G-II (for ?. OXF. $1171=920$, and voi. 10 , pp. 12-14 (for P. Oxy. $1227=\mathrm{P} 21$ ); aiso Metzger, the text of the vety Testament, ?. 249 .
${ }^{2}$ Ropes on'y gives the designation, "Oxyrhynchus 1220," (p. 74). But this is nore commonly identificd by the siglum $\mathrm{P}^{23}$. Sce Greniell and Hunt, The oxprhyechus Papori, vol; 10, pp. 16-18, and Metzrer, The Text of the New restament, p. -49. p-3 contains Jas. i:10-12, i5-i8.

$$
{ }^{3} \text { St. James, p. } 75 . \quad{ }^{4} \text { Itid. , pp. 85-36. }
$$

enumerates an annotated list of four papyri ( $\mathrm{P}^{20}, \mathrm{p}^{23}, \mathrm{P}^{54}$, and $\mathrm{P}^{74}$ ), ten uncials ( $B, K, A, C, K, L, P, Y, 0166$, and 0173), and four minuscules (33, 81, 1175, and 1739), ${ }^{1}$ clearly indicates with unquestionable dependence on von Soden, that $\mathrm{P}^{23},{ }^{2} \mathrm{P}^{54},{ }^{3} \mathrm{p}^{74},{ }^{4} \mathrm{~B},{ }^{5} \mathrm{~K},{ }^{6} \mathrm{~A},{ }^{7}$ y, $33,{ }^{8}$ 81, and 1175 represent the "Egyptian" text, while $k$, $L$, and $P^{9}$ represent the "Koine."
5. J. T. Gallagher, 'A Study of von Soden's H-Text in the Catholic Epistles," AUSS 8 (1970): 97-119. Gallagher, who employs "a modi-
${ }^{1}$ Dibelius reveals a common prejudice against the byzantine minuscules when he states $: \therefore a \mathrm{he}$ mentions "only a :ew [minuscuies) in the commentary, and never =hose with the Koine text" (James, ?. 58).

2"Both this papyrus fragment and the others listed below [ $\mathrm{p}^{20}$, $p^{54}$, and $\left.\mathrm{P}^{74}\right]$ represen for the gust part the 'Egyptian' text-type" (ibid., p. j3).

3This text "foilows B K C Eor the most part" (ibic., p. j8).
${ }^{4}{ }^{7} 74$ "displays a close kinship to $A$, although it also contains many special readings" (ibid., p. 58).
${ }^{5}$ "This is undoubtedly the best witness oit the best text-type, viz., the Egyptian text-type: but that does not mean zhat it is infallible. . . . The cases where B as peculiarities in conmon with the valuable Latin menuscript Corbeiensis ( $=$ fig) arouse suspicion (e.g., 2:3, 4; 5:20) or at least uncertainty (ci.2:19)" (ibid., p. 57).
$6^{\prime \prime}$ This manuscript is cuite closely retated to 3 and is a very valuable witness, but it manifests mere obvious mistakes than does 3 . In addition, traces of the so-called ' ${ }^{\prime}$ oine' text-type are found ir it (2:3; 2:20)" (ibid., ?. 57).

7". . . Careful consideration must be given those instances vikere, as in 5:3, A agrees with other witnesses of the 'egyptian' text ḑainj: $B$ and K. . . . More problematic, but at the same time more characteristic for $A$, are the instances wiere Aagrees with a Latin version" (ibid., p. 53).
$8^{\prime \prime}$ This is the most valuable of the minuscules, and is rela di to minuscule 326 (Oxiord). 3oth 33 and $\because$ represent in generai the 'Fgyptian' text, with rortain deviations in the ditection of the 'Koine' text" (ibid., p. 58).

8"p offers the $̈$ öne text very irequent I , althourth it also often follows the Egyptian witnesses (so that von Soden grouped it with the latter)" (ibid., p. 58).
fication of the 'Multiple Reading Method':'1 proposed by F. C. Colwell, ${ }^{2}$ tests von Soden's classification of two important manuscripts of the Epistle of James (viz., $P$ and 1739) and concludes that von Soden was "wrong" in excluding manuscript 1739 Erom his H-text but "correct" in including manuscript $p$ in that rext-group. ${ }^{3}$
6. At this juncture, mention sho:ld be made of the extensive text-critical studies on the Cathollc Epistles being carried out presently at the Institut für neutestanentliche Jutiorschung in Münster, Germany.

It is too early to evaluate that work, but one thing is clear (as Richards points out ${ }^{4}$ ): Kurt Aland, the director of the Institute, is not especially concerned with the history of the text; his main goal, as a text-critic, is =o get back to the original text. ${ }^{5}$ Eor Aland,
1.von Sujen's h-Text," p. 98.
${ }^{2}$ E. C. Culwe?, 'Method in Locating a Newly-Discnvered Maruscript," and "foth :n Establisting Relationsinips jetween Fevt-T"pes of New Testament Ma.. :ipts," Studies in Mechoduiogy in Eexuaj Criticism of the Yew Testament, Sew Testament Tools and Etudies, O, ed. Jy Bruce M. Meteger (ieiden: E. J. Brill, :969), pp. 26-i4 ani 5́-62, respectively.

3"Therefore, the conclusion must be that von Soden was wroug to exclude 1739 from the $H-t e x t$ of James. At the same time he seems $=0$ have been correct in including $P$ in this group. inile $P$ offers weak attestation to the titext, it is quite certainly part of the H -text group in distinction to the other non-H manuscripts used in this study" ("Von Soien's i-Text," 2p. L06-i).
${ }^{4}$ Classification, ?p. 7-9.
${ }^{5}$ See Kurt Aland, "The Significance of the Papyri for New Testament Research," The Bible in Modern Schoharsinig, ed. by J. Philip Hyatt (Nashville aad New York: Abingion Press. 1965), p. 34 ; and "Die Kionsequenzen der neueren Handschriftentunde für die neutestamentliche Textkritik," Studien zur Überlieter:ng: des Neuen Testaments unci seines Textes, Arbeiten zur neutestamenclichen Textiorschunc, - (Berlin: Walter de Gruycer, 1967), pp. 180-201. This observation should no dotibt be modified by the fact that in 1970 Aland remarked that the text-
pragmatically there are only two text-types: (1) the original text (defined as "the text-form in which the NT writings were officially put into circulation"), ${ }^{1}$ and (2) the Byzantine (designated as the "Majority" text, about 90 per cent of which can be "practicaliy disregarded." $)^{2}$

## Statement of Purpose

The time is ripe for a fresh, independent, and thorouih attempt at classifying the Greek manuscripts of the Epistle of James. Tinis is so because:

1. No one has attempted such since von Soden.
2. It is now rather widely recognized that noth von Soden's methcis and inc classifications need considerable correstion. ${ }^{3}$
3. As the result of nore recent analysis, it is now clear that a classificarion uincimay be suitablefor nne section oi tine lew Tostameat (e.g., the Grspeis andor the Eistles of Jaul) may act be so for another section (a.g., the Catholic Epistles), ur that a classizication that may be anyropriate for one book of a given saction íe.g., : Peter,
[^0]II Peter, or Jude) may not be so for another book of that section (e.g., James). ${ }^{1}$
4. New and better methods ot classification have been developed which have nor, as yet, been applied to the Epistle of James.

It is the intention of this study to provide the "Eresh, independent, and thorough" classification of the Greek manuscrints of the Epistle of James called for above. In the process we plan to test the "new and better methods of classification," referred to under item 4, by employing nciv computer tecinniques.
$I_{\text {For exprict }}$ ith respect to the Greck manuserints of the Catiolic Epistles, if the findings of Kubo and Galiagher are sound, then the Epistle of James, as it occurs in MS P, belongs mith von Socien's t-cert, but the First and Second Episties of Peter and the Epistle of jude do not. See "Von Soden's H-̌er," ?p. iOC-7.

## CHAPTER I

## MATERIALS ind METHODS

## Materials

Out of approximately $600^{1}$ known Greek manuscripts which contain the Catholic Epistles, 86 were chosen for this study. These 86 manuscripts, though representing only 14.33 percent of all the jnown nanuscripts, represent adequately the total number. Previous studies have shown that after a certain point additional mancripts make little or no difference in the overail picture. In other words, all extant manuscripts nond not be examined in order to determine the classification of the unuscript Eradition of a book. ${ }^{2}$ The 86 manuscripts used in this study have been chosen primarily from the mantscripts aiassified by von Soden. Other manuscripts (25 in number) ware selected on the basis of their accessibility in order to ansure adequate representation.

Thougi von Soden's work nas become the brunt of much criticism, it was the first major attempt at classifying the Catholic Epistles,
${ }^{1}$ Kurt Aland, Kurjgeiasste Liste der griechischen Handschriften des Neuen Testaments, Arbeiten iur neutestamentichen textionschunf, vol. I (Berlin: Walter de Gruyter \& Co., 1963).
${ }^{2}$ Cf. Ricbards, Classification, p. 13: McReynolds, "The Claremont Profile Method," pp. 6, 92; anc Kubu, "Tuxtual Relationsinips in jude," Studies in New restament Lansuaye and iext, di. J. K. Elliote (Leiden: E. J. Brill, 1976), pp. 2i6-82.
and, apart from its well-known inaccuracies, ${ }^{1}$ it affords a natural starting point. Any attempt at the classification of the Greek manuscripts of the Catholic Epistles should give due consideration to the work of von Soden. ${ }^{2}$

On pp. 16-ig we list the S6manuscripts collated and classified in this study. The first column gives the Gregory numbers of the manuscripts, the second, their respective dates (according to Aland ${ }^{3}$ ), the third, $\because o n$ Soden's classification, and the last, the names of those responsible for the collations employed. It will be noted that we are indebted so others (Kenneti ix. Clark, ${ }^{4}$ Kubo, ${ }^{5}$ K. Lake, ${ }^{6}$ and 5. . Scrivener ${ }^{7}$ ) Eor 28 of the 36 collations used. The remainder of the manuscripts were collared at isast twice and then sarefully compared and corrected.

## Metiods

[^1]criticism. Bengel was the Eirst to suggest the theory of textual families, dividing his manuscripts into Asiatic and African clusters. Then Semler, under the influence of his teacher, Bengel, suggested a division into Oriental, Western, and Alexancirian traditions. But the foundational work for modern textual criticism was done by Griesbach, a student of Semler, who produced the Eirst published manuscript classification in 1775-1777, identifying Constantinopolitan and Alexandrian readings.

Westcott and fort developed the "genealogical method" and based it on MS O1 and MS 03. Thereupon, $\because o n$ Soden prociuced a sompreinensive system of manuscript groupings. He advanced a theory of thrae great recensions. Forking genealosically with the manuscript fradition , he identified many late medieval manuscripts oith the Nappa $\quad$ Eext tradition and classifiec a significant numier of manuscripts as distinct from both the Kappa and Beta groups. These Eormed his Iota group.

Von Soci.a's work is important in that it marks a significant change of direction in text-critical studies. Blakely states:

Von Soden's rincle approacin to the atorevioz is based upon the premise that the Catholics and icts were a literary unity before the three sreat recensions took ?iace. Fherefore, it was not necessary for him to determine manuscripe reiationsinps in each epistle or Even in the Catholic corpus. fith oniy minor exceptions, once the manuscripts aad jeen classified any place within the Acts-Catholics, that same zrouping wis considered raiki througiout. Conscquently, the distinctive eext-type readings in the epistles of jude and II Peter--or for that mater, any place in either the Acts or the Catholics-are not necessarily distinctive text-type readings in these epistles. They actually ire nothing other than those readinss in which the majurity of the manuscripts classiried together eisewhere are agreed in these episties. ${ }^{1}$

The search for better methods has continued. Considerable rrog-

Blakeiy, "Manuscript Relationships," pp. 426-27.
ress has been made since Hutton ${ }^{1}$ first proposed his "triple readings" method--Colwel1 ${ }^{2}$ has proposed his "multiple readings" method, and McReynolds ${ }^{3}$ and $:$ iisse ${ }^{4}$ their "profile" method. Xore recently Richards ${ }^{\text {² }}$ has developed a combination of the "quantitative analysis" and "profile" methods. ${ }^{6}$

Richards has outlined three basic approaches employed in modern textual criticism: ${ }^{7}$

1. The attempt to classify aanuscripts "on the basis of a few carefully selected readincs." This is the method used by Aland. Fhile it is true that. iland's purpose is not manuscript classification per se, his scarch Eor the representative mancripts for in apparatus criticus "amounts 0 ciassification of a kinc."
2. The attempt to classif $\because$ manuscripts "on the basis of a proEile of selscred readings, in ainich tiz criteria Eor the seiection of readings cail for a large number of readincs vis-j-vis Aland's method." This is the Clazemont Prozile Yethod.
3. The attempt to EiassiE: fanuscripts "on the jasis of . . . closeress in percontage of asreement with other manuscripts, that is, on the basis oi quantitative anaiYsis."
${ }^{1}$ Edvard A. Button, in itlas of Textual Cricicism (Cambridge: University Press, loll).

2Method in Locating," pp. 27-28.
3"Claremont Profile Ierhod," passim.
4"Claremort Prorile Method," pasim.
5
Classifi $\because$ ation, passim.
'See Richards' discussion of the development in methods of classification since futton. Classificaijon, ?p. iO-25.
${ }^{7}$ Ibid., pp. 24-25.

In this study methods (2) and (3) are combined and employed in a singie process.

## The Master Sheet

After the collations had been compared and corrected, each variant and its manuscript support was recorded on a flaster Sheet. 1 Singular readings, i.e., readings where the variant has the support oi only one manuscript, $\because e r e ~ d i s c a r d e d, ?$ as were the readings supported by only two or three manuscripts, nu-movables, and obvious errors of spelling.

There are Eur parts to the Aaster Sineet.

1. Space in minich to incicate (a) tie number of the "anit of variation" (e.s., Unit 5l), and (b) the "reEerence" rinere the variant irvolvad occurs $(\leq .5 .,[J a m e s!2: 17)]^{3}$
2. Space Eor iisting the "readinss" (e.g., Reading i. TR: APO; Reading 2. PARi4; , Bote that the reading of the Rextus Recoptus (TR) ${ }^{\text { }}$ is alwies lie first reading.
3. Space Eor indicating the "nature of the reading," i.e., the nature of the reading as it varies vis-àvis the reading of tie -5 (e.g., an $x$ in box 3 indicates that the preposition JARA is suj-
$1_{\text {See ?. }}$ : 0 iur a sample laster Sheet.
${ }^{2}$ See $\because . \quad$ El Eor the statistics on "singuiar readings."
3 All the "uits of variation" cogetner with their supporting manuscripts are listed in detail on pp. 59-131.
${ }^{4}$ Since the computer printer is not equipped to print in Greek type, the Greak is transliterated; and since there are no exact Enylish equivalents for sone letters of the Greek alpiabet, the followinh substitutes are used: the Eipure "S" represents the Greek " 7 ," the EngIish "w" stands Eo: the Grenk "," " the Greek "a" is represented by the En: : ish "ch," and the Greek "j" by the Encislish ":h."
$\bar{j}_{\text {ine }}$ TR reading is that of the oxford 1873 edition.
stituted $^{1}$ in the manuscripts indicated [MSS 5104216383424440467 48962392713151845 1883] for the preposition APO, the reading of the TR,and the other manuscripts incicated [TR: MSS 010203020044 0496385159 104 etc.1). ${ }^{2}$
4. Space for indicating the "questionable evidence." ${ }^{3}$

In the discussion which follows, reference will be made to what are called for convenience SOLL readings. The acronym SOLL is to de interpreted as Eollows: $S=$ Singular zeading; $0=$ Omission; $\dot{U}=a n$ Unclear or Unicertifiable reading; ond i indirares that there is a Lacuna in the manuscript at the piace indicated.

Once the basic evicence had been organized jy means of the Master Sheets, it was transiezred to compucer cards for processing.'
${ }^{1}$ The key Eor interpreting the significance of boxes $1-5$ is given on the Saster Sheet: $1=$ Adcition: $2=1$ mission: $\mathfrak{j}=$ Substitution: 4 = Transposition; $\bar{y}=$ Yerb Change; and 5 = Case Change.

2
Tine statistics of the data organized under this heading, :ature of the Readinf, ire zajulated by (a) manuscript (see the tables on pp. 22-23) and (b) "anit of variation" (see the tables un pp. ́a-25). The abbreviations employed are to be uncerstocd as Eoijors: id =Adition: OM = Omission; $S B=$ Substitution; $T R=$ Transposition; $: C=$ Verb Change; and $C C=$ Case Ciange.
${ }^{3}$ The key for interpreting the siz bowes under the heading "Questionable Evidene" : 弓iven on the Master Sheer: $:=$ Su-movades; $2=$ Reading of ac more than $2-3$ manuscripes; 3 = Obvious itacisms; $4=$ Personal prrnouns; and o = Stylistic pateerns.
${ }^{4}$ The programs wicin determined the processing are described in detail in Chapuer III.

MANUSCRIPTS USED IN THIS STUDY

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Gregory Number | Date | Von Soden's | Classification |

Manuscripts Used in This Study (cont.)

|  | Gregory Number | Date | Von Soden's Classification | Collators |
| :---: | :---: | :---: | :---: | :---: |
| 24. | 323 | XI | $I^{\text {b? }}$ | Kubo |
| 25. | 337 | XII | $I^{33}$ | Awoniyi |
| 26. | 378 | XII | $\mathrm{I}^{\text {c2 }}$ | Awoniyi |
| 27. | 383 | XIII | $I^{\text {c2 }}$ | Awoniyi |
| 28. | 395 | 1407 | $I^{20}$ | Awoniyi |
| 29. | 424 | XI | H | Awoniyi |
| 30. | 440 | XII | $I^{52}$ | Kubo |
| 31. | 467 | XV | $I^{\text {a }}$ | Awoniyi |
| 32. | 479 | XiII | $\mathrm{K}^{\text {c }}$ | Scrivener |
| 33. | 483 | 1295 | $K^{\text {c }}$ | Scrivener |
| 34. | 489 | 1316 | $I^{\text {a }}$ | Scrivener |
| 35. | 491 | XI | $I^{\text {b2 }}$ | Awoniyi |
| 36. | 522 | 1515/10 | $L^{31}$ | Awoniyi |
| 37. | 547 | XI | $I^{23}$ | Awoniyi |
| 38. | 614 | XIII | $\mathrm{i}^{\mathrm{c} 2}$ | Kubo |
| 39. | 623 | 1037 | $I^{\text {a }}$ | Kubo |
| 40. | 542 | XV | $1^{\text {a3 }}$ | Scrivener |
| 41. | 643 | XIV | -- | Scrivener |
| 42. | 876 | XII | $I^{\text {c2 }}$ | Clark |
| 43. | 917 | XII | $\mathrm{I}^{\text {a }}$ | Kubo |
| 44. | 920 | X | ${ }_{1} 93$ | Kubo |
| 45. | 927 | 1133 | $\mathrm{I}^{\text {a }}$ | Awoniyi |
| 46. | 959 | 1331 | -- | Awoniyi |

Manuscripts ised in This Study (cont.)

|  | Giregory Number | Date | Yon Soden's Classification | Collators |
| :---: | :---: | :---: | :---: | :---: |
| 47. | 999 | XIII | $I^{\text {a }}$ | Awoniyi |
| 48. | 1022 | XIV | -- | Clark |
| 49. | 1175 | XI | 4 | Awoniyi |
| 50. | 1240 | XII | -- | Awoniyi |
| 51. | 1241 | XII | -- | Awoniy: |
| 52. | 1243 | XI | -- | Awoniyi |
| 53. | 1245 | XII | $I^{01}$ | Awoniyi |
| 54. | 1247 | XV | -- | Awoniyi |
| 55. | 1248 | XIV | -- | Awoniyi |
| 56. | 1249 | XIV | -- | Awoniyi |
| 57. | 1315 | XII | -- | Awoniyi |
| 58. | 1319 | XII | $I^{33}$ | Awoniyi |
| 59. | 1424 | IX/X | -- | Awoniyi |
| 60. | :503 | 1317 | -- | Awoniyi |
| 61. | 1505 | 1084 | -- | Awoniyi |
| 62. | 1522 | XI | $r^{3} 3$ | Scrivener |
| 63. | 1597 | 1289 | -- | Awoniyi |
| 64. | 1610 | 1364 | $I^{c 2}$ | Awoniyi |
| 65. | 1611 | XII | $I^{C 1}$ | Awoniyi |
| 66. | 1735 | XI/XII | -- | Kubo |
| 67. | 1738 | XI | $I^{\text {a3 }}$ | Awoniyi |
| 68. | 1739 | X | $I^{\text {b2 }}$ | Lake |
| 69. | 1799 | XII/XIII | -- | Clark |

Manuscripts Used in This Study (cont.)

|  |  |  |  |  |
| :--- | :---: | :---: | :---: | :--- |
|  | Gregory Number | Date | Von Soden's | Classification |

## MASTER SHEET

Unit of Variatinn: 51

Reference: 1:17
I. Readings:

1. TR: APO
2. PARA
3. 
4. 

II. Nature of the Reading:
[■ 2 $\because$ 4— 5 5—
III. Questionable Fyidence:


|  | KE.Y |
| :---: | :---: |
|  | ```MSS Neutraljized by SouL: S: Singular: Readings 0: Omission U: Unidentificd L: Lacuna``` |
| II. | Nature of Readins: <br> 1. Addivion <br> 2. Onission <br> 3. Substitatinn <br> 4. Transposition <br> 5. Verb Chame <br> 6. Case Change |
| III. | Questionable Eridence: |
|  | i. Su-movatles |
|  | 2. Rearing oi - -j $\because$ " |
|  | 3. Obvious ilackiam |
|  | 4. Ouestionable itarism; |
|  | 5. Fersonal Sroncuas |
|  | 6. Stylistic patrane |


| :15 | koc |
| :---: | :---: |
| 01 | - |
| 02 | 1 |
| 03 | 1 |
| 020 | 1 |
| 044 | 1 |
|  |  |
| 5 | $\cdots$ |
| 6 | 1 |
| 38 | 1 |
| 51 | 1 |
| 69 | 1 |
| 104 | $1:$ |
| 11.7 | . |
| 201 | 1 |
| 203 | 1 |



The Singulafis


| MS | AD | OM | SB | T? | VC | CC | TOT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01 | 10 | 26 | 13 | 6 | 0 | 4 | 59 |
| 02 | $1!$ | 28 | 11 | 7 | 1 | 2 | 60 |
| 03 | 8 | 35 | 12 | 7 | 2 | 5 | 59 |
| 020 | 4 | 11 | 1 | 1 | ? | 1 | 18 |
| 044 | 7 | 24 | 14 | $\sigma$ | i | 2 | 54 |
| 049 | 3 | 9 | 1 | 2 | 1 | 1 | 17 |
| 5 | 11 | 12 | 9 | 6 | 0 | i | 39 |
| 6 | 3 | 11 | 3 | $i$ | 1 | 1 | 20 |
| 38 | 3 | 10 | 2 | $?$ | 1 | 2 | 20 |
| 51 | 7 | 7 | 2 | 2 | 1 | 2 | 21 |
| 69 | 10 | 11 | 4 | 7 | 2 | 2 | 36 |
| 104 | 6 | 10 | 5 | $i$ | i | 2 | 25 |
| 177 | 3 | 11 | 3 | 1 | , | 2 | $? 1$ |
| 201 | $j$ | 11 | 3 | 1 | ? | 1 | 19 |
| 203 | 4 | 0 | $?$ | 1 | $\underline{\square}$ | i | 17 |
| 206 | i3 | 27 | 14 | 10 | $?$ | 1 | 05 |
| 209 | 3 |  | 3 | 1 | $?$ | 2 | 16 |
| 216 | 5 | $\delta$ | 4 | 4 | ? | 1 | 22 |
| 223 | $?$ | 7 | $?$ | 2 | i | $?$ | $=1$ |
| 226 | $\overline{5}$ | i 1 | 1 | $?$ | $?$ | 1 | 18 |
| $? 63$ | 4 | 11 | 2 | 1 | i | 2 | 21 |
| 307 | 9 | 14 | 2 | 5 |  | 1 | 31 |
| 319 | 4 | 10 | 3 | $i$ | $n$ | $?$ | 20 |
| 323 | 7 | 14 | 6 | 3 | ; | 2 | 33 |
| 337 | ミ | ii | 3 | i |  | 2 | 21 |
| 378 | 9 | : 3 | i1 | 7 | ? | 3 | 43 |
| 383 | 3 | ir | $?$ | 1 | $i$ | 3 | 20 |
| 385 | 3 |  | $\bigcirc$ | i | i | 1 | 17 |
| 424 | 4 | $\bigcirc$ | $?$ | 4 | 1 | 1 | 21 |
| 440 | 0 | 7 | 5 | 4 | ? | i | 23 |
| 467 | 0 | 14 | 4 | $?$ | 1 | 1 | 26 |
| 479 | 3 | 12 | 3 | $i$ | $?$ | 1 | 20 |
| 483 | 0 | ó | 1 | 2 | 1 | 1 | 17 |
| 489 | 3 | i2 | $i$ | 2 |  | 3 | 22 |
| 491 | 3 | 4 | 3 | i | ? | 2 | i3 |
| 522 | 12 | 24 | 17 | i1 | $?$ | 2 | 66 |
| 547 | 3 | 8 | 2 | 3 | $?$ | 1 | 17 |
| 614 | 14 | $=5$ | i6 | 10 | 1 | 4 | 70 |
| 623 | 14 | 15 | 9 | 7 | 0 | 1 | 44 |
| 642 | 8 | 11 | 5 | $?$ | 1 | 1 | 28 |
| 643 | 4 | 9 | 3 | $?$ | $i$ | 1 | $? 0$ |
| 876 | i 1 | 11 | 7 | 4 | i | 3 | 37 |
| 917 | 3 | 12 | 2 | 1 | $\bigcirc$ | 1 | 19 |
| 920 | 2 | 6 | 1 | 1 | 1 | 1 | 14 |


| MS | $A D$ | OM | SB | T | VC | CC | TOT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 927 | 3 | 12 | 1 | 2 | 1 | 31 | 22 |
| 959 | 8 | 9 | 2 | 2 | $\bigcirc$ | 31 | 24 |
| 999 | 5 | 9 | 5 | 1 | 0 | $4 i$ | 24 |
| 1022 | 4 | 5 | 1 | 4 | 1 | $2 i$ | 17 |
| 1175 | 12 | 24 | 14 | 7 | i | 5 i | 63 |
| 1240 | 2 | 8 | 2 | 1 | 1 | 21 | 16 |
| 1241 | 12 | 27 | 17 | 9 | 1 | 41 | 70 |
| 1243 | 10 | 20 | 8 | 6 | 1 | 2 i | 53 |
| 1245 | 4 | 8 | 1 | 4 | 1 | 21 | ? 0 |
| 1247 | 5 | 10 | 4 | 1 | 0 | 2 | 22 |
| 1248 | 4 | 12 | 3 | 1 | 0 | 1 | 21 |
| 1249 | 4 | 11 | 2 | 1 | $?$ | 1 i | 19 |
| 1315 | 6 | 10 | 4 | 4 | 0 | 1 | 25 |
| 1319 | 2 | 10 | 3 | $i$ | 1 | 2 | 19 |
| 1424 | $?$ | 9 | 1 | 1 | 1 | 2 | $i 6$ |
| 1503 | 3 | 12 | 3 | 1 | 0 | 1 | 20 |
| 1505 | i5 | 26 | 19 | $1 i$ | $?$ | 6 | 79 |
| 1522 | i1 | 25 | i8 | \% | 1 | 4 | 67 |
| 1597 | 4 | 13 | 3 | 2 | $i$ | 1 1 | 24 |
| 1610 | 5 | 12 | 5 | 2 | ; | 2 | 27 |
| 1611 | 14 | 22 | 14 | $1 i$ | i | 31 | 05 |
| 1735 | 12 | 17 | ;1 | 9 | $?$ | 1 | 50 |
| 1738 | 3 | 8 | 3 | i | $i$ | 2 | ¢8 |
| 1739 | 14 | 26 | 20 | 8 | $!$ | 31 | 72 |
| 1799 | 17 | 26 | 15 | 11 | $?$ | 2 | 06 |
| 1827 | 7 | 11 | 4 | 1 | 1 | 5 | $? 9$ |
| 1829 | 3 | 12 | $i$ | $?$ | $\cdots$ | 1 | 19 |
| 1845 | 13 | 14 | 8 | 7 | $?$ | 1 | 43 |
| 1854 | 3 | 10 | i | 2 | i | 11 | 18 |
| 1874 | $?$ | 12 | 2 | i | i | 1 | 19 |
| 1876 | 4 | 13 | 3 | 1 | $?$ | 1 ! | 22 |
| 1888 | 3 | 10 | 3 | 3 | i | 1 | 21 |
| 1889 | 4 | 8 | 3 | 3 | $?$ | 1 1 | 19 |
| 1890 | : 4 | 25 | 21 | 10 | i | 31 | 74 |
| 1891 | 3 | 11 | 1 | i | i | 2 | 19 |
| 1892 | 4 | 13 | 3 | 1 | $n$ | 1 i | 22 |
| 1898 | ¢ | 12 | $?$ | 2 | : | 21 | 23 |
| 2143 | $?$ | 9 | 3 | 1 | 1 | 2 | 18 |
| 2298 | 16 | 13 | i3 | 10 | $i$ | 31 | 56 |
| 2401 | 6 | 10 | 3 | 2 | $?$ | 3 | 24 |
| 2412 | 15 | 26 | 17 | 11 | $i$ | 5 i | 75 |
| 2423 | 5 | 9 | 3 | 3 | 0 | 1 i | 21 |




## CHAPTER II

## TYPES OF VAPTANTS

In the previous chapter we discussed the grounds on winch the manuscripts were selected and some methodological matters. ie now turn to a consideration of the variants used and how they were evaluated.

Almost a! .ects of textual criticism eenter on variation. A variation is one of the possible alternative readings winich are found in a variation unit. ${ }^{1}$ It is a deviation or shange iron the norm. ${ }^{2}$ This norm nay be the Textus Receptus ( $T R$ ), iestcott ind iort, Nestle-Aland, or the text of a particular manuscripe nnose textual content is well known. The norm used in chis study is the Oxtord i37j edition of lite TR.

The use $0:$ i.. TR as the basis of recording divergences is not just a matter ui its availability. In fact, there are other texts, like Nestle-Aland, winci are nore accessible. But the use of the TR has a long inistory. Inceed, it has become the norm and a uniform ground upon tilicin scholars reguiarly base their collations. Therefore manuscripts used in zinis study iave been collated against the $T R$ and the variants have been racurded in accordance with the format of the International Greei Vew Testament Project.

```
\({ }^{1}\) See Colwell, "Method in Classifying," pp. 96-97.
\({ }^{2}\) Ibid., p. 26.
```

For a time the $T R$ was considered to be the absolute zero. Scholars seemed to be concerncd only with those readings which varied from that of the TR. The fallacy of this has been pointed out by many scholars. ${ }^{1}$ Today most scholars compare each manuscript with every other manuscript and the $T R$ is treated like any other manuscript.

## Variant Readings

It is both a common and a superficial assumption that a textual reading that differs in ary way Erom any other reading in the same unit of a text is a variant reading. This is an zersimplification. A variant mu: be meaningful and significant. Eor example, nonsense readings, nu-movables, itacisms, ort:’ographieai dizfarences or even singular readines, especially Ghose anici can je explained grammatically, are not sifnificant reacings.

Colwell has proposed the Eoilowing déinition of a variant: "A variant (or var: int reading) is one oí tie possibie alternative readings ainch are Eund in a variation-unit."' Periaps this is more clearly stated by Eldon $j$ Epp in a discussicn of the Colwell definition: A variant is
that senment of text where our Greek manuscripts present at least two variant Eoms and where, ifear insignificant readings have been excluded, eacin variant form has the support of at least two manuscripts.

For example, we give two examples of a "unit of variation" Erom
${ }^{1}$ For example, see $\because$ ivisse, "The Claremont ?reEile Yctiod." pp. 5960.

2"Method in Classifying," pp. 99-100.
3"Toward the Clarification of the Eerm 'Textual Variant," Studies in New Testament Lammuage and Text, ed. J. K. Elliott (Leiden: E. J. Brill, 1976), p. i57.
the Epistle of James:
Unit 143, verse 2:5 (1) TOU KOSMOU-TR 02020044049 etc.
(2) TW KOS:N-O1 03117512411739 etc.

Unit 174, verse 2:10 (1) T8RSSEI--TR 0103020049 etc.
(2) PL8RWSEI--122 $206522614 \mathrm{i505} \mathrm{ctc}$.
(3) TELESEI--0」: 124117392298
(S) POIBSET--999
(S) T8RS--1175

From these examples, it is clear that Unit $^{\prime} 143$ has two readings: one (Reading [I]) supported by the TR and $\because S S S 02020044049$ etc., and one (Reading [2|) supported by other witnesses, viz., MSS OI 031175 124! 1739 etc.; and Unit 17' has Eive readings: one supported by the TR and :ASS 0103020049 etc., and four supported as Eollows: Reacing (2) by siSS $0220652261 \div 1505$ ecc.; Reajing (3) b $\because 04 \div 1241$ 1739 2298; Singular Reading (S) jy ss 999; and Singular Reacine (इ) by 4S i175. It can be seen at a giance that a variantunit saves is from confusing the various types of readings and puts us on solici ground for classification.

According to Coinsil, the total range of existins variation must be taken as the only adequate basis 0 E conparison. ㅁo him it is relatively meaningless to ask how many times a manuscript differs from the TR. He suggests that "the general rule Eor the reconnition of a total variation-unit is jy noticing those eiements of expression in the Greek text which regulariy exist together." ${ }^{2}$

Further, Coiwell points out that variant readings must be classified so as to make possible the elimination of the insignificant variant readinss Erom the subsequent stages of tite study. The clas-
$1_{\text {"Yethod }}$ in Classifying," pp. 97-03.
${ }^{2}$ Ibid., p. 99.
sification siould be objectively descriptive. At the same time, evaluation must be based on a careful survey of differences. ${ }^{1}$

We have followed Colwell in this sclection and formation of our "units of variation." The value of a variant reading for purposes of classification is net, as expected, of uniform importance. Some units are very questionable, some less questionable, and some are nonquestionable. All units are numbered, except for the singular readings (readings supported by a singla witness). The total number of units of variation in the Epistle of janes is 325 . Because of their "questionable" Rature we have eliminated 380 of these, leaving a total of 145 for the classizication process.

Schol: are not united on the criteria that shouid control the selection of variants. Leo Vaganay has advocated axternal and internal criticism which "all have their part to play, and . . . must give each other mutual support."2 This has been temed "rationaj." or "reasoned" eclecticism.

In contr..st, J. K. Elliott ${ }^{3}$ has supported a "rigorous" or "thorough-goi: $\because$ " or "eonsistent" eclecticism, in which, according to Gordon D. Fee, "intrinsic and transcriptional probabilities ideally are the sole criteria, irrespective of the date and nature of the external evidence which supports a given reading." ${ }^{4}$ While rigorous
${ }^{1}$ Ibid., p. 100.
${ }^{2}$ An Introduction to the Textuai Criticism of the New Testament, trans. by B. V. Miller (Londicn: Sands, 1937), p. 91.
${ }^{3}$ The Greek Text of the Enistles to Timothy and Titus, Studies and Documents, 36 (Salt Lake City: University of utan Press, 1968), p. 10.
""Rigorous or Reasoned E.clecticism--Nhich?" Studios in Norv Testament Languaze and Text, ed. J. K. Elliott (Leiden: E. J. Brill, 1976), p. 175; see also p. 175, n. 7.
eclecticism enphasizes the historical aspect, rational eclecticism "starts with the readings, noting first the various intrinsic and transcriptional possibilities, and where such questions are indecisive, then appeals to the relative value of the witnesses."1 Fee contends that rational eclecticism is the method that is used by most scholars today; that it is "the currently reigning method, ind it appears to be a valid one, for it takes seriously both iriternal questions and the manuscript evidence." ${ }^{2}$

Metzger has surveyed the history of the evaluation of variants for the different editions of the Greek iew Testament. ${ }^{3}$ Be sinows that scholars have tended to select their variants with the purpose of building tie apparatus cricicis for a particular ecicion of the Greak New Testarmat. 3lakeiy has urged that text-critical sanolari should today continue the vaiuable work of expanding such criticai apparatus. Other scholurs, suct as Eldon J. Epp ${ }^{5}$ and Eoward Eshoatgh, Eocus their
 study, like that of Richards, is the classiEica=ion of freek manu-
${ }^{\text {I LEid. }}$ p. 197. ${ }^{2}$ Ibid.
3 The Text of tie iew Testament, ?p. 106-46.
4"'ianuscipi Relationsinips," pp. i-2.
The Theolorical Tendency oi Codex Bezae Cantabriaionsis in Acts. Society for New Pesiament Studies, Monorrapi Saries, j (Cambridge: Cambridge Vniversity Press, 1966), passim.
"Theologicai $\because a r i n a t s i n$ the Festern Text of the Pauline Corpus" (Ph.D. dissertation, Case Nestern Reserve University, 19:5), pp. 4-9.
'Richards' rork was produced at almost the same time as that of Blakely. 3ut Ricinards' work is entireiy on classification, witercas that of Blakely includes sections on both the deveiopment of the critical apparatus and textual relationships.
scripts. Whereas Richards' study was based upon the Johannine Epistles, this one is based upon the Epistle of James.

## The Singular Readings

As indicated above, the singular readings have not been included. ${ }^{1}$ Since these are readings found in only one manuscript, they cannot tell us anything about relationships. Furthermore, most of them may be assumed to be the creation of the scribes, and according to Colwell, in a textual tradition as rich as that of the New Testament, the high probability is that no original readings have survi:cd solely in a singular reading. ${ }^{2}$ Howcver, the singular readings should not de ignored completely. The caution of Epp is appropriate:

The usefulness of singular readings in discerning scribal patterns, purposes, and ciaracteristics, joth in zecent and oider studies, should caution us against the simple or premature e:clusion of singuiar readings Erom ail text-criticai rasks. . . .

## The Questionadle Readings

In this study we regard, as already indicated, nu-movables, itacisms, stylistic patterns, and personai pronouns as questionable readings. The folluwing discussion explains oriefly wive each of these types of readings is not included.

Nu-movailis. The nu-movable is a common phenomenon in the Greek language. However, it does not represent a true variant. Scholars
${ }^{1}$ It should be borne in nind that the singuiar readings in this study are sintular only within the limits of the manuacripts used in this study. The possibility must be ailowed that other manuscripes exist winich may prove them otherwise.

2"Method in Classifying," p. 104.
3"Classification of the Term 'rextmal Variant," p. 161.
such as Kubo ${ }^{1}$ and Eshbaugh ${ }^{2}$ do not even irclude nu-movables in their collations. Richards ${ }^{3}$ has conducted a mathematical study to determine by percentage the contribution they make to the classification of manuscripts and has concluded that their contribution is nighly unstable. For this reason they have not been included in this study.

Itacisms. Itacisms are prevalent in many manuscripts. Two types of itacism nay be distinguished: the sensible itacism, in which the variant reaing still represents a valid reading (e.g., in James 2:14, the reading ECH8 if the $T R$ | is subjunctive; the reading ECHEI in : $\operatorname{IS}$ 1243], indicative), and the nonsense itacism, in which the variant reading represents no Iexical form (e.g., james 3:11, the reading PIKRON [in the TRi is an acseptable speliing; the reading P8KRON (in MS 38] is not).

Stylistic Patysans. These might be called orthographic variants. Two exareples wiil sū̄ice. (I) James 1:17: cī. Papallag3 (TR) wich PARALAGB (MS 263). (2) James j:16: cf. POLLU (TR) with POLU (MS 1319). Like the itacisms, there is no consistenc: of readings between manuscripts; therafore they do not serve as evidence for classification purposes.

Personai pronouns. what is meant here is the interchange of the first person plural pronoun for the second person plural (e.g., 3MEIS
${ }^{1}$ In the personal coilations wilich iubo lent to ne, there are no nu-movables or itacisms.
${ }^{2}$ Theological Variants. pp. 206-7. Estibaugh does not include the following in his collations: (1) nu-movables; (2) interchange of et/ ou, $\iota / \pi$; (3) itacisms: (4) double consonanes for a single consonath and vice versa; and (5) nonsense readings.
${ }^{3}$ Classification, pp. 33-41.
for UMEIS) and vice versa. Because of the possibility itacism (8 for $\mathrm{U})$, they are regarded as questionable readings and therefore are excluded from this study.

## Readings in Trin or Ihred Yanuscripts

There is yet another category of readings which is not really questionable but is not included in the units of variation, namely, those readings which are only supported by two or three manuscripts. In his classification of the manuscripts of the Johannine Epistles, Richards has demonstrated that the elimination of readings supported by only two or three manuscripts has two results: i) it does not affect the rank of manuscript reiationsinips, and 2) it gives a percentage spread that is easier to analyze. ${ }^{1}$

As in the case of the singular readings, exmmination of other manuscripts may provide adiitionai suppurt Eor these readings and raise some of them to the level at winch they zould be aligibie zor inclusion in this process of classification.

The following criteria have been applied in this study: readings to be considered (1) must be supported by four or more manuscript witnesses, and (2) must be non-questinnable.
${ }^{1}$ Classification, pp. 35-37.

## METHODOLOCY AND APPLICATION

## Methodology

The Claremont ?rufile :icthod

Prior to the develomment of the Claremont Profile Yethod, manuscript groups were usually Eormed on the dasis of distinct group readings. Colwali succinctly describes the older method when he says, "a group is not a group unless it has unique elements. Separate existence can be clal: $\quad 7 \because$ Eor groups rith sonc readinss 'of their own.' The newly found manuscript cannot de related to a group withour being related to the singular readines of the group' (underlining ours). ${ }^{1}$

The basic premise uncerlying she Claremont Proiile Yethod is that manuscript classification can only be done accuracely when the total number of variants in any given section of a manuscript is considered. It groups manuscripts not oniy on the jasis of the unique group reaciings but also on the basis of the readines that are siared by other groups of manuscipts. All the readings iwherever there are variants in the text) are used to forr: profiles of readings, and classification is made according to the alibnment that the manuscripts have with these profiles. Thus one of the major qualifications ior group identity is

$1_{1 \text { Method }}$ in Locating a Newly Discovered Sanuscript," ?. 30.

that "the profile of the group must be different from the profile of all other groups."1

Quant itative Analysis
While testing the Claremont Profile Method on the Greek manuscripts of the Johannine Epistles, Ric!ards demonstrated that Ehere is a weakness in that method. YcReynolds and Nisse used as their starting point tic groups previously established by text-cricics, especially those determined by von Soden, with the assumption that the method itsclf has built-in correctives which should offset the biases of those groups. ${ }^{-}$Richards had grave doubts about the validit: of this assumption and es a result decided to employ quantitative Analysis. With the aid of a computer, he comparec sacin manuscript under study with every other manuscript uncer investigation. By this process he formed "tentative zroups" based on a comparison of a maximum numior of variant readinss. He contends that "merely having sume aroun readings winch are supported by at least two-thirds of the rss that arve been bunched together is not enough. Ne must look Eor the comination of MSS that yields the hignest number of group readinss. Obviously the more group readings we have the closer tie relationship will be. This inciudes utilizing as many variant readings in a given $M$ as pos-

[^2]sible" (underlining ours). ${ }^{1}$ He concludes (1) that "the CPM [Claremont Profile Method] is a superior method for classifying Byzantine ISS into groups, in ibut it calls for grouping to be based on all units of variation; the profiles that are formed includt both the shared and the unique readings"; and (2) that it is "much safer to proceed with the formation of groups and their profiles by Eirst Eormins tentative groups througn gunatitative dnalysis, rather than by using the alassiEications of $\because o n$ Soden" (underining ours). 2

Üse of a Computer
Being basicaily persuaded of the jeneral validity of Ricnards' use of Cuantitative Analysis and the Claremont Profile fethois, at sought to appl $\because$ Eiese so the Greek manuscripts oi tie Enistic of james -but in a ner rä. Instead ot enploying a computer oniy to provide the basic perzentazes Eor Quantizative Anaivsis and the Eaxonomidal organization $u$ E those percentazes Eor proiile determination, ge decided to as $\therefore$ inmes $\because$. 3rower 50 design a prugram wiwreb: botii antiods might be combinat and their basic evaluation determined oy a Entutar. He was able to iesian just such a program: and its ippifationt to só Greek manuscriptミ of the Epistle of James and consaquent rasults are set forth below.

But first ine must discuss the program itself.
"'A Critic̣ue of a New Testament Text-Critical Methodolor, ", ?. 564.
${ }^{2}$ Ibid., : 566.
${ }^{3}$ Brower pruvides, in his "preliminary study," "A Method Eor Computerized Classilication of New Testament Januscripts' (Unpublistied paper, Andrews !niversity, haril, 1979). the iundamental eiements of the program.

## a. Coefficients

Brower describes two types of similarity coefficients which may be used as measures of the degree of similarity between manuscripts. The first $\left({ }^{C} u=\right.$ unweighted coefficient, i.e., the unweighted percentage of agreement) maties no assumption of any genealogical relationships between the manuscripts under study. It simply measures their phenetic relationsips. The second $\left({ }_{W}=\right.$ weighted coefficient, i.e., the weighted percan=ヨge of agreament) may make sucin an assumption. It, cherefore, may indicate their cladistic relationsinips.

Since we =re interested particularly, in this study, in the phenetic (and noE the cladistic) relationsinips of the 36 manuscripts selected, we :rill oniy apply the furmer of these two "measuras of similarity." ${ }^{1}$

The ${ }^{C} u$ is caiculated by dividing the total numeer of units where the readinös $\because=$ given pair of manuscripts agree by the total number of units being =:-npared. ${ }^{2}$ However, soLt readings are not inciuded in the calculations. ${ }^{3}$

Leurthermare, ie are not yer clear on how to incerpret tie $\mathrm{C}_{\mathrm{i}}$.
2"Computerized Classification," ?. 2.
$3_{\text {Brower }}$ rejses an interestirs question winen he noserves: "It is agreed that incutae [L] and uncatermined or mavailabie [U] readings should not affect the value of the similarity coefficient. jut, as singuiar [ $S$ ] $\therefore \therefore$ omitced [0] reacings are unique readings in thenselves, it is questionabic whecher these should also be left out oi the calculations" (p. 2).

In mathematical terms, the $C_{i}$ is represented as Eoliows:

$$
C_{u}=\frac{\sum^{D_{R_{a}} R_{b} S_{R_{a}} R_{0}}}{\sum^{S_{R_{a}} R_{b}}}
$$

where $\begin{aligned} & R_{1}=\text { the reading of } M S A \\ & R_{b}^{a}=\text { the reading of } M S 3\end{aligned}$

Since the ${ }^{C}{ }_{u}$ is a straight percentage of agreement measurement, "a high coefficient is indicative of a high agreement between the readings of the respective MSS. ${ }^{1}$
b. Clustering Methocis

Based on the similarity coefficients just described, three clustering methods were employed in this study, namely, Single, Average and Complete Linkage.

Browar describes these as follows:
The basic outline for each of the clustering methods used is essentially the same. Dee besins aith a set of initially defined groups; the number of these groups amounting =o the total number of tiss in the study, and each group, thereiore, containing one MS. (Note: This is one of the major advantages of this method . . . it makes its classifications on the basis of no pre-determined, pre-defined grouping. You =annot, in fact, begin with a iess biased initial groupins than by putting each MS in its own, individual group.) Tiae similarizy coefeicient matrix (whichever one is being used) is then searched for the highest coffeicient, and the two MSS corresponding to this coetficient are ferged into one group. The coefficients between this new group and all zemaining groups sre then recalculated, and then search is again made for the hichest coefficient in this new matrix. Tiis process is repeated untii dil grotps (ali Mss) have been merged into a sincle group.

The three metiods of Singie, iverage and Complete binkage clustering differ in the manner in which the new coetificients are calculated. The procedure for each will je discussed separately.

$$
\begin{aligned}
D_{R_{a}} R_{b} & =0 \text { wien } R_{a} \neq R_{0}^{0} \\
& =1 \text { winen } R_{a}^{a}=R_{b}^{0} \\
S_{R_{a}} R_{b} & =0 \text { when } R_{a} \text { or } R_{b}=\text { soUL } \\
& =1 \text { when } R_{a}^{a} \text { aid } R_{D}^{b} \neq \text { SOUL }
\end{aligned}
$$

". . . function $D$ determines the asrement or disagrement between the readings of each $A S$, while Eunction $S$ determines whether or not either is contains a SOUL reading."

The result of such a calculation $"$ is a number between 0 and 1 , which is to be interpreted as follows: a coefficient of 1 indicates identical readinzs in all units, whereas 0 indicates no common readings; readings in between follow a simpia linear scale" (ibid., p. 3).
$1_{\text {Ibid. }}$

## Single Linkage

When calculating the similarity coefficient between two groups of MSS (each containing any given number of MSS), the value which determines the new value in Single Linkage clustering is the highest coefficient between any pair of :ISS, one taken from one group, and one from the other. For example, two groups will merge at a similarity coefficient level of 90 if the coefficient between any MS in one group and any MS in the other is 90 or above. This is why this method is also referred to as the Nearest Neighbur method, as the value of the new coerficient is equal to the coefficient between the MSS in each group winch are most similar to one another.

Since the merging of two groups is dependent on the degree of similarity between any pair of MSS between the two groups, it is seen that groups tenc to merge very easily, and that the final classification consists primarily of rather broad, strung-out groups having been formed at a relatively high level. Eur zhis reason, it may be concluded that $i f$ twin MSS appear in the same group, it may or ay not indicate tnat they are cioseiy related: on the other inand, siace groups eand to form so easily, if two MSS remain in different groups until a rabatively low lavel, this would indicate that they are in ract significantly different. So put it another way, Singie Linkage ciustering does not tell one when two :ISS belong in tne sane group, but it does tail quite forcefully when they belong in separate zroups. This may seem at first to be a slight distinction, jut it is in actual zact an important one.

Complete Linkage
Complete Linkage ciustering is essentially the converse of Single Linkage. In Complete Linkage ciustering, the cceficient of two groups of MSS is ecquai to the lunest coefficient of the pairs of XSS between bota jroups. Called aiso the Farcliest Naizit bor method, it is based on the degree oi similarity between tile most uniike pair of $\mathbb{A S}$, one in one group, one in the other. To state it another way, in orier Eor two groups to merge at i coefficient level of, for examite go, the cnefficients between all the MSS in one group and all those in the other must be at ieast 90.

In the case of Complete Linkage iustering, then, the final classifications consist of very compact, smaller groups which have formed ar teintively low levels. In contrast with Single Linkage, groups form rather more difitculty with Complece inkage; therefore it may be seen that the fact that wo iss are in different groups may or may not indicate a high dissimilarity, but, since groups are not formed so easily, it is very signiticant if two MSS are in the same group at a relatively aistive ievel. Therefere, Singio and Complete Linkage complement one another quite well, che iomer giving an incication of the uverall pattern, separating the MSS into laroe, general groups, witile the latter gives a look within these groups, showing the detailed relationsinips within and between the various sub-groups.

Average Linkage
Average Linkage calculates its new coefficients by finding the average of all coefficients from all the possible pairs of MSS between the two groups. Thus it offers somershat of a compromise between the extremes of the Single and Complete Linkage methods; however, when the Single and Complete methods are used together, comparing and contrasting the results, Average linkage adds little to the total picture. ${ }^{1}$

## Application

In this study we have employed all three methods and herewith provide both the dendrofrapiic charts and the parallel computer merge calculations wioci have resulted. ${ }^{2}$ HoNever, as will be noted, wi usc as the basis for our interpretation of the data only the Compiate inkage dendrogram and its accompanying merge calculations, 3 ve co this for the following reason. Richards ias rigntly argued:

The quantitative relationsiip between manuscripts has one prominent asset and one serious iiabiifi $\%$. The most raluable aspect of quancitative anainsis is siat it siows the percentage of agreement between any two manuscripes, such as that det:een MSS 97 and i33j. When the two manuscripts Soth rank Eirst to one another out of the total number of manuscripts uncer onsideration, the value oi the percantaje rating is indisputaibie: but the value of the percentage of agreetent becomes less certain when any other number of manuscripts are added and all are compared together. Fins liabiifty nay je demonstrated quite simply.

If manuscripts $A$ and $B$ are ranked first to one another and relate to each other 95 percent of the time, their reiationsing
$I_{\text {Ibid. }}$ pp. $5-8$.
${ }^{2}$ For the three dendrocrams, see pp. 132 ; 145; and 157 ; and for the three parallel merge charts, see po. $133-44$; $146-56$; and 158 6 7 . We have providad the dendrograms, and their accompanying merge charts, of the unweignted Single Linkage and Average Linkage programs Eor those who may wisil to compare them with the unweisited Compiete Linkage dendrogram and merge chart winch form the basis of our analysis and interpretation.
${ }^{3}$ For the unweighted Complete Linkage dendrogram and merge chart on which our interpretation is based, see pp. 157 and $158-67$. The unweighted Similarity Coefficient and Taxuncmical charts are provided on pp. 168-37 and 188-207 for those wito migint wisn to check our analysis
is definite. However, when the third manuscript $C$ is added to $A$ and $B$, which we will sey also relates to A 95 percent of the time, it does not necessarily follow that $C$ also relates to $B$ 95 percent of the time. The places whers $C$ deviates from $A 5$ percent of the time may be completely different from the places where $A$ and $B$ deviate $\bar{f}$ rom one another 5 percent of the time; conceivably, therefore, while $C$ may de in agreement with a 95 percent of the time it might only agree with $B$ oo percent of the time. Graphically, this hypotinetical picture vould appear as follows, assuming there are units of variation, 1-100:

A agrees with $B$ in readings $1-95=95 \%$
A agrees with $C$ in readings $6-100=95 \%$
$B$ agrees with $C$ in readings $6-95=90 \%$
The chance that $B$ and $C$ would not share any of the readings not shared by $A$ and $B$ or $A$ and $C$ is small, but nevertheless it is a possibility. For this reason then it is imperative to check the relationsinips Ero- a second perspective before drawing conclusions. That is, one must see if $B$ and $C$ also agree in the neighborhoud of 95 percent of the time. If all of the combinations of corfarison besecen $A, B, C$ ( $A$ and $B, A$ and $C, B$ and $C$ ) all relatc i.c one another 95 percent of the time, then it may safely be concluded that their percentage relationsnip is reliable Eor purposes $\because$ grouping since, reierring to the hypotheticai diagram atove, it is impossibie that three manuscripts which agree with one another the same high percontaje vould have a significantly differont set of reacinss. On the other hand, if any of the combinatira.; show a smaller or iarger percentage oi agreement, it ; necessary to aliow zor the marsin of possible differen: ' ${ }^{\text {LTustrated above. Eurthermore, this check is less }}$ valiv .. to the lower percentages. This means that the lower the percentages of asrecment tie greater sill be the possibility for a different conifguration of readings.i

Richards sought to nande ais particuiar problem by the use of "a modified numerical taxonomical schome."' It is precisaly the problem that Richards recognizes and seeks to handle with his taxonomical procedures that is adequately dealt vith in the Complete Linkage clustering method.

Before we turn to our interpretation of the data as presented
by the computer in the unweignted coefficient and complete linkage
and interpretation.
${ }^{1}$ Classification, pp. 56-57.
${ }^{2}$ Ibid., pp. 57-69.
dendrogram and its accompanying merge analyses, we need to say something about the interpretation of the unweighted coefficient dendrograms.

Since these unweighted coefficients are simple "percentages of agreement," the closer to the 100 -percent line the groups come zugether the more similar tiney are."

When evaluatiag the Single Iinkage dendrogram, it is important to look for "a long horizontal distance jetween the points where two groups form and where they meet. This incicates a higher degree of dissimilarity . . . and thus a good dividing iine between groups."I And when interpreting the Complete inkase dendrogram notice snould be taken when "Einis horizontal ine is short and relatively far to the left." ${ }^{2}$ This indicates "a higher degree of similarity Eius indicaring that the YSS in question jeions in the same group." ${ }^{3}$ Thus it is necessary to ione Eor long horizontai dividers in the Single inanage dendrogram and shor horizontai ties in fla Compiete Linkage dendrugram. Of course, in reading the Average Linkage cendrogram it inil be important to Look Eor both reiativeiy iong horizontal dividers and short horizontal $i$ ies.
$1_{\text {Brower, }}$ "Computerized ClassiEication," ?. 3. ile adds, "It should be pointed out that rinen comparing two groups the relevant distance is between the point ahere the sroups form and where they merge, not between the merie point and the left marain. That point where a group jecomes a group is the lowest point at which all the groups (all the $: 1 S S$ ) witich comprise that group have merged."

$$
\begin{aligned}
& 2^{2} \text { Ibid., p. } 0 \\
& { }^{3} \text { Ibid. }
\end{aligned}
$$

## Interpretation

If the unweighted Complete Linkage dendrogram is interpreted together with its accompanying merge chart, it is clear that the first major percentage-of-similarity break occurs between the point at which Group $52^{1}$ merges with Group 2 (at $59.55 \%$ ) to form the major Group 2 and the point at which group 37 ( $=$ Group 39 in the Single and Average Linkage dendrograms) merges with Group 7 (at $41.55 \%$ ) to form the major Group 7 , a break of some 18.01 -percent. If the line of division is drawn at this point, it is also clear that the 86 manuscripts of the Epistle of James Eall into three major groups.

If we set aside, for the monent, Group 37 , a group witich seems to have a quite independent relationsinip Erom the remainder of the manuscripts, ${ }^{2}$ we are IeEt with some 77 manuscripts that appear to fall into two major groups, namely, Group 2 , which forms as a major group
 other major group at 50.7 -percent $n$ simirinane simiarity.

Group 2
Group 2, which contains 10 manuscripts (WSS 01031175134302 17350441241 i 739 2298), consists of two distinct subgroups wint ch we will designate Eor convenience Group $2^{a}$ (consisting of MSS 01031175
$1_{\text {Every manuscript has its own "sroup number" and erery cluster }}$ of manuscripts takes its "group number" from the number of the first manuscript in that eluster as indicated on the unweigited Complete Linkage dendrogram. As a result, the tiree major clusters are identified by the number of the Eirst manuscript in tiose clusters, name i $\because$, Group 2, Group 7, and Group 37. For the appropriate dendrusram, see p.
${ }^{2}$ Althougli it emerges as a group at a ratice high percentage point ( $73.76 \%$ ), it does not marge with the remainder of the manuscripts until a comparably low percentage point ( $39.58 \%$ ).

1243021735044 ), which emerges as a subgroup at the 65.49 percentage point, and Group $2^{\text {b }}$ (consisting of MSS 12411739 2293), which emerges as a subgroup at the 77.46 percentage point. Group $2^{\text {a }}$, in turn, consists of two identifiable groups, Group $2^{\text {aa }}$ (consisting of MSS 0103 1175 1243), which emerges as a subgroup at the 70.07 percentage point, and Group $2^{\text {ab }}$ (consisting of MSS 02 1735. 044), which emerges as a subgroup at the 75.56 percentage point.

Since the majority of the manuscripts in Grap 2 are usuaily recognized as Alewancian witncases in other sections of the New Testament, it is possiole that the manuscripts mich make up this group should be so designated.

Of the 10 manuscripes of Group 2, von Soden lisis 6 (MSS 0103 117502044 1739), ail of winch (with the single exception o $\because \because \mathrm{X}$ i739) he identifies as Egyptian (H). He designates US 1739 as ?alestinian ( $\mathrm{I}^{\text {b2 }}$ ). However, Gallagher has argued that yon Sojen erred in identifying :S 1739 as Paiestinian in James. He siouid have identizied it as Egyptian. ${ }^{1}$ Our study would seem to support Gailagher's contention. Furthermore, joth Kubo ${ }^{2}$ and Richards ${ }^{3}$ have concluded that YS 1739 presents an Alexandyian (or Egyptian) text in jude and I, II, and III John, respectively.

Again, of the 10 manuscripts of Group 2, Kubo lists 5 GSS 01 0302044 1739), ail of which he identifies as Alwandrian in Jude,
$1_{\text {"Von Soden's }}$ H-Text," pp. 106-7.
2"Textual Relationsinips in Judc," pp. 276-82.
${ }^{3}$ Classjfication, pp. 141, 197.
${ }^{4}$ "Textual Relationsinips in Jude," p. 280. Kubo adds, "In summary, $B$, $A$, and 33 are the strongest members of the Alexandrian group,
and Richards lists 8 (MSS 010311751245020441241 1739) all of which (with but one exception, namely, MS 1175 which he categorizes as $B^{6}$ ) he identifies as Alexandrian in $I, I I$, and III John. ${ }^{1}$

## Group 7

Group 7, which contains 67 manuscripts, consists of eleven distinguishable subgroups which we will designate, again for convenience, Group 7a (consisting of MSS 049185492038569171874124014242143 ), which emerges at tike 90.53 percentage point, Group $\boldsymbol{j}^{\text {b }}$ (consisting of MSS 1773371738253209020203043 ), wich emerges at the 38.73 percentage point, Group $7^{c}$ (consisting of ASS 381319319 iS9i 424 1888 383), which emerges at the 39.51 percentage point, Gruy $7^{j}$ (consisting of MS 491 and $T R$ ), wiich exerges at the $91 . \sigma_{1}$ percentage point, and Group $7^{e}$ (consisting of MSS 104 1998), winch emerges at the 35.71 percentage point.

At this juncture $\sim$ e shouid note $E$ hat Group $7^{b}$ merges with Group $7^{\text {a }}$ at the 87.41 percentage point, Group $:^{-c}$ merges witit Grouns iand $^{-3}$ and $7^{\text {b }}$ at the 86.67 percentage point, Group $7^{\text {d }}$ merges with Groups $i^{2}, i^{b}$, and $7^{\text {c }}$ at the 85.31 percentage ?oint, and Group merges with Groups $7^{\mathrm{a}}, 7^{\mathrm{b}}, 7^{\mathrm{c}}$, and $7^{\mathrm{d}}$ at the 33.33 percentage point to form a sisnificant group conplex: $7^{\text {a-e }}$.

Since a significant number of the manuscripts in this complex have been designated, in other sections of the New Testament. Byzantine, it is possijle that ail of these should be similarly assigned for the Epistle of James.
followed by 623 and 5 . Related weakly to these manuscripts in desconding order are (1) Y and 1611: (2) K ; (3) $\mathrm{C}, 1730$, 323 : (4) $\mathrm{p}^{{ }^{\prime-} .}$."
${ }^{l_{\text {Classification }}}$ Pp. $140-41,196-98$.

Of the 29 manuscripts involved, von Soden lists 23 (MSS 049920 $\begin{array}{lllllllllllllllllll}385 & 6 & 917 & 1874 & 2143 & 177 & 1738 & 263 & 209 & 020 & 203 & 38 & 1319 & 319 & 1891 & 424 & 383\end{array}$ 4911041898 337), three of which (MSS 6424 104) he identifies as Egyptian (H), two (YSS 049 O20) as Koine (K), and the remainder (YSS $92038591718742143177337173826312092033313193191891 \quad 383$ 491 1898) as Palestinian (I) for the Catholic Epistles in general. OE these 29 manuscripts, Kubo ${ }^{1}$ lists 5 (MSS 920 917 1874 020 319), all of which he designates as Byzantine in Jude and adds, "The large number of manuscripts classified under I by von Soden cannot be distinguished Erom the manuscripts of tie $X$ ! = Byantinel text." And of these same 29 manuscripts, Richards ${ }^{2}$ lists 20 (ISS 0491854
 1888 1898), $\because .$. (ij 6) of wnich he jdentifies as Aiaxandrian in $I, ~ I I$, and III John, one (XS 1898) as "mized" in I John and $\mathrm{XN}^{\mathrm{N}}$ in II and III John, ${ }^{3}$ two (MSS 917 i874) as "mixed" in I Join, $X^{\prime \prime}$ in II Jonn, and Byzantine in III john, one ( AS ós 3 ) as $M^{W}$ in 1 jehn and Byzantine in II and III John, one (iS 424) as $\mathfrak{S}^{N}$ in II Joinn and Byzantine in $I$ and III Jonn, one (:IS 2143) as if in II Jonn and Byantine in $I$ and II John, and the remainder (GSS 049 1854 920 $124014241771738020 \quad 38$ 13193191891 1888) as Byzantine in all circe epistlos.
$1_{\text {"Textuai Selationsinips in Jude," p. } 280 .}$
${ }^{2}$ Classification, ?p. 156-59, 178, 196-98.
${ }^{3}$ With respect to the use 0 i his term "nixed" and his siglum $M^{W}$, Richards axplains: "The manusceipts in tie $\because$ group may be ciaracterized as mixed in two ways: (i) They share group readinss (a) with A which are not found in $B$; (b) which belong to some of the groups in both A and B; (c) with 5 wilich are not in A. (2) They have considerably more readings against the $T R$ than the $B$ manuscripts, but not as many as the A manuscripts, and cten these non-TE readines are seattered and form no pattern mong themselves. Here and there a non-TR

Group ${ }^{\text {F }}$ (consisting of MSS $5122310221245 \quad 226 \quad 483 \quad 9591889$ 2423182954748992715979992401 1610) emerges as a group at the . 83.30 percentage point and merges with the Group $7^{\text {a-e }}$ complex at the 81.25 percentage point. Since the majority of these are identified as Byzantine in other sections of the New Testament it is probabli: that they should be so assigned for the Epistle of James.

Of the 17 manuscripes of Group $7^{f}$, von Soden lists 11 (MSS 31 $22312452264831829547489927 \quad 999$ 1610), three (MSS 51223483 ) of which he designates as $K$, and the remainder as Palestinian ( $I$ ) in the Catholic Epistles in general. OE these kubo ${ }^{1}$ lists 6 (MSS 2231022 4832423489 2 401 ), all of which he identifics as Byzantine Eor Jude, and Richards ${ }^{2}$ lises 16 (all except MS 51), one (MS 2401) oe whicil he identifies as "mixcd" in I John and Byzantine in II and III Jonn, one (MS 959) as $M^{N}$ in III John and Eyzantine in I and II John, and one (YS 999) as "mixed" in I john, $\mathbb{A}^{\mathrm{w}}$ in III John, and B:zantine in II John. The remainder (MSS 223 1022 1245 226 $453188924231529 \begin{array}{llllll} & 247 & 439 & 027\end{array}$ 1597 1610) he identifies as Byzantine in all three epistles. Again, Kubo's observation that a "large number of the manuscripts classified under I by von Soden cannot be distinguished from the manuscripts of the $K$ text ${ }^{[3}$ is apropos.
reading appears, but not with any irequency at a given reading in the M manuscripts.
"When this second characteristic is duminant in a a manuscript it is not possible to speak of group readings as such. For Ehis reason we have formed a Mised-wild group ( $\mathrm{A}^{(\mathrm{V}}$ ) winch is not distinguished by its Eow group readings: rather, its manuscripts have many scatered $A$ and $B$ readings" (ibiu., ?. 176).
$l_{\text {"Textual Relationslips in }}$ Jude," p. 250.
${ }^{2}$ Classification, pp. 156-59, 178, 196-98.
${ }^{3}$ "Textual Relationships in Jude," p. 280.

Group $7^{\text {g }}$ (consisting of but one manuscript, namely, MS 1827) merges with the group complex $7^{a-f}$ at the 80.42 percentage point. It is identified by von Soden as Palestinian ( $\mathrm{I}^{\text {a2 }}$ ) for the Catholic Epistles in general. Richards, ${ }^{1}$ however, designates it as "mixed" in I John and as Byzantine in II and III John. Our calculations would indicate that it is closely related (at the 80.42 percentage point) to a significant number of probable Byzantine manuscripts.

Group $7^{\text {h }}$ (consisting basically of MSS 1243150318921249201
479) develops as a very closely related unit at the 07.34 percentaje point and omerge maily as a group with the addition of $M S 1875$ at the 95.17 percentage Oint, iS 1247 at the 92.96 percentage point, and MS 467 at the 33.33 percentage point. Group $7^{\mathrm{h}}$ merges with the Group $7^{\text {a-g }}$ complex at the 70.02 percentage point.

The manuscripts which make up Group $7^{\text {h }}$ are provably to be designated as Byzantine. Of the 9 manuscripts oi this group von Soden lists two (MSS 201479 , both of which he identifies as Koine (K) En the Catnolic Epistles. Kubo ${ }^{2}$ lists the same two manuscripts and designates both of them as Byzantine in Juce. Richards ${ }^{3}$ iists if of the ganuscripts (namely, MSS 1243201479 1876) and identifies all four as Byzantine in all three Johannine epistles.

Group 25 ( $=$ Group $7^{i}$ ) (consisting oi MS 323) merges with the Group $7^{\text {a-h }}$ complex at the 72.73 percentage point. Yon Soden designates it Palestinian ( $\mathrm{I}^{\text {b2 }}$ ) for the Catholic Epistles in gencral. But both

[^3]Kubo ${ }^{1}$ and Richards ${ }^{2}$ identify it as Alexandrian in Jude and $I, I I$, and III John, respectively, although Kubo does note that it is a weak representative of that text-type. ${ }^{3}$ Our analysis suggests that MS 323 is more closely related to those manuscripts which represent the Byzantine text traditions in other sections of the New Testament than it is to those manuscripts which witness to the Alexandrian tex: traditions. However we recognize that there is a considerable percentage-gap between the point $2 t$ winch the Group $7^{\text {a-h }}$ complex merges (at the 79.02 percentage faint) and the point at which 45323 merges with that complex (a- 're 72.73 yrecentage point).

Gr. $40\left(=\right.$ Group $\left._{7}^{j}\right)$ (consisting of MSS 6231845 j) emerges
as a clos zelated group at the 94.41 percentage point and merges with the $G: \quad-a-i$ comple only at the 54.79 percencage point. Thile von Soden identilic sll threc manuscripts as ?alestinian (I) in the Catholic Epistles, Zubo ${ }^{4}$ and Richards icicntify joti YS 523 and YS 5 as Alexandrian in jude and $I$, IT, and III Jonn, respectively. In ad-
 in II and III Join, ${ }^{5}$ Again our evaluation of the evidence would suggest that all three manuscripts (MSS 623 1845 j) are more closcly related to those manuscripts which represent the Byzantine coxt-type than they are to those that witness to the Alexandrian. Sut we also recog-
${ }^{1}$ "Textual Se!ationships in Jude," p. 280.
${ }^{2}$ Classification, pp. i4L, 196 .
3"Textual Relationsinips in Jude," p. 280.
${ }^{4}$ Ibid., p. 230 .
${ }^{5}$ Classification, pp. 141, 196.
${ }^{6}$ Kubo does not list MS 1345.
nize the significant percentage-gay between the point at which the Group $7^{a-h}$ complex merges (at the 79.02 percentage point) and the point at which Group 40 merges with that complex (at the 64.79 percentage point).

Group $19\left(=\right.$ Group $^{\mathrm{k}}$ ) (consisting of MSS 216440131530764269378 876) emerges as a group at the 72.92 percentage point and merges with the Group $7^{a-j}$ complex at the 59.71 percentage point. of these 3 maniscripts, von Soden lists 7 (MSS 21644030764269378 876), all of which he identifies as Palestinian (I) in the Catholic Epistles in general, Kubo ${ }^{1}$ lists 5 (MSS 21644064269 876), all of which he designates Byzantine, and Richards ${ }^{2}$ !ists 6 (ISS 216 4401315 ó42 69 376), one of winici ( 15 (69) he designates as $i^{W}$ in ail three epistles, one (MS 642) he Einds "rixed" in I jon and Ale:andrian in II and III John, one (MS 876) ne identifies as "mized" in I Jonn, $A^{N}$ in II john, and
 the Byzantine text-type.

Our analysis suscests that the manuscripts of Group 19 are more closely related to the Byzancine witnesses. Once again, however, we must note the important percentage-sap between the point at winch the Grouf $7^{\text {a-h }}$ complex emerges (at the 79.02 percentage point) and the point at which Group 19 merges with tiat complex (at the 39.71 percentage point).

Group 37
We must now return to Group 37. It consists of 9 manuscripts
$1_{\text {"Textual Relationships in Jude," pp. 279-80. }}$
${ }^{2}$ Classification, pp. 196, 197.
(MSS 52217992061522189061424121611 1505) which emerge as a group at the rather high percentage point ( $73.76 \%$ ) but do not merge with the remainder of the manuscripts until a comparatively low percentage point (39.58\%). These 9 manuscripts fall into two distinct subgroups wiicin may be conveniently designated Group $37^{\text {a }}$ (consisting of ASS 5221799 2061522 1890), which emerges as a suberoup at the 78.57 percentage point, and Group $37^{\mathrm{b}}$ (consisting of :ISS 61424121611 1505), wich emerges as a subgroup at the 33.33 percentage point. Group $37^{\text {a }}$, in turn, consists of two identifiable clusters, Group $37^{\text {aa }}$ (consistine of MSS 522 17g9 206), winch emerges ar a subgroup :t the 92.0 perceatage point, and Group $37^{\text {aj }}$ (consisting of :ISS 1522 1800), nicin amerzes as a subgroup at the 94.29 percentage point.
 1611), all of which he identifies as Palestinian (I) for the Catnolic
 he identifies as Aiexandrian, two (aSS $\because, 00$ 206) as Byzantine, anci one (MS 2412) as not jelonging to either (or any) sroup, anc Riciards
 of which he designates as Alexandrian in all three epistles. one (: S 206) as Alexandrian in I John and byzantine in II and III John, and one (MS 1799) as Alexandrian in I John, Byantine in II jonn, and $\because^{*}$ in III John.?

Our analysis would suggest that in the Epistle of James this

1"Textual Relationsinips in jude," p. 280. Kubo remarks: "!anuscript 2412 is a member of neither this the Alexandiand nor the first [the Byzantine] group." "2412 does not seem to tave any real cluse relationsiif to any sroup."
${ }^{2}$ Classification. pp. $140,196-98$.
group is not related directly to either the representatives of the Alexandrian text-type or the witnesses of the Byzantine text-type. For James it appears to cluster as an independent category. This group is deserving of separate and special consideration in the future,

## CONCLUSIONS

In this study we set out primarily to determine the phenetic relationships of 86 Greek manuscripts of the Epistle of James and only secondarily to propose their text-type relationships.

To accomplish this we have combined the Ouantitative Analysis and Claremont Profile me:hcds, as developed by McReynolds, Nisse, and Richards into a new and single method--a method we have chosen to cail Cluster Analysis. 3y means of a computer se ave applied this method to the raw data of our collations with the following results.

The 86 manuscripts studied fall into three major clusters:
(A) Group 2, wich consists of 10 manuscripes (MSS $0102030441 i j$ 12411243173517392298 ) and whicn may be conveniently divided into two subgroups--Group $2^{\text {a }}$ (ISS 01020304411751243 1735) and Group $2^{b}$ (MSS 124117392298 ).

Since the majority of the manuscripts in Group 2 are usually identified as Alexandrian witnesses in other sections of the New Testamerr, it is possible that the manuscripts that make up this group should be so designated. We propose that the manuscripts of Group $2^{a}$ be tentatively designated $A^{1}$ and those of Group $2^{b}, A^{2} .1$
(B) Group i, which contains 67 manuscripes that may be conveniently divided into 11 subgroups-Group $7^{a}$ (ASS $049 \quad 6 \quad 385$ 917 92012401424
${ }^{1}$ See the chart of Classifications on pp. 55-58 where we have provided our tentative text-type designations and those of von Soden (Catholics), Kubo (Jude), and Richards (I, II, and III John) for convenient comparison.

18541874 2143); Group $7^{b}$ (MSS 020177203203263337643 1738); Group $7{ }^{c}$ (MSS 3831942438313191888 1891) ; Group $7^{\text {d }}$ ([TR], MS 491); Group $7^{e}$ (MSS 104 1898); Group $7^{f}$ (MSS $51223226483489547 \quad 927 \quad 95999910221245$ 15971610132918892401 2423); Group $7^{8}$ (MS 1827); Group $7^{\text {h }}$ (MSS 201 46747912471248124915031876 1892); Group $7^{i}$ (MS 323); Group $7^{j}$ (MSS 5623 1845); and Group $7^{k}$ (MSS 69216307378440642876 1315).

Since a significant number of these manuscripts have been identified as Byzantine in text-type in other sections of the New Testament, we tentatively assign the majority of them to that text-type category. However, it is clear that while subgroups $7^{i-k}$ are more closely related to those manuscripts that are usually identified as Byzantine, they aiso have adistinct orientation to those manuscripts which are frequently identified as Alexandrian. We, therefore, propose that the manuscripts of Group $7^{\text {a-e }}$ be tentatively designated $B^{1}$; those of Group $i^{f}, B^{2}$; that of Group $7^{g}, B^{3}$; and those of Group $7^{h}, B^{4}$. Since the manuscripts of Groups $i^{i-k}$ have a marked orientation towards those manuscripts which are usually designated Alexandrian, we further porpose that MS 323 of Group $7^{1}$ be tentatively designated $B / A^{l}$; those of Group $7^{j}, 3 / a^{2}$; and those of Group $7^{k}, B / A^{3}$.
(C) Group 37, which consists of 9 manuscripes (MSS 206 j22 614 15051522161117991890 2412) which easily divide into two distinct subgroups--Group $37^{\text {a }}$ (MSS 2065221522 1799 1890) and Group $37^{\text {b }}$ (MSS 61415051611 2412). Since our Cluster Analysis indicates that this major cluster is not closely related to either of the A (Group 2) or B (Group 7) clusters, it should be given an independent sigium. Ne therefore propose that the manuscripts of Group $37^{a}$ be designated $C^{1}$ and those of Group $37^{b}, C^{2}$. As already stated, this Group (37) deserves separate and special consideration in the future.

Now that we have accomplished our purposes, it is clear that a program that will determine, by means of a computer, the identifying features of each cluster needs to be designed. When that is perfected, future classification of Greek manuscripes should be greatly facilitated.

## CLASSIFICATIONS

|  | ary | von Soden Catholics | Kubo <br> Jude | Ricil 1 Jn | $\begin{aligned} & \text { ds } \\ & \underline{Z} \mathrm{Jn} \end{aligned}$ | $3 \mathrm{Jn}$ | This Study James |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 01 | H | A | $A^{2}$ | $A^{2}$ | $A^{2}$ | $A^{1}$ |
| 2 | 02 | H | A | $A^{2}$ | $A^{2}$ | $A^{2}$ | $A^{1}$ |
| 3 | 03 | H | A | $A^{2}$ | $A^{2}$ | $\mathrm{A}^{2}$ | $A^{1}$ |
| 4 | 020 | $\because$ | B | $3^{6}$ | $3^{6}$ | $3^{6}$ | $B^{1}$ |
| $j$ | 044 | : | A | $A^{2}$ | $\mathrm{i}^{2}$ | $\mathrm{A}^{2}$ | $\therefore{ }^{1}$ |
| 6 | 049 | K | - | $3^{6}$ | $3^{6}$ | $3^{6}$ | $B^{1}$ |
| 7 | 5 | $I^{\text {a }}$ | A | $A^{3}$ | $A^{3}$ | $i^{3}$ | $B / A^{2}$ |
| 8 | 6 | \% | - | $A^{2}$ | $A^{2}$ | $A^{2}$ | $B^{1}$ |
| 9 | 38 | $I^{\text {a }}$ | - | $\mathrm{B}^{\text {j }}$ | $3^{7}$ | $3^{7}$ | $3^{1}$ |
| 10 | 51 | $k^{\text {c }}$ | - | - | - | - | $B^{2}$ |
| 11 | 69 | $i^{\text {a }}$ | B | $M^{\text {N }}$ | $9^{\text {ix }}$ | $9^{W}$ | $B / A^{3}$ |
| 12 | 104 | 4 | - | - | - | - | $B^{1}$ |
| 13 | 177 | $I^{33}$ | - | $\mathrm{B}^{3}$ | $3^{3}$ | $3^{3}$ | $\mathrm{B}^{1}$ |
| 14 | 201 | $i^{r}$ | B | $3^{2}$ | $B^{2}$ | $3^{2}$ | $\mathrm{B}^{\text {4 }}$ |
| 15 | 203 | $I^{c 2}$ | - | - | - | - | $B^{1}$ |
| 16 | 206 | $I^{\text {bl }}$ | 3 | $A^{1}$ | B | B | ${ }^{1}$ |
| 17 | 209 | $L^{\text {a3 }}$ | - | - | - | - | $B^{1}$ |
| 18 | 216 | $i^{\text {b2 }}$ | B | $B^{4}$ | $\mathrm{B}^{4}$ | $3^{4}$ | $B / A^{3}$ |
| 19 | 223 | $z^{\text {c }}$ | B | $B^{3}$ | $B^{3}$ | $\mathrm{B}^{3}$ | $B^{2}$ |
| 20 | 226 | $I^{\text {a3 }}$ | - | $\mathrm{B}^{2}$ | $\mathrm{B}^{2}$ | $\mathrm{B}^{2}$ | $\mathrm{B}^{2}$ |
| 21 | 263 | $\mathrm{I}^{\text {a }}$ | - | - | - | - | $B^{1}$ |


| Gregory <br> Number |  | von Suden Catholics | $\begin{aligned} & \text { Kubo } \\ & \text { Jude } \end{aligned}$ | Richa 1 Jn | $\begin{array}{r} \hline \mathrm{ds} \\ 2 \mathrm{Jn} \end{array}$ | 3 Jn | This Study James |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22 | 307 | $\mathrm{I}^{\text {a } 1}$ | - | - | - | - | $B / A^{3}$ |
| 23 | 319 | $I^{\text {a3 }}$ | B | $\mathrm{B}^{1}$ | $B^{1}$ | $B^{1}$ | $B^{1}$ |
| 24 | 323 | $I^{\text {b2 }}$ | A | $a^{3}$ | $A^{3}$ | $A^{3}$ | $B / A^{1}$ |
| 25 | 337 | $I^{\text {a }}$ | - | - | - | - | $B^{1}$ |
| 26 | 378 | $I^{\text {c2 }}$ | - | - | - | - | $B / A^{3}$ |
| 27 | 383 | $I^{\text {c2 }}$ | - | - | - | - | $\mathrm{B}^{1}$ |
| 28 | 385 | $\mathrm{I}^{\text {c2 }}$ | - | - | - | - | $B^{1}$ |
| 29 | 424 | H | - | $B^{6}$ | $\mathrm{M}^{\text {N }}$ | $B^{6}$ | $\mathrm{B}^{1}$ |
| 30 | 440 | - | B | $B^{4}$ | $B^{4}$ | $3^{4}$ | $B / A^{3}$ |
| 31 | 467 | $i^{\text {a }}$ | - | - | - | - | $B^{4}$ |
| 32 | 479 | $\mathrm{K}^{\mathrm{c}}$ | B | $3^{1}$ | $B^{1}$ | $3^{1}$ | $\mathrm{B}^{4}$ |
| 33 | 483 | $z^{c}$ | 3 | $3^{1}$ | $B^{1}$ | $3^{1}$ | $\mathrm{B}^{2}$ |
| 34 | 489 | $I^{a 2}$ | 3 | $3^{5}$ | $3^{5}$ | $3^{5}$ | $\mathrm{B}^{2}$ |
| 35 | 491 | $I^{\text {b2 }}$ | - | - | - | - | $3^{1}$ |
| 36 | 322 | $I^{\text {bl }}$ | - | - | - | - | $C^{1}$ |
| 37 | 547 | $L^{33}$ | - | $3^{\text {tr }}$ | $3^{\text {tr }}$ | $3^{\text {tr }}$ | $B^{2}$ |
| 38 | 614 | $\mathrm{I}^{\mathrm{c} 2}$ | - | $A^{1}$ | $A^{1}$ | $A^{1}$ | $\mathrm{C}^{2}$ |
| 39 | 623 | $\mathrm{I}^{\text {a2 }}$ | A | $t^{3}$ | $A^{3}$ | $t^{3}$ | $\mathrm{B} / \mathrm{A}^{2}$ |
| 40 | 642 | $\mathrm{I}^{33}$ | B | $M^{2}$ | $4^{3}$ | $A^{3}$ | $B / A^{3}$ |
| 41 | 643 | - | - | $\mathrm{M}^{\text {N }}$ | B | B | $B^{1}$ |
| 42 | 876 | $I^{C 2}$ | B | $\mathrm{m}^{2}$ | $\mathrm{M}^{\text {W/ }}$ | $A^{1}$ | $3 / A^{3}$ |
| 43 | 917 | $I^{\text {al }}$ | B | $M^{1}$ | $\mathrm{M}^{\text {N }}$ | B | $B^{1}$ |
| 44 | 920 | $I^{33}$ | 3 | $B^{5}$ | $B^{5}$ | $3^{5}$ | $3^{1}$ |
| 45 | 927 | $I^{32}$ | - | $B^{5}$ | $B^{5}$ | $B^{5}$ | $B^{2}$ |
| 46 | 959 | - | - | $B^{2}$ | $B^{2}$ | $9^{\text {s }}$ | $\mathrm{B}^{2}$ |


| Gregory Number |  | von Soden Catholics | Kubo Jude | Richa 1 Jn | $\begin{aligned} & 1 \mathrm{~s} \\ & 2 \mathrm{Jn} \end{aligned}$ | $3 \mathrm{Jn}$ | This Study James |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 47 | 999 | $I^{33}$ | - | $\mathrm{M}^{2}$ | B | $M^{W}$ | $B^{2}$ |
| 48 | 1022 | - | B | $B^{4}$ | $B^{4}$ | $B^{4}$ | $B^{2}$ |
| 49 | 1175 | H | - | $B^{6}$ | $B^{6}$ | $B^{6}$ | $A^{1}$ |
| 50 | 1240 | - | - | $B^{t r}$ | $B^{t r}$ | $B^{t r}$ | $\mathrm{P}^{1}$ |
| 51 | 1241 | - | - | $A^{3}$ | - | - | $d^{2}$ |
| 52 | 1243 | - | - | $A^{3}$ | $A^{3}$ | $A^{3}$ | $A^{1}$ |
| 53 | 1245 | $\mathrm{I}^{\mathrm{Cl}}$ | - | $B^{4}$ | $B^{4}$ | $B^{4}$ | $\mathrm{B}^{2}$ |
| 54 | 1247 | - | - | - | - | - | $3^{4}$ |
| 55 | 1248 | - | - | $B^{2}$ | $\mathrm{B}^{2}$ | $3^{2}$ | $B^{4}$ |
| 56 | 1240 | - | - | - | - | - | $\mathrm{B}^{4}$ |
| 57 | 1315 | - | - | $3^{4}$ | $3^{4}$ | $3^{4}$ | $B / A^{3}$ |
| 58 | 1319 | $I^{33}$ | - | $B^{7}$ | $3^{7}$ | $3^{7}$ | $B^{1}$ |
| 59 | 1424 | - | - | $3^{7}$ | $3^{7}$ | $3^{7}$ | $3^{1}$ |
| 60 | 1503 | - | - | - | - | - | $3^{4}$ |
| 61 | 1505 | - | - | - | - | - | $c^{2}$ |
| 62 | 1522 | $\Psi^{\text {a3 }}$ | B | $\mathrm{H}^{\mathrm{W}}$ | 3 | $M^{W}$ | $C^{1}$ |
| 63 | 1597 | - | - | $B^{3}$ | - | - | $3^{2}$ |
| 64 | 161.0 | $L^{\text {c2 }}$ | - | $\mathrm{B}^{4}$ | $3^{\text { }}$ | $3^{4}$ | $3^{2}$ |
| 65 | 1611 | $I^{\subset l}$ | A | $A^{1}$ | $A^{1}$ | $A^{1}$ | $\mathrm{c}^{2}$ |
| 66 | 1735 | - | - | - | - | - | $A^{1}$ |
| 67 | 1738 | $I^{\text {a }}$ | - | $B^{4}$ | $3^{4}$ | $3^{4}$ | $B^{1}$ |
| 68 | 1739 | $i^{b 2}$ | A | $A^{3}$ | $A^{3}$ | $A^{3}$ | $A^{2}$ |
| 69 | 1799 | - | B | $A^{1}$ | B | $x^{\text {iN }}$ | $C^{1}$ |
| 70 | 1827 | $\sum^{32}$ | - | $\mathrm{M}^{2}$ | $B$ | B | $B^{3}$ |
| 71 | 1829 | $I^{\text {al }}$ | - | $B^{1}$ | $B^{1}$ | $B^{1}$ | $B^{2}$ |


| Gregory Number |  | von Soden Catholics | Kubo Jude | Riclia 1 Jn | $\begin{aligned} & 1 \mathrm{~s} \\ & 2 \mathrm{Jn} \end{aligned}$ | 3 Jn | This Study James |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 72 | 1845 | $\mathrm{I}^{\text {a }}$ | - | $M^{W}$ | $A^{3}$ | $A^{3}$ | $B / A^{2}$ |
| 73 | 1854 | - | - | $B^{\text {tr }}$ | $B^{t r}$ | $B^{t r}$ | $B^{1}$ |
| 74 | 1874 | $I^{\text {al }}$ | B | $\mathrm{M}^{1}$ | $M^{\text {w }}$ | B | $B^{1}$ |
| 75 | 1876 | - | - | $\mathrm{B}^{2}$ | $\mathrm{B}^{2}$ | $\mathrm{B}^{2}$ | $B^{4}$ |
| 76 | 1888 | - | - | $B^{6}$ | $B^{6}$ | $B^{6}$ | $B^{1}$ |
| 77 | 1889 | - | - | $\mathrm{B}^{2}$ | $\mathrm{B}^{2}$ | $\mathrm{B}^{2}$ | $B^{2}$ |
| 78 | 1890 | - | - | - | - | - | $\mathrm{Cl}^{1}$ |
| 79 | 1891 | $I^{\text {bl }}$ | - | $B^{1}$ | $\mathrm{B}^{1}$ | $B^{1}$ | $B^{1}$ |
| 80 | 1892 | - | - | - | - | - | $B^{4}$ |
| 81 | 1893 | $\mathrm{I}^{\text {a }}$ | - | $x^{1}$ | $M^{*}$ | $\underbrace{\text { N }}$ | $B^{1}$ |
| 82 | 2143 | $I^{\text {a }}$ | - | $B^{6}$ | $B^{6}$ | $\mathrm{M}^{\text {N }}$ | $B^{1}$ |
| 83 | 2298 | $I^{\text {b2 }}$ | - | - | - | - | $A^{2}$ |
| 84 | 2401 | - | B | $M^{2}$ | B | B | $B^{2}$ |
| 85 | 2412 | - | A | $A^{1}$ | $A^{1}$ | $A^{1}$ | $C^{2}$ |
| 86 | 2423 | - | ( $\mathrm{M}^{\text {N }}$ ) | $B^{3}$ | $5^{3}$ | $B^{3}$ | $B^{2}$ |

## UNITS OF VARIATION AND THEIR SUPPORT

1 JAMES 1:1

| (1) | THEOU | KAI |  |  |  |  |  | 79/ | 94.0\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TR | 01 | 02 | 03 | 020 | 044 | 049 | 5 | 6 |
|  | 38 | 51 | 69 | 104 | 177 | 201 | 203 | 209 | 215 |
|  | 223 | 226 | 263 | 307 | 319 | 323 | 337 | 383 | 424 |
|  | 440 | 467 | 479 | 483 | 489 | 491 | 547 | 623 | 64 ? |
|  | 643 | 876 | 917 | 920 | 927 | 959 | 999 | 1022 | 1175 |
|  | 1240 | 1241 | 1243 | 1245 | 1247 | 1248 | 1315 | 1319 | 1424 |
|  | 1503 | 1505 | 1522 | 1597 | 1610 | 1611 | 1735 | 1738 | 1739 |
|  | 1827 | 1829 | 1845 | 1854 | 1874 | 1876 | 1888 | 1825 | 189, |
|  | 189 i | 1892 | 1898 | 2143 | 2298 | 2401 | 2423 |  |  |
| (2) | THEO: | - \% 2 ? | S KAI |  |  |  |  | $5 /$ | 6.0\% |
|  | 205 | 522 | 614 | 1799 | 2412 |  |  |  |  |
| (S) | 375: | THEOU | KAI | TROS |  |  |  |  |  |
| (L) | 305 | $12!9$ |  |  |  |  |  |  |  |

7 …...

(1) | UMRN |  |  |  |  |  | $80 /$ | 94.18 |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| TR | 01 | 02 | $n 3$ | 020 | 044 | 049 | 5 | 6 |
| 38 | 51 | 69 | 104 | 177 | 201 | 203 | 209 | 216 |
| 223 | 226 | 263 | 307 | 319 | 323 | 337 | 378 | 383 |
| 424 | 440 | 467 | 479 | 483 | 489 | 491 | 547 | 623 |
| 642 | 643 | 876 | 917 | $92 n$ | 927 | 959 | 999 | 1022 |
| 1175 | 1240 | $i 241$ | 1243 | 1245 | 1247 | 1248 | 1315 | 1319 |
| 1424 | 1503 | 1505 | 1522 | 1597 | 1610 | 1611 | 1735 | 1738 |
| 1739 | 1827 | 1829 | 1845 | 1854 | 1874 | 1876 | 1888 | 1889 |
| $189 n$ | 1891 | 1892 | $i 898$ | 2143 | 2298 | 2401 | 2423 |  |

| (2) | $0 M$ |  |  |  | 512 | $5 /$ | $5.9 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

(L) $385 \quad 1249$

```
Units of Variation and Their Support (Cont.)
```

10 JAMES $1: 5$
(1) M8

| M8 |  |  |  |  |  |  | $40 / 47.1 \%$ |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| TR | 01 | 02 | 03 | 020 | 044 | 5 | 104 | 206 |
| 209 | 216 | 323 | 440 | 483 | 489 | 491 | 522 | 614 |
| 623 | 917 | 927 | 1175 | 1241 | 1243 | 1315 | 1505 | 1522 |
| 1611 | 1735 | 1739 | 1799 | 1827 | 1829 | 1845 | 1874 | 1890 |
| 1898 | 2143 | 2298 | 2412 |  |  |  |  |  |

(2) OUK |  |  |  |  |  | $45 ;$ | $52.9 \%$ |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 049 | 6 | 38 | 51 | 69 | 177 | 201 | 203 | 223 |
| 226 | 253 | 307 | 319 | 337 | 378 | 383 | 424 | 467 |
| 479 | 547 | 642 | 643 | 876 | 920 | 959 | 999 | 1022 |
| 1240 | 1245 | 1247 | 1248 | 1319 | 1424 | 1503 | 1597 | 1010 |
| 1738 | 1854 | 1876 | 1888 | 1889 | 1891 | 1892 | 2401 | 2423 |

(1) $385 \quad 1249$

20 JAMES 1:7

| (1) | 0 |  |  |  |  |  |  | 79/ | 2.9\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TR | 01 | 22 | 23 | 222 | ? 24 | 049 | 5 | 6 |
|  | 38 | 51 | 69 | 104 | 177 | 201 | 203 | 206 | 229 |
|  | 216 | 223 | 226 | 263 | 307 | 319 | 323 | 337 | 378 |
|  | 383 | 424 | 440 | 467 | 479 | 483 | 439 | 491 | 522 |
|  | 547 | 623 | 642 | 643 | 876 | 917 | 920 | 927 | 959 |
|  | 999 | 1022 | 1175 | 1240 | 1241 | 1243 | 1245 | ; 247 | 1248 |
|  | 1319 | 1424 | 1503 | 1522 | 1597 | 1610 | 1735 | 1738 | 1739 |
|  | 1827 | 1829 | 1845 | 1854 | 1374 | 1376 | 1888 | 1889 | 1890 |
|  | 1891 | 1892 | 1898 | 2143 | 2298 | 2401 | 2423 |  |  |
| (2) | OM |  |  |  |  |  |  | 61 | 7. $1 \%$ |
|  | 614 | 1315 | 1505 | ió11 | 1799 | 2412 |  |  |  |
| (L) | 385 | 1249 |  |  |  |  |  |  |  |

Units of Variation and Their Support (Cont.)

21 JAMES ${ }^{1}: 7$


30 JAMES i:ii

(1) | AUTOU(1) |  |  |  |  | $78 / 91.8 \%$ |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $T R$ | 01 | 02 | 03 | $n 20$ | 044 | 049 | 5 | 6 |
| 38 | 51 | 69 | 104 | 177 | 201 | 203 | 209 | 216 |
| 223 | 226 | 263 | 307 | 319 | 323 | 337 | 378 | 383 |
| 424 | 440 | 467 | 479 | 483 | 489 | 491 | 547 | 023 |
| 62,2 | 643 | 876 | 917 | 920 | 927 | 959 | 999 | 1022 |
| 1175 | 1240 | 1241 | 1243 | 1245 | 1247 | 1248 | 1315 | 1319 |
| 1424 | 1503 | $i 522$ | 1597 | 1510 | 1735 | 1738 | 1739 | 1027 |
| 1829 | 1845 | 1854 | 1874 | 1876 | 1883 | 1839 | 1890 | 1801 |
| 1892 | 1898 | 2143 | 2298 | 2401 | 2423 |  |  |  |

$\begin{array}{llllllllll}\text { (2) } & 0 M & & & & & & 7 \% \\ 206 & 522 & 614 & i 505 & 1611 & 1799 & 2412 & & 8.2 \%\end{array}$
(L) $385 \quad 1249$

Units of Variation and Their Support (Cont.)

35 JAMES 1:12

| (1) | 0 K | Ios |  |  |  |  |  | 73/ | 83.9\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TR | 020 | 049 | 5 | 6 | 38 | 51 | 69 | 104 |
|  | 177 | 201 | 203 | 209 | 216 | 223 | 226 | 307 | 319 |
|  | 337 | 378 | 383 | 385 | 424 | 440 | 467 | 479 | 483 |
|  | 489 | 491 | 522 | 614 | 623 | 542 | 643 | 876 | 917 |
|  | 920 | 927 | 959 | 999 | 1222 | 1240 | 1243 | 12.45 | 1247 |
|  | 1248 | 1249 | :315 | 1319 | 1424 | 1503 | $15 \cap 5$ | 1522 | 1597 |
|  | 1610 | 1611 | 1738 | 1799 | 1827 | 1845 | i854 | 1874 | 1876 |
|  | 1888 | 1889 | 1890 | 1891 | 1892 | 1898 | 2145 | 2401 | 2412 |
|  | 2423 |  |  |  |  |  |  |  |  |
| (2) | 0 T 4 | OS |  |  |  |  |  | 7\% | 3.0\% |
|  | 323 | 547 | 1175 | 1241 | 1735 | 1739 | 2298 |  |  |
| (3) | KURI |  |  |  |  |  |  | 21 | 2.3\% |
|  | 263 | 1829 |  |  |  |  |  |  |  |
| (4) | כM |  |  |  |  |  |  | 5! | 5.7\% |
|  | 21 | 02 | 23 | 044 | 226 |  |  |  |  |

41 JAMES : : 13

| (1) | Tou |  |  |  |  |  |  | 61 | 5.9\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TP | 51 | 223 | 1222 | 1245 | 1315 |  |  |  |
| (2) | OM |  |  |  |  |  |  | 81! | 93.19 |
|  | $\bigcirc 1$ | 22 | 23 | ก20 | 044 | ? 49 | 5 | 6 | 38 |
|  | 69 | 104 | 177 | 221 | 203 | 206 | 209 | 216 | 326 |
|  | 263 | 307 | 319 | 323 | 337 | 378 | 383 | 385 | 424 |
|  | 440 | $40 \%$ | 479 | 483 | 489 | 49 i | 522 | 547 | 514 |
|  | 623 | 642 | 643 | 876 | 017 | 习20 | 327 | 959 | 399 |
|  | 1175 | 1240 | 1241 | 1243 | 1247 | 1248 | 1240 | 1319 | 1424 |
|  | 1503 | 1525 | :522 | 1597 | 1610 | i5:1 | :735 | 1738 | 1739 |
|  | 1799 | 1827 | 1829 | 1845 | 1854 | 1874 | :370 | $i 888$ | 1889 |
|  | 1890 | 1891 | 1892 | 1898 | 2143 | 2290 | 2401 | 2412 | 2423 |

## Units of Variation and Their Support (Cont.)

51 JAMES 1:17

(1) | APO |  |  |  |  |  | $74 /$ | $85.1 \%$ |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $T R$ | 01 | 02 | 03 | 020 | 044 | 049 | 6 | 38 |
| 51 | 69 | 177 | 201 | 203 | 206 | 209 | 223 | 226 |
| 263 | 307 | 319 | 323 | 337 | 378 | 385 | 479 | 483 |
| 491 | 522 | 547 | 614 | 642 | 643 | 876 | 917 | 920 |
| 959 | 099 | 1022 | 1175 | 1240 | 1241 | 1243 | 1245 | 1247 |
| 1248 | 1249 | 1319 | 1424 | 1503 | 1505 | 1522 | 1597 | 1610 |
| 1611 | 1735 | 1738 | 1739 | 1799 | 1827 | 1829 | 1854 | 1874 |
| 1876 | 1889 | 1890 | 1891 | 1892 | 1898 | 2143 | 2298 | 2401 |
| 2412 | 2423 |  |  |  |  |  |  |  |

 $927 \quad 13 i 5 \quad 1845 \quad 1888$

52 JAMES 1:17


```
Units of Variation and Their Support (Cont.)
```

```
54 JAMES 1:17
(1) APOSKIASMA
\begin{tabular}{rrrrrrrrr}
\(T R\) & 02 & 020 & 044 & 049 & 5 & 6 & 38 & 51 \\
69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 \\
623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 \\
1022 & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 \\
1315 & 1319 & 1424 & 1503 & 1522 & 1597 & 1610 & 1611 & 1735 \\
1738 & 1739 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 \\
1888 & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2298 & 2401
\end{tabular} 2423
(2) APOSKIASMATSS
\(\begin{array}{lllll}01 & 03 & 614 & 1505 & 2412\end{array}\)
```

```
58 JAMES - ! ! 
```

58 JAMES - ! !
(1)

| $E$ | -WEIS |
| :---: | :---: |
| T | -1 |
| 30 |  |


| 216 | 223 | 263 | 307 | 319 | 323 | 337 | 378 | 383 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 385 | 424 | 440 | 467 | 479 | 480 | $49 i$ | 522 | 547 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 614 | 523 | 642 | 643 | 875 | 917 | 920 | 927 | 999 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 1022 | 1175 | $124 n$ | $i 241$ | 1243 | 1245 | $i 247$ | 1248 | $i 249$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 1319 | 1424 | 1503 | 1505 | $i 522$ | $i 597$ | $i 6 i 1$ | 1735 | 1738 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 1799 | 1827 | $i 829$ | $i 845$ | 1854 | 1874 | 1876 | 1888 | 1889 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | $\begin{array}{llllllll}1890 & 1891 & 1892 & 2143 & 2401 & 2412 & 2423\end{array}$

(2) +GAR $5 / 6.0 \%$ $\begin{array}{lllll}226 & 433 & 959 & 1610 & 2298\end{array}$
(S) 1315: + CAAR 0 THEOS
(S) 1898: fuTOE GAR BOUL.BTHETS
(U) 1739

```

Units of Variation and Their Support (Cont.)

60 JAMES \(1: 18\)
(1) \begin{tabular}{rrrrrrrrr}
\multicolumn{9}{c}{\(A P E K J 8 S E N\)} \\
\(T R\) & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
38 & 51 & 69 & 104 & 177 & 201 & 203 & 209 & 216 \\
223 & 226 & 263 & 307 & 319 & 323 & 337 & 383 & 385 \\
424 & 440 & 467 & 479 & 483 & 489 & 491 & 547 & 623 \\
642 & 643 & 917 & 920 & 927 & 959 & 999 & 1022 & 1175 \\
1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1597 & 1610 & 1611 & 1735 & 1738 & 1739 & 1827 \\
1829 & 1845 & 1854 & 1874 & 1876 & 1838 & 1889 & 1891 & 1892 \\
1898 & 2143 & 2298 & 2401 & 2423 & & & &
\end{tabular}
\(\begin{array}{llllllllll}\text { (2) EPOISSEN } \\ 206 & 378 & 522 & 614 & 376 & 1505 & 1522 & 1799 & 1890 \\ 2412 & & & & & & & & & \\ 240\end{array}\)

61 JAMES 1:18

(2)
\begin{tabular}{lllllllll} 
En: \\
01 & 22 & 244 & 1022 & 1175 & 1241 & 1245 & 1739 & \(11.5 \%\) \\
1827
\end{tabular} 2235

Units of Variation and Theis Support (Cont.)

74 JAMES 1:20
(1) OU KATERGAZETAI

79 JARSS : .
(1) \(D E\)
\begin{tabular}{rrrrrrrrr} 
DE & & & & & & & \(83 /\) & \(95.4 \sigma\) \\
\(T R\) & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
38 & 51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 \\
216 & 223 & 226 & 263 & 307 & 319 & 323 & 337 & 375 \\
383 & 385 & 424 & 440 & 467 & 479 & 483 & 491 & 547 \\
614 & 623 & 642 & 643 & 876 & 917 & 920 & 959 & 999 \\
1022 & 1175 & 1240 & \(i 241\) & 1245 & 1247 & 1248 & 1249 & 1515 \\
1319 & 1424 & 1503 & 1505 & 1522 & 1597 & 1510 & 1611 & 1735 \\
1738 & 1739 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1376 \\
1888 & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2298 & 2401
\end{tabular} \(2412 \quad 2423\)
(2) \(O M\)

4/ 4.6\%

\section*{Units of Variation and Their Support (Cont.)}

80 JAMES 1:22
\begin{tabular}{lrrrrrrrr} 
(1) LOGOU & & & & & & & \(75 / 86.2 \%\) \\
TR & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
38 & 51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 \\
216 & 223 & 226 & 263 & 307 & 319 & 323 & 337 & 385 \\
424 & 440 & 479 & 483 & 489 & 491 & 522 & 547 & 614 \\
623 & 642 & 643 & 876 & 917 & 920 & 1022 & 1175 & 1240 \\
1241 & 1243 & 1245 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 \\
1597 & 1610 & 1611 & 1735 & 1738 & 1739 & 1799 & 1829 & 1845 \\
1854 & 1874 & 1876 & 1888 & 1891 & 1892 & 1898 & 2143 & 2298 \\
2401 & 2412 & 2423 & & & & & & \\
(2) NOMOU & & & & & & & \(7 /\) & \(8.0 \%\) \\
& 378 & 467 & 1247 & 1522 & 1827 & 1889 & 1890 & \\
(3) LOGUN & & & & & & & \(5 /\) & \(5.7 \%\) \\
& \(38 j\) & 927 & 959 & 999 & 1505 & & & \\
& & & & & & & &
\end{tabular}

81 JAMES 1:22
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & MONON & AK? & TAI & & & & & \(78 /\) & 39.7\% \\
\hline & TR & 01 & 02 & 020 & 044 & 049 & 5 & 6 & 38 \\
\hline & 51 & 69 & 104 & 177 & 201 & 203 & 229 & 216 & 223 \\
\hline & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 547 & 623 \\
\hline & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 & 1022 \\
\hline & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 \\
\hline & 1319 & 1424 & 1503 & 1522 & 1597 & 1610 & 1735 & 1738 & 1739 \\
\hline & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1891 \\
\hline & 1892 & 1898 & 2143 & 2298 & 2401 & 2423 & & & \\
\hline \multirow[t]{2}{*}{(2)} & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{AKROATAL MONON}} & & & & & \(9{ }^{9}\) & 10.3\% \\
\hline & & & & 614 & 1505 & 1611 & 1799 & 1890 & 2412 \\
\hline
\end{tabular}
```

Units of Variation and Their Support (Cont..)

```

82 JAMES 1:23
(1) \begin{tabular}{rrrrrrrrr} 
OTI & & & & & & \(82 /\) & \(94.3 \%\) \\
TR & 01 & 03 & 020 & 044 & 049 & 5 & 6 & 38 \\
51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 \\
223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 \\
547 & 614 & 623 & 642 & 643 & 876 & 917 & 920 & 927 \\
959 & 999 & 1022 & 1175 & 1240 & 1245 & 1247 & 1248 & 1249 \\
1315 & 1319 & 1424 & 1503 & 1505 & 1522 & 1597 & 1610 & 1611 \\
1738 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 \\
1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2412 \\
2423 & & & & & & & &
\end{tabular}
(2) \(O M\) 5/ 5.7\%

84 J.PES 1:23

(2) NO: \(\mathrm{N}: 18 / 20.9 \%\)
\(\begin{array}{llllllllll}104 & 201 & 209 & 216 & 378 & 467 & 479 & 1247 & 1248\end{array}\) \(\begin{array}{lllllllllllllllll}1249 & 1503 & 1829 & 1876 & 1889 & 1890 & 1892 & 2401 & 2423\end{array}\)
(S) 385: LOGOS
```

Units of Variation and Their Support (Cont.)

```

90 JAMES 1:24
(1) GAR
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(2)} & \multicolumn{5}{|l|}{DE} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{5/ 5.7\%}} \\
\hline & 378 & 614 & 1505 & 1611 & 2412 & & \\
\hline \multirow[t]{2}{*}{(3)} & OM & & & & & \multirow[t]{2}{*}{31} & \(3.4 \%\) \\
\hline & \(2^{n}\) & & \(\cdots 9\) & & & & \\
\hline
\end{tabular}

96 JAMES i:25
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & \multicolumn{2}{|l|}{OUTOS(1)} & & & & & & \multicolumn{2}{|l|}{77/ 88.5\%} \\
\hline & TP & 020 & 044 & 049 & 5 & 6 & 38 & 51 & 69 \\
\hline & 104 & 177 & 201 & 203 & 206 & 2 29 & 216 & 223 & 226 \\
\hline & 263 & 307 & 319 & 337 & 378 & 383 & 385 & 424 & 440 \\
\hline & 467 & 479 & 483 & 489 & 491 & 522 & 547 & 614 & 623 \\
\hline & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 & 1222 \\
\hline & 1240 & 1245 & 1247 & 1248 & 1249 & i315 & 1319 & 1424 & 1503 \\
\hline & 1505 & 1522 & 1597 & 1610 & 1517 & 1738 & 1799 & 1827 & 1829 \\
\hline & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1890 & 1891 & 1892 \\
\hline & 1898 & 2143 & 2401 & 2412 & 2423 & & & & \\
\hline \multirow[t]{3}{*}{(2)} & OM & & & & & & & 10/ & 11.58 \\
\hline & 01 & 02 & 03 & 323 & 1175 & 1241 & 1243 & 1735 & 1739 \\
\hline & 2298 & & & & & & & & \\
\hline
\end{tabular}

\section*{Units of Variation and Their Support (Cont.)}

100 JAMES 1:26
(1) EI TIS \begin{tabular}{rrrrrrrrr} 
TR & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
38 & 51 & 104 & 177 & 201 & 203 & 206 & 209 & 216 \\
223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
385 & 424 & 440 & 479 & 483 & 489 & 491 & 522 & 547 \\
623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 \\
1022 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 & 1424 \\
1503 & 1505 & 1522 & 1597 & 1610 & 1611 & 1735 & 1738 & 1799 \\
1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1890 \\
1891 & 1092 & 1898 & 2143 & 2401 & 2423 & & &
\end{tabular}
(2) EI !L TTS 7/ 8.2\% \(\begin{array}{lllllll}69 & 467 & i 175 & 1241 & 1243 & 1739 & 2298\end{array}\)
(S) 614:
(S) 2412: II

105 JAISS \(:\) :26
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{3}{|l|}{SINAI SN UMIN} & & & & & 66. & 75.9\% \\
\hline & T? & 020 & 049 & 5 & 6 & 38 & 69 & 104 & 177 \\
\hline & 201 & 2n3 & 206 & 229 & 216 & 226 & 263 & 307 & 319 \\
\hline & 337 & 378 & 383 & 385 & 424 & 442 & 467 & 479 & 483 \\
\hline & 489 & 401 & 522 & 547 & 523 & 542 & 643 & 317 & 920 \\
\hline & 927 & 959 & 999 & 1240 & 1247 & 1248 & 1249 & i315 & 1319 \\
\hline & 1424 & i-n & 1522 & 1597 & 1610 & ; 738 & 1799 & ;829 & 1845 \\
\hline & 1854 & 1874 & 1876 & 1888 & 1889 & 1891 & 1892 & i898 & 2143 \\
\hline & 2298 & 2401 & 2423 & & & & & & \\
\hline \multirow[t]{2}{*}{(2)} & \multicolumn{3}{|l|}{en umin eivai} & & & & & 4/ & 4.6\% \\
\hline & 51 & 223 & 1022 & 1245 & & & & & \\
\hline \multirow[t]{3}{*}{(3)} & einai & & & & & & & 17/ & 19.5\% \\
\hline & 01 & \(\bigcirc 2\) & 03 & 044 & 323 & 614 & 876 & 1175 & 1241 \\
\hline & 1243 & 1505 & 1611 & 1735 & 1739 & i827 & 1890 & 2412 & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

106 JAMES 1:26
(1) AUTOU(1)
\begin{tabular}{rrrrrrrrr}
\multicolumn{8}{c}{ AUTOU( 1) } & \\
TR & 01 & 02 & 020 & 044 & 049 & 5 & 6 & 38 \\
51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 \\
223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 \\
547 & 623 & 642 & 643 & 917 & 920 & 927 & 959 & 999 \\
1022 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 \\
1319 & 1424 & 1503 & 1597 & 1610 & 1735 & 1738 & 1739 & 1799 \\
1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1890 & 1891 \\
1892 & 1898 & 2143 & 2298 & 2401 & 2423 & & &
\end{tabular}
(2) EAUTOU \(\begin{array}{lllllllll}03 & 614 & 876 & 1175 & 1505 & 1522 & 1611 & 1827 & 2412\end{array}\)

107 JAFES 1:26
(1) AUTDU(2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{9}{|l|}{AUTOU(2)} \\
\hline TR & 01 & 02 & 020 & \(\bigcirc 44\) & 049 & 5 & 6 & 38 \\
\hline 51 & 69 & 104 & 177 & 201 & 203 & \(2!6\) & 209 & 216 \\
\hline 223 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline 424 & 440 & 467 & 479 & 483 & 491 & 522 & 547 & 614 \\
\hline \(\ldots\) & 611? & 643 & 875 & 0.17 & 920 & 959 & 999 & 1022 \\
\hline \(1:\) & & :243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
\hline 1424 & 1503 & 1522 & 1597 & 1010 & 1735 & 1738 & 1739 & 1799 \\
\hline 1829 & 1845 & 1854 & 1074 & 1876 & 1888 & 1889 & 1890 & 189 \\
\hline 1892 & 1898 & 2143 & 2298 & 2401 & 241 & 242 & & \\
\hline
\end{tabular}
(2) EAMTOU 5/ 6.0\% \(\begin{array}{lllll}03 & 489 & 927 & 1505 & 1327\end{array}\)
(S) 1611: 0M
(0) \(226 \quad 1240\)
```

Units of Variation and Their Support (Cont.)

```
108 JAMES 1:27
    (1) TW 19/22.1\%
\begin{tabular}{rrrrrrrrr}
\(T R\) & 02 & 03 & 044 & 206 & 491 & 522 & 614 & 876 \\
1240 & 1241 & 1243 & 1505 & 1611 & 1735 & 1739 & 1799 & 2298
\end{tabular}
        2412
(2) \(O M\)
\begin{tabular}{rrrrrrrrr}
\(0 M\) & & & & & 38 & 51 & 69 & 104 \\
91 & 020 & 049 & 5 & 6 & 38 & 62 \\
177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 & 307 \\
319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 & 467 \\
479 & 483 & 489 & 547 & 623 & 642 & 643 & 917 & 920 \\
927 & 959 & 999 & 1022 & 1175 & 1245 & 1247 & 1248 & 1249 \\
1315 & 1319 & 1424 & 1503 & 1522 & 1597 & 1610 & 1738 & 1827 \\
1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1891 & 1892 \\
1898 & 2143 & 2401 & 2423 & & & & &
\end{tabular}
(U) 1890

112 JAMES : :27
(1) ASE iLu: EAJTON TBRETN
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline & & & & & & & & \\
\hline T9 & 01 & 33 & 222 & 049 & 5 & 0 & 38 & 5 \\
\hline 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 23 \\
\hline 226 & 263 & 307 & 319 & 323 & 337 & \(37 \%\) & 383 & 85 \\
\hline 424 & 446 & 467 & 479 & 483 & 439 & 491 & 522 & 347 \\
\hline 623 & 642 & 543 & 375 & 917 & 920 & 927 & 959 & 99 \\
\hline 1022 & 13.5 & 124n & 1241 & 1243 & 1245 & 12.47 & 1248 & 1249 \\
\hline 1315 & 1319 & 142.4 & 1503 & 1522 & 1597 & 1017 & :735 & 738 \\
\hline 1739 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 888 \\
\hline 1889 & 1890 & 1891 & 89,2 & 1898 & 214 & 22 & 4 & 2423 \\
\hline
\end{tabular}
(2) ASPILOUS EAUTOUS 28PETTE \(614 \quad 1505 \quad 1611 \quad 2412\)
(S) 02: ASPILON SEAUTON :8REIN
(0) 044

Units of Variation and Their Support (Cont.)

117 JAMES 2:1

(2) T8S DOX8S TDJ...CHRISTO: 9/ \(10.3^{\circ}\) \(\begin{array}{lllllllll}206 & 522 & 614 & i 505 & 1522 & 1611 & 1799 & 1890 & 2412\end{array}\)
```

120 JAME: `:2

```
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{N} & & & & & & & \multicolumn{2}{|l|}{78/89.7\%} \\
\hline & 02 & 020 & 049 & 5 & 6 & 38 & 51 & 69 \\
\hline 1 (i.). & 7 & 201 & 203 & 206 & 209 & 216 & 223 & 226 \\
\hline 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 \\
\hline 440 & 467 & 479 & 483 & 489 & 491 & 547 & 614 & 623 \\
\hline 642 & 643 & 876 & 917 & 920 & 927 & 359 & 999 & in2? \\
\hline 1240 & 1241 & 1243 & i245 & 1247 & 1248 & i249 & 1315 & i319 \\
\hline 1424 & 1503 & 1597 & 1010 & 1611 & 1735 & 1738 & 1739 & 1827 \\
\hline 1829 & 1845 & 1854 & :874 & \(i 875\) & 1888 & 1889 & 1891 & i892 \\
\hline 1898 & 2143 & 2298 & 2401 & 2412 & 2423 & & & \\
\hline
\end{tabular}


Units of Variation and Their Support (Cont.)

122 JAMES 2:3
(1) K EAT EPIBLEPS8TE
(2) EPIBLESSUTE DE 15/17.4\% \(\begin{array}{llllllllll}03 & 044 & 206 & 522 & 014 & 1175 & 1241 & 1243 & 1505\end{array}\) \(1611 \quad 1739 \quad 1799 \quad 1890 \quad 2298 \quad 2412\)
(S) 1522: ᄃP:ZLEPS8TE :巨

125 JAMES 2:3
(1) ESTHETA I I N LAMDRAN

Units of Variation and Their Support (Cont.)

127 JAMES 2:3
(1) AUTW \begin{tabular}{crrrrrrrr} 
TR & 020 & 049 & 5 & 6 & 38 & 51 & 69 & 104 \\
177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 & 307 \\
319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 & 467 \\
479 & 483 & 489 & 491 & 547 & 623 & 642 & 876 & 917 \\
920 & 927 & 959 & 999 & 1022 & 1240 & 1241 & 1245 & 1247 \\
1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1597 & 1610 & 1735 \\
1738 & 1739 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 \\
1889 & 1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2423 &
\end{tabular}
(2) \(O M\)
\begin{tabular}{rrrrrrrrr}
01 & 02 & 03 & 044 & 206 & 522 & 614 & 643 & 1175 \\
1243 & 1505 & 1522 & 1611 & 1799 & 1890 & 2412 & &
\end{tabular}

130 JAMES 2:3
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & EKEI & 8 KA & & & & & & 81/ & 93.19 \\
\hline & TP & 01 & 32 & \(\bigcirc 20\) & \(\bigcirc 44\) & 049 & 5 & 6 & 38 \\
\hline & 51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 \\
\hline & 223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
\hline & 385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 \\
\hline & 547 & 614 & 623 & 642 & 643 & 876 & 917 & 320 & 927 \\
\hline & 959 & 999 & 1222 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 \\
\hline & 1319 & 1424 & \(i 503\) & 1595 & i522 & 1597 & 1610 & 1611 & 1735 \\
\hline & 1738 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 \\
\hline & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2401 & 2412 & 2423 \\
\hline \multirow[t]{2}{*}{(2)} & 8 KA & THOU & EI & & & & & 61 & 6.9\% \\
\hline & 03 & 1175 & \(12^{41}\) & 1243 & 1739 & 2298 & & & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

132 JAMES 2:3
(1) \(\mathrm{KDE}(2)\)
\begin{tabular}{crrrrrrrr} 
HDE (2) & & & & & \multicolumn{2}{c}{\(71 / 81.6 \%\)} \\
\(T R\) & 01 & 020 & 049 & 5 & 6 & 38 & 51 & 69 \\
104 & 177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 \\
307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 \\
467 & 479 & 483 & 489 & 491 & 547 & 623 & 642 & 643 \\
876 & 917 & 920 & 927 & 959 & 999 & 1022 & 1240 & 1245 \\
1247 & 1248 & 1249 & 1315 & \(i 319\) & 1424 & 1503 & 1505 & 1597 \\
1610 & 1735 & 1738 & 1827 & \(: 829\) & 1845 & 1854 & 1874 & 1876 \\
1888 & 1889 & 1891 & 1892 & 1898 & 2143 & 2401 & 2423 & \\
& & & & & & & & \\
\(O M\) & & & & & & & \(18 / 48\) \\
02 & 03 & 044 & 206 & 522 & 614 & 1175 & 1241 & 1243 \\
1522 & 1611 & 1739 & 1709 & 1890 & 2298 & 2412 & &
\end{tabular}

134 JAMES 2:3
(1) :IPO
\begin{tabular}{rrrrrrrrr} 
UPO & & & & & & & \(69 /\) & \(80.2 \%\) \\
\(T R\) & 01 & 02 & \(n 3\) & 020 & 049 & 5 & 6 & 38 \\
51 & 69 & 104 & 177 & 201 & 203 & 209 & 216 & 223 \\
226 & 263 & 307 & 319 & 337 & 378 & 283 & 385 & 424 \\
440 & 467 & 479 & 483 & 489 & 491 & 547 & 623 & 643 \\
876 & 917 & 920 & 927 & 959 & 1022 & 1241 & 1243 & 1245 \\
1247 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1597 & 1735 \\
1738 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 \\
1891 & 1892 & 1898 & 2143 & 2298 & 2423 & & &
\end{tabular}
(2) \(\operatorname{SPI}\)

17/ 19.8\%
\(\begin{array}{lllllllll}044 & 206 & 323 & 522 & 614 & 642 & 999 & 1175 & 1240\end{array}\) \(\begin{array}{llllllll}1505 & 15222 & 1610 & 1011 & 1739 & 1799 & 1890 & 2412\end{array}\)
(0) 2401

Units of Variation and Their Support (Cont.)

135 JAMES 2:4
(1) KAI (1)

140 JAVES 2:5
(1)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|l|}{ADELPHOI MOU ASAD8TOI} & \multicolumn{2}{|l|}{76/ 92. 5 \%} \\
\hline T3 & \(\cdots 1\) & \(\bigcirc 2\) & 03 & 020 & 044 & 049 & 5 & 6 \\
\hline 51 & 69 & 104 & 177 & 201 & 203 & 209 & 216 & 223 \\
\hline 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline 424 & 440 & 467 & 479 & 483 & 489 & 491 & 547 & 623 \\
\hline 642 & 643 & 876 & 917 & 920 & 927 & \(9 シ 9\) & 999 & in22 \\
\hline 1175 & \(1:\) & 1241 & 1245 & 1247 & 1248 & 1249 & 1315 & i319 \\
\hline 1424 & 1503 & 1597 & 1510 & 1735 & 1738 & 1739 & 1827 & 1829 \\
\hline 1845 & :854 & 1874 & 1876 & 1888 & 1889 & 1891 & ;892 & 1898 \\
\hline 2143 & 2298 & 2401 & 2423 & & & & & \\
\hline
\end{tabular}
(2) MDU ADELPMOI AGAP8TOI 8/ 9.5\% \(\begin{array}{llllllll}522 & 614 & 1243 & 1505 & 1611 & 1799 & 1890 & 2412\end{array}\)
(S) 38: AG4P8TOI KOU ADELPHOI
(S) 206: NOU AGAP8NOI ADELPCDI
(S) 1522: MOU ADELPHOI OI AGAPOTOI

Units of Variation and Their Support (Cont.)
:43 JAMES 2:5
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{10}{*}{(1)} & TOU & KOSMOU & & & & & & 81/ & 93.1\% \\
\hline & TR & 02 & 020 & 044 & 049 & 5 & 6 & 38 & 51 \\
\hline & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
\hline & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 \\
\hline & 614 & 623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 \\
\hline & 999 & 1022 & 1240 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 \\
\hline & 1319 & 1424 & 1503 & 1505 & 1522 & 1597 & 1610 & i611 & 1735 \\
\hline & 1738 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 \\
\hline & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2401 & 2412 & 2423 \\
\hline (2) & \multicolumn{2}{|l|}{TW KכSM} & & & & & & 61 & 6.9\% \\
\hline & 01 & 03 & 1175 & 1241 & 1739 & 2298 & & & \\
\hline
\end{tabular}

144 JAMES 2:5
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & TouT & & & & & & & \multirow[t]{2}{*}{\(4 /\)} & \multirow[t]{2}{*}{4.6\%} \\
\hline & TR & 491 & 614 & 1247 & & & & & \\
\hline \multirow[t]{11}{*}{(2)} & OM & & & & & & & 83/ & 95.40 \\
\hline & 01 & 22 & 23 & 020 & 044 & 249 & 5 & 6 & 38 \\
\hline & 51 & 69 & 104 & 177 & 201 & 223 & 206 & \(2 \times 9\) & 210 \\
\hline & 223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
\hline & 385 & 424 & 440 & 467 & 479 & 483 & 489 & 522 & 547 \\
\hline & 623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 \\
\hline & 1022 & 1175 & 1240 & 1241 & 1243 & 1245 & 1248 & 1249 & 1315 \\
\hline & 1319 & 1424 & 1503 & 1505 & 1522 & 1597 & 1610 & 1611 & 1735 \\
\hline & 1738 & 1739 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 \\
\hline & 1888 & 1889 & 1890 & i891 & 1892 & 1898 & 2143 & 2298 & 2401 \\
\hline & 2412 & 2423 & & & & & & & \\
\hline
\end{tabular}
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Units of Variation and Their Support (Cont.)

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151 JAMES 2:6
(1) OUCH \begin{tabular}{rrrrrrrrr} 
OU & & & & & & \(76 /\) & \(87.4 \%\) \\
\(T R\) & 01 & \(n 3\) & 020 & 049 & 5 & 6 & 38 & 51 \\
69 & 104 & 177 & 201 & 203 & 209 & 216 & 223 & 226 \\
263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 \\
440 & 467 & 479 & 483 & 489 & 491 & 547 & 614 & 623 \\
642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 & 1022 \\
1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1597 & 1610 & 1738 & 1739 & 1799 & 1827 & 1829 \\
1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1891 & 1892 & 1898 \\
2143 & 2298 & 2401 & 2423 & & & & &
\end{tabular}
\(\begin{array}{ccccccccc}\text { (2) OUCHI } & & & & & 11 / & 12.6 \% \\ 02 & 044 \\ 1890 & 2412\end{array}\)

153 JANTS 2:7
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & OKK & & & & & & & \(75 /\) & 86.2\% \\
\hline & TR & 01 & 73 & 020 & \(\bigcirc 49\) & 5 & 6 & 38 & 51 \\
\hline & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
\hline & \(\because\) & 307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 \\
\hline & \(\because\) & 467 & 479 & 483 & 489 & 491 & 547 & 023 & 642 \\
\hline & 643 & 076 & 917 & 920 & 027 & 959 & 990 & i 222 & 1175 \\
\hline & 1240 & 1241 & i243 & 1245 & 1247 & 1248 & 1240 & 1315 & 1319 \\
\hline & 1424 & 1503 & 1597 & 1010 & 1738 & 1739 & id27 & 1829 & 1845 \\
\hline & 1854 & 1874 & 1076 & 1888 & 1889 & 1891 & 1892 & 1898 & 2143 \\
\hline & 2298 & 2001 & 2423 & & & & & & \\
\hline (2) & KAT & & & & & & & \(12!\) & 13.8\% \\
\hline & 02 & 044 & 263 & 522 & 614 & 1505 & i 522 & 1611 & 1735 \\
\hline & 1799 & 1890 & 2412 & & & & & & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

155 JAMES 2:7
(1) EPIKL8THEN
\begin{tabular}{rrrrrrrrr} 
TR & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
38 & 51 & 69 & 104 & 177 & 201 & 203 & 209 & 216 \\
223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 547 \\
623 & 642 & 643 & 876 & 920 & 927 & 959 & 999 & 1022 \\
1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1319 \\
1424 & 1503 & 1597 & 1610 & 1735 & 1738 & 1739 & 1827 & 1829 \\
1845 & 1854 & 1876 & 1888 & 1889 & 1891 & 1892 & 1898 & 2143 \\
2298 & 2401 & 2423 & & & & & &
\end{tabular}
(2) \(\begin{array}{cccccccccc}\text { KL8THEP } & & & & & & 12! & 13.8 \% \\ 206 & 522 & 614 & 917 & 1315 & 1505 & 1522 & 1611 & 1799 \\ 1874 & 1890 & 2412\end{array}\)

163 JAMES 2:8
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline SEAR & & & & & & & \multicolumn{2}{|r|}{. \(2 \%\)} \\
\hline TR & 21 & 02 & 23 & 220 & 044 & 049 & 5 & 6 \\
\hline 201 & 203 & 226 & 323 & 385 & 424 & 467 & 479 & 483 \\
\hline 547 & 614 & 623 & 917 & 920 & 1022 & 1245 & 1248 & 1249 \\
\hline 1503 & 1505 & 1610 & \(i 611\) & 1735 & 1739 & 1829 & 1845 & 1854 \\
\hline 1874 & 1876 & 1888 & :088 & 1892 & 1898 & 2298 & 2423 & \\
\hline
\end{tabular}
(2) \(5 A: I T O N\) 42! \(48.8 \%\)
\begin{tabular}{lllllllll}
308 & 51 & 69 & 104 & 177 & 209 & 216 & 223 & 263
\end{tabular}
\begin{tabular}{lllllllll}
307 & 319 & 337 & 378 & 383 & 440 & 489 & 491 & 522
\end{tabular}
\begin{tabular}{lllllllll}
642 & \(6 ́ 43\) & 876 & 927 & 959 & 999 & 1175 & 1240 & 1241
\end{tabular}
\begin{tabular}{llllllllll}
1243 & 1247 & 1315 & \(i 319\) & 1424 & 1522 & \(i 597\) & \(i 738\) & 1799
\end{tabular} \(\begin{array}{llllll}1827 & 1890 & 1891 & 2143 & 2401 & 2412\end{array}\)
(S) 20ć: EAUTOUS
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Units of Variation and Their Support (Cont.)

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173 JAMES 2:10
(1) OLON TON NOMON

174 JAMES ?:1n
(1) T8R8SRI
(2) PL8RNSEI 10/ 11.8\%
\begin{tabular}{lllllllll}
72 & 206 & 522 & 614 & 1505 & 1522 & 1611 & 1799 & 1890
\end{tabular}
(3) TELESEI 4/ 4.7\%
\(\begin{array}{llll}044 & 1241 & 1739 & 2298\end{array}\)
(S) 999: POIESEI
(S) 1175: \(78: 8\)

Units of Variation and Their Support (Cont.)

194 JAMES 2:13
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \[
\begin{array}{r}
\mathrm{KAI} \\
\mathrm{TR}
\end{array}
\] & 38 & 491 & 547 & 1249 & 1891 & & 61 & 7.0\% \\
\hline (2) & OM & & & & & & & \(80 /\) & 93.0\% \\
\hline & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 & 51 \\
\hline & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
\hline & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline & 424 & 440 & 467 & 479 & 483 & 489 & 614 & 623 & 64 \\
\hline & 643 & 876 & 917 & 920 & 927 & 959 & 999 & 1222 & 1175 \\
\hline & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1315 & 1319 & 1424 \\
\hline & 1503 & 1505 & 1522 & 1597 & 1610 & 1611 & 1735 & 1738 & 1739 \\
\hline & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 \\
\hline & 1890 & 1892 & i898 & 2143 & 2298 & \(240 i\) & 2412 & 2423 & \\
\hline
\end{tabular}
(0) 522

203 JANES 2:15

(2) \(O M\)

19: 22.1\% \(\begin{array}{lllllllll}01 & 03 & 5 & 0 & 69 & 327 & 323 & 385 & 623\end{array}\) \(\begin{array}{lllllllll}642 & 917 & i 241 & i 243 & i 245 & 1597 & i 739 & 1845 & 1874\end{array}\) 1898
(S) 1735: GAB
```

Units of Variation and Their Support (Cont.)

```
205 JAMES 2:15
(1) WSI
\begin{tabular}{rrrrrrrrr} 
WSI & & & & & & & \(82 /\) & \(94.3 \%\) \\
\(T R\) & 02 & 020 & 044 & 049 & 5 & 6 & 38 & 51 \\
69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 \\
614 & 623 & 642 & 643 & 376 & 917 & 920 & 927 & 959 \\
999 & 1022 & 1240 & 1241 & 1245 & 1247 & 1248 & 1249 & 1315 \\
1319 & 1424 & 1503 & 1505 & 1522 & 1597 & 1610 & 1611 & 1738 \\
1739 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 \\
1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2412 \\
2423 & & & & & & & &
\end{tabular}
\(\begin{array}{llllll}\text { (2) } & 04 & & & & \\ 01 & 03 & 1175 & 1243 & 1735\end{array}\)

213 JAMES 2:17
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{} & & & & & \multicolumn{2}{|l|}{55/ 64.0\%} \\
\hline TR & 020 & 049 & 5 & 38 & 51 & 104 & 177 & \(2 ? 1\) \\
\hline 223 & 209 & 223 & 2206 & 263 & 319 & 323 & 337 & 383 \\
\hline 385 & 467 & 479 & 483 & 489 & 491 & 547 & 643 & 917 \\
\hline 920 & 927 & 959 & 993 & 1022 & 1240 & 1245 & 1247 & 1248 \\
\hline 1249 & 1319 & 1424 & 1503 & \(i 597\) & 1010 & 1738 & 1759 & 1827 \\
\hline 1829 & 1854 & 1874 & 1876 & 1889 & 1891 & i892 & 2143 & 2401 \\
\hline 2423 & & & & & & & & \\
\hline
\end{tabular}
(2) M8 ECH8 ERSA 29/ 33.79
\begin{tabular}{lllllllll}
01 & 02 & 03 & 5 & 69 & 206 & 216 & 307 & 378
\end{tabular}
\begin{tabular}{lllllllll}
424 & 440 & 522 & 614 & 623 & 642 & 876 & \(i 175\) & 1241
\end{tabular} \(\begin{array}{lllllllll}1243 & 1315 & 1505 & 1011 & i 735 & 1799 & 1845 & 1888 & 1898\end{array}\) \(2298 \quad 2412\)
(3) APECYB ERGA 2/ 2.3\%
(S) 044: 5c.48 TA ERGA
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Units of Variation and Their Support (Cont.)

```
219 JAMES 2:18
(1) EK(1)
\begin{tabular}{rrrrrrrrr}
\(T R\) & 020 & 049 & 5 & 6 & 38 & 51 & 177 & 201 \\
203 & 209 & 216 & 223 & 226 & 263 & 307 & 319 & 323 \\
337 & 378 & 383 & 385 & 424 & 440 & 467 & 479 & 483 \\
489 & 491 & 547 & 642 & 643 & 917 & 920 & 927 & 959 \\
999 & 1022 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1522 & 1597 & 1010 & 1611 & 1738 & 1827 & 1829 \\
1854 & 1874 & 1876 & 1888 & 1889 & 1891 & 1892 & 1898 & 2143 \\
2298 & 2401 & 2423 & & & & & &
\end{tabular}
(2) CHWRIS 19/22.45 \(\begin{array}{lllllllll}01 & 02 & 23 & 044 & 69 & 104 & 206 & 522 & 614\end{array}\) \(\begin{array}{lllllllll}876 & 1175 & : 41 & 1243 & 1505 & 1735 & 1739 & 1799 & 1890\end{array}\) 2412
(0) \(6 ? 3 \quad 1845\)

220 JAMES :
(1) Sou(2)
\begin{tabular}{rrrrrrrrr}
\(T R\) & \(n 20\) & 049 & 5 & 6 & 38 & 51 & 69 & 104 \\
177 & 201 & 203 & 209 & 216 & 223 & 226 & 203 & 307 \\
319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 & 467 \\
479 & 483 & 489 & 491 & 547 & 542 & 543 & 917 & 920 \\
927 & 959 & 999 & 1222 & 1175 & 1240 & 1243 & 1245 & 1247 \\
1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1597 & 1610 & 1611 \\
1738 & 1799 & 1827 & 1829 & 1854 & 1874 & 1876 & 1838 & 1889 \\
1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2423 & &
\end{tabular}
(2) \(\begin{array}{rrrrrrrrr}0 M & & & & & & 15 / 17.6 \% \\ 01 & 02 & 03 & 044 & 206 & 522 & 614 & 876 & 1241\end{array}\) \(\begin{array}{llllll}1505 & 1522 & 1735 & 1739 & 1890 & 2412\end{array}\)
(0) 6231845

\section*{Units of Variation and Their Support (Cont.)}

224 JAMES 2:18
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & DEIXW & W SOI & & & & & & 69/ & 80.2\% \\
\hline & TR & 02 & 020 & 044 & 049 & 5 & 6 & 51 & 104 \\
\hline & 177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 & 307 \\
\hline & 319 & 323 & 337 & 383 & 385 & 424 & 440 & 467 & 479 \\
\hline & 483 & 489 & 491 & 547 & 623 & 876 & 917 & 920 & 927 \\
\hline & 959 & 999 & 1022 & 1240 & \(124 i\) & 1245 & 1247 & 1248 & 1249 \\
\hline & 1315 & 1319 & 1424 & 1503 & \(i 597\) & \(1 \in 10\) & 1735 & 1738 & 1739 \\
\hline & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1891 \\
\hline & 1892 & 1898 & 2143 & 2298 & 2401 & 2423 & & & \\
\hline (2) & SOI D & DEIXW & & & & & & 15/ & 17.4\% \\
\hline & 01 & 33 & 69 & 206 & 378 & 522 & 614 & 643 & 1175 \\
\hline & 1505 & 1522 & 1611 & 1799 & 1897 & 2412 & & & \\
\hline (3) & DEIXW & & & & & & & 21 & 2.3\% \\
\hline & 38 & 1243 & & & & & & & \\
\hline
\end{tabular}

226 JAMES 2:18
(1) MOU(2) \begin{tabular}{rrrrrrrrr} 
TR & n2 & 220 & 249 & 5 & 0 & 38 & \(59 / 81\) & 80.20 \\
104 & 177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 \\
307 & 319 & 337 & 378 & 383 & 385 & 424 & 440 & 467 \\
479 & 483 & 489 & 491 & 547 & 623 & 642 & 643 & 876 \\
917 & 920 & 927 & 959 & 999 & 1022 & 1240 & 1245 & 1247 \\
1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1597 & 1610 & 1735 \\
1738 & 1827 & 1829 & 1345 & 1854 & 1874 & 1876 & 1888 & 1889 \\
1891 & 1892 & 1898 & 2143 & 2298 & 2423 & & &
\end{tabular}
(2) \(O M\)
\begin{tabular}{rrrrrrrrr}
01 & 23 & 044 & 206 & 522 & 614 & 1175 & 1241 & 1243 \\
1505 & 1522 & 1611 & 1739 & 1799 & 1890 & 2401 & 2412 &
\end{tabular}
(0) 323

Units of Variation and Their Support (Cont.)

227 JAMES 2:19
(1) \begin{tabular}{rlllrrrrr}
0 THEOS EIS ESTI & & & & & \(58 / 67.4 \%\) \\
TR & 020 & 049 & 5 & 6 & 51 & 104 & 177 & 201 \\
203 & 209 & 216 & 223 & 226 & 263 & 307 & 323 & 337 \\
383 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 547 \\
623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 \\
1022 & 1240 & 1245 & 1247 & 1248 & 1249 & 1424 & 1503 & 1597 \\
1738 & 1827 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1892 \\
1898 & 2143 & 2401 & 2423 & & & & &
\end{tabular}
(2) THEOS EIS ESTI \(10 / 11.6 \%\) \(\begin{array}{lllllllll}38 & 69 & 319 & 378 & 385 & 1315 & i 319 & 1610 & 1829\end{array}\) 1891
(3) EIS ESTI 0 ?HEOS

3/ 3.5\%
01021735
(4) ETS SSTI THETS

3/ 3.5\%
\(1241 \quad 1739 \quad 2298\)
(5) EIS 0 THEOS ESTI 2! \(2.3 \%\)
\(i 1751243\)
(6) EIS THEOS ESTI 10/ 11.6\%
\(23206 \quad 522\) ó 14 i505 i522 1611 1799 i89n 2412
(S) \(044:\) Estin theos

231 JANES 2:20
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & DE & & & & & & & 80. & \(92.0 \%\) \\
\hline & T 5 & 01 & 02 & 23 & 929 & 044 & 249 & 5 & ó \\
\hline & 38 & 51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 \\
\hline & 216 & 223 & 226 & 307 & 319 & 323 & 337 & 383 & 385 \\
\hline & 424 & 440 & 479 & 483 & 489 & 491 & 522 & 547 & 614 \\
\hline & 623 & 642 & 043 & 876 & 917 & 920 & 927 & 959 & 999 \\
\hline & 1022 & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 \\
\hline & 1319 & 1424 & 1503 & 1505 & 1522 & 1610 & 1611 & 1735 & 1738 \\
\hline & 1739 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 \\
\hline & 1889 & 1890 & 1892 & 1898 & 2143 & 2298 & 2412 & 2423 & \\
\hline \multirow[t]{2}{*}{(2)} & OM & & & & & & & 71 & 3.0\% \\
\hline & 263 & 378 & 467 & 1315 & 1597 & 1891 & 2401 & & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

233 JAMFS 2:20


242 JAMES 2:22
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline 1) & EPGTN & & & & & & & \(76 /\) & 90.5. \\
\hline & T: & 0 & 02 & 93 & n2? & 244 & 049 & 5 & 51 \\
\hline & 69 & 104 & 177 & 201 & 203 & 2no & 216 & 223 & 226 \\
\hline & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 185 & 424 \\
\hline & \(44 \%\) & 467 & 479 & 483 & 489 & 491 & 547 & ¢23 & 542 \\
\hline & 643 & 876 & 917 & 920 & 927 & 359 & 999 & 1022 & 1175 \\
\hline & i240 & 1241 & 1243 & 1245 & 1248 & 1249 & 1315 & 1319 & 1424 \\
\hline & 1503 & 1597 & 1610 & 10́:1 & 1735 & 1738 & 1739 & 1827 & 1829 \\
\hline & 1845 & 1854 & :874 & :875 & ;885 & 180\% & 1891 & 189? & 1898 \\
\hline & 2143 & 2こ98 & 2401 & 2423 & & & & & \\
\hline \multirow[t]{2}{*}{} & + AUT & & & & & & & 81 & 9.5\% \\
\hline & 6 & 206 & 522 & 514 & 1505 & 1709 & 1890 & 2412 & \\
\hline \[
\begin{aligned}
& (S) \\
& (0)
\end{aligned}
\] & \multicolumn{9}{|l|}{\[
\begin{aligned}
& \text { 1522: + AUTVN AJTOU } \\
& 38 \text { 1247 }
\end{aligned}
\]} \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

245 JAMES 2:23
(1) \begin{tabular}{rrrrrrrrr} 
DE & & & & & & \(71 / 81.6 \%\) \\
\(T R\) & 01 & 02 & 03 & 049 & 6 & 38 & 51 & 69 \\
104 & 177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 \\
307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 \\
467 & 479 & 483 & 489 & 491 & 642 & 643 & 876 & 917 \\
920 & 927 & 959 & 999 & 1022 & 1175 & 1240 & 1243 & 1245 \\
1247 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1597 & 1610 \\
1735 & 1738 & 1739 & 1827 & 1829 & 1854 & 1874 & 1876 & 1888 \\
1889 & 1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2423 &
\end{tabular}
(2)
\begin{tabular}{lrrrrrrrr} 
OM & & & & & & \(16 /\) & \(18.4 \%\) \\
020 & 044 & 5 & 206 & 522 & 547 & 614 & 623 & 1241 \\
1505 & 1522 & 1611 & 1799 & 1845 & 1890 & 2412 & &
\end{tabular}

246 JK: 2:23
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|r|}{\(\stackrel{s}{ }\)} & & & & & \multicolumn{3}{|r|}{77/89.5\%} \\
\hline - & ; & 22 & 03 & ก20 & 244 & 049 & 5 & 5 \\
\hline \(5 i\) & 09 & 104 & 177 & 221 & 203 & 209 & 216 & 223 \\
\hline 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline 424 & 440 & 467 & 479 & 483 & 459 & 491 & 547 & \(52 ?\) \\
\hline 642 & 643 & 376 & 917 & 920 & 927 & 959 & 999 & 1022 \\
\hline 1175 & 124? & 1241 & 1243 & 1245 & 1247 & i248 & 1249 & 1315 \\
\hline 1319 & 1424 & i503 & 1597 & 1610 & 1735 & 1738 & i739 & 1827 \\
\hline 1829 & 1845 & i854 & 1874 & 1876 & 1888 & 1889 & 1891 & 1892 \\
\hline 1898 & 2143 & 2298 & 2401 & 2423 & & & & \\
\hline
\end{tabular}
\begin{tabular}{lllllllllll} 
(2) DOULOS & & & & & & & & \(10.5 \%\) \\
206 & 522 & 514 & 1505 & 1522 & 1011 & 1799 & 1890 & 2412
\end{tabular}
(0) 38
```

Units of Variation and Their Support (Cont.)

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257 JAMES 2：24

（2） \(0 M \quad 20 / 23.5 \%\)
\begin{tabular}{rrrrrrrrr}
01 & 02 & 03 & 044 & 206 & 307 & 522 & 614 & 642 \\
1175 & \(12: 1\) & 1245 & 1505 & 1522 & 1611 & 1735 & 1739 & 1799
\end{tabular}
\(1890 \quad 2412\)
（0） 38 124：

258 JAMES 2：25
（1）\(D E\)
82／95．3\％
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline T？ & 01 & 02 & 03 & 020 & ก24 & 249 & 6 & 38 \\
\hline 51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 \\
\hline 223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
\hline 385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 \\
\hline 547 & 614 & 642 & 643 & 376 & 917 & 920 & 927 & 959 \\
\hline 999 & 1022 & 1175 & 124 ？ & 1241 & 1243 & 1245 & 1248 & \(i 249\) \\
\hline 13 & － & 1424 & 1503 & 1505 & ； 522 & 1597 & 1019 & 1611 \\
\hline 「プ & 1 & 39 & 1799 & 1829 & 1854 & 1874 & 1876 & 1888 \\
\hline 1889 & 1890 & 1891 & i892 & 1898 & 2143 & 2298 & 2401 & 2412 \\
\hline 2423 & & & & & & & & \\
\hline
\end{tabular}
\(\begin{array}{lllll}\text {（2）} & \\ & 5 M & 623 & 1827 & 1845\end{array}\)
4／ \(4.7 \%\)
（0）i247
```

Units of Variation and Their Support (Cont.)

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259 JAMES 2:25
(1) \begin{tabular}{rrrrrrrrr}
\multicolumn{8}{c}{ AGGELO:S } & \\
TR & 01 & 02 & 03 & 044 & 049 & 5 & 6 & 38 \\
51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 \\
223 & 220 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
385 & 424 & 440 & 467 & 479 & 489 & 522 & 547 & 614 \\
623 & 643 & 876 & 920 & 927 & 959 & 1022 & 1175 & 1240 \\
1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1310 & 1424 & 1503 \\
1505 & 1522 & 1597 & 1611 & 1735 & 1738 & 1799 & 1829 & 1845 \\
1854 & 1876 & 1888 & 1889 & 1090 & 1891 & 1892 & 1898 & 2401 \\
2412 & 2423 & & & & & & &
\end{tabular}
(2) KATASKスPOUS 13/14.9\% \(\begin{array}{lllllllll}020 & 483 & 491 & 642 & 917 & 999 & 1241 & 1610 & 1739\end{array}\) \(\begin{array}{llll}1827 & 1874 & 2143 & 2298\end{array}\)

260 JAMES 2:26
(1) \begin{tabular}{rrrrrrrrr} 
TWN & & & & & & & \(75 /\) & 86.25 \\
\(T R\) & 02 & 020 & 049 & 5 & 6 & 38 & 51 & 69 \\
104 & 177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 \\
307 & 319 & 323 & 337 & 383 & 385 & 424 & 440 & 467 \\
479 & 483 & 489 & 491 & 522 & 547 & 523 & 642 & 543 \\
917 & 920 & 927 & 959 & 909 & 1022 & 1175 & 1240 & 1241 \\
1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 \\
1522 & 1597 & 1610 & 1735 & 1738 & 1739 & 1827 & 1829 & 1845 \\
1854 & -474 & 1876 & 1888 & 1889 & 1890 & 1891 & 1892 & 1898 \\
22. & & 2423 & & & & & &
\end{tabular}
(2) \begin{tabular}{rrrrrrrrr} 
OM & & & & & & & \(12 /\) & \(13.8 \%\) \\
01 & 03 & 944 & 206 & 378 & 614 & 876 & 1505 & 1611 \\
1799 & 2143 & 2412 & & & & & &
\end{tabular}

\section*{Units of Variation and Their Support (Cont.)}

269 JAMES 3:2
(1) \begin{tabular}{crrrrrrrr}
\multicolumn{2}{c}{ DUNATOS } & & & & & \(67 / 77.0 \%\) \\
TR & 02 & 03 & 020 & 044 & 049 & 5 & 6 & 38 \\
51 & 69 & 104 & 203 & 209 & 216 & 223 & 226 & 263 \\
307 & 319 & 323 & 378 & 383 & 385 & 424 & 440 & 467 \\
483 & 489 & 491 & 547 & 623 & 642 & 643 & 876 & 917 \\
920 & 927 & 959 & 999 & 1022 & 1175 & 1240 & 1241 & 1243 \\
1245 & 315 & 1319 & 1424 & 1597 & 1610 & \(16 i 1\) & 1735 & 1739 \\
\(179:\) & 9 & 1845 & 1854 & 1874 & 1888 & 1889 & 1891 & 1838 \\
2143 & \(2:\) & \(\ddots 01\) & 2423 & & & & &
\end{tabular}


276 JAMES 3:3
(1) \begin{tabular}{rrrrrrrrr} 
ProS & & & & & & & \(79 / 91.9 \%\) \\
TR & 02 & 020 & 044 & 049 & 5 & 0 & 38 & 51 \\
69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
424 & 467 & 479 & 483 & 489 & 491 & 522 & 547 & 614 \\
623 & 642 & 643 & 876 & 917 & 920 & 027 & 959 & 999 \\
1022 & 1175 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1505 & 1522 & 1597 & 1610 & 1611 & 1738 & 1799 \\
1827 & \(18 ? 9\) & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1890 \\
186 & & \(i 898\) & 2143 & 2401 & 2412 & 2423 & &
\end{tabular}
(2) EIS 7! 8.1\% \(\begin{array}{lllllll}01 & 23 & 440 & 1241 & i 735 & 1739 & 2298\end{array}\)
(0) 1243
```

Units of Variation and Their Support (Cont.)

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278 JAMES 3:3
(1) AUTOUS 8MIN
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline + & 8, & & & & & & 8 & \\
\hline TR & 01 & 93 & 020 & 049 & 5 & 6 & 38 & 51 \\
\hline 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
\hline 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 \\
\hline 614 & 623 & 642 & 643 & 876 & 017 & 920 & 927 & 959 \\
\hline 999 & 1022 & 1175 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 \\
\hline 1319 & 1424 & 1503 & 1505 & 1522 & 1610 & 1611 & 1738 & 1799 \\
\hline 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1890 \\
\hline
\end{tabular} \(\begin{array}{llllll}1891 & 1892 & 2143 & 2401 & 2412 & 2423\end{array}\)
(2) 8MIN AUTOUS \(\begin{array}{lllllllll}n 2 & 044 & 1241 & 1597 & 1735 & 1739 & 1898 & 2298\end{array}\)
(0) 1243

282 JAMES 3:4
(1) SKL8RWiy ANEHTN
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|c|}{Londiv A:} & & \\
\hline TR & 02 & 227 & 044 & 249 & 5 & 0 & 38 & 5 \\
\hline 104 & 177 & 203 & 209 & 223 & 226 & 263 & 319 & 323 \\
\hline 337 & 383 & 385 & 467 & 483 & 489 & 491 & 547 & 623 \\
\hline 642 & 643 & 017 & 920 & 927 & 959 & 999 & 1022 & 1240 \\
\hline 1241 & 1245 & 1319 & 1424 & 1597 & :735 & i738 & 1739 & 1827 \\
\hline 1829 & 1845 & 1854 & 1874 & 1889 & ;891 & 1898 & 2143 & 2298 \\
\hline
\end{tabular} 2401
(2) ANEMWN SKLUSix
\begin{tabular}{lllllllll}
01 & 73 & 09 & 201 & 206 & 216 & 307 & 378 & 424
\end{tabular}
\begin{tabular}{lllllllll}
440 & 479 & 522 & 614 & 876 & 1175 & \(i 243\) & \(i 247\) & 1248
\end{tabular} \(\begin{array}{llllllllll}1249 & 1315 & 1503 & 1505 & 1522 & 1610 & 1011 & 1799 & 1876\end{array}\) \(1888 \quad 1890 \quad 1892 \quad 2412 \quad 2423\)

\section*{Units of Variation and Their Support (Cont.)}

287 JAMES 3:6
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{2}{|l|}{OUThS} & \multirow[b]{2}{*}{5} & \multirow[b]{2}{*}{6} & \multirow[b]{2}{*}{38} & \multirow[b]{2}{*}{51} & \multirow[b]{2}{*}{69} & \multicolumn{2}{|l|}{63. \(74.1 \%\)} \\
\hline & TR & 049 & & & & & & 177 & 201 \\
\hline & 2.33 & 206 & 216 & 223 & 226 & 307 & 319 & 337 & 383 \\
\hline & 385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 \\
\hline & 547 & 623 & 642 & 643 & 917 & 920 & 927 & 999 & 1922 \\
\hline & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 & 1424 & i503 \\
\hline & 1597 & 1610 & 1738 & 1799 & 1829 & 1845 & 1854 & 1874 & 1876 \\
\hline & 1888 & 1889 & 1891 & 1592 & 1898 & 2143 & 2298 & 2401 & 2423 \\
\hline (2) & \[
\begin{aligned}
& +K A I \\
& 320
\end{aligned}
\] & \(i 94\) & 263 & 378 & 876 & 1827 & & 61 & 7.1\% \\
\hline (3) & 3 M & & & & & & & 161 & 18.8\% \\
\hline & 01 & 02 & 03 & 744 & 323 & 514 & 1175 & 1241 & 1243 \\
\hline & 1505 & 15:2 & 1611 & 1735 & i739 & i89? & 2412 & & \\
\hline (0) & 209 & 959 & & & & & & & \\
\hline
\end{tabular}

294 JAMES \(3: 7\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{FE(1)}} & & & & & & \multicolumn{2}{|l|}{82! 94.35} \\
\hline & & & 92 & 23 & 220 & 1744 & 749 & 5 & j \\
\hline & 38 & 51 & 09 & 104 & 177 & 201 & 293 & 296 & 299 \\
\hline & 216 & 223 & 226 & 263 & \(3 \cap 7\) & 313 & 323 & 337 & 378 \\
\hline & 383 & 385 & 424 & 442 & \(4{ }^{6} 7\) & 470 & 483 & 197 & 522 \\
\hline & 547 & 674 & 623 & 542 & 543 & 876 & 917 & 320 & 999 \\
\hline & 102? & 1175 & 1240 & 124; & 1243 & 1245 & 1247 & 12400 & : 349 \\
\hline & 1315 & 1319 & 1424 & i593 & 1505 & 1522 & 1619 & i611 & i735 \\
\hline & 1733 & 1739 & 1827 & ¢ 48 & 1845 & i854 & 1874 & :876 & ;888 \\
\hline & 1889 & 1890 & :891 & 1892 & i¢¢8 & 2143 & 2298 & 2401 & 2412 \\
\hline \multicolumn{10}{|c|}{2423} \\
\hline \multirow[t]{2}{*}{(2)} & 3 M & & & & & & & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{5/ 5.7\%}} \\
\hline & 489 & 927 & 959 & 1597 & 1799 & & & & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

295 JAMES 3:7
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & TE(2) & & & & & & & & 90.8\% \\
\hline & TR & 01 & 03 & 020 & 044 & 049 & 5 & 6 & 38 \\
\hline & 51 & 69 & 104 & 177 & 201 & 203 & 209 & 216 & 223 \\
\hline & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 385 & 24 \\
\hline & 440 & 407 & 479 & 483 & 489 & 522 & 547 & 614 & 623 \\
\hline & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 & 1022 \\
\hline & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 \\
\hline & 1319 & 1424 & 1503 & 1505 & 1597 & 1611 & 1735 & 1738 & \(i 739\) \\
\hline & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 \\
\hline & 1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2412 & & \\
\hline (2) & & & & & & & & 81 & 9.2\% \\
\hline & 02 & 206 & 383 & 491 & \(i 522\) & 1610 & 1890 & 2423 & \\
\hline
\end{tabular}

296 JK .
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|l|}{DAMAZETAI KAI DEDAMASTAI} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{\[
\begin{array}{rr}
79 / 90.85 \\
5 & 6
\end{array}
\]}} \\
\hline TR & 21 & 02 & 23 & 920 & 244 & 049 & & \\
\hline 33 & 51 & 69 & 104 & 177 & 201 & 203 & 206 & 2 29 \\
\hline 223 & 226 & 263 & 307 & 319 & 337 & 378 & 383 & 385 \\
\hline 467 & 479 & 483 & 489 & 491 & 522 & 547 & 614 & 623 \\
\hline 642 & 643 & 870 & 917 & 920 & 927 & 959 & 999 & 1022 \\
\hline 1175 & 1240 & 1243 & 1245 & 1247 & 1248 & 1249 & ij19 & 1424 \\
\hline 1503 & 1505 & 1522 & 1597 & 1610 & 1611 & 1735 & 1730 & 1799 \\
\hline 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1890 \\
\hline 189. & 1892 & 1898 & 2143 & 2401 & 2412 & 2423 & & \\
\hline
\end{tabular}
\(\begin{array}{llllllllll}\text { (2) DEDAMASTAI KAI DAMAZETAI } & & & 8 / & 9 . ? \% \\ 216 & 323 & 424 & 440 & 1241 & 1315 & 1739 & 2298 & \end{array}\)
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Units of Variation and Their Support (Cont.)

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297 JAMES 3:8

(2) DUNATAI DAMASAI ANTHPWPWN 21/ \(24.4 \%\)
\begin{tabular}{rrrrrrrrr}
01 & 02 & 044 & 049 & 5 & 69 & 206 & 307 & 378 \\
522 & 623 & 1175 & 1241 & 1505 & 1522 & 1611 & 1735 & 1799
\end{tabular}
\(1845 \quad 1854 \quad 1800\)
(3) damasai dunatar anthridimn

3/ \(3.5 \%\)
\(03 \quad 1739 \quad 2298\)
(S) 1898: DUNATAI TWN AHTY. DAMASAI

300 JANES 3:9
\begin{tabular}{lrrrrrrrr} 
(1) THEON & & & & & & \(76 / 87.4 \%\) \\
FR & 020 & 049 & 6 & 38 & 51 & 69 & 104 & 177 \\
201 & 203 & 206 & 209 & 216 & 223 & 226 & 263 & 307 \\
319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 & 467 \\
479 & 483 & 489 & 491 & 522 & 5147 & 514 & 542 & 043 \\
876 & 917 & 920 & 927 & 959 & 099 & 1022 & 1240 & 1243 \\
1245 & 1247 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1505 \\
1522 & 1597 & 1610 & 1611 & 1738 & 1799 & 1827 & 1829 & 1854 \\
1874 & 1876 & 1888 & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 \\
2298 & 2401 & 2412 & 2423 & & & & & \\
(2) KURION & & & & & & \(11 /\) & \(12.6 \%\) \\
01 & 22 & 23 & 044 & 5 & 623 & 1175 & 1241 & 1735
\end{tabular}

Units of Variation and Their Support (Cont.)

302 JAMES 3:9
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{3}{|l|}{OMOIWSIN} & & & & & \multicolumn{2}{|l|}{78/ 91.8\%} \\
\hline & TR & 01 & 02 & 93 & 020 & 044 & 049 & 5 & 38 \\
\hline & 51 & 69 & 104 & 177 & 201 & 296 & 209 & 216 & 223 \\
\hline & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline & 424 & 440 & 467 & 479 & 483 & 489 & 522 & 547 & 623 \\
\hline & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 & 1022 \\
\hline & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & i315 \\
\hline & 1319 & 142.4 & 1503 & :597 & 1610 & 1735 & 1738 & 1739 & 1799 \\
\hline & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1891 \\
\hline & 1892 & 1898 & 2143 & 2298 & 2401 & 2423 & & & \\
\hline \multirow[t]{2}{*}{(2)} & \multicolumn{7}{|l|}{+ T OU} & \multicolumn{2}{|r|}{\multirow[t]{2}{*}{7/ 8.2\%}} \\
\hline & 491 & 614 & 1505 & 1522 & 1611 & 1890 & 2412 & & \\
\hline \[
\begin{aligned}
& (S) \\
& (0)
\end{aligned}
\] & \multicolumn{3}{|l|}{\[
\text { 203: } 06
\]} & & & & & & \\
\hline
\end{tabular}

303 JAMES
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & MOU & & & & & & & 761 & \(87.4 \%\) \\
\hline & TR & 01 & 72 & 93 & 220 & 344 & 240 & 5 & 6 \\
\hline & 38 & 69 & 104 & i77 & 201 & 203 & 206 & 209 & 216 \\
\hline & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline & 424 & 440 & 479 & 489 & 491 & 522 & 547 & 614 & 023 \\
\hline & 642 & 643 & 876 & 917 & 920 & 927 & 999 & :175 & 1240 \\
\hline & 1241 & 1243 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1505 \\
\hline & 1522 & 1597 & 1610 & 1611 & 1735 & 1738 & 1739 & 1790 & ;827 \\
\hline & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1890 & 1891 & 1892 \\
\hline & 1898 & 2143 & 2298 & 2412 & & & & & \\
\hline \multirow[t]{3}{*}{(2)} & \multicolumn{2}{|l|}{+ agapgiot} & & & & & & \(11 /\) & 12.6\% \\
\hline & 51 & 223 & 467 & 483 & 959 & :022 & 1245 & 1247 & 1889 \\
\hline & 2401 & 2423 & & & & & & & \\
\hline
\end{tabular}

Units of Variation and Thei: Support (Cont.)

306 JAMES 3:11
(1) \begin{tabular}{crrrrrrrr} 
GLUKU KAI & TO PIKRON & & & & \multicolumn{2}{c}{\(76 / 88.4 \%\)} \\
TR & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
38 & 51 & 69 & 104 & 177 & 201 & 203 & 209 & 216 \\
223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 547 \\
623 & 642 & 643 & 876 & 917 & 920 & 927 & 999 & 1022 \\
1175 & 1240 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1597 & 1610 & 1735 & 1738 & 1739 & 1827 & 1829 \\
1845 & 1854 & 1874 & 1876 & 1388 & 1889 & 1891 & 1892 & 1898 \\
2143 & 2298 & 2401 & 2423 & & & & &
\end{tabular}
(2) PIKRON KAI TO GLJKU 10 / \(11.6 \%\) \(\begin{array}{lllllllll}206 & 522 & 614 & 1241 & 1505 & 1522 & 1611 & 1799 & 1890\end{array}\) 2412
(S) 959: GLUKJ KAI PIK?ON

310 JANES 3:12
(1) \begin{tabular}{crrrrrrrr} 
गUTWS & & & & & & \multicolumn{2}{c}{\(78 / 89.7 \%\)} \\
TR & 01 & 020 & 044 & 049 & 5 & 0 & 38 & 51 \\
69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 \\
614 & 642 & 643 & 376 & 917 & 920 & 927 & 959 & 999 \\
1022 & 1240 & 1241 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1597 & 1610 & 1611 & 1735 & 1738 & 1739 & 1799 \\
1827 & 1829 & 1854 & 1874 & \(i 876\) & 1888 & 1889 & 1891 & 1892 \\
1898 & 2143 & 2298 & 2401 & 2412 & 2423 & & &
\end{tabular}
(2) OM

9/ 10.3\% \(\begin{array}{lllllllll}02 & 03 & 623 & 1175 & 1243 & 1505 & 1522 & 1845 & 189 n\end{array}\)

Units of Variation and Their Support (Cont.)

311 JAMES 3:12
(1) OUDEMIA P8S8
(2) OUTE MIA P3rs8

3/ \(3.5 \%\)
\(15051522 \quad 1890\)
(3) OUDE 3/ 3.5\%
\(\begin{array}{cccccccccc}\left.\text { (4) } \begin{array}{llllll}\text { OUTE } \\ 32 & 03 & 044 & 623 & 1175 & 1243\end{array}\right) 1735 & 1845 & & \end{array}\)
(J) 1241

312 JANE \(3: 12\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & KAI & & & & & & & 75. & 86.2\% \\
\hline & TR & 020 & 249 & 5 & б́ & 38 & 51 & 104 & 177 \\
\hline & 201 & 203 & 206 & 209 & 216 & 223 & 226 & 263 & 307 \\
\hline & 319 & 337 & 378 & 383 & 385 & 424 & 440 & 407 & 479 \\
\hline & 483 & 489 & 491 & 522 & 547 & 614 & 642 & 643 & 376 \\
\hline & 917 & 920 & 927 & 959 & 999 & 1022 & 1240 & 1245 & 1247 \\
\hline & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1505 & i522 & i597 \\
\hline & 1610 & 1611 & 1735 & 1738 & 1799 & 1827 & \(i 829\) & ;854 & 1874 \\
\hline & 1876 & 1888 & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2298 \\
\hline & 2401 & 2412 & 2423 & & & & & & \\
\hline \multirow[t]{3}{*}{(2)} & OM & & & & & & & \(12 /\) & 13.8\% \\
\hline & 01 & 02 & 03 & 044 & 69 & 323 & 623 & 1175 & \(124 i\) \\
\hline & 1243 & 1739 & 1845 & & & & & & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

315 JAMES 3:13
(1) TrIS \begin{tabular}{rrrrrrrrr} 
\\
TR & 01 & 02 & 03 & 020 & 044 & 5 & 38 & 69 \\
104 & 201 & 206 & 209 & 216 & 226 & 319 & 323 & 383 \\
385 & 424 & 440 & 467 & 479 & 483 & 491 & 522 & 547 \\
614 & 623 & 642 & 643 & 876 & 959 & 999 & 1022 & 1175 \\
1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1319 & 1503 & 1505 \\
1522 & 1597 & 1610 & 1011 & 1735 & 1738 & 1739 & 1799 & 1827 \\
1845 & 1876 & 1888 & 1889 & 1890 & 1891 & 1892 & 1898 & 2401 \\
2412 & 2423 & & & & & & &
\end{tabular}
(2) EI IIS \(\begin{array}{lllllrr}223 & 489 & 027 & 1315 & 2143 & 2298 & 9.3 \%\end{array}\)
(3) OM 13/ 15.1\% \(\begin{array}{lllllllll}049 & j & 177 & 263 & 307 & 337 & 917 & 920 & 1240\end{array}\)
(S) 378: OS IIS

317 JAMES 3:14


\section*{Jnits of Variation and Their Support (Cont.)}

320 JAMES 3:14
(1) \begin{tabular}{rrrrrrrrr}
\multicolumn{9}{c}{ T8 KARDIA } \\
TR & 02 & 03 & 020 & 044 & 049 & 5 & 6 & 38 \\
51 & 69 & 104 & 177 & 201 & 206 & 209 & 223 & 226 \\
263 & 307 & 319 & 337 & 378 & 383 & 385 & 424 & 467 \\
479 & 483 & 489 & 491 & 522 & 547 & 614 & 623 & 642 \\
876 & 917 & 920 & 927 & 959 & 999 & 1022 & 1175 & 1240 \\
1243 & 1245 & 1247 & 1248 & 1249 & 1319 & 1424 & 1503 & 1505 \\
1522 & 1597 & 1610 & 1611 & 1738 & 1799 & 1827 & 1829 & 1845 \\
1854 & 1874 & 1876 & 1888 & 1889 & \(189 n\) & 1891 & 1892 & 1898 \\
2143 & 2401 & 2412 & 2423 & & & & &
\end{tabular}
\begin{tabular}{cccccccccc} 
(2) TAIS KARDIAIS \\
01 & 203 & 216 & 323 & 440 & 643 & 1241 & \(i 315\) & 1735 \\
1739 & 2298
\end{tabular}

330 JAMES \(3: 4\)
(1) Katakaucuastue
\begin{tabular}{rrrrrrrrr}
\(T R\) & 01 & 03 & 020 & 244 & 049 & 5 & 6 & 51 \\
104 & 177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 \\
307 & 319 & 323 & 337 & 378 & 383 & 424 & \(44 n\) & 479 \\
483 & 489 & 491 & 514 & 623 & 042 & 643 & 676 & 917 \\
920 & 927 & 959 & 999 & 1022 & 1175 & \(124 n\) & 1241 & 1243 \\
1247 & 1248 & 1249 & 1315 & 1424 & 1503 & 1505 & 1522 & 1597 \\
1610 & 1611 & 1735 & 1738 & 1739 & 1827 & 1845 & 1854 & 1874 \\
1876 & 1888 & 1889 & 1890 & 1892 & 1898 & 2143 & 2298 & 2401 \\
2412 & 2423 & & & & & & &
\end{tabular}
(2) KAUCHASTHE

13/ 14.9\% \(\begin{array}{lllllllll}02 & 38 & 69 & 206 & 385 & 467 & 522 & 547 & 1245\end{array}\) \(131917991829 \quad 1891\)

Units of Variation and Their Support (Cont.)

351 JAMES 3:15
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & AuT8 & 8 Sop & & & & & & \(70 /\) & 81.4\% \\
\hline & TR & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
\hline & 38 & 51 & 69 & 177 & 201 & 203 & 209 & 216 & 223 \\
\hline & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline & 424 & 440 & 479 & 483 & 491 & 547 & 623 & 642 & 643 \\
\hline & 876 & 917 & 929 & 959 & 959 & 1022 & 1175 & 1240 & 1243 \\
\hline & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1597 \\
\hline & 1610 & 1735 & 1738 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 \\
\hline & 1888 & 1889 & 1891 & ;892 & 2143 & 2401 & 2423 & & \\
\hline \multirow[t]{2}{*}{(2)} & AuT8 & Sop: & & & & & & \(4 /\) & 4.7\% \\
\hline & 104 & 467 & 489 & 927 & & & & & \\
\hline \multirow[t]{3}{*}{(3)} & \multicolumn{3}{|l|}{8 SOPHIA AUTP} & & & & & 12/ & 14.0\% \\
\hline & 206 & & 514 & 1241 & 1525 & 1522 & 1611 & 1739 & 1799 \\
\hline & 1890 & - \({ }_{0}\) & 2412 & & & & & & \\
\hline
\end{tabular}

395 JANES \(3: 17\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{3}{|l|}{ADIAKRİOS} & & & & & \multicolumn{2}{|l|}{82/ 94.35} \\
\hline & TR & 01 & 02 & 23 & 220 & 044 & 249 & 5 & 5 \\
\hline & 38 & 51 & 69 & 194 & 177 & 201 & 202 & 206 & 209 \\
\hline & 216 & 223 & 226 & 263 & 307 & 319 & 323 & 337 & 383 \\
\hline & 385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 52.2 \\
\hline & 547 & 614 & 623 & 642 & 643 & 917 & 922 & 927 & 959 \\
\hline & 1022 & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & i248 & 1249 \\
\hline & 1315 & 1:19 & 1424 & 1503 & 1505 & 1522 & 1597 & i610 & 1511 \\
\hline & 1735 & 1738 & 1739 & 1790 & 1827 & 1829 & 1845 & 1854 & 1874 \\
\hline & 1876 & 1888 & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2298 \\
\hline \multicolumn{10}{|c|}{2412} \\
\hline \multirow[t]{2}{*}{(2)} & \multicolumn{7}{|l|}{EUDIAKAITOS} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{5/ 5.7\%}} \\
\hline & 378 & 876 & 999 & 2401 & 2423 & & & & \\
\hline
\end{tabular}
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Units of Variation and Their Support (Cont.)

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396 JAMES 3:17
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{KAI ( \(\bigcirc\) )} & & & & & & \multicolumn{2}{|l|}{66/ 75.9\%} \\
\hline TR & 020 & 049 & 6 & 38 & 51 & 69 & 104 & 177 \\
\hline 201 & 203 & 209 & 216 & 223 & 226 & 263 & 307 & 319 \\
\hline 323 & 337 & 378 & 383 & 385 & 424 & 440 & 467 & 479 \\
\hline 483 & 489 & 491 & 547 & 614 & 642 & 643 & 876 & 917 \\
\hline 920 & 927 & 999 & 1022 & 1240 & 1245 & 1247 & 1248 & 1249 \\
\hline 1315 & 1319 & 1503 & 1522 & 1597 & 1610 & 1738 & 1827 & 1829 \\
\hline 1854 & 1874 & 1876 & 1888 & 1889 & 1890 & 1891 & 1892 & 1898 \\
\hline 2143 & 2401 & 2423 & & & & & & \\
\hline
\end{tabular}
(2) \begin{tabular}{rrrrrrrrr}
OM & & & & & & \(21 / 24.1 \%\) \\
01 & 02 & 03 & 044 & 5 & 206 & 522 & 623 & 959 \\
1175 & 1241 & 1243 & 1424 & 1505 & \(161 i\) & 1735 & 1739 & 1799 \\
1845 & 2298 & 2412 & & & & & &
\end{tabular}

397 JAMES 3: \({ }^{\circ}\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & T8S & & & & & & & \(45 /\) & \(54.2 \%\) \\
\hline & TR & 049 & 6 & 38 & 51 & 59 & 104 & 177 & 201 \\
\hline & 203 & 209 & 216 & 223 & 226 & 263 & 307 & 319 & 323 \\
\hline & 337 & 378 & 383 & 385 & 42.4 & 440 & 483 & 523 & 643 \\
\hline & 917 & 920 & 959 & 999 & 1022 & 1240 & 1245 & 1247 & 1315 \\
\hline & 1319 & 1424 & 1611 & 1738 & 1854 & 1874 & 1891 & 1898 & 2143 \\
\hline (2) & 0 H & & & & & & & 38/ & 45.8\% \\
\hline & 02 & 93 & 320 & 5 & 206 & 467 & 479 & 489 & 522 \\
\hline & 547 & 614 & 642 & 876 & 927 & 1175 & 1241 & 1243 & 1248 \\
\hline & 1249 & 1503 & 1505 & 1522 & i597 & 1610 & 1735 & 1739 & 1799 \\
\hline & 1827 & 1829 & 1845 & 1876 & 1889 & 1890 & 1892 & 2298 & 2401 \\
\hline & 2412 & 2423 & & & & & & & \\
\hline
\end{tabular}
(S) 044: 0
(o) 1888
(U) \(0 i 491\)

Units of Variation and Their Support (Cont.)

398 JAMES 4:1
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{4}{|l|}{KAI Machai en umin} & & & & \multicolumn{2}{|l|}{63/73.3\%} \\
\hline TR & 020 & 349 & 6 & 38 & 51 & 104 & 177 & 201 \\
\hline 203 & 209 & 216 & 223 & 226 & 263 & 319 & 323 & 337 \\
\hline 378 & 383 & 385 & 424 & 440 & 467 & 479 & 483 & 489 \\
\hline 491 & 547 & 642 & 643 & 876 & 917 & 920 & 927 & 959 \\
\hline 999 & 1022 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
\hline 1424 & 1503 & 1597 & 1610 & 1738 & 1827 & 1829 & 1854 & 1874 \\
\hline 1876 & 1888 & 1889 & 1891 & 1892 & 1898 & 2143 & 2401 & 2423 \\
\hline
\end{tabular}
(2) KaI pothen machai en imin

18/20.9\% \(\begin{array}{lllllllll}01 & 03 & 69 & 206 & 307 & 522 & 614 & 1175 & 1241\end{array}\) \(\begin{array}{lllllllll}1243 & 1505 & 1522 & 1611 & 1739 & 1799 & 1890 & 2298 & 2412\end{array}\)
(3) EN UMIN ZAI POTHEN MACLAI 5/ 5.8\% \(\begin{array}{lllll}02 & 5 & 623 & 1735 & 1845\end{array}\)
(S) 044 : 5 N JMIN KAI MACHAI

400 JANES 4:2
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & 0ik & ECHET5 & & & & & & 51 & 5.8\% \\
\hline & TR & 1241 & 1738 & 1739 & 2298 & & & & \\
\hline \multirow[t]{7}{*}{(2)} & JUK & SCHETE & & & & & & \(49 /\) & 57.7\% \\
\hline & 32 & 03 & 020 & 049 & 5 & 5 & 51 & 69 & 104 \\
\hline & 177 & 201 & 209 & 216 & 223 & 226 & 263 & 319 & 337 \\
\hline & 378 & 383 & 385 & 424 & 440 & 467 & 479 & 491 & 014 \\
\hline & 642 & 643 & 917 & 920 & 999 & 1240 & 1247 & 1248 & 1249 \\
\hline & 1315 & 1424 & 1503 & 1597 & 1827 & ; 854 & 1874 & 1876 & 1888 \\
\hline & 1891 & 1892 & 1898 & 2143 & & & & & \\
\hline \multirow[t]{5}{*}{(3)} & KAI & OUK EC & ETE & & & & & 32; & 37.2\% \\
\hline & 01 & 044 & 38 & 203 & 206 & 307 & 323 & 483 & 489 \\
\hline & 522 & 547 & 623 & 876 & 327 & 959 & 1022 & 1175 & 1243 \\
\hline & 1245 & 1319 & 1505 & 1522 & 1611 & 1735 & 1799 & 1829 & i845 \\
\hline & 1889 & 1890 & 2401 & 2412 & 2423 & & & & \\
\hline
\end{tabular}
(0) 1610

Units of Variation and Their Support (Cont.)

401 JAMES 4:3
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{2}{|l|}{AITEITE} & & & & & & \multicolumn{2}{|l|}{75/ \(88.2 \%\)} \\
\hline & TR & 01 & 32 & 03 & 020 & 049 & 5 & 6 & 51 \\
\hline & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 & 226 \\
\hline & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 \\
\hline & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 & 614 \\
\hline & 643 & 876 & 917 & 929 & 927 & 959 & 999 & 102? & 1240 \\
\hline & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 & \(i 424\) & 1503 & 1505 \\
\hline & 1522 & 1597 & 1610 & 1611 & 1738 & \(i 799\) & 1827 & 1829 & 1854 \\
\hline & 1876 & 1888 & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2298 \\
\hline & 2401 & \(241^{-}\) & 2423 & & & & & & \\
\hline \multirow[t]{3}{*}{(2)} & \(+D E\) & & & & & & & 10: & 11.8\% \\
\hline & 044 & 69 & 623 & 642 & 1175 & 1241 & 1243 & 1735 & 1739 \\
\hline & 1845 & & & & & & & & \\
\hline (S) & 1874 & \multicolumn{2}{|l|}{- EISTHE} & & & & & & \\
\hline (0) & 38 & & & & & & & & \\
\hline
\end{tabular}

403 JAMES 4:4

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Units of Variation and Their Support (Cont.)

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404 JAMES \(4: 4\)
(1) AN OUN \begin{tabular}{rrrrrrrrr}
\multicolumn{2}{c}{} \\
TR & 02 & 020 & 044 & 049 & 69 & 104 & 177 & 201 \\
203 & 209 & 216 & 226 & 263 & 307 & 337 & 385 & 440 \\
479 & 483 & 491 & 642 & 643 & 876 & 917 & 920 & 1922 \\
1247 & 1248 & 1249 & 1315 & 1424 & 1503 & 1735 & 1738 & 1827 \\
1854 & 1874 & 1891 & & & & & &
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline EAN & OUN & & & & & & 11/ & 12.6\% \\
\hline 01 & 03 & 5 & 614 & 623 & 1175 & 1611 & 1739 & 1845 \\
\hline 1890 & 2298 & & & & & & & \\
\hline
\end{tabular}
(3) AN \begin{tabular}{rrrrrrrrr} 
& & & & & \(28 / 32.2 \%\) \\
6 & 38 & 51 & 223 & 319 & 323 & 378 & 383 & 424 \\
467 & 489 & 927 & 959 & 999 & 1240 & 1243 & 1245 & 1319 \\
1597 & 1610 & 1829 & 1876 & 1888 & 1892 & 1898 & 2143 & 2401 \\
2423 & & & & & & & &
\end{tabular}
\begin{tabular}{llllllllll} 
(4) & EAN \\
& 206 & 522 & 1241 & 1505 & 1522 & 1799 & 2412 & \(7!\) & \(8.0 \%\) \\
(5) OUN AN & & & & & & & \\
& 547 & 1889 & & & & & & \(2 /\) & \(2.3 \%\)
\end{tabular}

408 JANES 4:ó


\section*{Units of Variation and Their Support (Cont.)}
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409 JAMES 4:6
(1) DIO LEGEI O THEOS...CHARIN

| TR | 01 | 02 | 03 | 044 | 049 | 5 | 6 | 38 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 51 | 69 | 104 | 201 | 203 | 299 | 216 | 223 | 226 |
| 263 | 307 | 319 | 323 | 378 | 383 | 385 | 424 | 440 |
| 467 | 479 | 483 | 489 | 491 | 522 | 547 | 614 | 623 |
| 642 | 643 | 876 | 917 | 920 | 927 | 959 | 999 | 1022 |
| 1175 | 1240 | 1241 | 1243 | 1245 | 1247 | 1248 | 1249 | 1315 |
| 1319 | 1424 | 1503 | 1505 | 1522 | 1597 | 1610 | 1611 | 1735 |
| 1739 | 1799 | 1827 | 1829 | 1845 | 1854 | 1874 | 1876 | 1888 |
| 1889 | 1890 | 1891 | 1892 | 1898 | 2143 | 2298 | 2411 | 2412 |

    2423
    (2) }3\textrm{M}\mathrm{ 4! 4.7%
    (S) 206: 0 THEOS. . CHARIN
    412 JAMES 4:6

| 0 TH50S |  |  |  |  |  |  | 70/85.4\% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 01 | 02 | 23 | 044 | 749 | $\sigma$ | 38 | 69 |
| 104 | 201 | 203 | 236 | 216 | 226 | 263 | 307 | 323 |
| 383 | 385 | 424 | 440 | 467 | 479 | 483 | 489 | 491 |
| 522 | 547 | 614 | 542 | 643 | 917 | 920 | 927 | 959 |
| 999 | 1022 | 1175 | 1240 | 1241 | 1.2.43 | i245 | 1247 | i248 |
| 1249 | 1315 | 1424 | 1503 | : 505 | 1522 | 1597 | ió11 | i735 |
| 1799 | 1827 | 1829 | 1854 | 1874 | 1876 | 1088 | i889 | 1890 |
| 1891 | 1892 | 1898 | 2298 | 2401 | 2412 | 2423 |  |  |

(2) KURIOS 12! 14.6\%

| 5 | 51 | 209 | 223 | 319 | 378 | 623 | 876 | 1319 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

    1610 1739 2143
    (S) 1845: 9 KJRIOS
(0) $020 \quad 177 \quad 337 \quad 1738$

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Units of Variation and Their Support (Cont.)

413 JAMES \(4: 7\)
(1) \begin{tabular}{crrrrrrrr} 
ANTIST8TE & & & & & \(36 / 41.4 \%\) \\
TR & 020 & 044 & 5 & 6 & 104 & 177 & 201 & 203 \\
337 & 378 & 383 & 479 & 489 & 491 & 643 & 917 & 920 \\
927 & 999 & 1175 & 1240 & 1241 & 1243 & 1247 & 1248 & 1249 \\
1315 & 1424 & 1503 & 1597 & 1610 & 1738 & 1876 & 1892 & 2143
\end{tabular}
\begin{tabular}{crrrrrrrr}
\((2)\) \\
\(+D E\) & & & & & & \(51 /\) & \(58.6 \%\) \\
01 & 02 & 03 & 049 & 38 & 51 & 69 & 206 & 209 \\
216 & 223 & 226 & 263 & 307 & 319 & 323 & 385 & 424 \\
440 & 467 & 483 & 522 & 547 & 614 & 623 & 642 & 376 \\
959 & 1022 & 1245 & 1319 & 1505 & 1522 & 1611 & 1735 & 1739 \\
1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1088 & 1889 & 1897 \\
1891 & 1898 & 2298 & 2401 & 2412 & 2423 & & &
\end{tabular}

414 JAMES \(4: 8\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{3}{|l|}{KATharisate} & & & & & \multicolumn{2}{|l|}{81/93.1号} \\
\hline & TR & 01 & 02 & 33 & 92n & 044 & 749 & 5 & 5 \\
\hline & 38 & 51 & 69 & 104 & 177 & 201 & 203 & 206 & 216 \\
\hline & 223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
\hline & 385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 \\
\hline & 547 & 614 & 623 & 642 & 645 & 970́ & 920 & 927 & 959 \\
\hline & 1022 & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 \\
\hline & 1319 & 1424 & 1503 & 1505 & i522 & 1010 & 1611 & 1735 & i738 \\
\hline & 1739 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & ;888 \\
\hline & 1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2401 & 2412 & 2423 \\
\hline \multicolumn{8}{|l|}{\multirow[t]{2}{*}{\(\begin{array}{lllllll}\text { (2) } & + \text { TAS } \\ \\ 209 & 917 & 999 & 1315 & 1597 & 2298\end{array}\)}} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{6/6.9\%}} \\
\hline & & & & & & & & & \\
\hline
\end{tabular}
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Units of Variation and Their Support (Cont.)

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415 JAMES \(4: 8\)
(1) \begin{tabular}{rrrrrrrrr}
\multicolumn{9}{c}{ AGNISATE } \\
TR & \(n 1\) & \(n 2\) & 03 & 020 & 049 & 5 & 51 & 69 \\
104 & 177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 \\
307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 \\
467 & 479 & 483 & 489 & 491 & 547 & 614 & 623 & 642 \\
643 & 876 & 917 & 929 & 927 & 959 & 999 & 1022 & 1175 \\
1240 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1424 & 1503 \\
1597 & 1610 & 1611 & 1735 & 1738 & 1739 & 1827 & 1829 & 1845 \\
1854 & 1874 & 1876 & 1868 & \(i 889\) & 1891 & 1892 & 1898 & 2143 \\
2298 & 2401 & 2412 & 2423 & & & & &
\end{tabular}
\begin{tabular}{llllllll} 
(2) ASIASSEE & & & & & & \(6 \%\) & \(7.3 \%\) \\
206 & \(\equiv 22\) & 1505 & 1522 & 1799 & 1890 & &
\end{tabular}
(S) 044: KīHARISATE
(S) ó: éGNISANEES
(S) 38: AGNISTE8TaI
(S) 12. : AS":Sere
(S) 1319: n'sust beser

421 JAMES \(4: 19\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & 750 & & & & & & & 67 ! & 77.28 \\
\hline & TP & 220 & 349 & , & 6 & 38 & 51 & ¢9 & 104 \\
\hline & 177 & 201 & 203 & 209 & 216 & 223 & 226 & 263 & 19 \\
\hline & 323 & :37 & 383 & 385 & 424 & 440 & 467 & 479 & 483 \\
\hline & 489 & -91 & 547 & 623 & 042 & 643 & 876 & 917 & 929 \\
\hline & 927 & 959 & 999 & 1022 & i240 & 124: & 1245 & 1247 & 1248 \\
\hline & 1249 & 135 & 1424 & 1503 & 1597 & 1610 & 1738 & 1739 & i829 \\
\hline & 1845 & 1854 & 1874 & 1676 & 1888 & 1889 & 1891 & 1892 & 1898 \\
\hline & 2143 & 2298 & 2401 & 2423 & & & & & \\
\hline \multirow[t]{4}{*}{(2)} & OM & & & & & & & \(20 /\) & 23.9\% \\
\hline & 01 & 22 & 03 & 244 & 206 & 307 & 378 & 522 & 614 \\
\hline & 1175 & 1243 & 1319 & 1505 & 1522 & \(i 611\) & 1735 & 1799 & 1827 \\
\hline & 1890 & 2412 & & & & & & & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)
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422 JAMES 4:10

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(2) THEOU
424 JANES I! -7

| Ai | V ADELPHOI |  |  |  |  |  | 79/ 91.9\% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 03 | 020 | 049 | 6 | 38 | 51 | 69 |
| 104 | : 7 | 201 | 203 | 296 | 209 | 216 | 223 | 226 |
| 263 | 307 | 319 | 323 | 337 | 378 | 383 | 385 | 424 |
| 440 | 467 | 479 | 483 | 489 | 491 | 522 | 547 | 614 |
| 642 | 643 | 376 | $99^{7}$ | 920 | 927 | 959 | 999 | 1022 |
| 1240 | 1341 | 1243 | 1245 | 1247 | 1248 | 1249 | 1315 | : 319 |
| 1424 | 1505 | :505 | 1522 | 1597 | 1610 | 1611 | 17ミ8 | ;739 |
| 1799 | 1829 | 1854 | i87i | 1876 | 1888 | 1889 | 1890 | i891 |
| 1892 | 1898 | 2143 | 2298 | 2401 | 2412 | 2423 |  |  |

(2) ADELPHOI ALL,8LGN 4/ 4.7%
(3) ADELPYOI MO: ALL.8LWN 3/ 3.5%
(S) 1827: MLLBLWN ADELPPHOI MOU

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Units of Variation and Their Support (Cont.)

426 JAMES 4:11


427 JAMES \(4: 11\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{2}{|l|}{KAI (1)} & & & & & & \multicolumn{2}{|l|}{64! 73.6\%} \\
\hline & TR & 220 & 049 & 5 & 6 & 38 & 51 & 69 & 177 \\
\hline & 201 & 203 & 206 & 299 & 216 & 223 & 226 & 263 & 307 \\
\hline & 319 & 323 & 337 & 383 & 385 & 424 & 467 & 479 & 483 \\
\hline & 489 & 491 & 547 & 623 & 642 & 876 & 317 & 920 & 927 \\
\hline & 959 & 999 & 1022 & 1240 & 1245 & 1247 & 1248 & 1249 & 1319 \\
\hline & 1424 & 1503 & 1505 & 1597 & 16 in & i738 & 1829 & 1845 & 1854 \\
\hline & 1874 & 1870 & 1888 & 1889 & iS91 & 1892 & 1898 & 2143 & 2401 \\
\hline \multicolumn{10}{|c|}{2423} \\
\hline \multirow[t]{4}{*}{(2)} & 8 & & & & & & & 23/ & 26.4\% \\
\hline & 01 & 22 & 03 & 044 & 104 & 378 & 440 & 522 & 614 \\
\hline & 643 & 1175 & 1241 & 1243 & 1315 & 1522 & 1611 & 1735 & \(\bigcirc 739\) \\
\hline & 1799 & 1827 & 1890 & 2298 & 2412 & & & & \\
\hline
\end{tabular}
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Units of Variation and Their Support (Cont.)

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428 JAMES 4:11
(1) OUK \begin{tabular}{rrrrrrrrr} 
& & & & & & \(79 /\) & \(90.8 \%\) \\
TR & 01 & 02 & 93 & \(n 20\) & 049 & 5 & 6 & 38 \\
51 & 104 & 177 & 291 & 203 & 206 & 209 & 216 & 223 \\
226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 \\
614 & 623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 \\
999 & 1022 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1505 & 1522 & 1597 & 1610 & 1611 & 1735 & 1758 \\
1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1889 & 1890 \\
1891 & 1892 & 1898 & 2143 & 2401 & 2412 & 2423 & &
\end{tabular}
\begin{tabular}{lllllllll} 
(2) OKE:- & & & & & & \(8 /\) & \(9.2 \%\) \\
044 & 69 & 1175 & 1241 & 1243 & 1739 & 1888 & 2298 &
\end{tabular}

431 jAMES 4: 2
(1) NONOTHETBS
\begin{tabular}{rrrrrrrrr} 
IR & 020 & 049 & 5 & 38 & 51 & 104 & 177 & 203 \\
209 & 223 & 263 & 337 & 383 & 385 & 424 & 491 & 522 \\
547 & 642 & 917 & 920 & 927 & 099 & 1022 & 1240 & 1245 \\
1319 & 1424 & 1522 & 1597 & 1610 & 1738 & 1827 & 1829 & \(i 854\) \\
1874 & 1888 & 1889 & 1891 & 2143 & \(240 i\) & 2423 & &
\end{tabular}
(2) + KAI KRIT8S

38/46.9\%
\begin{tabular}{lllllllll} 
& 01 & 02 & 73 & 044 & 5 & 69 & 201 & 206 \\
210
\end{tabular}
\begin{tabular}{llllllllll}
226 & 307 & 323 & 378 & 140 & 467 & 479 & 483 & 514
\end{tabular}
\(623 \quad 876 \quad 959 \quad i 175 \quad i 241 \quad 1243 \quad 1247 \quad 1248 \quad 1249\) 1315 i5n3 1505 16i1 i735 1739 i876 i892 i898 2298 2412
(S) 64?: + KAI 0 KRI:8S
(S) 1845: + 2 Ki3II8S
(0) 17991890
(U) 319489

Units of Variation and Their Support (Cont.)

433 JAMES 4:12


436 JAMES : : 12


Units of Variation and Their Support (Cont.)

438 JAMES 4:12
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & \multicolumn{2}{|l|}{ETERON} & \multirow[b]{2}{*}{049} & \multirow[b]{2}{*}{6} & \multirow[b]{2}{*}{38} & \multirow[b]{2}{*}{51} & & \multirow[t]{2}{*}{\[
\begin{aligned}
& 63 / \\
& 177
\end{aligned}
\]} & 72.4\% \\
\hline & TR & 020 & & & & & 69 & & 201 \\
\hline & 203 & 209 & 216 & 223 & 226 & 263 & 307 & 319 & 337 \\
\hline & 378 & 383 & 385 & 424 & 440 & 467 & 479 & 483 & 489 \\
\hline & 491 & 547 & 642 & 643 & 876 & 917 & 920 & 927 & 959 \\
\hline & 999 & 1022 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
\hline & 1424 & 1503 & 1597 & 1610 & 1738 & 1827 & 1829 & 1854 & 1874 \\
\hline & 1876 & 1888 & 1889 & 1891 & 1892 & 1898 & 2143 & 2401 & 2423 \\
\hline \multirow[t]{4}{*}{(2)} & \multicolumn{2}{|l|}{PL.8SION} & & & & & & 24/ & 27.6\% \\
\hline & 01 & 02 & 03 & 044 & 5 & 104 & 206 & 323 & 522 \\
\hline & 614 & 52 & 1175 & 1241 & 1243 & 1505 & 1522 & 1611 & 1735 \\
\hline & 1739 & .799 & 1845 & 1890 & 2298 & 2412 & & & \\
\hline
\end{tabular}

443 JAMES 4:13
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & \multicolumn{2}{|l|}{KAI ( i)} & & & & & & 761 & \(87.4 \%^{\circ}\) \\
\hline & TR & 02 & 020 & 749 & 6 & 38 & 51 & 69 & 174 \\
\hline & 177 & 201 & 203 & 206 & 209 & 216 & 223 & 226 & 263 \\
\hline & 307 & 319 & 337 & 378 & 383 & 385 & 424 & 440 & 467 \\
\hline & 479 & 483 & 489 & 491 & 522 & 547 & 514 & 542 & 643 \\
\hline & 876 & 917 & 920 & 927 & 959 & 990 & 192? & 1175 & 1240 \\
\hline & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1310 & 1424 & 1503 \\
\hline & 1505 & 1522 & 1597 & 1610 & \(161 i\) & 1738 & 1799 & i827 & :829 \\
\hline & 1854 & 1874 & 1876 & 1848 & 1889 & 1890 & 1891 & 1892 & 1898 \\
\hline & 2143 & 2401 & 2412 & 2423 & & & & & \\
\hline \multirow[t]{3}{*}{(2)} & \multicolumn{2}{|l|}{8} & & & & & & 11/ & 12.65 \\
\hline & 01 & 03 & 044 & 5 & 323 & 623 & 1241 & 1735 & 1739 \\
\hline & 1845 & 2298 & & & & & & & \\
\hline
\end{tabular}

\section*{Units of Variation and Their Support (Cont.)}

444 JAMES 4:13
(1) \begin{tabular}{rrrrrrrrr} 
ENA & & & & & & & \(80 / 92.0 \%\) \\
TR & 02 & 020 & 044 & 049 & 5 & 6 & 38 & 51 \\
69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
226 & 263 & 319 & 323 & 337 & 378 & 383 & 385 & 424 \\
440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 & 614 \\
623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 \\
1022 & 1175 & 1240 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1505 & 1522 & 1597 & 1510 & 1611 & 1735 & 1738 \\
1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 \\
1890 & 1891 & 1892 & 1898 & 2143 & 2401 & 2412 & 2423 &
\end{tabular}
\(\begin{array}{cccccccc}\text { (2) } & O M & & & & & & \\ 01 & 13 & 307 & 1241 & 1243 & 1739 & 2298\end{array}\)

445 JAMES \(4: 1\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1)} & \(\square\) & & & & & & & 69/ & 81. 2 \% \\
\hline & TR & 01 & 320 & 044 & 049 & う & 6 & 38 & 51 \\
\hline & 69 & 104 & 177 & 291 & 203 & 299 & 216 & 223 & 226 \\
\hline & 263 & 307 & 319 & 323 & 337 & 383 & 385 & 424 & 440 \\
\hline & 467 & 479 & 483 & 489 & 491 & 547 & 523 & 642 & 543 \\
\hline & 876 & 217 & 920 & 927 & 959 & 999 & 1022 & 1240 & 1245 \\
\hline & 1247 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1597 & 1619 \\
\hline & 1735 & 1738 & 18.7 & 1829 & 1845 & i854 & 1874 & 1876́ & 1888 \\
\hline & 1889 & 1891 & 1892 & 1898 & 2143 & 2423 & & & \\
\hline \multirow[t]{3}{*}{(2)} & TA & & & & & & & 161 & 18.8\% \\
\hline & 02 & 206 & 378 & 522 & 614 & 1175 & 1241 & 1243 & 1505 \\
\hline & 1522 & 1511 & 1739 & 1799 & 1890 & 2298 & 2412 & & \\
\hline \multirow[t]{2}{*}{(S)} & 23. & JM & & & & & & & \\
\hline & 2401: & TON & & & & & & & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

446 JAMES 4:14
(1) GAR(1) \begin{tabular}{rrrrrrrrr} 
GR & 02 & 020 & 044 & 049 & 5 & 6 & 38 & 51 \\
69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 \\
623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 \\
1022 & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 \\
1315 & 1319 & 1424 & 1503 & 1597 & 1610 & 1735 & 1738 & 1739 \\
1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 \\
1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2423 & &
\end{tabular}
(2) \(0 M \quad 03-614 \quad 1505-1522-1611 \quad 1890 \quad 8 / 2 \%\)
\(\begin{array}{llllllll}01 & 03 & 614 & 1505 & 1522 & 1611 & 1890 & 2412\end{array}\)

448 JAMES :
(1) ESTI \begin{tabular}{rrrrrrrrr} 
& & & & \(36 / 42.49\) \\
TR & 020 & 5 & 201 & 293 & 206 & 209 & 216 & 226 \\
319 & 373 & 440 & 470 & 491 & 522 & 547 & 023 & 917 \\
959 & 999 & 1247 & 1248 & 1249 & 1315 & \(i 503\) & 1522 & 1735 \\
1799 & \(i 829\) & 1845 & 1876 & \(i 889\) & \(i 890\) & 1892 & 2401 & 2423
\end{tabular}
(2) ESTAI 37! 43.5\%

\(\begin{array}{lllllllll}263 & 337 & 383 & 385 & 424 & 467 & 483 & 489 & 543\end{array}\)
\(\begin{array}{lllllllll}870 & 320 & 927 & 1022 & 1240 & 1241 & 1245 & i 319 & 1424\end{array}\) \(\begin{array}{llllllllll}1505 & 1597 & 1610 & 1611 & 1738 & 1827 & 1854 & 1874 & 1888\end{array}\) 2143
(3) \(\begin{array}{rrrrrrrrr}\operatorname{ESTE} & & & & & & 12 / & 14.1 \% \\ 03 & 104 & 323 & 614 & 042 & 1175 & i 243 & i 739 & 1091 \\ 1898 & 2208 & 2412\end{array}\)
(0) 01
(U) 307

Units of Variation and Their Support (Cont.)

450 JAMES 4:14
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{8(2)}} & & & & & & \multicolumn{2}{|l|}{81/ 93.1\%} \\
\hline & & & 22 & 020 & 044 & 049 & 5 & 6 & 38 \\
\hline & 51 & 69 & 104 & 177 & 201 & 203 & 296 & 209 & 216 \\
\hline & 223 & 226 & 263 & 307 & 319 & 337 & 378 & 383 & 385 \\
\hline & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 52? & 547 \\
\hline & 614 & 623 & 642 & 643 & 876 & 917 & 920 & 927 & 959 \\
\hline & 999 & 1022 & 1240 & :243 & 1245 & 1247 & 1248 & 1249 & i315 \\
\hline & 1319 & 1424 & ; 503 & 1505 & \(152 \overline{2}\) & 1597 & 1617 & 1611 & 1735 \\
\hline & 1738 & 1799 & 18ご & 182? & 1845 & 1854 & 1874 & 1876 & - 888 \\
\hline & 1889 & 1890 & 1851 & 1892 & 1898 & 2143 & 2401 & 2412 & 2423 \\
\hline (2) & \multicolumn{7}{|l|}{OM} & \multicolumn{2}{|r|}{\multirow[t]{2}{*}{6/ 6.9\%}} \\
\hline & 33 & 323 & 1175 & 1241 & 1739 & 2298 & & & \\
\hline
\end{tabular}

451 JAMES 4:14
(1) \(\begin{array}{rrrrrrrrr}D 5 & & & & & & 17! & 20.72 \\ 7 ? ~ & 177 & 203 & 209 & 263 & 319 & 337 & 572 & 467 \\ 491 & i 3 i 5 & 1319 & i 424 & 1738 & i 876 & i 891 & 2143 & \end{array}\)
(2) Kй 12 , 14.15 \(\begin{array}{lllllllll}11 & 22 & 03 & 044 & 5 & 307 & 623 & i 175 & \vdots 241\end{array}\) \(1610 \quad 1739 \quad i 845\)
(3) + KAI 39. 45.39 \(\begin{array}{lllllllll}220 & 749 & 6 & 51 & 69 & 104 & 216 & 223 & 226\end{array}\) \(\begin{array}{lllllllll}323 & 383 & 385 & 424 & 44 n & 483 & 459 & 547 & 042\end{array}\) \(\begin{array}{llllllll} & 643 & 875 & 917 & 927 & 927 & 959 & 99 \\ i n 22 & i 24 n\end{array}\) \(\begin{array}{llllllllllll}1243 & i 245 & 1597 & i 755 & i 827 & i 829 & i 854 & 1889 & i 898\end{array}\) \(22982401 \quad 2423\)
(4) OM i7! 20.0\% \(\begin{array}{lllllllll}201 & 206 & 479 & 522 & 614 & 1247 & i 249 & i 249 & i 503\end{array}\) \(\begin{array}{llllllll}1505 & 1522 & 1011 & 1739 & i 874 & 1890 & 1892 & 2412\end{array}\)
(0) \(38 \quad 1888\)

Units of Variation and Their Support ( Cont.)

459 JAMES 4:16
(1) \begin{tabular}{rrrrrrrrr}
\(\operatorname{EN}\) & & & & & & & \(77 / 88.5 \%\) \\
\(T R\) & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
38 & 51 & 69 & 104 & 177 & 201 & 203 & 209 & 216 \\
223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 547 \\
623 & 642 & 643 & 917 & 920 & 927 & 959 & 999 & 1022 \\
1175 & 1240 & 1247 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 \\
1319 & 1424 & 1503 & 1597 & 1610 & 1735 & 1738 & 1739 & 1827 \\
1829 & 1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1891 & 1892 \\
1893 & 2143 & 2298 & 2401 & 2423 & & & &
\end{tabular}
(2) EPI \(\begin{array}{llllllllll} & & & & & & & 10 / & 11.5 \% \\ 206 & 522 & 6.4 & 876 & 1505 & 1522 & 1611 & 1799 & 1890\end{array}\)

460 JANES:
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & PASA & & & & & & & 75. & 89. 3 \% \\
\hline & TR & 02 & 23 & 220 & 044 & 749 & 5 & 6 & 38 \\
\hline & 51 & 69 & 104 & 177 & 201 & 299 & 216 & 223 & 226 \\
\hline & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 \\
\hline & 440 & 467 & 479 & 483 & 489 & 491 & 547 & 614 & 623 \\
\hline & 643 & 917 & 927 & 927 & 959 & 999 & in22 & 1175 & 1240 \\
\hline & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 & 1424 \\
\hline & 1503 & :597 & 1610 & 1735 & 1738 & 1739 & 1827 & 1829 & 1845 \\
\hline & 1854 & 1374 & :376 & ;888 & 1889 & 1891 & i892 & 1898 & 2143 \\
\hline & 2298 & 2401 & 2423 & & & & & & \\
\hline & + OUN & & & & & & & 9. & 10.7\% \\
\hline & 206 & 522 & 876 & 1505 & 1522 & 1611 & 1799 & 1800 & 2412 \\
\hline (S) & 01: & apasa & & & & & & & \\
\hline (S) & 203: & + DE & & & & & & & \\
\hline (S) & 642: & + GAB & & & & & & & \\
\hline
\end{tabular}
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Units of Variation and Their Suppurt (Cont.)

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464 JAMES 5：1
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{（1）} & \multicolumn{3}{|l|}{EPERCHONENAIS} & & & & & \multicolumn{2}{|l|}{80／93．0\％} \\
\hline & TR & 02 & 03 & 320 & 044 & 949 & 6 & 51 & 69 \\
\hline & 177 & 201 & 203 & 206 & 209 & 216 & 223 & 226 & 263 \\
\hline & 307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 \\
\hline & 467 & 479 & 483 & 489 & 491 & 522 & 547 & 614 & 642 \\
\hline & 643 & 876 & 917 & 920 & 927 & 959 & 999 & 1022 & 1175 \\
\hline & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
\hline & 1503 & 1505 & 1522 & 1597 & 1610 & 1611 & ：735 & 1738 & 1739 \\
\hline & 1799 & 1827 & 1829 & 1854 & 1874 & 1876 & ib88 & 1889 & 1890 \\
\hline & 1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2412 & 2423 & \\
\hline （2） & \[
\begin{gathered}
+\mathrm{M} \\
01
\end{gathered}
\] & 5 & 104 & 623 & 1424 & 1845 & & 6.1 & 7．0\％ \\
\hline （0） & 38 & & & & & & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline （1） & \multicolumn{2}{|l|}{TMLN（2）} & & & & & & \multicolumn{2}{|l|}{74． \(85.1 \%\)} \\
\hline & TR & 01 & 93 & 320 & 349 & ó & 38 & 51 & 69 \\
\hline & 177 & 201 & 203 & 206 & 299 & 216 & 223 & 226 & 253 \\
\hline & 307 & 319 & 323 & 337 & 378 & ことう & 385 & 424 & \(44 n\) \\
\hline & 467 & 479 & 483 & 489 & 491 & 52？ & 547 & 642 & 643 \\
\hline & 876 & 917 & 920 & 927 & 959 & 995 & in22 & 1240 & 124； \\
\hline & 1243 & i245 & 1247 & iく 48 & 1249 & iS15 & i弓ic & 1424 & 1503 \\
\hline & 1522 & 1597 & 1610 & 1755 & ：730 & 1759 & 1799 & 1829 & ：854 \\
\hline & 1874 & 1876 & 1888 & 1889 & ：891 & 1892 & 1898 & 2143 & 2298 \\
\hline & 2401 & 2423 & & & & & & & \\
\hline \multirow[t]{3}{*}{（2）} & ＋ 0 & IJS & & & & & & 13.1 & 14．9\％ \\
\hline & 32 & 244 & \(j\) & 194 & 614 & 623 & \(i 175\) & ； 505 & 1611 \\
\hline & 1827 & 1845 & ：890 & 2412 & & & & & \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

467 JAIES 5:3
(1) ESCHATAIS 8MERAIS
\begin{tabular}{rrrrrrrrr} 
IR & 01 & \(n 3\) & 020 & 044 & 049 & 5 & 6 & 38 \\
51 & 60 & 104 & 177 & 201 & 203 & 206 & 209 & 216 \\
223 & 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 \\
385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 \\
547 & 614 & 623 & 642 & 917 & 920 & 927 & 959 & 999 \\
1022 & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 \\
1315 & 1319 & 1424 & 1503 & 1505 & 1522 & 1597 & 1610 & 1611 \\
1738 & \(i 709\) & 1827 & \(i 829\) & 1845 & 1854 & 1874 & 1876 & 1888 \\
1889 & 1890 & 1891 & 1892 & 1898 & 2143 & 2401 & 2412 & 2423
\end{tabular}
(2) 8merais eschatais

4/ 4.6\%
\(32 \quad 1735 \quad 1739 \quad 22 j 8\)
(3) Tais Eschatais 8mezais
2.12 .35

643876

477 JAMES \(5: 7\)

(2)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline & \multicolumn{6}{|l|}{४ - \({ }^{\text {c }}\)} & \multicolumn{2}{|l|}{57! 67.14} \\
\hline \(3 \%\) & 719 & 6 & 38 & \(5 i\) & i04 & i77 & 201 & 2ヵ3 \\
\hline 209 & \(\because:\) & 226 & 263 & 319 & 323 & 337 & 378 & 383 \\
\hline 385 & 424 & 467 & 479 & 483 & 489 & 491 & 547 & 376 \\
\hline 917 & 920 & 959 & 999 & in22 & 1240 & \(i 245\) & 1247 & 1248 \\
\hline 1249 & i3:9 & : 424 & 1503 & 1522 & :610 & 1738 & 1827 & 1829 \\
\hline 1854 & 1874 & 1876 & :888 & 1889 & i8go & i891 & 1892 & ;898 \\
\hline 2143 & 2401 & 2423 & & & & & & \\
\hline
\end{tabular}
(S) 1597: AUT8S
(U) 927

Units of Variation and Their Support (Cont.)

478 JAMES 5:7
(1) \begin{tabular}{rrrrrrrrr} 
AN & & & & & & \(50 / 57.5 \%\) \\
TR & 01 & 044 & 5 & 51 & 69 & 104 & 201 & 206 \\
216 & 223 & 323 & 440 & 479 & 483 & 522 & 547 & 614 \\
623 & 876 & 920 & 959 & 999 & 1022 & 1175 & 1240 & 1243 \\
1245 & 1248 & 1249 & 1315 & 1319 & 1424 & 1503 & 1505 & 1522 \\
1611 & 1799 & 1829 & 1845 & 1874 & 1876 & 1889 & 1890 & 1892 \\
2143 & 2298 & 2401 & 2412 & 2423 & & & &
\end{tabular}
(2) OM \begin{tabular}{rrrrrrrrr} 
OM & & & & & & \(35 / 40.20\) \\
02 & 03 & 020 & 049 & 6 & 38 & 177 & 203 & 209 \\
226 & 263 & 307 & 319 & 337 & 378 & 383 & 385 & 424 \\
467 & 489 & 642 & 643 & 917 & 927 & 1241 & 1247 & 1610 \\
1735 & 1738 & 1739 & 1827 & 1854 & 1888 & 1891 & 1898 &
\end{tabular}
(3) 00

2/ 2.39

480 JAMES 5:7

(S) ग1: KARPON TON
(S) 69: KAI :ON
(S) i175: KARPON
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Units of Variation and Their Support (Cont.)

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483 JAMES 5:8

(2) \(\begin{array}{llllllllll}+8 \mathrm{MWN} \\ 206 & 378 & 522 & 614 & 1505 & 1522 & 1611 & 1790 & 11.6 \% \\ & 24997\end{array}\)
(S) 1241: THEOU

485 JANES 5:9

(2) ADELPPHOI KAT ALLBL.KN 21/ \(24.4 \%\)
\begin{tabular}{rrrrrrrrr}
03 & 044 & 5 & 69 & 276 & 378 & 522 & 614 & 023 \\
022 & 1241 & \(i 245\) & 1505 & \(i 522\) & \(i 611\) & \(i 739\) & 1799 & 1845
\end{tabular}
\(18902298 \quad 2412\)
(3) ADEL.PHOI MOU KAT ULL8L,WN 5! 5.8\% \(\begin{array}{lllll}02 & 642 & i 175 & i 735 & 1827\end{array}\)
(4) KAT AL.L.8Liwn 3/ 3.5\% \(307 \quad 876\) і888
(S) i319: MET' ALLBLWN ADELPHOI

Units of Variation and Their Support (cont.)

488 JAMES 5:9
(1) KATAKRITH8TE 4/4.6\%
\(\begin{array}{llll}\text { IR } & 209 & 547 & 1315\end{array}\)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{KRITH8TE} & & & & & \multicolumn{3}{|r|}{83! \(95.4 \%\)} \\
\hline 01 & 02 & 03 & 320 & 044 & 049 & 5 & 5 & 38 \\
\hline 51 & 69 & 104 & 177 & 201 & 203 & 206 & 216 & 223 \\
\hline 226 & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 \\
\hline 424 & 440 & 467 & 473 & 483 & 489 & 491 & 522 & 6:4 \\
\hline 623 & 642 & 643 & 876 & 917 & 027 & 027 & 959 & 999 \\
\hline 1022 & 1175 & i240 & 124; & 1243 & i245 & 1247 & i248 & 1249 \\
\hline 1319 & 1424 & 1503 & i505 & 1522 & :597 & \(10 \div 9\) & ;611 & 1735 \\
\hline 1738 & 1739 & 1799 & 18こ7 & 1829 & 1845 & 1854 & i874 & 1876 \\
\hline 1888 & і४४9 & 1890 & 169i & i892 & 1898 & 2143 & 2298 & 2401 \\
\hline 2412 & 2423 & & & & & & & \\
\hline
\end{tabular}

490 JAMES 5:17
(1) 18S KAKOPATH. ADELPKOI MOU n/ . O\%
(2) ADELPHOI :O: T8S KiKOP\& Th.
\begin{tabular}{rrrrrrrrr}
020 & 749 & 0 & 30 & 51 & 59 & 104 & 177 & 399 \\
216 & 223 & 263 & 307 & \(3 i 9\) & 323 & 337 & 378 & 303 \\
385 & 424 & 440 & 483 & 489 & \(49 i\) & 547 & 542 & 043 \\
876 & 917 & 920 & 927 & 959 & 999 & 1922 & \(i 240\) & \(i 245\) \\
1315 & \(i 424\) & 1597 & \(i 6 i 0\) & \(i 735\) & 1738 & \(i 827\) & \(i 829\) & 354 \\
1874 & \(i 888\) & \(i 889\) & 1091 & 2143 & 2298 & 2407 & 2423 &
\end{tabular}
(3) ADELPLOL ISS KAKOPATSEIAS 27/33.7\%
\(0203044 \quad 5 \quad 201\) 206 226 479 202
\(614 \quad 0231175\) i24i i24j i247 i248 i249 i503 \(1505 \quad 1522 \quad 1611 \quad 1739 \quad i 845 \quad i 875 \quad 189 n \quad i 892 \quad 24 i 2\)
(S) IR: F8S KAKOPATHETAS ADELPHOI MO:
(S) 01: ADELDAOI HOU ESS KALGEAGABHIAS
(S) 203: AD. M. AD. UPODEITAA LAEETE -. KAKOPATH.
(S) 467: TOS KAKOPATHEIAS
(S) 1j19: AD. MOU 53 S MAERPJTLSMIAS KAT KAKORATH.

(S) i898: ADELPHOI NOU TO TYS KAKOPATHEIAS

Units of Variation and Their Support (Cont.)

492 JAMES 5:10
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|l|}{MAKROTHUMIAS} & \multicolumn{2}{|l|}{80/ 93.0\%} \\
\hline TR & 01 & 03 & 320 & 049 & 6 & 38 & 51 & 59 \\
\hline 104 & 177 & 201 & 203 & 206 & 299 & 216 & 223 & 226 \\
\hline 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 \\
\hline 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 & 614 \\
\hline 642 & 643 & 876 & 917 & 920 & 927 & 959 & 999 & 1022 \\
\hline 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 \\
\hline 1424 & 1503 & 1505 & 1522 & 1597 & 1610 & i611 & 1738 & 1739 \\
\hline 1799 & 1827 & 1829 & 1854 & 1874 & 1876 & 1888 & 1889 & 1890 \\
\hline 1891 & 1892 & 1898 & 2143 & 2298 & 2401 & 2412 & 2423 & \\
\hline
\end{tabular}
(2) + ECHETE 6! 7.0\%
\(\begin{array}{llllll}22 & 044 & 5 & 623 & 1735 & 1845\end{array}\)
(S) 1319: SEE JNIT 490

494 JAMES 5:in
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{ELALBSAN} & & & & & & \multicolumn{2}{|l|}{52! 60.5\%} \\
\hline TR & 02 & 020 & 044 & 049 & б & 38 & 104 & i77 \\
\hline 203 & 209 & 216 & 225 & 263 & 337 & 378 & 383 & 385 \\
\hline 424 & 440 & 467 & 483 & 489 & 491 & 547 & 614 & 042 \\
\hline 643 & 917 & 920 & 927 & 959 & 1022 & 1240 & i245 & \(13 i 5\) \\
\hline 1319 & 1424 & 1503 & i522 & 1597 & 1735 & 1738 & 1827 & ;829 \\
\hline 1854 & 1874 & :888 & 1889 & 1897 & \(i 891\) & 2143 & & \\
\hline
\end{tabular}
(2) +5 N 34! 39.5\%
\begin{tabular}{rrrrrrrrr}
+21 & 03 & 5 & 51 & 69 & 201 & 206 & 223 & 307 \\
319 & 323 & 479 & 522 & 523 & 876 & 909 & 1175 & \(i 24 i\) \\
1243 & 1247 & \(i 248\) & 1249 & 1505 & \(i 610\) & \(i 6 i i\) & 1739 & 1799 \\
1845 & 1876 & \(i 892\) & 2298 & 2401 & 2412 & 2423 & &
\end{tabular}
(S) 1898: + 5PI

Units of Variation and Their Support（Cont．）

\section*{495 JAMES 5：19}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline （1） & \multicolumn{2}{|l|}{KJRIOU} & & & & & & \multicolumn{2}{|l|}{68／78．2\％} \\
\hline & TR & 01 & 02 & 33 & 320 & 044 & 049 & 6 & 38 \\
\hline & 51 & 104 & 201 & 203 & 299 & 216 & 223 & 226 & 263 \\
\hline & 307 & 378 & 383 & 385 & 424 & 440 & 467 & 479 & 483 \\
\hline & 489 & 491 & 547 & 642 & 643 & 876 & 917 & 920 & 927 \\
\hline & 959 & 999 & 1022 & 124n & 1243 & ：245 & 1247 & 1243 & 1249 \\
\hline & 1315 & 1319 & 1424 & i5n3 & 1522 & 1597 & 1610 & i735 & 1738 \\
\hline & 1827 & 1829 & 1854 & 1874 & 1876 & i888 & 1889 & 1890 & 1892 \\
\hline & i898 & 2143 & 2298 & 2401 & 2423 & & & & \\
\hline \multirow[t]{4}{*}{（2）} & To & KURIOU & & & & & & 19． & 21．8\％ \\
\hline & 5 & 69 & 177 & 296 & 319 & 323 & 337 & 522 & 514 \\
\hline & 623 & i175 & 1241 & 1505 & 16：11 & 1739 & 1799 & 1845 & 8891 \\
\hline & \multicolumn{9}{|l|}{\(24: 2\)} \\
\hline
\end{tabular}

501 JAMES 5：11
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline 1） & \multicolumn{3}{|l|}{pnitisdiancenos} & & & & & \multicolumn{2}{|l|}{6n： 69.0 \％} \\
\hline & TR & 91 & 72 & 73 & 720 & 744 & 749 & 5 & － \\
\hline & 69 & 201 & 209 & \(2 i 5\) & 226 & 307 & 319 & 323 & 383 \\
\hline & 305 & 424 & 440 & 467 & 479 & 403 & 489 & 547 & 614 \\
\hline & 623 & 643 & 876 & ¢ & 920 & 927 & in22 & iif5 & 1247 \\
\hline & 1245 & i247 & 1248 & ：240 & i3i9 & 1424 & i50j & 1597 & 1619 \\
\hline & 1735 & i739 & ；829 & 1845 & ：85，4 & 1874 & i876 & 1300 & i¢89 \\
\hline & ；891 & 1892 & 2143 & 3290 & 24.2 & 2423 & & & \\
\hline \multirow[t]{4}{*}{（2）} & \multicolumn{3}{|l|}{POLUEUSPLAGCHNOS} & & & & & \(27!\) & 31．\({ }^{\circ}\) \\
\hline & 38 & 51 & i04 & ¢77 & こワ3 & 206 & 223 & 263 & 337 \\
\hline & 378 & 491 & 522 & 642 & 959 & 999 & 124i & 1243 & ：315 \\
\hline & 1505 & \(15 こ 2\) & 1610 & ；738 & 1790 & 1827 & 1890 & －898 & \(24 n 1\) \\
\hline
\end{tabular}

Units of Variation and Their Support (Cont.)

502 JAMES 5:11
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{0 KJRIOS} & & & & & & \multicolumn{2}{|l|}{19/22.1\%} \\
\hline TR & 01 & 32 & 044 & 5 & 491 & 522 & 614 & 623 \\
\hline 1175 & 1243 & 1505 & 1611 & 1735 & 1739 & 1827 & 1845 & 2298 \\
\hline 2412 & & & & & & & & \\
\hline
\end{tabular}
(2) \begin{tabular}{lrrrrrrrr} 
OM & & & & & & \(67 /\) & \(77.9 \%\) \\
020 & 049 & 6 & 38 & 51 & 69 & 104 & 177 & 201 \\
203 & 206 & 209 & 216 & 223 & 226 & 263 & 307 & 310 \\
323 & 337 & 378 & 383 & 385 & 424 & 440 & 467 & 479 \\
483 & 489 & 547 & 642 & 643 & 876 & 917 & 920 & 927 \\
959 & 999 & \(i 022\) & 1240 & 1241 & 1245 & 1247 & 1248 & 1249 \\
1315 & 1319 & \(i 424\) & 1503 & 1522 & \(i 597\) & \(i 610\) & \(i 738\) & 1799 \\
1829 & 1854 & 1874 & 1876 & 1888 & \(i 869\) & \(i 890\) & \(189 i\) & 1892 \\
1898 & 2143 & \(240 i\) & 2423 & & & & &
\end{tabular}
(S) \(03:\) KURIOS

503 JAVPS 5:12
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & EIS & UPOKRI & & & & & & 761 & 88.4\% \\
\hline & :R & 020 & 344 & 749 & 5 & 6 & 38 & 51 & -9 \\
\hline & 177 & 201 & 203 & 200 & 216 & 223 & 263 & 397 & 319 \\
\hline & 323 & 337 & 378 & 383 & 385 & 424 & 440 & 467 & 479 \\
\hline & 483 & 489 & 491 & 522 & 547 & 514 & 623 & 642 & 043 \\
\hline & 876 & 917 & 927 & 927 & 959 & 999 & :722 & ;175 & i 247 \\
\hline & 1243 & 1245 & 1247 & i248 & i249 & 1315 & i319 & i424 & 1503 \\
\hline & 1505 & 1522 & i6in & 1611 & i735 & 1738 & i799 & i827 & i829 \\
\hline & 1845 & 1874 & 1876 & 1888 & 1889 & 1890 & ;891 & i802 & 2143 \\
\hline & 2298 & 2401 & 2412 & 2423 & & & & & \\
\hline (2) & UPO & KRISIN & & & & & & 10! & \(11.6 \%\) \\
\hline & 01 & 02 & 03 & 104 & 226 & 1241 & i597 & 1739 & 1854 \\
\hline & 1898 & & & & & & & & \\
\hline
\end{tabular}
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Units of Variation and Their Support (Cont.)

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507 JAMES 5:14
(1) \begin{tabular}{rrrrrrrrr} 
TOU & & & & & & & \(78 / 89.7 \%\) \\
\(T R\) & 01 & 020 & 049 & 5 & 6 & 38 & 51 & 69 \\
177 & 201 & 203 & 206 & 209 & 216 & 223 & 226 & 263 \\
307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 & 440 \\
479 & 483 & 489 & 491 & 522 & 614 & 623 & 642 & 643 \\
876 & 917 & 920 & 927 & 959 & 999 & 1022 & 1175 & 1240 \\
1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 & 1424 \\
1503 & 1505 & 1522 & 1597 & 1611 & 1735 & 1738 & 1739 & 1799 \\
1827 & 1829 & 1845 & 1854 & 1874 & 1888 & 1890 & 1891 & 1892 \\
1898 & 2143 & 2298 & 2401 & 2412 & 2423 & & &
\end{tabular}
\begin{tabular}{lllllllllll} 
(2) & \(0 M\) \\
& 02 & 03 & 044 & 104 & 467 & 547 & \(i 610\) & 1876 & 1889
\end{tabular}

508 JATES 5:15


\section*{Uni=s of Variation and Their Support (Cont.)}

510 JAMES 5:16

(2) \(\begin{array}{rrrrrrrrr} \\ 0 & & & & & & 24, & 27.6 \pi \\ 01 & 02 & 03 & 5 & 206 & 307 & 483 & 522 & 614 \\ 623 & 959 & 1175 & 1241 & 1243 & i 505 & 1522 & 1611 & 1735 \\ 1739 & 1799 & 1845 & 1890 & 2298 & 2412 & & & \end{array}\)

511 JAIES 5:16
(1) TA PARAPTNMATA
\begin{tabular}{rrrrrrrrr}
\(7 R\) & 049 & 38 & 51 & 69 & 104 & \(i 77\) & 201 & 209 \\
216 & 223 & 226 & 263 & 307 & 319 & 323 & 337 & 383 \\
385 & 424 & 440 & 467 & 479 & 483 & 489 & 491 & 547 \\
643 & 917 & 927 & 027 & 959 & 099 & 1022 & \(i 240\) & \(i 245\) \\
1247 & 1248 & 1249 & \(i 315\) & 1319 & \(i 424\) & 1503 & \(i 597\) & \(i 6 i n\) \\
1827 & 1829 & 1854 & \(i 874\) & 1876 & 1888 & 1889 & 1891 & \(i 89 ?\) \\
1898 & 2143 & 2401 & 2423 & & & & &
\end{tabular}
(2) TA PARAPTWMATA THN 5/ 5.9\%
\(\begin{array}{lllll}320 & 273 & 378 & 876 & 2298\end{array}\)
(3) TAS ARARTIAS EATMEN 3/ 3.5\%
(4) TAS AMARTLAS 9/ 10.6\%
\begin{tabular}{lllllllll}
31 & 02 & 73 & 044 & 6 & 642 & 1175 & 1243 & 1735
\end{tabular}
(5) TAS AMARTIAS JMNN 10/ 11.8\% \(\begin{array}{lllllllll}206 & 614 & 1241 & 1505 & 1522 & 1611 & 1739 & 1799 & 890\end{array}\) 2412
(S) 522: AMARTIAS AUTWN
(S) 1738: TA PARAPTWMATA EAUTWN

Units of Variation and Their Support（Cont．）

514 JAMES 5：17
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{8}{|l|}{（1）TOU M8 BREXAI} & \(76 /\) & 88．4\％ \\
\hline & TR & 01 & 02 & 33 & 020 & 049 & 6 & 38 & 51 \\
\hline & 69 & 104 & 177 & 201 & 203 & 206 & 209 & 216 & 223 \\
\hline & 226 & 263 & 307 & 319 & 337 & 378 & 383 & 385 & 424 \\
\hline & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 & 014 \\
\hline & 642 & 643 & 876 & 917 & 922 & 927 & 959 & 999 & 1022 \\
\hline & 1175 & 1240 & 1243 & 1245 & 1247 & 1248 & 1249 & \(13 i 5\) & 1319 \\
\hline & 1424 & 1503 & i597 & 16i0 & ：611 & 1735 & －738 & ¢799 & \(i 827\) \\
\hline & 1829 & 1854 & 1874 & i876 & i888 & 1889 & 1891 & 1892 & 1098 \\
\hline & 2143 & 2401 & 2412 & 2423 & & & & & \\
\hline \multirow[t]{2}{*}{（2）} & \multicolumn{4}{|l|}{TOU Mi8 EREXAL ：IETON} & & & & 71 & 8．1\％ \\
\hline & 5 & 323 & 623 & 1241 & 1739 & 1845 & 2298 & & \\
\hline \multirow[t]{2}{*}{（3）} & \multicolumn{4}{|l|}{INA M8 EREY8} & & & & 31 & 3．5\％ \\
\hline & 1505 & 1522 & 1890 & & & & & & \\
\hline
\end{tabular}
```

517 jAi冗S j:1%

```
（1）JETON EDWK
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline － & & & & & & & & \\
\hline T？ & 93 & 220 & 349 & & 51 & 69 & ir， 4 & i77 \\
\hline 201 & 203 & 206 & こ29 & 216 & 223 & 226 & 263 & 327 \\
\hline 319 & ミ23 & 337 & 375 & 383 & 385 & 424 & 445 & 467 \\
\hline 479 & 483 & 489 & \(4 ¢\) & 三22 & 347 & 014 & 642 & 543 \\
\hline 876 & 9.17 & 929 & \(9 ミ 7\) & 359 & 399 & in2？ & ：175 & 1240 \\
\hline 1243 & i245 & 1247 & i248 & i249 & 1315 & 13i9 & 1424 & ： 593 \\
\hline 1505 & i522 & 1597 & ión & ：611 & 1738 & ：799 & 1827 & ；829 \\
\hline 1854 & is74 & 1876 & ：888 & 1889 & ：890 & 1891 & i892 & 189 \\
\hline 2143 & 2401 & 2412 & 2423 & & & & & \\
\hline
\end{tabular}
（2）SDRKE \(15 \%\) \(\begin{array}{lllllllll}02 & 044 & 5 & 623 & 1241 & 1735 & 1739 & 1845 & 2298\end{array}\)
（S） \(31:\) EDWKEN TON JETON
（S）38：©匚โON OUK EDWKE

Units of Variation and Their Support (Cont.)

519 JAMES 5:19
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{2}{|l|}{ADELPHOI} & & & & & & \multicolumn{2}{|l|}{55/63.2\%} \\
\hline & TR & 020 & 049 & 5 & 6 & 38 & 51 & 104 & 177 \\
\hline & 201 & 203 & 209 & 223 & 226 & 263 & 319 & 323 & 337 \\
\hline & 383 & 385 & 479 & 483 & 489 & 491 & 547 & 643 & 917 \\
\hline & 920 & 927 & 959 & 999 & 1022 & 1240 & 1245 & 1247 & 1248 \\
\hline & 1249 & 1319 & 1424 & 1503 & 1597 & \(16: 0\) & 1738 & 1827 & 1829 \\
\hline & 1854 & 1874 & i876 & 1889 & 1891 & 1892 & 1898 & 2143 & 2401 \\
\hline & \multicolumn{9}{|l|}{2423} \\
\hline \multirow[t]{5}{*}{(2)} & \multicolumn{2}{|l|}{\(+\mathrm{MOU}\)} & & & & & & \(32 /\) & 36.8\% \\
\hline & 01 & 02 & 03 & 044 & 69 & 206 & 216 & 307 & 378 \\
\hline & 424 & 440 & 467 & 52.2 & 614 & 523 & 642 & 876 & 1175 \\
\hline & 1241 & 1243 & 1315 & 1505 & 1522 & ió11 & 1735 & 1739 & 1799 \\
\hline & 1845 & 1888 & 1890 & 2298 & 2412 & & & & \\
\hline
\end{tabular}

520 JARES 5:19

\(\begin{array}{cccccccccc}(2) & +78 S & \text { ODOU } \\ 01 & 5 & 307 & 467 & 623 & 542 & 643 & 1610 & 1845\end{array}\)
(0) 044
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Units of Variation and Their Support (Cont.)

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523 JAMES 5:20
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{2}{|l|}{GINWSKETW} & & & & & & \multicolumn{2}{|l|}{81/94.2\%} \\
\hline & Ti & 01 & 02 & 020 & 049 & 5 & ó & 38 & 51 \\
\hline & 104 & 177 & 201 & 203 & 296 & 209 & 216 & 223 & 226 \\
\hline & 263 & 307 & 319 & 323 & 337 & 378 & 383 & 385 & 424 \\
\hline & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 & 614 \\
\hline & 623 & 642 & 643 & -Tis & 917 & 920 & 927 & 959 & 999 \\
\hline & 1022 & 1175 & 1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 \\
\hline & 1315 & 1319 & 1424 & 1503 & 1597 & 1619 & 1611 & 1735 & 1738 \\
\hline & 1739 & 1799 & 1827 & 1829 & 1845 & 1854 & 1874 & 1876 & 1888 \\
\hline & 1889 & 1891 & i892 & \(i 898\) & 2143 & 2298 & 2401 & 2412 & 2423 \\
\hline \multirow[t]{2}{*}{(2)} & \multicolumn{2}{|l|}{GINWSKETE} & & & & & & \multirow[t]{2}{*}{51} & \multirow[t]{2}{*}{5.8\%} \\
\hline & 33 & 69 & 1505 & 1522 & 1890 & & & & \\
\hline & 944: & OM & & & & & & & \\
\hline
\end{tabular}

524 JANES 5:20
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline (1) & \multicolumn{5}{|l|}{PSJCHEN 5K THANATOU} & & & & \multicolumn{2}{|l|}{75/86.29} \\
\hline & TR & 020 & 344 & & 049 & 6 & 38 & 51 & 69 & 104 \\
\hline & 177 & 291 & 203 & & 296 & 209 & 216 & 223 & 226 & 263 \\
\hline & 319 & 323 & 337 & & 378 & 383 & 385 & 424 & 440 & 467 \\
\hline & 479 & 483 & 489 & & 491 & 522 & 547 & 642 & 643 & 876 \\
\hline & 917 & 923 & 327 & & 959 & 999 & 1022 & \(i 175\) & 1240 & 1241 \\
\hline & 1243 & 1245 & 124 & & 1248 & 1249 & 1315 & i319 & 1424 & :503 \\
\hline & 1505 & 1522 & i597 & & 15in & 1738 & 1799 & 1827 & 1829 & i854 \\
\hline & 1874 & 1876 & :888 & & 1889 & 1890 & 1891 & 1892 & :898 & 2143 \\
\hline & 2401 & 2412 & 242 & & & & & & & \\
\hline \multirow[t]{2}{*}{(2)} & \multicolumn{8}{|l|}{PSUCH8N AUTOU EK rhanatou} & 91 & 10. 38 \\
\hline & 01 & 32 & & 5 & 307 & 023 & :735 & 1739 & 1845 & 2298 \\
\hline (3) & \multicolumn{8}{|l|}{PSUCH8N EK THANATOU AUTOU \(\begin{array}{lll}33 & 614 & 1611\end{array}\)} & 31 & 3.4\% \\
\hline
\end{tabular}

525 JAMES 5:20
(1) \begin{tabular}{rrrrrrrrr}
\multicolumn{8}{c}{ AMARTIWN } & \\
TR & 01 & 02 & 03 & 020 & 044 & 049 & 5 & 6 \\
38 & 51 & 69 & 104 & 177 & 201 & 203 & 206 & 209 \\
216 & 223 & 226 & 263 & 307 & 319 & 323 & 337 & 385 \\
424 & 440 & 467 & 479 & 483 & 489 & 491 & 522 & 547 \\
623 & 642 & 643 & 917 & 920 & 927 & 959 & 1022 & 1175 \\
1240 & 1241 & 1243 & 1245 & 1247 & 1248 & 1249 & 1315 & 1319 \\
1424 & 1503 & 1597 & 1610 & 1735 & 1738 & 1739 & 1827 & 1829 \\
1845 & 1854 & 1874 & 1876 & 1888 & 1889 & 1891 & 1892 & 2143 \\
2298 & 2401 & 2423 & & & & & &
\end{tabular}
(2) + AM8N 10/ 11.8\% \(\begin{array}{lllllllll}378 & 383 & 614 & 876 & 1505 & 1522 & 1611 & 1890 & 1898\end{array}\) 2412
(S) 999: + DOXOLOGY
(S) 1799: AMART8MATKN


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                                    MERGE IOINTS AND GROUP CONTENTS
                            Single Linkage, Unweighted Similarity Coeficients
    ```
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GROUP 20 MERSES INTO GROUP 11 AT LEVEL 100.00.

```
GROUP 20 MERSES INTO GROUP 11 AT LEVEL 100.00.
GROUP 11 NOW CONTAINS:
GROUP 11 NOW CONTAINS:
    51 223
    51 223
GROUP 26 MERGES INTO GROUP 14 AT LEVEL 100.00.
GROUP 26 MERGES INTO GROUP 14 AT LEVEL 100.00.
GROUP 14: NOW CONTAIVS:
GROUP 14: NOW CONTAIVS:
    177 337
    177 337
GROUP 74 MEEGES INTO GROUP 7 AI LEVEL 99.31.
GROUP 74 MEEGES INTO GROUP 7 AI LEVEL 99.31.
GROUP 7 NOW CONTAINS:
GROUP 7 NOW CONTAINS:
    049 1854
    049 1854
GROUP 33 MEEGES INTO GAOUP 15 AT LEVEL 99.31.
GROUP 33 MEEGES INTO GAOUP 15 AT LEVEL 99.31.
GROUP 15 NOW CONTAINS:
GROUP 15 NOW CONTAINS:
    201479
    201479
GROUP 56 MERGES INTD GROUP 15 dT LEVEL 99.31.
GROUP 56 MERGES INTD GROUP 15 dT LEVEL 99.31.
gROUP 15 NOH CONTAINS:
gROUP 15 NOH CONTAINS:
    201449 1248
    201449 1248
GROUP 61 MERGES INTJ GROUP 15 AT LEVEL 99.31.
GROUP 61 MERGES INTJ GROUP 15 AT LEVEL 99.31.
GROUP 15 NOF CONTAINS:
GROUP 15 NOF CONTAINS:
    201 479 1248 1503
    201 479 1248 1503
GROUP 81 MERGES INTJ GROUP 15 AT LEVEL 99.31.
GROUP 81 MERGES INTJ GROUP 15 AT LEVEL 99.31.
GROUP 15 NOH OONTAINS:
GROUP 15 NOH OONTAINS:
    201 479
    201 479
GROUP 46 MERGES INTO GROUP 35 AT LEVE: 99.30.
GROUP 46 MERGES INTO GROUP 35 AT LEVE: 99.30.
GROUP 35 NOW CONTAINS:
GROUP 35 NOW CONTAINS:
    489 927
    489 927
GROUP 73 MERGES INTO GROUP 40 AT LEVEL 99.29.
GROUP 73 MERGES INTO GROUP 40 AT LEVEL 99.29.
GROUP 40 NON CONTAINS:
GROUP 40 NON CONTAINS:
    623 1845
    623 1845
GROUP 57 MERGES INTO GROUP 15 AT LEVEL 99.28.
GROUP 57 MERGES INTO GROUP 15 AT LEVEL 99.28.
GROUP 15 NOW CONTAINS:
GROUP 15 NOW CONTAINS:
    201 479 1248 1503 1892 i249
    201 479 1248 1503 1892 i249
GROUP 45 MERGES INTO GROUP 7 AT LEVEL 97.93.
GROUP 45 MERGES INTO GROUP 7 AT LEVEL 97.93.
GROUP }7\mathrm{ NOW CONTAINS:
GROUP }7\mathrm{ NOW CONTAINS:
    049 1854 920
```

    049 1854 920
    ```

\section*{Single Linkage, Unweighted}

GROUP 54 MERGES INTO GROUP 49 AT LEVEL 97.93. GROUP 49 NJW CONTAINS: 10221245

GROUP 77 MERGES INTO GROUP 30 AT LEVEL 97.90. GROUP 30 :NOW CONTAINS:

4241888

GROUP 60 NERGES INTJ GROUP 7 AT LEVEL 97.24. GROUP 7 NכW CONTAINS:

0491854 920 1424
GROUP 7Ó MERGES IVTO GROUP 15 AT LEVEL 97.24. GROJP 15 NOW CONTAINS:
\(201 \quad 479 \quad 1248 \quad 1503 \quad 1892 \quad 1249 \quad 1876\)

GROJP 51 :UERSES INTO GROUP 7 AT LEVEL 97.こ2. GROUP 7 NOW CONTAINS: \(049 \quad 1854 \quad 020 \quad 1424 \quad 1240\)

GROUP 31 MERGES INTO GROUP 19 AI LEVEL 96.55. GROUP 19 NOW CONTAIYS:
\(216 \quad 440\)

GROUP 75 MERGES INTO GROUP 44 AT LEVEL 96.53. GROUP 44 NOW SONTAITS:
\(917 \quad 1874\)

GROUP Sర VEPGES ENTO GSOUP 14 AT LEVEL 96.50. GROUP i4 YON SONTAINS:
\(\begin{array}{lll}177 & 337 & 1738\end{array}\)
GROUP 29 NERGES INIO GROUP 7 AT LEVEL 96.38. GROUP 7 KOW CONTAINS:
\(\begin{array}{llllll}049 & 1054 & 320 & 1424 & 1240 & 385\end{array}\)
GROUP 9 MEBGES INTO GROUP 7 AT LEVEi 95.80. GROUF 7 NOW CONTAIMS:
\(049 \quad 1854 \quad 920 \quad 1424 \quad i 240 \quad 385 \quad 6\)

GROUP 59 MERGES INTO GROUP 10 AT LEVEL 95.49. GROUP 10 NOW CONTAINS:
\(38 \quad 1319\)
GROUP 87 MERGES INTO GROUP 78 AT LEVEL 95.17.
GROUP 73 NOW CONTAINS:
18892423

GROUP 21 MERCES INTO GROUP 7 AT LEVEL 95.14. GROUP 7 NOW CONTAINS: \(\begin{array}{llllllll}049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226\end{array}\)

Single Linkage, Jnweighted
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GROUP 85 MERGES INTO GROUP 78 AT LEVEL 95.10.
GROUP 73 NOW CONTAINS:
1889 2423 2401
GROUP 55 MERGES INTO GROUP 15 AT LEEVEL 95.07.
GROUP 15 NOW CONTAINS:
201 479 1248}1503031892 1249 1876 1247
GROUP ४ MEPSES INTO GROUP 40 AT LEVEL 95.04.
GROUP 40 NOW CONIAINS:
623 1845 5
GROUP 24 MERGES INTO GROJP 10 AT LEVEL 95.00.
GROUP 10 NON CONTAINS:
38 1319 319
GROUP 8O MERGES IVTO GROUP 7 AT LEVE1., 94.93.
GROUP 7 NOW CONTMINS:
049 1854 920 1424 1240 385 % 6 % 226 1891
GROUP SO MERGES INTO GROUP 7 AT LEVEL 94.48.
GROUP }7\mathrm{ NOF SONTAINS:
049 i854 920 1424 1240 385 ó 226 1891
424 1888
GROUP 49 MEFGES ENTO GROUP 7 AT LEVEL 94.48.
GROUD 7 NOW SOSTAINS:
249
424 1888 1022 1245
GROUP 22 MEPGES INTO GROEP 7 AT LEVEL 94.48.
GROUP 7 NOW CONIMINS:
049
424}18888\quad1022 1245 263
GROUP 28 MEAGES INTO GROTJP 7 AT LEVEL 94.48.
GROUP }7\mathrm{ NOW CONT:INS:
049
GROUP 38 MERGES INTO GROUP 78 AT LEVEL. 94.48.
GROUP 78 NOW CON:AINS:
1889 2423 2401 547
GROUP 44 MESGES INTO GROUP 7 AT LEVEL 94.44.
GROUP 7 NOW CS:TAINS:
049
GROUP 79 MESGES INTO GROUP 63 AT LEVEL 94.29.
GROUP 63 NOW CONTATNS:
1522 1890

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Single L.inkage, Unweighted
GROUP 72 MEPGES INTO GROUP 7 AT LEVEL 94.16. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829
\end{tabular}

GROUP 10 MERGES INTO GROUP 7 AT LEVEL 93.80. GROUP 7 NOW CONTAINS:
\(\begin{array}{lllllllll}049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891\end{array}\)
\(\begin{array}{llllllllll}424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829\end{array}\) \(38 \quad 1319 \quad 319\)

GROUP 11 MERGES INTO GROUP 7 AT LEVEL 93.79. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
249 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829
\end{tabular}
\(\begin{array}{lllll}38 & 1319 & 319 & 51\end{array}\)
GROUP \(\forall 3\) MERGES ENTO GROUP 7 AI LEVEL 93.79. GROUP 7 NOW CONDAINS:
\(\begin{array}{rrrrrrrrr}049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\ 42.4 & 1888 & 1222 & 1245 & 263 & 383 & 917 & 1874 & 1829\end{array}\) \(\begin{array}{lllll}30 & 1519 & 319 & 223 & 2143\end{array}\)

GROUP 78 MERSES ENMO GROID 7 AT LEVEL 93.75. GROUP 7 NOW SONEAINS:
\(\begin{array}{rrrrrrrrr}249 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\ 424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\ 38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401\end{array}\)
547
GROUP 14 MENGES INTO GROIP 7 AT LEVEL 93.75.
GROUP 7 NOW SONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & \(92 n\) & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & \(i 245\) & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & & & & &
\end{tabular}

GROUP 86 MERGES INTO GROUP 39 AT LEVEL 93.75. GROUP 39 NOW SONTAINS:

6142412

GROUP 70 ME?GES INTO GROUP 37 AT LEVEL. 93.57.
GROUP 37 NOW SONTAINS:
5221799

GROUP 34 MERGES INTO GROUP 7 AT LEVEL 93.10.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
\(n 49\) & 1854 & 020 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & & & &
\end{tabular}

Single Linkage, Unweighted
GROUP 35 MERGES INTO GROUP 7 AT LEVEL 93.06. GROUP 7 NWW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & &
\end{tabular}

GROJP 5 MERGES INTJ GROJP 7 AT LEVEL. 93.06.
GROUP 7 NOW CONIAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 253 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 &
\end{tabular}

GROJP 42 VERGES INTO GROUP 7 AT LEVEL 93.06.
GROIP 7 NOW CONIAINS:
\(\begin{array}{rrrrrrrrr}049 & 1854 & 920 & i 424 & 124 n & 385 & 5 & 226 & 1891 \\ 424 & 1888 & 1022 & i 245 & 253 & 383 & 917 & i 874 & 1829 \\ 38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\ 547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 043\end{array}\)
GROID 16 VEAGES IVIO GROUP 7 AT LEVEL 92.95.
GROUD 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
949 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & \(i 874\) & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1809 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 027 & 020 & 543 \\
203 & & & & & & & &
\end{tabular}

GROUP 18 VEESES ENIO GROUT 7 AI LEVEL 32.96.
GROUP 7 NOW CONAATIS:
\begin{tabular}{rrrrrrrrr}
\(n 49\) & 1654 & 920 & 1424 & 1240 & 385 & 0 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 289 & 327 & 720 & 543 \\
203 & 209 & & & & & & &
\end{tabular}

GROUP 15 MERSES INRO GROUP 7 AT LEVEL 92.36.
GROUP 7 NON CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 043 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & & & & & & & &
\end{tabular}

Single Linkage, Unweighted
GROUP 47 MERGES INTO GROUP 7 AT LEVEL 92.31. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & & & & & & &
\end{tabular}

GROUP 17 MERGES INTO GROUP 37 AT LEVEL 92.14. GROUP 37 NOW CONTAINS:
\(522 \quad 1799 \quad 206\)
GROUP 82 HESGES INTD GROUP 7 AT LEVEL 92.09. gROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & & & & & &
\end{tabular}
gROUP 19 MERGES INTO GROUP 7 AT LEVEL 31.72. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 210 & 440 & & & &
\end{tabular}
gRoup 36 MERGES INTO GROAT 1 AT LEVEL. 91.b1. GROUP 1 NOW CONTAINS: TR 491

GROUP 48 MERGES INTO GROUP 7 AT LEVEL 91.55. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & \(i 240\) & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & & &
\end{tabular}

GROUP 64 MERGES INTO GROUP 7 AT LEVEL 91.55.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 233 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & &
\end{tabular}

Single Linkage, Unweighted
GROUP 1 MERGES INTO GROUP 7 AT LEVEL 90.97. gROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & \(7 R\) & 491
\end{tabular}

GROUP 32 MERGES INTO GROUP 7 AT LEVEL 90.28. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 242.3 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 220 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & 19 & 491 \\
467 & & & & & & & &
\end{tabular}

GROUP 58 MEEGES INTO GROUP 7 AT LEVEL 90. 28. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & \(i 424\) & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 043 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & \(7 R\) & 491 \\
467 & 1315 & & & & & & &
\end{tabular}

GROUP 13 MERGES INTO GROUP 7 AT LEVEL 88.97.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 5 & 22.6 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 22.3 & 2143 & 1889 & 242.3 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & \(7 R\) & 491 \\
467 & 1315 & 104 & & & & & &
\end{tabular}

GROUP 65 MEAGES INTO GROUP 7 AT LEVEL 88.89.
GROUP 7 NOW SONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & \(7 R\) & 491 \\
467 & 1315 & 104 & 1610 & & & & &
\end{tabular}

\section*{Single Linkage, Unweighted}

GROUP 66 MERGES INTO GROUP 39 AT LEVEL 88.81. GROUP 39 NOW CONTATNS: \(614 \quad 2412 \quad 1611\)

GROUP 69 MERGES INTO GROUP 52 AT LEVEL 38.65. GROUP 52 NOW CONTAINS: 12411739

GROUP 62 MERGES INTO GROUP 39 AT LEVEL 88. 19. GROUP 39 NOW GONTAINS: \(\begin{array}{llll}614 & 2412 & 1611 & 1505\end{array}\)

GROUP 41 MERGES INIO GROUP 7 AT LEVEL 87.94. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 020 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 480 & 927 & 1200 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & 72 & 491 \\
467 & 1315 & 104 & 1610 & 642 & & & &
\end{tabular}

GROUP 23 : KERG5S INTO GRO:IP 7 AT LEVE: 86.81. GROUP 7 VOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & \(124 n\) & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & \(02 n\) & 543 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1802 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 099 & 1597 & 12 & 491 \\
467 & 1315 & 104 & 1610 & 042 & 307 & & &
\end{tabular}

GROUP 71 MERGES INEO GROUP 7 AT LEVEL 36.71. GROUP 7 YOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & \(7 R\) & 491 \\
467 & 1315 & 104 & 1610 & 642 & 307 & 1827 & &
\end{tabular}

GROUP 37 MERGES INTO GROUP 39 AT LEVEL 85.11. GROUP 39 NOW CONTAINS: \(\begin{array}{lllllll}614 & 2412 & 1611 & 1505 & 522 & 1799 & 206\end{array}\)

Single Linkage, Unweighted

GROUP 12 MERGES INTO GROUP 7 AT LEVEL 83.94. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & \(7 R\) & 491 \\
467 & 1315 & 104 & 1610 & 642 & 307 & 1827 & 69 &
\end{tabular}

GROUP 63 MERSES INTO GROUP 39 AT LEVEL 83.92.
GROUP 39 NOW CONTAINS:
\(\begin{array}{lllllllll}614 & 2412 & 1611 & 1505 & 522 & 1799 & 206 & 1522 & 1890\end{array}\)
GROUP 67 MERGES INTO GROUP 3 AT LPVEL 83.22. GROUP 3 NOW CONTAINS:
\(02 \quad 1735\)
GROUP 25 MERGES INTO GROUP 7 AT LEVEL 82. 74. GROUP 7 NON CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 020 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 210 & 440 & 999 & 1597 & \(7 R\) & 491 \\
467 & 1315 & 104 & 1610 & 642 & 307 & 1827 & 69 & 323
\end{tabular}

GROUP 43 MERGES INTO GROUD 7 AT LEVEL 82.52.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 0 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & \(i 876\) \\
1247 & 959 & 1898 & 216 & 440 & 999 & 1597 & \(2 R\) & 491 \\
467 & 1315 & 104 & 1610 & 642 & 307 & 1827 & 69 & 323 \\
876 & & & & & & & &
\end{tabular}

GROUP 53 MESGES INTO GROUP 50 AT LEVEL 82.27. GROUP 50 NOW CONTAINS:

11751243

GROUP 84 AEPGES INTO GROUP 52 AT LEVEL 81.94. GROUP 52 NOW CONTAINS:
\(1241 \quad 17392298\)

GROUP 4 MERGES INTO GROUP 2 AT LEVEL 81.75.
GROUP 2 NO: CONTAINS:
0103

Single Linkage，Jnweighted
GROUP 27 MERSES INTO GROUP 7 AT LEVEL 8O． 28. GROUP 7 NOW COMRAINS：
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & 319 & 51 & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 020 & 643 \\
203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 216 & 440 & 099 & 1597 & 3.7 & 491 \\
467 & 1315 & 104 & 1610 & 642 & 307 & 1827 & 09 & 323 \\
876 & 378 & & & & & & &
\end{tabular}

GROUP 6 MERGES ENMO GROUP 3 AT LEVEL 79．41． GROUP 3 NOW COMDATNS：

ワ2 1735 044
GROUP 50 MERGES IV：O GTOUP 2 AI LEVEL 76.00. GROUP 2 NOK OOS：AINS：
\(\begin{array}{llll}01 & 03 & 1175 & 1243\end{array}\)

GROJP 7 NOW この：IAIIU：
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline 049 & 1854 & 92？ & 1424 & 1240 & 385 & 6 & 226 & 1891 \\
\hline 424 & 1888 & 1 1222 & ； 245 & 263 & 383 & 917 & 1874 & 1829 \\
\hline 38 & 1319 & 319 & シ1 & 223 & 2143 & 7889 & 2423 & 2401 \\
\hline 547 & 177 & 337 & ¢738 & 483 & 489 & 927 & ？20 & 643 \\
\hline 203 & 209 & 201 & 479 & 1248 & 1503 & 1892 & i249 & 1876 \\
\hline 1247 & 959 & 1806 & 216 & 440 & 997 & 1597 & 97 & 491 \\
\hline 467 & 1315 & 104 & ¢610 & 642 & 307 & 1827 & 69 & 323 \\
\hline 876 & 378 & －23 & \％ 845 & 5 & & & & \\
\hline
\end{tabular}

GROTP 3 MEEGES ニVEO GROUP 2 AT LEVEL T3．19．
GROJP 2 NOW CONTAINS：
\(\begin{array}{lllllll}01 & 03 & 1175 & 1243 & 02 & 1735 & 044\end{array}\)
GROUP 2 MERSES ミ．V：SROTP 7 AI LEJEL 72．86．
GROUP 7 NOW OOSTAINS：
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 320 & \(i 424\) & 1240 & 385 & 5 & 226 & 1891 \\
424 & 1888 & 1022 & 1245 & 263 & 383 & 917 & 1874 & 1829 \\
38 & 1319 & \(3 i 9\) & \(5 i\) & 223 & 2143 & 1889 & 2423 & 2401 \\
547 & 177 & 337 & 1738 & 483 & 489 & 927 & 220 & 043 \\
203 & 200 & 201 & 479 & 1248 & 1503 & 1892 & 1249 & 1876 \\
1247 & 959 & 1898 & 210 & 440 & 999 & 1597 & 72 & 491 \\
467 & 1315 & 104 & 1610 & 642 & 307 & 1827 & 69 & 323 \\
876 & 378 & 623 & 1845 & 5 & 01 & 03 & 1175 & 1243 \\
02 & 1735 & 044 & & & & & &
\end{tabular}

Single Linkage, Unweighted


\section*{POINTS OF FORMATION FOR INITIAL gROUPS}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline 7) & 049 : & 100.00 & (74) & 1854 : & ion.00 & (45) & \(920:\) & 120.00 \\
\hline (60) & 1424: & 10n.00 & (5i) & 1240: & 10n. & (29) & 385: & 100.00 \\
\hline (9) & 6: & ion.00 & (21) & 226 : & ion.on & (80) & 1891: & 100.00 \\
\hline (30) & 424: & 100.00 & (77) & 1888: & inn.nn & (49) & 1n22: & ino.no \\
\hline (54) & 1245: & 100.00 & (22) & 263: & 10n. n \(^{\text {n }}\) & '28) & 383: & 100.00 \\
\hline (44) & 917 : & 1non & (75) & 1874: & 1nno & (72) & 1829: & 10n. \\
\hline (10) & 38: & 100.00 & (59) & 1319: & 1 กn. \(\mathrm{n}^{1}\) & (24) & \(319:\) & 10n. 0 \\
\hline (11) & 51: & 100.00 & (20) & 223: & inn. & (83) & 2143: & inn. 0 n \\
\hline (78) & 1889: & ion.on & (87) & 2423: & 10r.nn & (85) & 2401: & inn. \\
\hline (38) & 547: & inn.0n & (14) & 177: & 10n.nn & '26) & 337: & 10 O .00 \\
\hline (68) & i738: & 10n.0n & (34) & 483: & inn.nn & (35) & 489: & 10n.0n \\
\hline (46) & 927 : & ino.nn & ( 5) & 220: & 12n. \({ }^{\text {n }}\) & (42) & 643 : & 10n.0n \\
\hline (16) & 203: & inn.00 & (18) & 209: & inn. n \(^{\text {n }}\) & (15) & 2n1: & 10n. 0 \\
\hline (33) & 479: & 10n.0n & (56) & 1248: & inn.nn & '61) & 1503: & ino.no \\
\hline (81) & i892: & ion.on & (57) & 1249: & ion.nn & '76) & 1876: & 10n. \\
\hline (55) & 1247: & 120.00 & (47) & 959: & 10n & (02) & i898: & 10n.no \\
\hline (19) & 210: & ino.nn & (31) & 44n: & 1nn. n \(^{\text {n }}\) & '48) & 999: & 10n.00 \\
\hline (64) & 1597: & ion.0n & (1) & TR: & 10n. & '36) & 491 : & 1 n \\
\hline (32) & 467: & ion.on & (58) & 1315: & inn. & ! 13 ? & 104: & ion.no \\
\hline (65) & i610: & ion.nn & (41) & \(542:\) & 12n.nn & '23) & \(307:\) & ino.no \\
\hline (71) & ;827: & ion. 0 & (12) & 69 : & inn. \(\mathrm{n}^{\text {n }}\) & '25) & 323: & 10 n . 0 n \\
\hline (43) & 876: & חon & (27) & 378 : & 100.0n & '40] & 623: & 100 \\
\hline (73) & 1845: & ion.0n & (8) & \(5:\) & 10n.nn & ! 2: & ก1: & 10n. \\
\hline ( 4) & \(23:\) & ino.on & (50) & 1175: & !nn. n \(^{\text {a }}\) & '53) & i243: & 10n.on \\
\hline ( 3) & n2: & 10n.00 & (67) & i735: & 10n. & (6) & O44: & ถַnononon \\
\hline (52) & 1241: & incon & (69) & 1739: & - & '84) & 2298: & 10n.no \\
\hline (39) & 614 : & 10n 0 & (86) & 2412: & ino.no & '56: & 1611: & in \\
\hline (62) & 1505: & 10n.no & (37) & 52?: & inn.nn & (70) & 1799: & inn \\
\hline (17) & \(206:\) & 100.00 & (63) & 1522: & -nonon & (79) & 1690: & 100 \\
\hline
\end{tabular}

```

                    MERGE POINTS AND GRUUP CONTENTS
    Average Linkage, Unweignted Similarity Coeficients
    GROUP 20 MERGES INTO GROUP 11 AT L\&VEL 100.00.
GROUP 11 NOW CONTAINS:
51 223
GROUP 26 MERGES INTO GROUP 14 AT LEVEL 10N.00.
GROUP 14 NOW CONTAINS:
177 337
GROUP 74 MEPGES INTO GROUP 7 AT L\&VEL 99.31.
GROUP 7 NOW CONTAINS:
049 1854
GROUP 33 MEEGES INTO GROUP 15 AT LSVEL 99.31.
GROUP 15 NOH OONTAINS:
201479
GROUP 61 MERSES INTO GROUP 56 AT LکVEL 99.31.
GROUP 56 NOW CONTAINS:
1248 i503
GROUP 46 MEEGES INTO GROITP 35 AT LEVEL 99.30.
GROUP 35 NOW CONTAINS:
489 927
GROUP 73 MEZGES INTO GROUP 4O AT LEVEL 99.29.
GROUP 40 NON CONTAINS:
623 1845
GROUP 81 MERSES INTO GROUP 56 AT LUVEL 9%.97.
GROUP 56 NOW CONTAINS:
1248 1503 1892
GROUP 57 MEPGES INTO GROUP 56 AT L\&VEL 98.80.
GROUP 56 NOW CONTAINS:
1248}1015031892 12.4
GROUP 15 MEMGES INTO GROUP 56 AT LEVEL 98.43.
GROUP 56 NOW SONTAINS:
1248}15503 1892 1249 201 479
GROUP 54 MERGES INTO GROUP 49 AT LEVEL 97.93.
GROUP 4F NOW CONTAINS:
1022 1245

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Average Linkage, Unweighted
```

GROUP 77 MERSES [NTO GROUP 30 AT LEVEL. 97.90.
GROUP 30 NOW CONTAINS:
42.4 1888
GROUP 45 MEPFES INTO GROUP 7 AT LEVEL 97.59.
GROUP }7\mathrm{ NOW SONTAINS:
049 1854 920
GROUP 31 MERSES INTO GROUP 19 AT LLVEL 96.55.
GROUP 19 NOW CONTAINS:
216 440
GROUP 75 MERGES INTO GROUP 44 AT LEVEL 96.53.
GROUP 44 NOW CONTAINS:
917 1874
GROUP 68 MEPGES INTO GROUP i4 AT LEVEL, 96.50.
GROUP 14 NO% CONTAINS:
177 337 1738
GROUP 76 ME?SES INTO GROUP 5Ó AT L\&VEL 96.18.
GROUP 56 NOW SONTAINS:
1248}151503 1892 1249 201 479 1876
GROUP 29 MEEGES INTO GROUP 7 AT LUVEL, 95.89.
GROUP }7\mathrm{ NOIY GONTAINS:
049 1854 920 385
GROUP SO MESGES [NOO GROUP 51 AT L\&VEL 95.83.
GROUP 51 NOW SONTAINS:
1240 i424
GROUP 59 MEPGES INTO GRO:IP 10 AT LEVEL 95.49.
GROUP 10 NOW SONTAINS:
38 1319
GROUP ४7 MEEGES INTO GRONT 78 AT LLVEL 95.17.
GROUP 7S NOW CONTAINS:
1889 2423
GROUP 51 MEPGES INTO GROUP 7 AT LEVEL 94.89.
GROUP }7\mathrm{ NOW CONTAINS:
049 1854 920 385 1240 1424
GROUP \& MERGES INTO GROUP 4O AT LEVEL 94.72.
GROUP 40 NOW CONTAINS:
623 1845 5
GROUP 9 MERGES INTO GROUP 7 AT L\&VEL 94.47.
GROUP }7\mathrm{ NOW CONTALNS:

```


Average Linkage，Jnweighted
```

GROUP 55 MESGES INTO GROUP 56 AT LEVEL. 94.33.
GROUP 56 NO'w CONTAINS:
1248
GROUP 79 MERSES INTO GROUP 63 AT LEVEL 94.29.
gROUP 63 NOW CONTAINS:
1522 1890
gROUP 24 MERGES INTO G足UP 1n AT LEVEL 94.17.
gROUP 10 NOW CONTAINS:
38 1319 319
GROUP ४5 MEPSES INTO GROUP 78 AT LEVEL 94.06.
GROUP 78 NJW CONTAINS:
1889 2423 2401
GROUP 86 NEPGES INTO GRO:UP 39 AT L\&VEL 93.75.
gROIP 39 !%ON CONTAINS:
614 2412
gROUP 70 *ESGES ニNIO GROJP ミ7 AT LEVEL 93.57.
gROUP 37 NOM CONTAINS:
522 1799
gROUP 28 VEPCES INTO GRO:T 7 AT LEVEL 93.53.
GROUP 7 NOM CONTAINS:
049 i854 920 385 1240 i424 6 % 38j
gROUP 49 NEPS5S INO GROTP it AT L.EVEL 93.45.
GROUP 11 NOW OONTAINS:
51 223 1022 ;245
GROUP 80 MERESS INTO GROJP IO AT L,SVEL 93.11.
GROUP 10 NOW OONTAINS:
38 1319 319 1891
GROUP 72 HESGES INTO EROUP 38 AT LEVEL 93.06.
gROUP 38 NOw SONTAINS:
547 1829
gROUP 22 MESES INTO GROUP 14 AT LEVEL 92.81.
group 14 NOH contains:
177}
group 30 MESges inTo gajup 7 at level 92.77.
gROUP }7\mathrm{ NON CONTAINS:
049
1888
gROUP 83 MEGGES INTO GROUP 44 AT L\&VEL g2.39.
GROUP 44 NOW COnTAINS:
917 1874 2143

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Average Linkage, Unweighted
```

GROUP 34 MERCES INTO GROUP 21 AT LEVEL. 92.36.
GROUP 21 NOW CONTAINS:
226 483
GROUP 17 MERSES INTO GROUP 37 AT LEVEL. 92.11.
GROUP 37 NOW CONTAINS:
522 1799 206

```
GROUP 38 MERGES INOO GROUP 78 AT LEVEL 92.00.
GROUP 78 NOW CONTAINS:
    \(1889 \quad 2423 \quad 2401 \quad 547 \quad 1829\)
GROUP 44 MERGES INTO GROUP 7 AT LEVEL 01.78.
GROUP 7 NOW CONTAINS:
    \(\begin{array}{lllllllll}049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 424\end{array}\)
    \(1888 \quad 917 \quad 1874 \quad 2143\)
GROUP 18 NETGES INTO GROUD 14 AI LEVEL 91.73.
GROUP i4 NOW SONTAINS:
    \(\begin{array}{lllll}177 & 337 & 1738 & 263 & 209\end{array}\)
GROUP 36 YERGES INTO GROUP 1 AT LEVEL 9i.61.
GROUP 1 NON SONTAINS:
    TR 491
GROUP 47 MERGES ENEO GROTP 21 AT LEVEL 91.22.
GROUP 21 NOW SONTATNS:
    226483959
GROUP 14 MERGES INÃO GRDTP 7 AT LEVEL Y1.10.
GROUP 7 NOW SONEAINS:
    \(\begin{array}{rrrrrrrrr}049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 42.4 \\ 1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209\end{array}\)
GROUP 10 MEREES EVEO GEOUP 7 AT LEVEL 90.93.
GROUP 7 NOW CONTAINS:
    \(\begin{array}{lllllllll}049 & 1854 & 920 & 385 & 1240 & 1424 & 5 & 383 & 424\end{array}\)
    \(\begin{array}{llllllllll}1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209\end{array}\)
        \(38 \quad 1319\) 319 iとg1
GROUP 16 MERGES INTO GROUP 5 AT LEVEL 90.78.
GROUP 5 NOW COUTAINS:
        020203
GROUP 11 MERGES INTO GROUP 7 AT LEVEL 90.36.
GROUP 7 NOW CONIAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & \(i 424\) & 6 & 303 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 &
\end{tabular}

\section*{Average Linkage, Unweighted}
```

GROUP 5 MERGES INTO GROUP 7 AT LLVEL 89.88.
GROUP }7\mathrm{ NOW CONTAINS:

| 049 | 1854 | 920 | 385 | 1240 | 1424 | 6 | 383 | 424 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1888 | 917 | 1874 | 2143 | 177 | 337 | 1738 | 263 | 209 |
| 38 | 1319 | 319 | 1891 | 51 | 223 | 1022 | 1245 | 020 |
| 203 |  |  |  |  |  |  |  |  |

    203
    GROIP 42 MERGES INTO GROUP 7 AT LEVEL. 89.59.
GROUP 7 NOW CONTAINS:
049
203 64
GROUP 21 MERGES INTO GROUP 78 AT L\&VEL 89.49.
GROUP 78 NOW CONTAINS:

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GROUP 58 MEPGES IN:O GROUP 19 AT LEVEL 89.24.
GROJP 19 NJW SONTAINS:
216 440 1315
GROUP 78 MERG5S INTO GROUP 7 AT L\&VEL 89.20.
GROUD 7 NOW CONIATNS:

| 049 | 1064 | 920 | 385 | 1240 | 1424 | 0 | 383 | 424 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1888 | 977 | 1874 | 2143 | 177 | 337 | 1738 | 263 | 209 |
| 38 | 1319 | 319 | 1891 | 51 | 223 | 1022 | 1245 | 720 |
| 203 | 643 | 1889 | 2423 | 2401 | 547 | 1829 | 226 | 483 |

    959
    GROUP 64 MERSES INEO GROUP 35 AT LLVEL 89.20.
GROUP 35 NOW SONTAINS:
489 927 i597
GROUP 69 MERGES INTO GROUP 52 AT LEVEL 84.65.
gROUP 52 NOW CONIALNS:
1241 1739
GROUP 35 MEROES INTO GROTP 7 AT LEVEL 88.55.
GROUP 7 NOW CONTAINS:

| 049 | 1854 | 920 | 385 | 1240 | 1424 | 6 | 383 | 424 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1888 | 917 | 1874 | 2143 | 177 | 337 | 1738 | 263 | 209 |
| 38 | 1319 | 319 | 1891 | 51 | 223 | 1022 | 1245 | $n 20$ |
| 203 | 543 | 1889 | 2423 | 2401 | 547 | 1829 | 226 | 483 |
| 959 | 489 | 927 | 1597 |  |  |  |  |  |

GROUP 65 MERGES INTO GROUP 48 AT LEVEL 88.03.
GROUP 48 NON CONTAINS:
999 1610

```

Average Linkage, Unieignced

GROUP 66 MERGES INTO GROUP 39 AT LLVEL 87.76. GROUP 39 NOW CONTAINS:

61424121611

GROUP 82 MERGES INTO GROUP 7 AT LEVEL 87.72. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & \(: 424\) & 6 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & & & &
\end{tabular}

GROUP 1 MESGES INTO GROUP 7 AT LEVEL 87. 18.
GROUP 7 NGW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1869 & 2423 & 2401 & 547 & 1829 & 226 & 423 \\
959 & 489 & 927 & 1597 & 1898 & 72 & 491 & &
\end{tabular}

GROUP 48 NEPGES TNTO GROUP 7 AT LEVEL 86.86. GROUP 7 NOW CONTAIVS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 5 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2421 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 12 & 491 & 999 & 1010
\end{tabular}

GROUP 56 MERTES INTO GROUD 7 AT LGVED 8ÓÓT. GROUP 7 NOH CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 929 & 385 & 1240 & \(i 424\) & 6 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 537 & 1738 & 263 & 200 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 027 & 1597 & 1898 & 79 & 491 & 999 & 1010 \\
1248 & 1503 & 1892 & 1249 & 201 & 179 & 1876 & 1247 &
\end{tabular}

GROUP 62 MERGES INTO GROUP 39 AT LEVEL 35.88. GROUP 39 NOW CONTAINS:
\(\begin{array}{llll}614 & 2412 & 1611 & 1505\end{array}\)

GROUP 32 MERGES INTO GRO:IP 7 AT LEVEL. 85.27. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 200 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 78 & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467
\end{tabular}

Average Linkage, Unweighted
GROUP 41 MERGES INTO GROUP 23 AT LEVEL 85.21. group 23 NOW CONTAINS:

307642
GROUP 13 MERתES INTO GROUP 7 AT゙ LะVEL 85.07.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 220 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 78 & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
104 & & & & & & & &
\end{tabular}

GROUP 19 NERGES INTO GRO:JP 7 AT LEVEL 83.67. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 70 & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
104 & 216 & 440 & 1315 & & & & &
\end{tabular}

GROUP 67 UEEGES INTO GROUP 3 at LUVEL 83.22.
group 3 NOW contains:
ก2 1735
GROUP 23 MEEGES INTO GROJP 7 AT LEVEL 83.03.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 5 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 220 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 79 & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
104 & 216 & 440 & 1315 & 307 & 642 & & &
\end{tabular}

GROUP 71 MESGES INTO GROUD 7 AT LEVEL 82.65. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 0 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 78 & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
104 & 216 & 440 & 1315 & 307 & 642 & 1827 & &
\end{tabular}

GROUP 53 MESGES INTO GROUP 50 AT LEVEL 82.27.
GROUP 50 NOW CONTAINS:
11751243

\section*{Average Linkage, Unweighted}

GROUP 4 MEAGES INTO GROUP 2 AT LEVEL 81.75. GROUP 2 NOW CONTAINS:

0103
GROUP 37 MERSES INTO GROUP 39 AT LEVEL 80.75.
GROUP 39 NOW CONTAINS:
\(614 \quad 2412 \quad 1011 \quad 1505 \quad\) 5?2. \(1799 \quad 206\)
GROUP 84 MEASES INTO GROUP 52 AT LEVEL 79.70.
GROUP 52 NOW SONTAINS:
\(1241 \quad 1739 \quad 2298\)
GROUP 12 MERGES INET GROUP 7 AT LEVEL 79.O6.
GROUP 7 NOW SONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 42.4 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 72 & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
104 & 216 & 440 & 1315 & 307 & 642 & 1827 & 69 &
\end{tabular}

GROUP ó3 MERGES INTM GROUP 39 AT LEVEL 78.68.
GROIP 39 NOW SONTAIMS: \(614 \quad 2412 \quad i 611 \quad 1505 \quad 522 \quad 1799 \quad 206 \quad 1522 \quad 1890\)

GROUP 43 MERGES INTO GROUP 7 AT LEVEL 78.23.
GROUP 7 NOW GONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 5 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & \(i 891\) & 51 & 223 & 1022 & 1245 & 120 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1820 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1895 & \(7 ?\) & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
104 & 216 & 440 & 1315 & 307 & \(64 ?\) & 1827 & 69 & 876
\end{tabular}

GROUP 25 MERGES INTO GROUP 7 AT LEVEL. 78.11.
GROUP 7 NOW SONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 0 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & \(240 i\) & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & \(5 R\) & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
104 & 216 & 440 & 1315 & 307 & 642 & 1827 & 69 & 876
\end{tabular}

325
GROUP 6 MERGES INTO GROUP 3 AT LLVEL. 77.48.
GROUP 3 NOW SONTAINS:
\(02 \quad 1735044\)

Average Linkage, Inweighted
GROUP 27 MERGES INTO GROUP 7 AT LEVEL 75.29.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 29 & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201. & 479 & 1876 & 1247 & 467 \\
104 & 216 & 440 & 1315 & 307 & 642 & 1827 & 69 & 876
\end{tabular}

323378
GROUP 50 MERSES INTO GROUP 2 AT LEVEL 73.22. GROJP 2 NOW CONTAINS:
\[
\begin{array}{llll}
01 & 03 & 1175 & 1243
\end{array}
\]

GROUP 40 MERGES INTO GROUP 7 AT LEVEL 7O.OQ. GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 1240 & 1424 & 6 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & \(5 i\) & 223 & \(i n 22\) & 1245 & 120 \\
203 & 643 & 1889 & 2423 & 2401 & 347 & 1829 & 226 & 483 \\
959 & 489 & 927 & \(i 597\) & 1898 & -9 & 401 & 999 & 1510 \\
1248 & 1503 & \(i 892\) & 1249 & 201 & 479 & 1875 & 1247 & 457 \\
104 & 216 & 440 & 1315 & 307 & 642 & 1827 & 57 & 376 \\
323 & 378 & 623 & 1845 & 5 & & & &
\end{tabular}

GROUP 3 MERGES INTS TRJUQ 2 AT LSVEL 69. 18. GROUP 2 NOH SONTAINS:
\(\begin{array}{lllllll}01 & 03 & 1175 & 1243 & 22 & 1735 & 944\end{array}\)
GROJP 52 ME:NES INTO GRO:JP 2 AT LצVEL ÓO.18. GROUP 2 NGW CONIAINS:
\(\begin{array}{lllllllll}01 & 03 & 1175 & 1243 & \text { n2 } & 1735 \text { n44 } & 124 i & i 739\end{array}\) 2298

GROUP 2 MERGES IYTO SROUP 7 dT LEVEL 58. O2. GROJP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
949 & 1854 & 920 & 385 & 1240 & 1424 & 0 & 383 & 424 \\
1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 263 & 209 \\
38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
959 & 489 & 927 & 1597 & 1898 & 28 & 491 & 999 & 1610 \\
1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
104 & 216 & 440 & 1315 & 307 & 542 & 1827 & 69 & 376 \\
323 & 378 & 023 & 1845 & 5 & 01 & 03 & 1175 & 12.43 \\
02 & 1735 & 044 & 1241 & 1739 & 2298 & & &
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{10}{|c|}{Average Linkage, Unweighted} \\
\hline \multirow[t]{12}{*}{GROUP 39 GROUP 7} & \multicolumn{2}{|l|}{} & \multirow[t]{2}{*}{GROUP} & \multirow[t]{2}{*}{7 AT} & \multirow[t]{2}{*}{T LEVEL} & \multicolumn{2}{|l|}{51.97.} & & \\
\hline & \multicolumn{2}{|l|}{MERGES INTO
NOW CONTAINS:} & & & & & & & \\
\hline & 049 & 1854 & 92.0 & 385 & 1240 & 1424 & 6 & 383 & 424 \\
\hline & 1888 & 917 & 1874 & 2143 & 177 & 337 & 1738 & 2.63 & 299 \\
\hline & 38 & 1319 & 319 & 1891 & 51 & 223 & 1022 & 1245 & 020 \\
\hline & 203 & 643 & 1889 & 2423 & 2401 & 547 & 1829 & 226 & 483 \\
\hline & 959 & 489 & 927 & 1597 & 1898 & TR & 491 & 999 & 1610 \\
\hline & 1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247 & 467 \\
\hline & 104 & 216 & 440 & 1315 & 307 & 642 & 1827 & 69 & 876 \\
\hline & 323 & 378 & 623 & 1845 & 5 & 01 & 03 & 1175 & 1243 \\
\hline & 02 & 1735 & 044 & 1241 & 1739 & 2298 & 614 & 2412 & 1611 \\
\hline & 1505 & 522 & i799 & 206 & 1522 & 1890 & & & \\
\hline
\end{tabular}

POINTS OF FORMATION FOR INITIAL GROUPS
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline ( 7) & 049 : & 100.0 & (74) & 1854: & 100.00 & (45) & 920 : & 100.00 \\
\hline (29) & 385: & 100.00 & (51) & 1240: & 100.00 & (60) & 1424: & 100.00 \\
\hline ( 9) & 6: & 100.00 & (28) & 383: & 100.00 & (30) & 424 : & 100.0 \\
\hline (77) & 1888: & 100.00 & (44) & 917 : & 100.00 & (75) & 1874: & 100.00 \\
\hline (83) & 2143: & 100.00 & (14) & 177: & 100.00 & (26) & 337 : & 100. \\
\hline (08) & 1738: & 100.00 & (22) & 263: & 100.00 & (18) & 209 : & 100 \\
\hline (10) & 38 : & 100.00 & (59) & 1319: & 100.co & (24) & 319: & 100.0 \\
\hline (80) & 1891: & 100.00 & (11) & 51 : & 100.00 & (20) & 2?3: & 100.0 \\
\hline (49) & 1022: & 100.no & (54) & 1245: & 10n.nn & (5) & -20: & 100 \\
\hline (16) & 203: & 100.00 & (42) & 643 : & 100.00 & (78) & i889: & 1nc.on \\
\hline (87) & 2423: & 100.00 & (85) & 2401: & 100.00 & (38) & 547: & 100.0 \\
\hline (72) & 1829: & 100.00 & (21) & \(226:\) & 100.70 & (34) & 483: & 10n. \(\mathrm{n}^{\text {n }}\) \\
\hline (47) & 959 : & 100.00 & (35) & 489: & 10 n . 00 & (46) & 927: & 1no. no \\
\hline (64) & 1597: & 100.00 & (82) & 1898: & 100.0n & ( 1) & TR: & 100.00 \\
\hline (36) & 491: & 100.0000000 & (48) & 999 : & 10n.00 & (65) & 1610: & \(1 \mathrm{no.0}\) \\
\hline (56) & 1248: & 100.00 & (61) & 1503: & 10n.00 & (81) & 1892: & 100.0 \\
\hline (57) & 1249: & 100.00 & (15) & 201 : & 100.00 & (33) & 479: & 100.00 \\
\hline (76) & 1876: & 100.0n & (55) & 1247: & 102.00 & (32) & 467: & 100.0 \\
\hline (13) & \(104:\) & 10n.00 & (19) & 216: & 100.01 & (31) & 440: & 100.00 \\
\hline (58) & 1315: & 100.00 & (23) & 307 : & 100 & (41) & 642: & 100.00 \\
\hline (71) & 1827: & 100.00 & (12) & 69: & 100.00 & (43) & 876: & 100.00 \\
\hline (25) & \(323:\) & 10n.non & (27) & 378 : & 100.20 & (40) & \(623:\) & 10 non \\
\hline (73) & 1845: & 120.00 & (8) & う: & 10n.00 & (2) & 11: & 100.00 \\
\hline ( 4) & 03 : & 100.00 & '50) & 1175: & 100.00 & (53) & 1243: & \(10 \mathrm{On.00}\) \\
\hline ( 3) & \(02:\) & 100.00 & (67) & 1735: & 100.no & (6) & 244: & 100.nn \\
\hline (52) & 1241: & ion.00 & (69) & 1739: & 100.0n & (84) & 2298: & ino.on \\
\hline (39) & 614: & ion.on & (86) & 2412: & 10n. n \(^{1}\) & (66) & 1611: & 100.00 \\
\hline (62) & 1505: & 100 & (37) & 522: & 100.00 & (70) & 1799: & 100.00 \\
\hline (17) & 206 : & 100.00 & (63) & 1522: & 100.00 & (79) & 1890: & 100.0 \\
\hline
\end{tabular}


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```

    MERGE POINTS AND GROUP CONTENTS
    Complete Linkage, Unweighted Similarity Coeficients
    GROUP 20 NERGES INTO GROUP 1: AT LEVEL 100.00.
GROUP 11 NOW CONTAINS:
51 223
GROUP 26 MERGES INTO GROUP 14 AT LEVEL 100.00.
GROUP 14 NOW CONTAINS:
177 337
GROUP 74 MERGES INTO GROUP 7 AT LEVEL 99.31.
GROUP }7\mathrm{ NOW CONTAINS:
049 1854
GROUP 33 MERGES INTO GROUP 15 AT LEVEL 99.31.
GROUP 15 NOW CONTAINS:
201479
GROUP 61 MERGES INTO GROUP 56 AT LEVEL 99.31.
GROUP 56 NOW CONTAINS:
1248 1503
GROUP 46 MERGES INTO GROUP 35 AT LEVEL 99.30.
GROUP 35 NOW CONTAINS:
489 927
GROUP 73 MERGES INTO GROUP 40 AT LEVEL 99.29.
GROUP 40 NOW CONTAINS:
623 1845
GROUP 81 MERGES INTO GROUP 56 AT LEVEL 98.62.
GROUP 56 NOW CONTAINS:
1248 1503 1892
GROUP 57 MERGES INTO GROUP 5S AT LEYEL 98.56.
GROUP 55 NOW CONTAINS:
1248}121503 1892 124
GROUP 54 MERGES INTO GROUP 49 AT LEVEL 97.93.
GROUP 49 NOW CONTAINS:
1022 1245
GROUP 77 MERGES INTO GROUP 30 AT LEVEL 97.90.
GROUP 30 NON CONTAINS:
424 1888

Complete Linkage, Unweighted

```
GROUP 15 MERGES INTO GROUP 56 AT LEVEL 97.84.
GROUP }56\mathrm{ NOW CONTAINS:
    1248}12503 1892 1249 201 479
GROUP 45 MERGES INTO GROUP 7 AT LEVEL 97.24.
GROUP 7 NOW CONTAINS:
    049 1854 920
GROUP 31 MERGES INTO GROUP 19 AT LEVEL 96.55.
GROUP 19 NOW CONTAINS:
    216440
GROUP 75 MERGES INTOO GROUP 44 AT LEVEL 96.53.
GROUP 44 NOW CONTAINS:
    917 1874
GROJP 68 NERGES INTO GROUP 14 AT LEVEL 96.50.
GROUP 14 NOW CONTAINS:
        177 337 1738
GROUP 60 MERGES INTO GROUP 51 AT LEVEL 95.83.
GROUP 51 NOW CONTAINS:
    1240 1424
GROUP 2.9 MERGES INTO GROUP 7 AT LEVEL 95.65.
GROUP 7 NOW CONTAINS:
        049 1854 920 385
GROUP 59 MERGES INTO GROUP 10 AT LEVEL 95.49.
GROUP 10 NOW CONTAINS:
        38 1319
GROUP 76 MERGES INTO GROUP 56 AT LEVEL 95.17.
GROUP 56 NOW CONTAINS:
        1248
GROUP 87 MERGES INTO GROUP 78 AT LEVEL 95.17.
GROUP 78 NOW CONTAINS:
    1889 2423
GROUP 8 MESGES INTO GROUP 40 AT LEVEL 94.41.
GROJP 40 NOW CONTAINS:
        623 1845 5
GROUP 79 MERGES INTO GROUP Ó3 AT LEVEL 94.29.
GROUP 63 NOW CONTAIVS:
        1522 1890
GROUP 9 MERGES INT2 GROUP 7 AT LEVEL 94.12.
GROUP }7\mathrm{ NOW CONTAIAS:
    049}101854 920 385 6 
```

Complete Linkage, Unweighted
GROUP 80 MERGES INTO GROUP 24 AT LEVEL 93.75. GROUP 24 NOW CONTAINS: 3191891

GROUP 86 MERGES INTO GROUP 39 AT LEVEL 93.75. GROUP 39 NOW CONTAINS: 6142412

GROUP 83 MEAGES INTO GROUP 51 AT LEVEL 93.75. GROUP 51 NOW CONTAINS: $1240 \quad 1424 \quad 2143$

GROUP 70 MERGES INTO GROUP 37 AT LEVEL 93.57. GROUP 37 NOW CONTAINS: $522 \quad 1799$

GROUP 49 MERGES INTO GROUP 11 AT LEVEL 93.10. GROUP 11 NOW CONTAINS:
$\begin{array}{llll}51 & 223 & 1022 & 1245\end{array}$
GROUP 72 MERGES INTO GROUP 78 AT LEVEL 93.06.
GROUP 78 NOW CONTAINS: $1889 \quad 2423 \quad 1829$

GROUP 28 TERGES INTO GROUP 30 AT LEVEL 93.01. gROUP 30 NOW CONTAINS: $424 \quad 1888 \quad 383$

GROUP 55 MERGES INTO GROUP 56 AT LEVEL 92.96. gROUP 56 NOW CONTAINS: $\begin{array}{llllllll}1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876 & 1247\end{array}$

GROUP 44 NERGES INTO GROUP 7 AT LEVEL 92.41. GROUP 7 NOW CONTAINS: $\begin{array}{lllllll}049 & 1854 & 920 & 385 & 6 & 917 & 1874\end{array}$

GROUP 34 MERGES INTO GROUP 21 AT LEVEL 92.36. GROUP 21 NOW CONTAINS: 22.6483

GROUP 22 MERGES INTO GROUP 14 AT LEVEL 92.31. GROUP 14 NOW CONTAINS: $\begin{array}{llll}177 & 337 & 1738 & 263\end{array}$

GROUP 24 MERGES INTO GROUP 10 AT LEVEL 92.20. GROUP 10 NOW CONTAINS: $\begin{array}{llll}38 & 1319 & 319 & 1891\end{array}$

GROUP 17 MEAGES INTO GROUP 37 AT LEVEL 92.09. GROUP 37 NOW CONTAINS: $5221799 \quad 206$

Complete Linkage, Unweighted

```
GROUP 36 MERGES INTO GROUP 1 AT LEVEL 91.61.
GROUP 1 NOW CONTAINS:
    TR 491
GROUP 18 MERGES INTO GROUP 14 AT L.EVEL 91.55.
GROUP 14 NOW CONTAINS:
    177}3337\quad1738 263 209 
GROUP 85 MERGES INTO GROUP 48 AT LEVEL 9i.49.
GROUP 48 NOW CONTAINS:
    9992401
GROUP 38 MERGES INTO GROUP 78 AT LEVEL 91.03.
GROUP 78 NNOW CONTAINS:
    1889 2423 1829 547
GROUP 16 MERGES INTO GROUP 5 AT LEVEL 90.78.
GROUP 5 NOW CONTAINS:
    025 203
GROUP 51 MERGES INTO GROUP 7 AT LEVEL 90.58.
GROUP }7\mathrm{ NOW CONTAINS:
```



```
        2143
GROUP 47 MERGES INTO GROUP 21 AT LEVEL 90.14.
GROUP 21 NOW CONTAINS:
    226 483 959
GROUP 30 MERGES INTO GROUP 10 AT LEVEL 89.51.
GROUP 10 NOW CONTATNS:
```



```
GROUP 5 MERGES INTO CROUP 14 AT LEVEL 89.29.
GROUP 14 NOW CONTAINS:
    177 337}17388 263 209 020 203 
GROUP 64 MERGES INTO GROUP 35 AT LEVEL 88.89.
GROUP 35 NOW CONTAINS:
    489 927 1597
GROUP 21 MERGES INTO GROUP 11 AT LEVEL 88.81.
GROUP 11 NOW CONTAINS:
    51
GROUP 42 MERGES INTO GROUP 14 AT LEVEL 88.73.
GROUP 14 !OW CONTAINS:
    177
GROUP 69 MEMGES INTO GROUP 52 AT LEVEL 88.65.
GROUP 52 NON CONTAINS:
        1241 1739
```

```
        - 162 -
            Complete Linkage, Unweighted
GROUP 58 MERGES INTO GROUP 19 AT LEVEL 88.19.
GROUP 19 NOW CONTAINS:
    216 440 1315
GROUP 14 MERGES INTO GROUP 7 AT LEVEL 87.41.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 6 & 917 & 1874 & 1240 & 1424 \\
2143 & 177 & 337 & 1738 & 263 & 209 & 020 & 203 & 643
\end{tabular}
GROUP 78 MERGES INTO GROUP 11 AT LEVEL 87.41.
GROUP 11 NOW CONTAINS:
    51
    1829 547
GROUP 65 MERGES INTO GROJP 48 AT LEVEL 87.32.
GROUP 48 NOW CONTAINS:
    999 2401 1010
GROUP 66 MERGES INTO GROUP 39 AT LEVEL 86.71.
GROUP 39 NOW CONTAINS:
    614 2412 1611
GROUP 10 MERGES INTO GROUP 7 AT LEVEL 86.67.
GROUP 7 NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 6 & 917 & 1874 & 1240 & 1424 \\
2143 & 177 & 337 & 1738 & 263 & 209 & 020 & 203 & 643 \\
38 & 1319 & 319 & 1891 & 424 & 1888 & 383 & &
\end{tabular}
GROUP 82 MERGES INTO GROUP 13 AT LEVEL 85.71.
GROUP 13 NOW CONTAINS:
    104 1898
GROUP 35 MERGES INTO GROUP 11 AT LEVEL 35.42.
GROUP 11 NOW CONTAINS:
    51
        1829 547 489 927 1597
GROUP 1 MERGES INTO GROUP 7 AT LEVEL 85.31.
GROUP }7\mathrm{ NOH CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 6 & 917 & 1874 & 1240 & 1424 \\
2143 & 177 & 337 & 1738 & 263 & 209 & 020 & 203 & 643 \\
38 & 1319 & 319 & 1891 & 424 & 1888 & 383 & \(T R\) & 491
\end{tabular}
GROUP 41 MERGES INTO GROUP 23 AT LEVEL 85.21.
GROUP 23 NOW CONTAINS:
    307 642
GROUP 48 MEPGES INTO GROUP 11 AT LEVEL 83.80.
GROUP 11 N'JW CONTAINS:
\begin{tabular}{lllllllll}
51 & 223 & 1022 & 1245 & 226 & 483 & 959 & 1889 & 2423
\end{tabular}
    1829 547 
```

```
        - 163 -
            Complete Linkage, Unweighted
GROUP 13 MERGES INTO GROUP 7 AT LEVEL 83.33.
GROUP }7\mathrm{ NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 6 & 917 & 1874 & 1240 & 1424 \\
2143 & 177 & 337 & 1738 & 263 & 209 & 020 & 203 & 643 \\
38 & 1319 & 319 & 1891 & 424 & 1888 & 383 & TR & 491 \\
104 & 1898 & & & & & & &
\end{tabular}
GROUP 32 MERGES INTO GROUP 56 AT LEVEL 83.33.
GROUP 56 NOW CONTAINS:
    1248
GROUP 62 MERGES INTO GROUP 39 AT LEVEL 83.33.
GROUP 39 NOW CONTAINS:
        614}2412\quad1611\quad150
GROUP 67 MERGES INTO GROUP 3 AT LEVEL 83.22.
GROUP 3 NOW CONTAINS:
        02 1735
GROUP 53 MERGES INTO GROUP 50 AT LEVEL 82.27.
GROUP 50 NOW CONTAINS:
        1175 1243
GROUP 4 MERGES INTO GROUP 2 AT LEVEL 81.75.
GROUP 2 NOW CONTAINS:
        01 }2
GROUP 11 MERGES INTO GROUP 7 AT LEVEL 81.25.
GROUP }7\mathrm{ NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 6 & 917 & 1874 & 1240 & 1424 \\
2143 & 177 & 337 & 1738 & 263 & 209 & 020 & 203 & 643 \\
38 & 1319 & 319 & 1891 & 424 & 1888 & 383 & 12 & 491 \\
104 & 1898 & 51 & 223 & 1022 & 1245 & 226 & 483 & 959 \\
1889 & 2423 & 1829 & 547 & 489 & 927 & 1597 & 999 & 2401 \\
1610 & & & & & & & &
\end{tabular}
        1610
GROUP 12 MERGES INTO GROUP 23 AT LEVEL 80.99.
GROUP 23 NOW CONTAINS:
    307 642 69
GROUP 71 MERGES INTO GROUP 7 AT LEVEL 80.42.
GROUP }7\mathrm{ NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 6 & 917 & 1874 & 1240 & 1424 \\
2143 & 177 & 337 & 1738 & 263 & 209 & 020 & 203 & 643 \\
38 & 1319 & 319 & 1891 & 424 & 1888 & 383 & \(7 R\) & 491 \\
104 & 1898 & 51 & 223 & 1022 & 1245 & 226 & 483 & 959 \\
1889 & 2423 & 1829 & 547 & 489 & 927 & 1597 & 999 & 2401
\end{tabular}
        1610 1827
```

Complete Linkage, Unweighted

```
GROUP 56 MERGES INTO GROUP 7 AT LEVEL 79.02.
GROUP }7\mathrm{ NOW CONTAINS:
\begin{tabular}{rrrrrrrrr}
049 & 1854 & 920 & 385 & 6 & 917 & 1874 & 1240 & 1424 \\
2143 & 177 & 337 & 1738 & 263 & 209 & 020 & 203 & 643 \\
38 & 1319 & 319 & 1891 & 424 & 1838 & 383 & \(T R\) & 491 \\
104 & 1898 & 51 & 223 & 1022 & 1245 & 226 & 483 & 959 \\
1889 & 2423 & 1829 & 547 & 489 & 927 & 1597 & 999 & 2401 \\
1610 & 1827 & 1248 & 1503 & 1892 & 1249 & 201 & 479 & 1876
\end{tabular}
1247 467
GROUP 63 MERGES INTO GROUP 37 AT LEVEL 78.57.
GROUP 37 NOW CONTAINS:
    522 1799 206 1522 1890
GROUP 84 MERGES INTO GROUP 52 AT LEVEL 77.46.
GROUP 52 NOW CONTAINS:
    1241 1739 2298
GROUP 43 MESGES INTO GROUP 27 AT LEVEL 76.22.
GROUP 27 NOW CONTAINS:
    378 876
GROUP 6 MERGES INTO GROUP 3 AT LEVEL 75.55.
GROUP = NOW CONTAINS:
    02 1735 044
GROUP 23 MERGES INTO GROUP 19 AT LEVEL 75.52.
GROUP 19 NOW CONTAINS:
    216 440 1315 307 642 69
GROUP 39 MERGES INTO GROUP 37 AT LEVEL 73.76.
GROUP 37 NOW CONTAINS:
    522 1799 206 1522 1890 614 2412 1611 1505
GROUP 27 MERGES INTO GROUP 19 AT LEVEL 72.92.
GROUP 19 NOLi COAMAITSS:
    216
GROUP 25 MERGES INTO GROUP 7 AT LEVEL 72.73.
GROUP }7\mathrm{ NOW CONTAINS:
```



```
        2143
```




```
        1889
        1610}181827 1248 1503 1892 1249 201 479 1876
        1247 467 323
GROUP 50 HERGES INTO GROUP 2 AT LEVEL 70.07.
GROUP 2 NOW CONTAINS:
        01 03 1175 1243
```

Complete Linkage, Unweighted
GROUP 3 MEFGES INTO GROUP 2 AT LEVEL 65.49. GROUP 2 NOW CONTAINS:
$\begin{array}{lllllll}01 & 03 & 1175 & 1243 & 02 & 1735 & 044\end{array}$
GROUP 40 MERGES INTO GROUP 7 AT LEVEL 64.79. GROUP 7 NOW CONTAINS:

| 049 | 1854 | 920 | 385 | 6 | 917 | 1874 | 1240 | 1424 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2143 | 177 | 337 | 1738 | 263 | 209 | 020 | 203 | 643 |
| 38 | 1319 | 319 | 1891 | 424 | 1888 | 383 | $7 R$ | 491 |
| 104 | 1898 | 51 | 223 | 1022 | 1245 | 226 | 483 | 959 |
| 1889 | 2423 | 1829 | 547 | 489 | 927 | 1597 | 999 | 2401 |
| 1610 | 1827 | 1248 | 1503 | 1892 | 1249 | 201 | 479 | 1876 |
| 1247 | 467 | 323 | 623 | 1845 | 5 |  |  |  |

GROUP 19 MERGES INTO GROUP 7 AT LEVEL 59.71. GROUP 7 NOW CONTAI:IS:

| 049 | 1854 | 920 | 385 | 6 | 917 | 1874 | 1240 | 1424 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2143 | 177 | 337 | 1738 | 263 | 209 | 020 | 203 | 643 |
| 38 | 1319 | 319 | 1891 | 424 | 1888 | 383 | $7 R$ | 491 |
| 104 | 1898 | 51 | 223 | 1022 | 1245 | 226 | 483 | 959 |
| 1889 | 2423 | 1829 | 547 | 489 | 927 | 1597 | 999 | 2401 |
| 1610 | 1827 | 1248 | 1503 | 1892 | 1249 | 201 | 479 | 1876 |
| 1247 | 467 | 323 | 623 | 1845 | 5 | 216 | 440 | 1315 |
| 307 | 642 | 69 | 378 | 876 |  |  |  |  |

GROUP 52 MERGES INTO GROUP 2 AT LEVEL 59.56.
gROUP 2 NOW CONTAINS:
$\begin{array}{lllllllll}01 & 03 & 1175 & 1243 & 02 & 1735 & 044 & 1241 & 1739\end{array}$ 2298

GROUP 2 MERGES INTO GROUP 7 AT LEVEL 41.55.
gROUP 7 NOW CONTAINS:

| 049 | 1854 | 920 | 385 | 6 | 917 | 1874 | 1240 | 1424 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2143 | 177 | 337 | 1738 | 263 | 209 | 020 | 203 | 643 |
| 38 | 1319 | 319 | 1891 | 424 | 1888 | 383 | 78 | 491 |
| 104 | 1898 | 51 | 223 | 1022 | 1245 | 226 | 483 | 959 |
| 1889 | 2423 | 1829 | 547 | 489 | 927 | 1597 | 999 | 2401 |
| 1610 | 1827 | 1248 | 1503 | 1892 | 1249 | 201 | 479 | 1876 |
| 1247 | 467 | 323 | 623 | 1845 | 5 | 216 | 440 | 1315 |
| 307 | 642 | 69 | 378 | 876 | 01 | 03 | 1175 | 1243 |
| 02 | 1735 | 044 | 1241 | 1739 | 2298 |  |  |  |

Complete Linkage, Unweighted

GROUP 37 MERGES INTO GROUP 7 AT LEVEL 39.58.
GROUP 7 NOW CONTAINS:

| 049 | 1854 | 920 | 385 | 6 | 917 | 1874 | 1240 | 1424 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2143 | 177 | 337 | 1738 | 263 | 209 | 020 | 203 | 643 |
| 38 | 1319 | 319 | 1891 | 424 | 1888 | 383 | $T R$ | 491 |
| 104 | 1898 | 51 | 223 | 1022 | 1245 | 226 | 483 | 959 |
| 1889 | 2423 | 1829 | 547 | 489 | 927 | 1597 | 999 | 2401 |
| 1610 | 1827 | 1248 | 1503 | 1892 | 1249 | 201 | 479 | 1876 |
| 1247 | 467 | 323 | 623 | 1845 | 5 | 216 | 440 | 1315 |
| 307 | 642 | 69 | 378 | 876 | 01 | 03 | 1175 | 1243 |
| 02 | 1735 | 044 | 1241 | 1739 | 2298 | 522 | 1799 | 206 |
| 1522 | 1890 | 614 | 2412 | 1611 | 1505 |  |  |  |

Complete Linkage, Unweighted

POINTS OF FORMATION FOR INITIAL GROUPS

| $(7)$ | $049:$ | 100.00 | $(74)$ | $1854:$ | 100.00 | $(45)$ | $920:$ | 100.00 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $(29)$ | $385:$ | 100.00 | $(9)$ | $6:$ | 100.00 | $(44)$ | $917:$ | 100.00 |
| $(75)$ | $1874:$ | 100.00 | $(51)$ | $1240:$ | 100.00 | $(60)$ | $1424:$ | 100.00 |
| $(83)$ | $2143:$ | 100.00 | $(14)$ | $177:$ | 100.00 | $(26)$ | $337:$ | 100.00 |
| $(68)$ | $1738:$ | 100.00 | $(22)$ | $203:$ | 100.00 | $(18)$ | $209:$ | 100.00 |
| $(5)$ | $020:$ | 100.00 | $(16)$ | $203:$ | 100.00 | $(42)$ | $643:$ | 100.00 |
| $(10)$ | $38:$ | 100.00 | $(59)$ | $1319:$ | 100.00 | $(24)$ | $319:$ | 100.00 |
| $(80)$ | $1891:$ | 100.00 | $(30)$ | $424:$ | 100.00 | $(77)$ | $1888:$ | 100.00 |
| $(28)$ | $383:$ | 100.00 | $(1)$ | $7 R:$ | 100.00 | $(36)$ | $491:$ | 100.00 |
| $(13)$ | $104:$ | 100.00 | $(82)$ | $1898:$ | 100.00 | $(11)$ | $51:$ | 100.00 |
| $(20)$ | $223:$ | 100.00 | $(49)$ | $1022:$ | 100.00 | $(54)$ | $1245:$ | 100.00 |
| $(21)$ | $226:$ | 100.00 | $(34)$ | $483:$ | 100.00 | $(47)$ | $959:$ | 100.00 |
| $(78)$ | $1889:$ | 100.00 | $(87)$ | $2423:$ | 100.00 | $(72)$ | $1829:$ | 100.00 |
| $(38)$ | $547:$ | 100.00 | $(35)$ | $489:$ | 100.00 | $(46)$ | $927:$ | 100.00 |
| $(64)$ | $1597:$ | 100.00 | $(48)$ | $999:$ | 100.00 | $(85)$ | $2401:$ | 100.00 |
| $(65)$ | $1610:$ | 100.00 | $(71)$ | $1827:$ | 100.00 | $(56)$ | $1248:$ | 100.00 |
| $(61)$ | $1503:$ | 100.00 | $(81)$ | $1892:$ | 100.00 | $(57)$ | $1249:$ | 100.00 |
| $(15)$ | $201:$ | 100.00 | $(33)$ | $479:$ | 100.00 | $(76)$ | $1876:$ | 100.00 |
| $(55)$ | $1247:$ | 100.00 | $(32)$ | $467:$ | 100.00 | $(25)$ | $323:$ | 100.00 |
| $(40)$ | $623:$ | 100.00 | $(73)$ | $1845:$ | 100.00 | $(8)$ | $5:$ | 100.00 |
| $(19)$ | $216:$ | 100.00 | $(31)$ | $440:$ | 100.00 | $(58)$ | $1315:$ | 100.00 |
| $(23)$ | $307:$ | 100.00 | $(41)$ | $642:$ | 100.00 | $(12)$ | $69:$ | 100.00 |
| $(27)$ | $378:$ | 100.00 | $(43)$ | $876:$ | 100.00 | $(2)$ | $01:$ | 100.00 |
| $(4)$ | $03:$ | 100.00 | $(50)$ | $1175:$ | 100.00 | $(53)$ | $1243:$ | 100.00 |
| $(3)$ | $02:$ | 100.00 | $(67)$ | $1735:$ | 100.00 | $(6)$ | $044:$ | 100.00 |
| $(52)$ | $1241:$ | 100.00 | $(69)$ | $1739:$ | 100.00 | $(84)$ | $2298:$ | 100.00 |
| $(37)$ | $522:$ | 100.00 | $(70)$ | $1799:$ | 100.00 | $(17)$ | $206:$ | 100.00 |
| $(63)$ | $1522:$ | 100.00 | $(79)$ | $1890:$ | 100.00 | $(39)$ | $614:$ | 100.00 |
| $(86)$ | $2412:$ | 100.00 | $(66)$ | $1611:$ | 100.00 | $(62)$ | $1505:$ | 100.00 |

UNVEIGHTED

|  | TR | 01 | 02 | 0 | 020 | 044 | 049 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 100.0 | 57.6 | 58.7 | 52.1 | 88.1 | 60.7 | 88.9 | 73.6 | 86 |
| 01 | 57.6 | 100.0 | 69.6 | 81.8 | 57.2 | 68.7 | 59.7 | 66.9 | 59 |
| 02 | 58.7 | 69.6 | 100.0 | 69.0 | 59.4 | 79.4 | 61.8 | 65.3 | 59.2 |
| 03 | 52.1 | 81.8 | 69.0 | 100.0 | 53.5 | 66.4 | 54.5 | 58.0 | 54.6 |
| 020 | 88.1 | 57.2 | 59.4 | 53.5 | 100.0 | 60.0 | 92.4 | 75.7 | 90.8 |
| 044 | 60.7 | 68.7 | 79.4 | 66.4 | 60.0 | 100.7 | 60.3 | 67.6 | 59.3 |
| 049 | 88.9 | 59.7 | 61.8 | 54.5 | 92.4 | 60.3 | 100.0 | 73.8 | 95.1 |
| 5 | 73.6 | 66.9 | 65.3 | 58.0 | 75.7 | 67.6 | 73.8 | 100.0 | 74.1 |
| 6 | 86.6 | 59.1 | 59.2 | 54.6 | 90.8 | 59.3 | 95.1 | 74.1 | 100.0 |
| 38 | 85.9 | 58.0 | 58.5 | 50.7 | 86.7 | 57.8 | 91.9 | 69.9 | 91.9 |
| 51 | 86.1 | 56.8 | 55.6 | 51.0 | 87.5 | 55. | 92.4 | 71. | 90.2 |
| 69 | 75.5 | 64.0 | 60.1 | ó0.6 | 76.2 | 62.2 | 82.6 | 72.2 | 80.3 |
| 104 | 83.3 | 59.0 | 60.4 | 53.8 | 86.8 | 60.3 | 86.9 | 72 | 84.6 |
| 177 | 86.0 | 54.3 | 55.2 | 48.6 | 89.6 | 56.3 | 93.1 | 75.8 | 90.8 |
| 201 | 87.5 | 60.4 | 56.9 | 53.8 | 86.8 | 58.1 | 89.1 | 73.1 | 86.7 |
| 203 | 88.0 | 59. | 57.4 | 52.9 | 90.8 | 58.6 | 92.3 | 71. | 90.8 |
| 206 | 54. | 55.1 | 55.3 | 55.0 | 54.6 | 57 | 54 | 54 | 52.1 |
| 209 | 89.4 | 56.9 | 58.5 | 52.5 | 91.5 | 56.0 | 92.3 | 72.0 | 88.7 |
| 216 | 85.4 | 62.6 | 58.3 | 53.8 | 84.7 | 57.4 | 86.9 | 71.7 | 83.2 |
| 223 | 86. | 56.8 | 55.6 | 51.0 | 87.5 | 55. | 92.4 | 71. | . 2 |
| 226 | 88 | 60.9 | 62.9 | 57 | 0 | 60 | 94.4 | 73 | 90.8 |
| 263 | 86.1 | 56.1 | 59.7 | 51.7 | 89.6 | 58.1 | 94.5 | 69.0 | 90.9 |
| 307 | 79.0 | 69.1 | 02.2 | 61.3 | 79.7 | 60.7 | 86.8 | 75.0 | 83.1 |
| 319 | 86.7 | 59.4 | 58.7 | 54.9 | 89.5 | 57.0 | 92.4 | 76.4 | 91.5 |
| 323 | 77.6 | 65.2 | 55.9 | 59.2 | 78. | 63. | 80.6 | 77.8 | 79.6 |
| 337 | 86.0 | 54.3 | 55.2 | 48.6 | 89.6 | 56. | 93.1 | $7 n .8$ | 90.8 |
| 378 | 70.4 | 56.2 | 53.5 | 51.8 | 76.1 | 53.0 | 76.9 | 64.3 | 76.6 |
| 383 | 86.8 | 55.4 | 58.3 | 51.0 | 90.3 | 55.6 | 93.8 | 72.4 | 93.0 |
| 385 | 88.3 | 58.3 | 60.6 | 53.7 |  | 58. | 96.4 | ?2 | 94.1 |
| 424 | 86.1 | 60.4 | 60.4 | 55.9 | 89. | 58. | 4.5 | 73 |  |
| 4 | 84.7 | 64.7 | 59.0 | 55.9 | 85.4 | 58.1 | 87.6 | 72.4 | 83.9 |
| 7 | 81.9 | 54.7 | 58.7 | 51.4 | 83.9 | 55.6 | 87.5 | 79.1 | 85.2 |
| 479 | 36.8 | 00.4 | 57.6 | 54. | 87.5 | 58. | 88.3 | 73.8 | 86.0 |
| 483 | 88.9 | 60.4 | 59.7 | 53.1 | 90.3 | 59.6 | 92.4 | 73.1 | 88.8 |
| 489 | 85.3 | 55.8 | 56.6 | 52.1 | 89.5 | 57.0 | 91.0 | 72.2 | 90.1 |
| 491 | 91.6 | 55.4 | 59.4 | 51.4 | 89.5 | 58.1 | 88.2 | 72.2 | 88.0 |
| 2 | 54.2 | 55.5 | 54.2 | 53.2 | 51. | 57.5 | 51.7 | 53.1 | 51.1 |
| 547 | 88.9 | 57.6 | 59.0 | 52.4 | 9.3 | 59.6 | 91.0 | 72.4 | 88.1 |
| 614 | 51.7 | 54.3 | 52.4 | 57.7 | 49.7 | 54.1 | 48.6 | 49.3 | 47.9 |
| 623 | 69.7 | 69.3 | 67.6 | 60.3 | 69.7 | 70.9 | 70.6 | 94.4 | б0. |
| 642 | 81.0 | 61.6 | 59.9 | 56.0 | 86.6 | 59.7 | 87.4 | 71.3 | 86.5 |
| 643 | 86.7 | 62.3 | 60.8 | 54.9 | 88.8 | 60.7 | 92.4 | 72.2 | 90.1 |
| 876 | 75.5 | 60.4 | 56.9 | 55.2 | 79.9 | 57.4 | 80.0 | 64.8 | 76.9 |
| 917 | 87.5 | 57.6 | 57.6 | 53.1 | 92.4 | 58.8 | 93.1 | 73.8 | 93.7 |

Unweighted (Cont.)

|  | TR | 01 | 02 | 03 | 020 | 044 | 049 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 59.7 |  |  |  | 97.9 |  |  |
|  | 85. | 55. | 55.9 | 51.4 | 88.8 | 56. | 90.3 | 71.5 |  |
|  | 83.8 | 58.4 | 56.3 | 51. | 85. | 56.0 | 88.8 | . | 86 |
|  | 83.8 | 54.0 | 52.8 | 8.2 | 87. | 56 | 88. | 70.6 | 87. |
| 1022 | 88.9 | 59.7 | 59.7 | 52.4 | 88.9 | 61.8 | 93.8 | 1.7 | 90.2 |
| 1175 | 56.3 | 72.5 | 71.1 | 76.6 | 56.3 | 73. | 56.6 | 61.5 | 54.6 |
| 1240 | 89.5 | 56.5 | 58.0 | 52.8 | 90.2 | 60.7 | 95. | 72. | 94.4 |
| 1241 | 51.1 | 65.4 | 55.2 | 67. | 54.6 | 67.2 | 52. | 59. | 51.8 |
| 1243 | 63.4 | 70.1 | 66.9 | 73.8 | 62.7 | 67. | 61. | 60. | 63. |
| 1245 | 86.8 | 59.7 | 59.0 | 52.4 | 86.8 | 59.6 | 91.7 | 71. | 90.9 |
| 12 | 85. | 56.6 | 54.6 | 51. | 85.8 | 54. | 88.0 | 71. | 86.4 |
| 1248 | 86 | 61.2 | 58.3 | 55. | 88.2 | 58.8 | 89.0 | 74.5 | 86.7 |
| 1249 | 87.0 | 59.4 | 56.5 | 53. | 87 | 57.7 | 87.8 | 73.4 | 85.4 |
| 13 | 83.2 | 57.2 | 53.1 | 48.6 | 79.7 | 54.8 | 81.3 | 67.4 | 78.9 |
| 13 | 86.5 | 59.6 | 61.4 | 53.2 | 87. | 61.7 | 91.5 | 73.8 | 90.7 |
| 1424 | 89 | 59 |  | 5 |  | 60. | 95.2 | 75. | 93.0 |
| 1503 | 86.8 | 60.4 | 59.0 | 54.5 | 88.9 | 59 | 89 | 8 | 87.4 |
| 1505 | 45.8 | 54.7 | 50.7 | 56.6 | 44.4 | 56 | 45.5 | 7.6 | 44.1 |
| 15 | 53 | 53. | 52.5 | 52. | 56.0 | 55.6 | 55.6 | 48.6 | 53.6 |
| 1597 | 83.9 | 57 | 60. | 52. | 87 | 58.5 | 89.0 | 72. | 91.5 |
| 16 | 81.8 | 58.0 | 58.0 | 53.5 | 87 | 58.5 | 87 | 72.9 |  |
| 1611 | 55.2 | 57.2 | 55. | 58.5 | 52.4 | 60.0 | 54.9 | 56 | 51.4 |
| 1735 | 65 | 73 | 83. | 65. | 67. | 75.6 | 68. | 69. | 64.8 |
| 17 | 88.0 | 56 | 56 | 49. | 0 | 56.7 | 92. | ). | . 8 |
| 17 | 50.3 | 66.7 | 65. | 69.7 | 51.7 | 63.7 | 50.7 | 58.3 | 48.6 |
| 1799 | 53.5 | 53.3 | 50. | 52.9 | 53.2 | 54.9 | 53. | 52.1 | 51 |
|  | 80 | 58.0 | 6 | 54 | 86. | 60.0 | 86 | 69. | 82.4 |
| 18 | 87 |  |  | 52 | O |  | 92.4 | 72 |  |
|  | 70. | 69.6 | 68.6 | 61. | 9.9 | 71. | . | 5. |  |
|  | 38 | 60.4 | 02.5 | 55. | 91. | 59.0 | 99.3 | 73. | , |
|  |  | 59. | 58.7 |  | 90. | 60.7 | 93.8 | 73.6 | 93.0 |
|  | 85 |  | 56.9 | 54.5 | 86 | 58 | 87 | 73.8 | 66 |
| 1888 | 85.9 | 60.1 | 61.3 | 56.7 | 89. | 60.0 | 3. | , |  |
| 1889 | 87.5 | 58.3 | 58.3 | 53.1 | 90.3 | 58. | 92.4 | 2.4 | 89 |
|  | 48 | 54 |  | 54.6 | 52.1 | 58.2 | 51.7 | 47. | 50.4 |
| 189 | 87. | 55. | 58. | 51.7 | 88.2 |  | 92.4 | 72.3 | 88.8 |
| 1892 | 85.4 | 61.2 | 57.6 | 55.2 | 87.5 | 58. | 88.3 | 74.5 | 87.4 |
| 1898 | 83.6 | 61.5 | 61.9 | 58.0 | 87.1 | 59.5 | 90.7 | 75.0 | 89. |
| 214 | 88.2 | 59.0 | 57.6 | 53.1 | 91.0 | 60.3 | 91.7 | 74.5 | 2.3 |
| 2298 | 61.8 | 61. | 61. | 62 | 62.5 | 59. | 62.8 | 64.1 | 59.4 |
| 2401 | 83.8 | 58.4 | 54.9 | 52.1 | 86.6 | 56.7 | 88. | 71.3 | 86.5 |
| 2412 | 48.3 | 55.1 | 51.7 | 55.6 | 46.9 | 55.6 | 45.8 | 47.9 |  |
| 2423 | 86. | 59. | 56. |  | 88.9 | 55.9 | 91. | 72. | 88 |

Unweighted (Cont.)

|  | 38 | 51 | 69 | 104 | 177 | 201 | 203 | 206 | 209 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 85.9 | 86. 1 | 75.5 | 83.3 | 86.0 | 87.5 | 88.0 | 54.6 | 89.4 |
| 01 | 58.0 | 56.8 | 64.0 | 59.0 | 54.3 | 60.4 | 59.4 | 55.1 | 9 |
| 02 | 58.5 | 55.6 | 60.1 | 60.4 | 55.2 | 56.9 | 57.4 | 55.3 | 58.5 |
| 03 | 50.7 | 51.0 | 60.6 | 53.8 | 48.6 | . 53.8 | 52.9 | 55.0 | 52.5 |
| 020 | 86.7 | 87.5 | 76.2 | 86.8 | 89.6 | 86.8 | 90.8 | 54.6 | 91.5 |
| 044 | 57.8 | 55.1 | 62.2 | 00.3 | 56.3 | 58.1 | 58.6 | 57.1 | 56.0 |
| 049 | 91 | 92.4 | 82.6 | 86.9 | 93.1 | 89.9 | 92.3 | 54.2 | 92.3 |
| 5 | 69.9 | 71.7 | 72.2 | 72.4 | 70.8 | 73.1 | 71.1 | 54.2 | 72.0 |
| 6 | 91.9 | 90.2 | 80.3 | 84.6 | 90.8 | 86.7 | 90.8 | 52.1 | 88.7 |
| 38 | 100.0 | 90.4 | 82.2 | 84.6 | 89.6 | 83.8 | 89.5 | 56.0 | 88.8 |
| 5 | 00.4 | 100.0 | 79.9 | 85.5 | 90.3 | 86.2 | 88.7 | 52.8 | 89.5 |
| 69 | 82.2 | 79.9 | 100.0 | 75.0 | 78.3 | 78.5 | 75.9 | 58.9 | 77.5 |
| 104 | 84.6 | 85.5 | 75.0 | 100.0 | 85.4 | 83.4 | 84.5 | 51.4 | 88.1 |
| 177 | 89.6 | 90.3 | 78.3 | 85.4 | 100.0 | 86.8 | 90.8 | 53.2 | 91.5 |
| 201 | 83.8 | 86.2 | 78.5 | 83.4 | 86.8 | 109.0 | 88.7 | 61.3 | 87.4 |
| 203 | 89.5 | 88.7 | 75.9 | 84.5 | 90.8 | 85.7 | 100.0 | 54.7 | 89.3 |
| 206 | 56.0 | 52.8 | 58.9 | 51.4 | 53.2 | 61.3 | 54.7 | :00.0 | 51.4 |
| 209 | 88.8 | 89.5 | 77.5 | 88.1 | 01.5 | 87.4 | 89.3 | 51.4 | 100.0 |
| 216 | 82.4 | 84.1 | 80.6 | 84. | 82.6 | 88.3 | 85.2 | 57.0 | 87.4 |
| 223 | 90.4 | 100.0 | 79.9 | 85.5 | 90.3 | 86.2 | 88.7 | 52.8 | 89.5 |
| 226 | 88.9 | 88.9 | 79.7 | 86.1 | 88.8 | 91.7 | 92.2 | 55.3 | 91.5 |
| 263 | 91.2 | 91.0 | 78.5 | 86.9 | 93.1 | 85.5 | 90.8 | 52.1 | 91.6 |
| 307 | 82.2 | 81.9 | 82.5 | 75.7 | 81.8 | 81.3 | 81.0 | 58.9 | 81.7 |
| 319 | 93.3 | 92.4 | 83.9 | 84.0 | 91.6 | 88.2 | 89.4 | 55.3 | 93 |
| 323 | 77.9 | 79.9 | 74.1 | 76.4 | 76.2 | 78.5 | 78.0 | 52.5 | 78.2 |
| 337 | 89.6 | 90.3 | 78.3 | 85.4 | 100.0 | 86.8 | 90.8 | 53.2 | 91. |
| 378 | 76.9 | 75.5 | 75.4 | 73.4 | 76.1 | 75.5 | 76.4 | 57.1 | 77. |
| 383 | 91.2 | 91.0 | 79.2 | 87.6 | 91.0 | 86.9 | 89.4 | 52.1 | 99.2 |
| 395 | 93.8 | 90.6 | 83.9 | 87.0 | 90.5 | 88.4 | 90.4 | 54.8 | 92.6 |
| 424 | 90.4 | 99.3 | 82.6 | 85.5 | 88.9 | 87.6 | 88.7 | 54.9 | 89.5 |
| 440 | 83.1 | 84.8 | 81.3 | 84.3 | 83.3 | 84.8 | 84.5 | 54.9 | 86.7 |
| 467 | 85.2 | 84.7 | 76.9 | 82.6 | 83.2 | 84.7 | 83.1 | 52.5 | 85.2 |
| 479 | 83.1 | 85.5 | 77.8 | 82.8 | 86.1 | 99.3 | 88.0 | 62.7 | 86.7 |
| 483 | 88.2 | 89.7 | 79.2 | 84.8 | 86.8 | 88.3 | 88.0 | 56.3 | 88.8 |
| 489 | 88.9 | 88.9 | 76.2 | 86.8 | 88.1 | 84.0 | 88.7 | 52.5 | 88. |
| 491 | 88.9 | 86.1 | 75.5 | 84.7 | 88.1 | 84.0 | 88.7 | 53.2 | 88.7 |
| 522 | 56.7 | 51.0 | 57.0 | 51.0 | 50.7 | 57.3 | 52.1 | 92.1 | 49.6 |
| 547 | 90.4 | 87.6 | 77.8 | 84.1 | 85.4 | 85.5 | 88.0 | 56.3 | 88.8 |
| 614 | 45.9 | 45.8 | 51.7 | 49.3 | 46.2 | 54.9 | 46.8 | 78.7 | 46.5 |
| 623 | 68.7 | 68.5 | $\cdots$ | 08.5 | 66.2 | 68.5 | 67.9 | 53.6 | 68.8 |
| 642 | 86.6 | 84.0 | 31.0 | 81.1 | 84.5 | 79.7 | 84.4 | 56.4 | 84.4 |
| 643 | 88.9 | 88.2 | 81.1 | 86.1 | 89.5 | 86.1 | 89.4 | 53.2 | 88.7 |
| 876 | 76.5 | 80.7 | 75.7 | 75.2 | 76.4 | 78.6 | 77.5 | 59.9 | 73.3 |
| 917 | 87.5 | 86.9 | 78.5 | 84.8 | 88.9 | 86.2 | 89.4 | 51.4 | 90.9 |

Unweighted (Cont.)

|  | 38 | 51 | 69 | 104 | 177 | 201 | 203 | 206 | 209 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 91 | 93 | 81.9 |  | 83.8 |  | 93.0 |  |  |
| 927 | 88.1 | 88.2 | 75.5 | 86.1 | 87.4 | 82.6 | 87.9 | 51.8 | 87 |
| 959 | 88.8 | 90.2 | 76.8 | 83.9 | 87.3 | 84.6 | 87.1 | 55.7 | 88.0 |
| 999 | 86.6 | 89.5 | 77.5 | 83.9 | 89.4 | 85.3 | 86.4 | 53.6 | 88.7 |
| 1022 | 89.7 | 93.8 | 80.6 | 84.8 | 88.2 | 86.9 | 89 | 53. | 88.8 |
| 175 | 54.5 | 55.2 | 65.7 | 58.0 | 54.2 | 58.0 | 56. | 58.6 | 54.6 |
| 1240 | 91.1 | 93.1 | 80.4 | 87.5 | 92.3 | 88.2 | 90.1 | 54.6 | 90.1 |
| 1241 | 51.5 | 51.4 | 60.3 | 53.5 | 53.2 | 50.7 | 54.7 | 55.4 | 52.1 |
| 12 | 64.2 | 63.6 | 69.0 | 64.3 | 59.9 | 63.6 | 62.9 | 59.3 | 60.3 |
| 1245 | 90.4 | 93.1 | 81.3 | 82.8 | 86.1 | 84.8 | 87.3 | 53.5 | 86 |
| 1247 | 84.4 | 86.6 | 77.3 | 82.4 | 87.2 | 95.1 | 86.3 | 57.6 | 87.9 |
| 12 | 83.8 | 86.2 | 78.5 | 83.4 | 86.8 | 98.6 | 88.7 | 61.3 | 87.4 |
| 1249 | 83.8 | 84.9 | 76.8 | 82.7 | 85.5 | 97.8 | 87.5 | 61.8 | 86 |
| 1315 | 79.3 | 81.9 | 75.5 | 80.6 | 82.5 | 79.9 | 83.0 | . 8 | 83 |
| 1319 | 95.5 | 91.5 | 82.9 | 83.7 | 89.3 | 85.8 | 88.5 | 56.5 | 90.6 |
| 1 | 91. | 91.7 | 80.6 | 89.0 | 93.8 | 89.0 | 91.5 | 53.5 | 91.6 |
| 15 | 84. | 85 | 77.8 | 84. | 87.5 | 97.9 | 89.4 | . 6 | 88 |
| 1505 | 44.9 | 44.1 | 49.3 | 43.4 | 43.1 | 51.0 | 45 | 80.3 | 41 |
| 15 | 56.3 | 53.5 | 53.2 | 54.2 | 53.2 | 59.9 | 56.8 | 78.6 | 54.3 |
| 1597 | 88 | 87 | 79 | 84.0 | 86.7 | 83.3 | 85. | 48.9 | 88.0 |
| 1610 | 87 | 87 | 76. | 81. | 86.1 | 84.0 | 85.8 | 5. | 34 |
| 611 | 51.9 | 52.1 | 55.9 | 51.4 | 43.7 | 57.6 | 51.8 | 78.0 | 50 |
| 1735 | 63.7 | 61.8 | 54.3 | 63.2 | 60.8 | 62.5 | 66.7 | 53.2 | 64.8 |
| 1738 | 91 | 90 | 77.5 | 86.0 | 96.5 | 87.4 | 92. | 53.6 | 92.2 |
| 17 | 46.7 | 48.6 | 55 | 49. | 48.3 | 48.5 | 51 | 46.8 | 51.4 |
|  | 56.4 | 52.8 | 58.2 | 52.8 | 51.1 | 57.7 | 53.6 | 92.1 | 51 |
| 1827 | 83.0 | 34.0 | 72.0 | 84.0 | 84.6 | 79.2 | 81.5 | 49.6 | 84.5 |
| 1829 | 91. | 88.9 | 79 | 85.4 | 86.7 | 86.8 | 88.7 | 56.7 | 90. |
| 1845 | 68.9 | 68. | 73.6 | 68.3 | 56.0 | 68.1 | 68.1 | 54.3 | 68 |
| 54 | 91.2 | 91.7 | 81.9 | 87.6 | 92.4 | 88.3 | 91.5 | 53.5 | 92.3 |
| 1874 | 89.0 | 88.9 | 81. | 84.7 | 88.8 | 86.8 | 87.9 | 53.2 | 89.4 |
| 1876 | 83.8 | 86.2 |  | 83.4 | 86. | 95.2 | 86.6 | 58.5 | 86.7 |
| 1888 | 89.6 | 89.5 | 83.8 | 84.6 | 88.7 | 87.4 | 88.6 | 55.7 | 89.4 |
| 1889 | 89.0 | 90.3 | 77.8 | 86.9 | 86.8 | 88.3 | 89.4 | 54.2 | 90.2 |
| 1890 | 53.0 | 50.3 | 51.4 | 54.5 | 49.3 | 56.6 | 52.9 | 78.6 | 51.8 |
|  | 93. | 88.3 | 81.9 | 34.8 | 91 | 85.5 | 88.7 | 53.5 | 90.9 |
| 1892 | 84.6 | 86.9 | 77.8 | 82.8 | 86. | 97.9 | 88. | 61.3 | 86.7 |
| 1898 | 87.0 | 87.9 | 80.6 | 85.7 | 85.6 | 85.0 | 86.2 | 55.5 | 87.7 |
| 2143 | 90.4 | 92.4 | 79.2 | 86.2 | 91.0 | 86.2 | 89.4 | 52.8 | 91.6 |
| 2298 | 56.6 | 60.7 | 62.5 | 58.6 | 57.6 | 59.3 | 63.4 | 50.0 | 60.8 |
|  | 88.8 | 91.6 | 78.2 | 84.6 | 85.9 | 86.0 | 87.1 | 57.9 | 87 |
| 2412 | 45.9 | 45.8 | 51.7 | 47.9 | 44.8 | 53.5 | 46.1 | 03.7 | 45.1 |
| 2423 | 88.2 | 91.0 | 79.2 | 84.1 | 85.4 | 89.7 | 88.0 | 57.0 | 88. |

Unweighted (Cont.)

|  | 119 | 223 | 226 | 26 | 307 | 319 | 323 | 337 | 378 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 85.4 | 86.1 | 88.1 | 85.1 | 79.0 | 86. | 77.6 | 6.0 |  |
| 01 | 62.6 | 56.8 | 60.9 | 56.1 | 69. | 59.4 | 65.2 | 54.3 | 56.2 |
| 02 | 58.3 | 55.6 | 62.9 | 59.7 | 62.2 | 58.7 | 55.9 | 55.2 | 53.5 |
| 03 | 53.8 | 51.0 | 57.7 | 51.7 | 61.3 | 54.9 | 59.2 | 48.6 | 51.8 |
| 020 | 84.7 | 87.5 | 90.9 | 89.6 | 79.7 | 89.5 | 78.3 | 89.6 | 76.1 |
| 044 | 57.4 | 55.1 | 60.0 | 58.1 | 60.7 | 57.0 | 50.0 | 56.3 | 53.0 |
| 049 | 86.9 | 92.4 | 94.4 | 94.5 | 86.8 | 92.4 | 80.6 | 93.1 | 76.9 |
| 5 | 71.7 | 71.7 | 73.6 | 69.0 | 75.0 | 76.4 | 70.8 | 79.8 | 64.3 |
| 6 | 83.2 | 90.2 | 90.8 | 90.9 | 83.1 | 91.5 | 79.6 | 90.8 | 76.6 |
| 38 | 82.4 | 90.4 | 88.9 | 91.2 | 32.2 | 93.3 | 77.0 | 89.6 | 76.9 |
| 51 | 84.1 | 100.0 | 88.9 | 91.0 | 81.9 | 92.4 | 79.9 | 90.3 | 75. |
| 69 | 80.6 | 79.9 | 79.7 | 78.5 | 82.5 | 83.9 | 74.1 | 78.3 | 75. |
| 104 | 84.1 | 85.5 | 86.1 | 86.9 | 75.7 | 84.0 | 76.4 | 85.4 | 73.4 |
| 7 | 82.6 | 90.3 | 88.8 | 93.1 | 81.8 | 91.6 | 76.2 | 100.0 | 76.1 |
| 201 | 88.3 | 86.2 | 91.7 | 85.5 | 81.3 | 88.2 | 78.5 | 86.8 | 75.5 |
| 203 | 85.2 | 88.7 | 92.2 | 90.8 | 81.6 | 89.4 | 78.0 | 90.8 | 76.4 |
| 206 | 57.0 | 52.8 | 55.3 | 52.1 | 58.9 | 55.3 | 52.5 | 53.2 | 57.1 |
| 209 | 87. | 89.5 | 91.5 | 91.6 | 81.7 | 93.0 | 78.2 | 91.5 | 77.3 |
| 216 | 100.0 | 84.1 | 88.2 | 84. | 82 | 85 | 80.6 | 82.6 | 75.5 |
| 223 | 84.1 | 100.0 | 88.9 | 91.0 | 81.9 | 92.4 | 79.9 | 90.3 | 75.5 |
| 226 | 88.2 | 88.9 | 100.0 | 9.3 | 83.2 | 91.6 | 79.7 | 88.8 | 74.6 |
| 26 | 84 | 91.0 | 90.3 | ic0.0 | 83.3 | 91.0 | 77.8 | 93.1 | 78.3 |
| 307 | 82.6 | 81.9 | 83.2 | 83.3 | 100.0 | 83.9 | 73.4 | 81.8 | 73.9 |
| 319 | 85.4 | 92.4 | 91.6 | 91.0 | 83.9 | 100.0 | 81.1 | 91.6 | 80.3 |
| 3 | 80.6 | 79.9 | 79.7 | 77.8 | 73.4 | 81.1 | 100.0 | 76.2 | 63.4 |
| 337 | 82.6 | 90.3 | 88.8 | 93.1 | 81.8 | 91.6 | 76.2 | 100.0 | 6.1 |
| 378 | 75.5 | 75.5 | 74.6 | 78.3 | 73.9 | 80.3 | 63.4 | 76.1 | 100.0 |
| 383 | 86.2 | 91.0 | 91.0 | 91.0 | 81.9 | 91.7 | 78.5 | 91.0 | 77. |
| 385 | $8 \%$ | 90.6 | 93.4 | 92.0 | 84.7 | 92.7 | 81.0 | 90.5 | 75.2 |
| 424 | 91. | 90.3 | 91.7 | 90.3 | 85.4 | 91. | 80.6 | 88.9 | 77. |
| 440 | 96.6 | 84.8 | 87.5 | 84.8 | 83. | 86. | 79. | 83.3 | 76.2 |
| 467 | 84.0 | 84.7 | 86.7 | 86.1 | 79.0 | 86.0 | 74.8 | 83.2 | 74.6 |
| 479 | 87.6 | 85.5 | 91.9 | 84.8 | 80.6 | 87.5 | 77.8 | 86.1 | 74. |
| 483 | 87.5 | 89.7 | 92.4 | 88.3 | 83.3 | 88.2 | 32.6 | 86.8 | 71.3 |
| 489 | 84.7 | 88.9 | 88.8 | 88.2 | 81.1 | 88.2 | 78.3 | 88.1 | 73.2 |
| 491 | 82.6 | 86.1 | 36.7 | 88.2 | 77.6 | 88.8 | 74. | 88.1 | 73.9 |
| 522 | 55.2 | 51.0 | 51.4 | 51.0 | 55.6 | 54.2 | 47.9 | 50.7 | 56.7 |
| 547 | 83.4 | 87.6 | 89.6 | 87.6 | 79.9 | 88.2 | 79.9 | 85.4 | 70.6 |
| 614 | 52.8 | 45.8 | 50.3 | 47.2 | 50.3 | 48.3 | 48.3 | 46.2 | 55.6 |
| 623 | 69.9 | 62.5 | 70.4 | 55.7 | 74.6 | 73.2 | 71.1 | 66.2 | 61.0 |
| 642 | 84.6 | 84.6 | 85.2 | 86.0 | 85.2 | 84.5 | 74.6 | 84.5 | 74. |
| 643 | 56.8 | 88.2 | 90.2 | 89.6 | 83.9 | 88.9 | 77.6 | 89.5 | 76. |
| 876 | 79.3 | 80.7 | 78.5 | 78.6 | 77.8 | 79.9 | 70.8 | 76.4 | 76 |
| 917 | 84.1 | 86.9 | 90.3 | 89.0 | 83.3 | 89.6 | 78.5 | 38.9 |  |

Unweighted (Cont.)

|  |  | 223 | 226 | 263 | 307 | 319 | 323 | 337 | 378 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 87.6 |  | 93 | 93 |  |  |  |  |  |
| 927 | 84.0 | 88.2 | 87.4 | 87.5 | 80 | 87.4 | 76.9 | 87 | 72 |
| 959 | 83.9 | 90.2 | 90.1 | 88. | 81.7 | 88.7 | 78.9 | 87. | 74.5 |
| 析 | 81.8 | 89.5 | 86.6 | 86.7 | 78. | 88.7 | 78.9 | 89. | 76 |
| 1022 | 84.8 | 93.8 | 91.0 | 89. | 82.6 | 88. | 80. | 88.2 | 72 |
| 175 | 58.0 | 55.2 | 57.0 | 54.5 | 62.7 | 57. | 64. | 54. | 53.9 |
| 1240 | 86.1 | 93.1 | 91.0 | 92.4 | 83.2 | 91.6 | 81.1 | 92.3 | 76.1 |
| 1241 | 53.5 | 51.4 | 3.9 | 52. | 57.4 | 53.2 | 61.0 | 53.2 | 47.9 |
| 12 | 64.3 | 63.6 | 3.4 | 50.8 | 68.3 | 52. | 66. | 59 | 58.9 |
| 1245 | 82.8 | 93.1 | 88.9 | 87.6 | 81.9 | 88.2 | 81. | 86. | 72.0 |
| 1247 | 84.5 | 86.6 | 89.4 | 85.9 | 82.3 | 88.7 | 74.5 | 87.2 | 77 |
| 1248 | 86.9 | 86. | 91.7 | 35.5 | 81. | 88.2 | 77. | 86.8 | 75.5 |
| 1249 | 86.3 | 84.9 | 90.6 | 84.2 | 80.4 | 87.0 | 76. | 85.5 | 73.9 |
| 1315 | 88.2 | 81.9 | 81.1 | 82.6 | 77.6 | 1.8 | 71. | 82.5 | 76.8 |
| 1319 | 83.7 | 91.5 | 89.3 | 90.1 | 83.6 | 95.0 | 78.6 | 89.3 | 79 |
| 1424 | 86.2 | 91.7 | 91.0 | 93.8 | 84.0 | 91.7 | 78.5 | 93.8 | 76. |
| 15 | 87.6 | 85 | 92.4 | 86.2 | 80. | 87 | 76.4 | 87.5 | 76 |
| 1505 | 47.6 | 44.1 | 45.8 | 44. | 48.6 | 44. | 46 | 43.1 |  |
| 15 | 57.9 | 53.5 | 55.3 | 55.6 | 56.0 | 53.9 | 51.8 | 53.2 | 60.7 |
|  | 81.9 | 37.5 | 88.1 | 88.2 | 79.7 | 88.8 | 76.2 | 86.7 | 73.9 |
| í6io | 78. | 87.5 | 86.0 | 85.4 | 80. | 88.8 | 76. | 86.0 | 75 |
| 16 | 55.6 | 52.1 | 53.5 | 52.1 | 58.7 |  |  |  | 57.7 |
| 17 | 67.4 | 61.8 | 67.8 | 65.3 | 69.9 | 64. | 67. | 60.8 | 57.7 |
| 1738 | 84.0 | 90.2 | 89.4 | 92.3 | 81. | 90.8 | 77.5 | 96.5 | 76.6 |
| 17 | 51. | 48.6 | 53. | 47.9 | 54 | 52.4 | 65.7 | 48.3 |  |
|  | 57.7 | 52.8 |  |  |  |  |  |  |  |
| 18 | 78.5 | 84.0 | 83.9 | 86.1 | 76.2 | 82. | 72.7 | 84.6 | 72 |
| 18 | 86.1 | 88.9 | 89.5 | 89.6 | 81. | 90. | 81. | 86.7 | 74.6 |
|  | 69. | 68. | 70 | 66.0 | 74 |  | 70.7 | 66. | 59.7 |
| 1854 | 86.2 | 91 |  | 93.8 | 86 |  | 7. |  |  |
| 1874 | 84.7 | 88.9 | 89.5 | 90.3 | 83. | 89. | 79.7 | 88. | 72 |
| 1876 | 84. | 86.2 | 88.9 | 84.8 | 81. | 88.9 | 77.1 | 86.1 | 76.2 |
|  | 88.8 |  | 90. |  | 86. | 90 | 78. | 88. | 78.0 |
| 1889 | 86.2 | 90.3 | 91.0 | 88. | 81. | 89. |  | 86.8 | 74. |
| 1890 | 53.8 | 50.3 | 52.1 | 51.7 | 52.8 | 50.3 | 48.6 | 49. | 58. |
| 181 | 84.1 | 88.3 | 90.3 | 92.4 | 83.3 | 93.8 | 78.5 | 91.0 | 76.2 |
|  | 86. | 86. | 91 | 号 | 80. | 88. | 77.8 | 86.1 | 76 |
| 1898 | 84.3 | 87.9 | 92. | 87. | 84.2 | 88.5 | 2.0 | 85.6 | 76. |
| 2143 | 84.8 | 92.4 | 88.2 | 90.3 | 80.6 | 93.1 | 78.5 | 91.0 | 79. |
| 2298 | 64.1 | 60.7 | 63.2 | 58.6 | 63.9 | 60.4 | 65.3 | 57.6 |  |
|  | 83. | 91 | 37.3 | 88.8 | 80.3 | 89.4 | 81.0 | 85.9 |  |
| 2412 | 51.4 | 45.8 | 47.6 | 45.8 | 51.0 | 48.3 | 48.3 | 4. |  |
| 2423 | 86.2 | 91.0 | 89.6 | 86.9 | 82.6 | 90.3 | 80.6 |  |  |

Unweighted (Cont.)

|  | 383 | 385 | 424 | 440 | 467 | 479 | 483 | 489 | 491 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 86.8 | 88.3 | 86.1 | 84.7 | 81.9 | 86.8 | 88.9 | 85.3 | 91.6 |
| 01 | 55.4 | 58.3 | 60.4 | 64.7 | 54.7 | 60.4 | 60.4 | 55.8 | 55.4 |
| 02 | 58.3 | 60.6 | 60.4 | 59.0 | 58.7 | 57.6 | 59.7 | 56.6 | 59.4 |
| 03 | 51.0 | 53.7 | 55.9 | 55.9 | 51.4 | 54.5 | 53.1 | 52.1 | 51.4 |
| 020 | 90.3 | 92.0 | 89.6 | 85.4 | 83.9 | 87.5 | 90.3 | 89.5 | 89.5 |
| 044 | 56.6 | 58.1 | 58.1 | 58.1 | 55.6 | 58.1 | 59.6 | 57.0 | 58.1 |
| 049 | 93.8 | 96.4 | 94.5 | 87.6 | 87.5 | 88.3 | 92.4 | 91.0 | 88.2 |
| 5 | 72.4 | 72.5 | 73.1 | 72.4 | 70.1 | 73.8 | 73.1 | 72.2 | 72.2 |
| 6 | 93.0 | 04.1 | 92.3 | 83.9 | 85.2 | 86.0 | 88.8 | 90.1 | 88.0 |
| 38 | 91.2 | 93.8 | 90.4 | 83.1 | 85.2 | 83.1 | 88.2 | 88.9 | 88.9 |
| 51 | 91.0 | 90.6 | 90.3 | 84.8 | 84.7 | 85.5 | 89.7 | 88.9 | 86.1 |
| 69 | 79.2 | 83.9 | 82.6 | 81.3 | 76.9 | 77.8 | 79.2 | 76.2 | 75.5 |
| 104 | 87.6 | 87.0 | 85.5 | 84.8 | 82.6 | 82.8 | 84.8 | 86.8 | 84.7 |
| 17. | 91.0 | 00.5 | 88.9 | 83.3 | 83.2 | 86.1 | 86.8 | 88.1 | 88.1 |
| 201 | 86.9 | 88.4 | 87.6 | 84.8 | 84.7 | 99.3 | 88.3 | 84.0 | 84.9 |
| 203 | 89.4 | 90.4 | 88.7 | 84.5 | 83.1 | 88.9 | 88.0 | $=0.7$ | 88.7 |
| 206 | 52.1 | 54.8 | 54.9 | 54.9 | 52.5 | 62.0 | 56.3 | 52.5 | 53.2 |
| 209 | 90.2 | 92.6 | 89.5 | 86.7 | 85.2 | 86.7 | 88.8 | 88.0 | 88.7 |
| 216 | 36.2 | 87.0 | 91.0 | 96.6 | 84.0 | 87.6 | 87.6 | 84.7 | 82.6 |
| 223 | 91.0 | 90.6 | 90.3 | 84.8 | 84.7 | 85.5 | 89.7 | 88.9 | 86.1 |
| 226 | 91.0 | 93.4 | 91.7 | 87.5 | 86.7 | 91.0 | 92.4 | 88.8 | 86.7 |
| 263 | 91.0 | 92.0 | 90.3 | 84.8 | 86.1 | 84.8 | 88.3 | 88.2 | 88.2 |
| 307 | 81.9 | 84.7 | 85.4 | 83.3 | 79.0 | 80.6 | 83.3 | 81.1 | 77.6 |
| 319 | 91.7 | 92.7 | 91.0 | 86.1 | 86.9 | 87.5 | 88.2 | 88.2 | 88.8 |
| 323 | 78.5 | 81.0 | 80.6 | 79.9 | 74.8 | 77.8 | 82.6 | 78.3 | 74.1 |
| 337 | 91.0 | 90.5 | 88.9 | 83.3 | 83.2 | 86.1 | 86.8 | 88.1 | 88.1 |
| 378 | 77.6 | 75.2 | 77.6 | 76.2 | 74.6 | 74.8 | 71.3 | 73.2 | 73.9 |
| 383 | 100.0 | 92.8 | 93.8 | 86.9 | 87.5 | 86.2 | 89.1 | 92.4 | 88.9 |
| 385 | 92.8 | 100.0 | 93.5 | 87.0 | 88.3 | 87.7 | 92. 5 | 89.8 | 87.5 |
| 424 | 93.8 | 93.5 | 100.0 | 91.7 | 88.9 | 86.9 | 89.7 | 90.3 | 85.4 |
| 440 | 86.9 | 87.0 | 91.7 | 100.0 | 81.9 | 84.1 | 86.9 | 85.4 | 83.3 |
| 467 | 87.5 | 88.3 | 88.9 | 81.9 | in0.0 | 85.4 | 86.8 | 86.7 | 80.4 |
| 479 | 86.2 | 87.7 | 86.9 | 84.1 | 85.4 | 100.0 | 87.6 | 84.7 | 84.0 |
| 483 | 89.0 | 92.0 | 89.7 | 86.9 | 86.8 | 87.6 | 100.0 | 88.9 | 86.8 |
| 489 | 92.4 | 89.8 | 90.3 | 85.4 | 86.7 | 84.7 | 88.9 | 100.0 | 86.0 |
| 491 | 88.9 | 87.6 | 85.4 | 83.3 | 80.4 | 84.0 | 86.8 | 86.0 | 100.0 |
| 522 | 49.0 | 52.2 | 52.4 | 54.5 | 48.6 | 58.0 | 52.4 | 51.4 | 53.5 |
| 547 | 88.3 | 91.3 | 89.0 | 84.1 | 86.1 | 86.2 | 89.0 | 87.5 | 86.1 |
| 614 | 47.2 | 49.6 | 50.7 | 52.1 | 47.6 | 55.6 | 50.7 | 46.2 | 49.0 |
| 623 | 67.8 | 69.1 | 71.3 | 70.6 | 66.9 | 67.8 | 71.3 | 67.6 | 66.9 |
| 642 | 85.3 | 87.5 | 87.4 | 85.3 | 81.7 | 80.4 | 83.9 | 83.1 | 83.8 |
| 643 | 91.7 | 91.2 | 89.6 | 88.9 | 84.6 | 85.4 | 88.2 | 88.2 | 86.0 |
| 876 | 79.3 | 78.3 | 81.4 | 80.0 | 74.3 | 79.3 | 79.3 | 77.8 | 75.0 |
| 917 | 89.7 | 93.5 | 89.0 | 84.8 | 81.9 | 85.5 | 89.7 | 88. | 89.6 |


|  | 383 | 385 | 424 | 440 | 46 | 479 | 483 | 489 | 491 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 94.5 | 95.7 | 93.8 | 88.3 | 86.8 | 90.3 | 93.1 | 91.7 | 89.6 |
| 927 | 93.1 | 89.1 | 89.6 | 84.7 | 86.0 | 83.3 | 87.5 | 99.3 | 85.3 |
| 959 | 89.5 | 87.5 | 87.4 | 84.6 | 83.8 | 83.9 | 92.3 | 88.0 | 84.5 |
| 999 | 90.9 | 86.8 | 86.7 | 82.5 | 80.3 | 84.6 | 86.0 | 85.2 | 86.6 |
| 1022 | 90.3 | 92.8 | 91.0 | 85.5 | 85.4 | 86.2 | 93.1 | 88.2 | 85.4 |
| 1175 | 55.2 | 53.7 | 57.3 | 58.7 | 52.8 | 58.7 | 57.3 | 56.3 | 54.2 |
| 1240 | 94.4 | 92.7 | 92.4 | 86.8 | 85.3 | 87.5 | 90.3 | 92.3 | 89.5 |
| 1241 | 51.4 | 51.1 | 53.5 | 55.6 | 49.6 | 51.4 | 52.8 | 52.5 | 51.8 |
| 1243 | 62.2 | ó1.8 | 64.3 | 65.7 | 59.2 | 64.3 | 63.6 | 64.8 | 62.7 |
| 1245 | 89.7 | 93.5 | 90.3 | 83.4 | 86.1 | 84.1 | 91.0 | 87.5 | 83.3 |
| 1247 | 88.0 | 87.4 | 86.6 | 83.8 | 85.1 | 94.4 | 85.9 | 84.4 | 85.1 |
| 1248 | 86.9 | 88.4 | 87.6 | 84.8 | 84.7 | 99.3 | 86.9 | 85.4 | 84.7 |
| 1249 | 85.6 | 87.7 | 86.3 | 84.2 | 83.3 | 98.6 | 86.3 | 84.8 | 85.5 |
| 1315 | 81.3 | 81.8 | 84.7 | 90.3 | 77.6 | 79.2 | 80.6 | 81.1 | 80.4 |
| 1319 | 90.8 | 93.3 | 90.1 | 84.4 | 85.8 | 85.1 | 89.4 | 88.6 | 37.1 |
| 1424 | 93.1 | 92.8 | 91.0 | 86.9 | 85.4 | 88.3 | 90.3 | 99.3 | 89.6 |
| 1503 | 87.6 | 89.1 | 88.3 | 85.5 | 85.4 | 98.6 | 87.6 | 86.1 | 85.4 |
| 1505 | 44.1 | 43.5 | 46.2 | 45.5 | 43.1 | 51.7 | 47.6 | 44.4 | 43.8 |
| 1522 | 56.3 | 52.6 | 55.6 | 56.3 | 52.5 | 60.0 | 56.3 | 53.9 | 55.3 |
| 1597 | 90.3 | 89.8 | 88.2 | 82.6 | 83.9 | 84.0 | 85.4 | 30.5 | 06.7 |
| 1610 | 98.2 | 87.6 | 87.5 | 79.2 | 83.9 | 84.7 | 86.1 | 85.3 | 85.3 |
| 1611 | 52.1 | 53.3 | 55.6 | 56.3 | 50.3 | 56.9 | 56.9 | 51.7 | 51.0 |
| 1735 | 63.2 | $66.4$ | 66.7 | 63.4 | 60.8 | 63.2 | 67.4 | 64.3 | 63.6 |
| 1738 | 91.6 | 91.2 | 89.5 | 85.3 | 83.8 | 86.7 | 88.1 | 88.7 | 88.7 |
| 1739 | 47.2 | 49.6 | 50.7 | 53.5 | 48.3 | 40.3 | 52.1 | 48.3 | 48.3 |
| 1799 | 51.4 | 54.8 | 54.2 | 57.0 | 50.7 | 58.5 | 54.9 | 53.5 | 51.8 |
| 1827 | 84.7 | 85.4 | 83.3 | 80.6 | 79.0 | 79.9 | 84.0 | 84.6 | 84.6 |
| 1829 | 88.9 | 94.2 | 89.6 | 85.4 | 86.7 | 87.5 | 90.3 | 90.2 | 86.0 |
| 1845 | 68.1 | 69.4 | 71.6 | 70.2 | 67.9 | 68.8 | 70.9 | 68.8 | 67.9 |
| 1854 | 93.1 | 95.7 | 92.8 | 86.9 | 86.8 | 87.6 | 91.7 | 90.3 | 87.5 |
| 1874 | 88.9 | 94.2 | 89.6 | 85.4 | 83.2 | 86.1 | 91.7 | 87.4 | 88.8 |
| 1876 | 86.9 | 87.7 | 87.6 | 83.4 | 86.8 | 95.9 | 85.5 | 85.4 | 84.0 |
| 1888 | 93.0 | 92.6 | 97.9 | 89.5 | 89.4 | 87.4 | 88.8 | 90.1 | 85.3 |
| 1889 | 90.3 | 92.0 | 90.3 | 85.5 | 90.3 | 89.0 | 91.7 | 88.9 | 86.1 |
| 1890 | 52.4 | 49.3 | 51.7 | 53.1 | 49.3 | 57.3 | 51.7 | 50.3 | 52.1 |
| 1891 | 90.3 | 94.9 | 89.7 | 84.8 | 86.8 | 84.8 | 87.6 | 86.8 | 88.2 |
| 1892 | 87.6 | 87.7 | 88.3 | 84.1 | 85.4 | 98.6 | 86.2 | 86.1 | 84.0 |
| 1898 | 89.3 | 91.7 | 90.0 | 85.0 | 83.6 | 84.3 | 88.6 | 87.1 | 84.2 |
| 2143 | 91.7 | 90.6 | 89.7 | 85.5 | 84.0 | 85.5 | 90.3 | 91.0 | 91.0 |
| 2298 | 58.6 | 60.1 | 63.4 | 66.2 | 58.3 | 60.0 | 65.5 | 61.1 | 59.7 |
| 2401 | 88.1 | 88.2 | 87.4 | 83.2 | 85.9 | 86.7 | 88.1 | 87.3 | 85.2 |
| 2412 | 45.8 | 46.7 | 47.9 | 50.7 | 44.8 | 54.2 | 49.3 | 46.2 | 46.2 |
| 2423 | 90.3 | 90.6 | 91.0 | 85.5 | 86.8 | 90.3 | 90.3 | 88.2 | 86.1 |

Unweighted (Cont.)

|  | 522 | 547 | 614 | 623 | 642 | 643 | 876 | 917 | 020 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1rn | , | 88 |  | 69.7 | 81.0 | 86.7 | , | 87. |  |
| 01 | 55 | 57.6 | 54.3 | 69.3 | 61.6 | 62.3 | 60 | 57 | 50 |
| 02 | 54.2 | 59.0 | 52.4 | 67.6 | 59.9 | 60.8 | 56:9 | 57. | 59.7 |
| 03 | 53.2 | 52.4 | 57.7 | 60.3 | 56.0 | 54.9 | 55.2 | 53.1 | 53.1 |
| 20 | 51.4 | 90.3 | 49.7 | 69.7 | 86.6 | 88.8 | 79.9 | 92.4 | 93.1 |
| 044 | 57.5 | 59.6 | 54.1 | 70.9 | 59.7 | 60.7 | 57.4 | 58.8 | 61.0 |
| 049 | 51.7 | 91.0 | 48.6 | 70.6 | 87.4 | 92.4 | 80.0 | 93.1 | 97.9 |
| 5 | 53.1 | 72.4 | 49.3 | 94.4 | 71.3 | 72.2 | 64.8 | 73.8 | 74.5 |
| 6 | 51.1 | 88.1 | 47.9 | 69.5 | 86.5 | 90.1 | 76.9 | 93.7 | 95.8 |
| 38 | 56.7 | 90.4 | 45.9 | 68.7 | 86.6 | 88.9 | 76.5 | 87.5 | 91.2 |
| 51 | 51.0 | 87.6 | 45.8 | 68.5 | 84.6 | 88.2 | 80.7 | 86.9 | 93.1 |
| 69 | 57.0 | 77.8 | 51.7 | 73.9 | 81.0 | 81.1 | 75.7 | 78.5 | 81.9 |
| 104 | 51.0 | 84.1 | $+9.3$ | 68.5 | 81.1 | 86.1 | 75.2 | 84.8 | 89.0 |
| 177 | 50.7 | 85.4 | 46.2 | 66.2 | 84.5 | 89.5 | 76.4 | 88.9 | 93.8 |
| 201 | 57.3 | 85.5 | 54.9 | 68.5 | 79.7 | 86.1 | 78.6 | 86.2 | 91.0 |
| 203 | 52.1 | 83.0 | 46.8 | 67.9 | 84.4 | 89.4 | 77.5 | 89 | 0 |
| 206 | 92.1 | 56.3 | 78.0 | 53.6 | 56.4 | 53.2 | 59.9 | 51.4 | 53.5 |
| 209 | 49.6 | 88.8 | 46.5 | 68.8 | 84.4 | 88.7 | 78.3 | 90.9 | 91.6 |
| 216 | 55. | 83. | 52.8 | 69.9 | 84.6 | 86.8 | 79.3 | 84. | 87.6 |
| 223 | 51.0 | 87.6 | 45.8 | 68.5 | 84.6 | 88.2 | 80.7 | 85.9 | 93.1 |
| 6 | 51.4 | 89.6 | 50.3 | 70.4 | 85.2 | 90.2 | 78.5 | 90.3 | 93.8 |
| 263 | 51. | 87.6 | 47.2 | 65.7 | 36.0 | 89.6 | 78.6 | 89.0 | 93.8 |
| 307 | 55. | 79. | 50.3 | 74.6 | 85. | 83.9 | 77.8 | 83.3 | 84.7 |
| 319 | 54.2 | 88.2 | 48.3 | 73.2 | 84.5 | 88.9 | 79.9 | 89.6 | 91 |
| 319 | 47.9 | 79.9 | 48.3 | 71.1 | 74.6 | 77.6 | 70.8 | 78.5 | 81.3 |
| 337 | 50.7 | 85.4 | 46.2 | 66.2 | 84.5 | 89.5 | 76.4 | 88.9 | 93.8 |
| 378 | 56. | 70. | 55.6 | 61.0 | 74.5 | 76.1 | 76.2 | 74.1 | 76.2 |
| 383 | 49.0 | 88.3 | 47.2 | 67.8 | 85. | 91.7 | 79.3 | 89.7 | 94.5 |
| 385 | 52.2 | 91.3 | 49.6 | 69.1 | 87.5 | 91.2 | 78.3 | 93.5 | 95.7 |
| 424 | 52.4 | 89.0 | 50.7 | 71.3 | 87.4 | 89.6 | 81.4 | 89.0 | 93.8 |
| 440 | 54. | 84. | 52 | 70.6 | 85.3 | 88.9 | 80.0 | 84.3 | 88.3 |
| 467 | 48.6 | 86.1 | 47.6 | 66.9 | 81.7 | 84.6 | 74.3 | 81.9 | 86.8 |
| 479 | 58.0 | 86.2 | 55.6 | 67.8 | 80.4 | 85.4 | 79.3 | 85.5 | 90.3 |
| 483 | 52.4 | 89.0 | 50.7 | 71.3 | 83.9 | 88.2 | 79.3 | 89.7 | 93.1 |
| 9 | 51. | 87.5 | 46.2 | 67.6 | 33.1 | 88.2 | 77.8 | 88.2 | 91.7 |
| 491 | 53.5 | 86.1 | 49.0 | 66.9 | 83.8 | 86. | 75.0 | 89.6 | 89.6 |
| 522 | 100.0 | 53.8 | 78.2 | 52.5 | 56.0 | 52.1 | 56.6 | 50.3 | 51.0 |
| 547 | 53.8 | 100.0 | 47.9 | 69.2 | 83.2 | 8 E .1 | 77.9 | 86.9 | 91.7 |
| 14 | 78.2 | 47.9 | 100.0 | 47.2 | 51.4 | 49.7 | 56.9 | 46.5 | 49.3 |
| 623 | 52.5 | 69.2 | 47.2 | 100.0 | 69.5 | 67.6 | 64.3 | 69.2 | 69.9 |
| 642 | 56.0 | 83.2 | 51.4 | 69.5 | 100.0 | 87.3 | 79.0 | 85.3 | 86.7 |
| 643 | 52.1 | 86.1 | 49.7 | 67.6 | 87.3 | 100.0 | 78.5 | 88.2 | 93.1 |
| 876 | 56.6 | 77.9 | 56.9 | 64.3 | 79.0 | 78.5 | 100.0 | 74.5 | 80.7 |
| 917 | 50. | 86.9 | 46 | 69.2 | 85.3 | 88.2 | 74.5 | 100.0 | 93.8 |

Unweighted (Cont.)

|  | 522 | 547 | 614 | 623 | $64 ?$ | 643 | 876 | 917 | 20 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 51.0 | 91.7 | 49.3 | 69.9 | 86.7 | 93.1 | 80.7 | 93.8 | 100.0 |
| 927 | 51.4 | 86.8 | $45.5{ }^{\text {- }}$ | 66.9 | 83.1 | 88.1 | 76.4 | 87.5 | 91.0 |
| 959 | 52.5 | 87.4 | 46.5 | 69.5 | 82.3 | 85.9 | 77.6 | 84.6 | 89.5 |
| 999 | 51.8 | 85.3 | 45.8 | 66.0 | 84.4 | 85.9 | 76.9 | 88.1 | 90.2 |
| 1022 | 51.0 | 90.3 | 48.6 | 69.9 | 84.6 | 88.9 | 80.7 | 88.3 | 04.5 |
| 1175 | 58.9 | 55.9 | 55.3 | 64.5 | 61.0 | 59.2 | 56.6 | 53.1 | 57.3 |
| 1240 | 52.8 | 89.6 | 49.7 | 67.6 | 86.6 | 91.6 | 80.6 | 91.0 | 97.2 |
| 1241 | 52.1 | 50.7 | 46.8 | 60.0 | 56.4 | 53.9 | 50.7 | 51.4 | 52.1 |
| 1243 | 61.0 | 60.8 | 56.3 | 03.1 | 67.4 | 64.8 | 62.2 | 60.8 | 63.6 |
| 1245 | 51.0 | 90.3 | 47.2 | 69.9 | 83.9 | 86.8 | 78.6 | 87.6 | 92.4 |
| 1247 | 54.3 | 83.1 | 51.8 | 66.4 | 80.7 | 86.5 | 77.5 | 85.2 | 88.7 |
| 1248 | 57.3 | 86.9 | 54.9 | 68.5 | 81.1 | 86.1 | 80.0 | 86.2 | 91.0 |
| 1249 | 58.4 | 87.1 | 55.8 | 67.2 | 79.6 | 84.8 | 78.4 | 86.3 | 89.9 |
| 1315 | 51.4 | 78.5 | 49.0 | 64.1 | 79.6 | 83.2 | 72.9 | 82.6 | 83.3 |
| 1319 | 56.1 | 90.1 | 47.9 | 71.9 | 83.5 | 87.9 | 80.1 | 87.2 | 92.2 |
| 1424 | 51.7 | 89.0 | 47.2 | 70.6 | 85.3 | 91.7 | 79.3 | 91.0 | 97.2 |
| 1503 | 56.6 | 87.6 | 55.6 | 67.8 | 81.8 | 86.8 | 79.3 | 86.9 | 91.7 |
| 1505 | 80.4 | 44.1 | 83.3 | 49.0 | 47.6 | 43.8 | 56.6 | 41.4 | 44.8 |
| 1522 | 80.7 | 55.6 | 73.8 | 49.3 | 57.9 | 54.6 | 59.2 | 52.8 | 54.9 |
| 1597 | 48.6 | 86.1 | 44.1 | 66.2 | 84.5 | 88.1 | 75.7 | 89.5 | 91.0 |
| 1610 | 51.4 | 85.4 | 46.2 | 67.6 | 84.5 | 85.3 | 76.4 | 84.7 | 88.2 |
| 1611 | 78.2 | 52.1 | 86.7 | 55.6 | 54.2 | 54.5 | 60.4 | 50.7 | 54.2 |
| 1735 | 52.8 | 66.0 | 49.7 | 71.8 | 69.0 | 67.1 | 64.6 | 64.6 | 66.0 |
| 1738 | 50.7 | 86.7 | 45.8 | 66.7 | 85.8 | 90.1 | 78.3 | 88.1 | 93.0 |
| 1739 | 44.4 | 48.6 | 46.2 | 60.6 | 53.5 | 50.3 | 48.6 | 49.3 | 49.3 |
| 1799 | 93.6 | 54.9 | 80.1 | 50.7 | 57.9 | 54.2 | 59.9 | 50.7 | 52.8 |
| 1827 | 50.7 | 81.3 | 51.0 | 64.8 | 83.1 | 83.9 | 76.4 | 83.3 | 85.4 |
| 1829 | 53.5 | 93.1 | 48.3 | 69.0 | 83.1 | 86.0 | 77.8 | 89.6 | 93.1 |
| 1845 | 54.0 | 70.9 | 47.9 | 99.3 | 71.2 | 67.4 | 64.5 | 69.5 | 70.2 |
| 1854 | 51.0 | 90.3 | 47.9 | 69.9 | 86.7 | 91.7 | 79.3 | 92.4 | 97.2 |
| 1874 | 52.1 | 87.5 | 49.0 | 71.1 | 85.9 | 87.4 | 76.4 | 96.5 | 94.4 |
| 1876 | 54.5 | 87.6 | 52.1 | 67.8 | 79.7 | 84.7 | 78.6 | 8 8. 2 | 89.7 |
| 1888 | 53.2 | 88.8 | 51.4 | 71.6 | 87.9 | 88.7 | 82.5 | 88.1 | 93.0 |
| 1889 | 51.7 | 94.5 | 47.9 | 69.2 | 34.6 | 87.5 | 79.3 | 88.3 | 93.1 |
| 1890 | 80.1 | 51.7 | 76.8 | 48.9 | 53.9 | 51.0 | 58.0 | 49.0 | 51.0 |
| 1891 | 52.4 | 89.7 | 47.9 | 67.1 | 85.3 | 88.9 | 76.6 | 89.0 | 91.7 |
| 1892 | 57.3 | 86.9 | 54.9 | 68.5 | 80.4 | 85.4 | 79.3 | 85.5 | 90.3 |
| 1898 | 51.4 | 85.0 | 50.4 | 71.7 | 85.5 | 85.6 | 77.1 | 89.3 | 89.3 |
| 2143 | 51.0 | 86.9 | 47.9 | 69.9 | 83.9 | 88.9 | 79.3 | 91.7 | 93.8 |
| 2298 | 48.3 | 61.4 | 46.5 | 61.5 | 60.8 | 61.8 | 57.2 | 61.4 | 62.8 |
| 2401 | 56.0 | 88.8 | 47.9 | 68.1 | 84.4 | 85.2 | 79.7 | 84.6 | 89.5 |
| 2412 | 84.5 | 46.5 | 93.8 | 47.2 | 50.7 | 48.3 | 59.7 | 43.8 | 46.5 |
| 2423 | 53.1 | 91.0 | 47.9 | 69.2 | 83.2 | 86.1 | 82.1 | 86.9 | 91.7 |

Unweighted (Cont.)

|  | 927 | 959 | 999 | 10 | 1175 | 1240 | 1241 | 1243 | 1245 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TF. | 85.3 | 83.8 | 83.8 | 88.9 | 56 |  |  | 63. |  |
| 01 | 55.1 | 58.4 | 54.0 | 59 | 72.5 | 56.5 | 65.4 | 70 | 59 |
| 02 | 55.9 | 56.3 | 52.8 | 59.7 | 71. | 58.0 | 65.2 | 66.9 | 59.0 |
| 03 | 51.4 | 51.1 | 48.2 | 52.4 | 76.6 | 52.8 | 67.1 | 73.8 | 52.4 |
| 20 | 88.8 | 85.9 | 87.3 | 88.9 | 56.3 | 90.2 | 54.6 | 62.7 | 86.9 |
| 44 | 56.3 | 56.0 | 56.7 | 61.8 | 73. | 60. | 67. | 67. | 59.6 |
| 049 | 90.3 | 88.8 | 88.1 | 93.8 | 56.6 | 95.1 | 52.8 | 61.5 | 91.7 |
| 5 | 71.5 | 71.3 | 70.5 | 71.7 | 61.5 | 72.2 | 59.2 | 60.1 | 71.7 |
| 6 | 89.4 | 86.5 | 87.2 | 90.2 | 54.6 | 94.4 | 51.8 | 63.1 | 90.9 |
| 38 | 88.1 | 88.8 | 86.6 | 89.7 | 54.5 | 91 | 51.5 | 64.2 | 90 |
| 51 | 88.2 | 90.2 | 89.5 | 93.8 | 55.2 | 93.1 | 51.4 | 63.6 | 93.1 |
| 69 | 75.5 | 76.8 | 77.5 | 80.6 | 65.7 | 80.4 | 60.3 | 59.0 | 81.3 |
| 104 | 86. | 83.9 | 83.9 | 84.8 | 58. | 87. | 53.5 | 64.3 | 82.8 |
| 177 | 87. | 87.3 | 89.4 | 88.2 | 54.2 | 92.3 | 53 | 59.9 | 86 |
| 201 | 82.6 | 84.6 | 85.3 | 86.9 | 58.0 | 88.2 | 50.7 | 63.6 | 84.8 |
| 3 | 87.9 | 87.1 | 86.4 | 89.4 | 56.4 | 90.1 | 54.7 | 62.9 | 87.3 |
| 206 | 51.8 | 55.7 | 53.6 | 53.5 | 58.6 | 54. | 55.4 | 59.3 | 5 |
| 209 | 87.3 | 88.0 | 88.7 | 88.8 | 54.6 | 90 | 52 | 60.3 | 86.7 |
| 16 | 84.0 | 83.9 | 81.8 | 84.8 | 58.0 | 36. | 53.5 | 64.3 | 82.8 |
| 223 | 88.2 | 90.2 | 89.5 | 93.8 | 55. | 93. | 51.4 | 63.6 | 93.1 |
| 226 | 87. | 9. | 86.6 | 91. | 57 | 91 | 53 | 63.4 | 88 |
| 263 | 87.5 | 88.1 | 86.7 | 89.7 | 54.5 | 92. | 52. | 60 | 37.6 |
| 307 | 80.4 | 81.7 | 78.2 | 82.5 | 62.7 | 83.2 | 57.4 | 68.3 | 81.9 |
| 319 | 87.4 | 88.7 | 88.7 | 88.9 | 57.7 | 91.6 | 53.2 | 62.7 | 88.2 |
| 23 | 76. | 78.9 | 78.9 | 80.6 | 04. | 81 | 61.0 | 66.9 | 81.3 |
| 337 | 87.4 | 87.3 | 89.4 | 88.2 | 54.2 | 92.3 | 53.2 | 59.9 |  |
| 8 | 72.5 | 74.5 | 76.6 | 72.7 | 53.9 | 76. | 47.9 | 58.9 | 72.0 |
| 383 | 93.1 | 89.5 | 90.9 | 90.3 | 55. | 04. | 51.4 | 62.2 | 89.7 |
| 385 | 89.1 | 87.5 | 86.8 | 92.8 | 53. | 92. | 51 | 61.8 | 93.5 |
| 424 | 89.5 | 87.4 | 86.7 | 91.0 | 57. | 92.4 | 53.5 | 64.3 |  |
| 440 | 84.7 | 84.6 | 82.5 | 85.5 | 58.7 | 86.8 | 55.6 | 65.7 | 83 |
| 467 | 86.0 | 83.8 | 80.3 | 85.4 | 52.8 | 85.3 | 49.6 | 59.2 | 86 |
| 7 | 83.3 | 83.9 | 84.6 | 86.2 | 58.7 | 87.5 | 51.4 | 64.3 | 84. |
| 483 | 87.5 | 92.3 | 86.0 | 93.1 | 57.3 | 90.3 | 52.8 | 63.6 | 91.0 |
| 489 | 99.3 | 88.0 | 85.2 | 88.2 | 56.3 | 92.3 | 52.5 | 64.8 | 87.5 |
| 1 | 85. | 84.5 | 86.6 | 85.4 | 54.2 | 39.5 | 51.8 | 62.7 | 83.3 |
| 522 | 51.4 | 52.5 | 51.8 | 51.0 | 58.5 | 52.8 | 52.1 | 61.0 | 51.0 |
| 547 | 86.8 | 87.4 | 85.3 | 90.3 | 55.9 | 89.6 | 50.7 | 60.8 | 90.3 |
| 14 | 45.5 | 46.5 | 45.8 | 48.6 | 50.3 | 49.7 | 46.8 | 56.3 | 47.2 |
|  | 66.9 | 69.5 | 66.0 | 69.9 | 64.5 | 67.6 | 60.0 | 63.1 | 69.9 |
| 42 | 83.1 | 82.3 | 84.4 | 84.6 | 61.0 | 86.6 | 56.4 | 67.4 | 83.9 |
| 643 | 88.1 | 85.9 | 85.9 | 88.9 | 59.2 | 91.6 | 53.9 | 64.8 | 86.8 |
| 76 | 76.4 | 77.6 | 76.9 | 80.7 | 56.6 | 80.6 | 50.7 | 62.2 | 78.6 |
|  |  |  |  |  |  |  |  |  |  |

Unweighted (Cont.)

|  | 927 | 959 | 999 | 1022 | 1175 | 1240 | 124 | 1243 | 1245 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 91.0 |  |  |  |  |  |  |  |  |
| 927 | 100.0 | 88.0 | 85 | 87.5 | 55.6 | 91.6 | 51.8 | 64 | 86 |
| 9 | 88.0 | 100.0 | 89.4 | 89.5 | 56.7 | 89.4 | 53.6 | 65.2 | 88.8 |
| 999 | 85.9 | 89.4 | 100.0 | 86.0 | 55.6 | 91.5 | 52.9 | 62.4 | 85.3 |
| 1022 | 87. | 89 | 86.0 | 100.0 | 57.3 | 91.7 | 52.1 | 61.5 | 97.9 |
| 1175 | 55.6 | 56.7 | 55.6 | 57.3 | 100.0 | 57.7 | 70. | 82. | 55.9 |
| 1240 | 91.6 | 89.4 | 91.5 | 91.7 | 57.7 | 100.0 | 52.5 | 64.8 | 91.0 |
| 1241 | 51.8 | 53.6 | 52.9 | 52. | 70.7 | 52.5 | 100.0 | 70.7 | 52.1 |
| 1243 | 64.1 | 65.2 | 62.4 | 61.5 | 82.3 | 64.8 | 70.7 | 100.0 | 62.2 |
| 1245 | 86.8 | 88.8 | 85.3 | 97.9 | 55.9 | 91.0 | 52.1 | 62.2 | 120.0 |
| 1247 | 83.7 | 85.7 | 85.0 | 85.9 | 55.7 | 87.2 | 49.6 | 61.4 | 33.8 |
| 1248 | 84.0 | 84.6 | 85.3 | 86.9 | 59.4 | 88.2 | 52.1 | 65. | 84.6 |
| 1249 | 83.3 | 83.2 | 33.9 | 85.6 | 57.7 | 87.0 | 50.0 | 63.5 | 83.5 |
| 1315 | 80.4 | 79. | 81.0 | 79.9 | 54.2 | 81.8 | 51.1 | 61.3 | 77.8 |
| 1319 | 87.9 | 88.5 | 86.3 | 91.5 | 57.6 | 92 | 50.4 | 63. | . 2 |
| 1424 | 89.6 | 89.5 | 88.8 | 91.7 | 58.0 | 95.8 | 52.8 | 63.6 | 89.7 |
| 1503 | 84.7 | 85.3 | 84.6 | 87.6 | 58.7 | 88.9 | 51.4 | 64.3 | 85.5 |
| 1505 | 45. | 46.9 | 44.8 | 45.5 | 56.6 | 45.8 | 47.9 | 54.5 | 44 |
| 1522 | 53.9 | 56.4 | 55 | 54 | 57 | 55.3 | 49 | 56 | 5 |
| 1597 | 88.9 | 85.9 | 86.6 | 86.8 | 53.5 | 90.9 | 54.6 | 62.7 | 87.5 |
| 1610 | 84.6 | 83 | 88.0 | 84.7 | 57. | 88.1 | 53.2 | 62.7 | 84.0 |
| 1611 | 51 | 53. | 51 | 54.9 | 62. | 54.9 | 50.4 | 59.2 | 53.5 |
| 1735 | 63.6 | 65. |  | 66.9 | 68. | 64. | 67. | 71. | 64.6 |
| 8 | 88.0 | 88.7 | 88.7 | 89.5 | 54.6 | 91.5 | 54.3 | 61.7 | 87 |
| 1739 | 47.6 | 50.0 | 49. | 50.7 | 70.4 | 49.7 | 88.7 | 67.6 | 50.7 |
| 1799 | 53 | 56 | 53.9 | 52.8 | 57.9 | 54.6 | 53.2 | 60.7 | 52.8 |
| 1827 | 84. | 81 | 81. | 85.4 | 60. | 84.6 | 52.5 | 62.0 | 83.3 |
| 1829 | 89.5 | 88.0 | 85.9 | 90.3 | 57.0 | 916 | 51.1 | 63.4 | 91.0 |
| 1845 | 68.6 | 69. | 66.2 | 70.2 | 65.5 | 67.9 | 60.9 | 64.0 | 7 . |
| 1854 | 89.6 | 88. | 87.4 | 93. | 55.9 | 94.4 | 53.5 | 60.8 | 91.0 |
| 1874 | 86.7 | 85.2 | 85.9 | 90.3 | 54.2 | 91.6 | 51.8 | 61 | 89.6 |
| 1876 | 84.0 | 84.6 | 85.3 | 85.5 | 57. | 88. | 50.0 | 63.5 | 34.8 |
| 1888 | 89.4 | 86.5 | 85.8 | 90.9 | 59.6 | 91.5 | 54.3 | 65.2 | 90. |
| 1889 | 88.9 | 90.9 | 87.4 | 93.1 | 55.9 | 91.0 | 49.3 | 62.2 | 91. |
| 1890 | 50.0 | 53.2 | 51.8 | 51.7 | 58.9 | 52.1 | 50.0 | 58.2 | 50.3 |
| 1891 | 86.1 | 86.0 | 85.3 | 89.0 | 55.9 | 90.3 | 50 | 60 | 88.3 |
| 1892 | 84.7 | 85.3 | 86.0 | 86.2 | 59.4 | 88.9 | 52.1 | 65.7 | 85 |
| 1898 | 85.6 | 87.0 | 87.0 | 86.4 | 56.5 | 87.8 | 57.7 | 66.7 | 87 |
|  | 70.3 | 86.7 | 88.8 | 89.0 | 55.9 | 93.8 | 52.1 | 62.2 | 88.3 |
| 2298 | 60.4 | 52.9 | 62.2 | 62.8 | 64.3 | 61.8 | 77.5 | 65.7 | 61.4 |
| 2401 | 86.6 | 90.1 | 91.5 | 89.5 | 58.9 | 90.1 | 52.9 | 66.7 | 88.8 |
| 2412 | 45.5 | 47.9 | 45.8 | 47.2 | 59.9 | 48.3 | 49.6 | 59.2 | 4.8 |
|  | 87 | 89 | 88 |  | 57 | 90 | 49.3 | 64. |  |

Unweighted (Cont.)

|  | 1247 | 1248 | 1249 | 1315 | 19 | 1424 | 3 | 1505 | 22 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 85.1 |  | 87.0 |  | 86 | 89.6 | S6. | 45. |  |
| 01 | 56.6 | 61.2 | 59.4 | 57.2 | 59.6 | 59.7 | 60.4 | 54.7 | 53.7 |
| 02 | 54.6 | 58.3 | 56 | 53. | 61. | 59 | 59. | 50. | 52.5 |
| 03 | 51.4 | 55.2 | 53.3 | 48.6 | 53.2 | 52. | 54. | 56. | 52.9 |
| 20 | 85.8 | 88.2 | 87.7 | 79.7 | 87.1 | 90.3 | 88.9 | 44. | . |
| 044 | 54. | 58.8 | 57.7 | 54.8 | 61. | 60.3 | 59.6 | 56.6 | 55.6 |
| 049 | 88.0 | 89.0 | 87.8 | 81.3 | 91.5 | 05.2 | 89. | 45. | 55.6 |
| 5 | 71.1 | 74.5 | 73.4 | 67.4 | 73.8 | 75.2 | 73.8 | 47.6 | 48.6 |
| 6 | 86.4 | 86.7 | 85.4 | 78.9 | 90.7 | 93. | 87. | 44. | 53.6 |
| 38 | 84.4 | 83.8 | 83.8 | 79.3 | 95.5 | 91. | 84.6 | 44. | 56.3 |
| 51 | 86.5 | 86.2 | 84.9 | 81. | 91. | 91. | 85. | 44. | 53.5 |
| 69 | 77.3 | 78.5 | 76.8 | 75.5 | 82.9 | 80.6 | 77 | 49. | 53 |
| 04 | 82.4 | 83.4 | 82.7 | 80.6 | 83.7 | 89. | 84. | 43. | 54.2 |
| 177 | 87.2 | 86.8 | 85.5 | 82.5 | 89. | 93.8 | 87. | 43. | 53.2 |
| 201 | 95 | 98.6 | 97.8 | 79.9 | 85.8 | 89. | 97 | 51.0 | 59.9 |
| 3 | 86.3 | 88.7 | 87.5 | 83.0 | 88.5 | 91 | 89.4 | 45.1 | 56.8 |
| 6 | 57.6 | 61.3 | 61.8 | 51.8 | 56.5 | 53. | 60.6 | 80.3 | 78.6 |
| 209 | 87. | 87.4 | 86.9 | 83.8 | 90.6 | 91. | 88. | 41.3 | 54.3 |
| 216 | 84.5 | 86.9 | 86.3 | 88.2 | 83 | 86. | 87. | 47.6 | 57.0 |
| 23 | 86.5 | 86.2 | 84.9 | 81.9 | 91. | 91 | 85 | 44.1 | 53.5 |
| 6 | 89.4 | 91.7 | 90.6 | 81.1 | 89.3 | 91.0 | 92.4 | 45.3 | 55.3 |
| 263 | 85. | 85.5 | 84. | 82.6 | 90.1 | 93.8 | 86. | 44. | 55.6 |
| 307 | 82.3 | 81.3 | 30 | 77.6 | 83.6 | 34. | 80. | 48.6 | 56.0 |
| 19 | 88.7 | 88.2 | 87.0 | 81.8 | 95.0 | 91. | 87 | 44.4 | 53.9 |
| 323 | 74.5 | 77.1 | 76. | 71.3 | 78.6 | 78.5 | 76. | 46.5 | 51.8 |
|  | 87.2 | 86.8 | 85. | 82.5 | 89. | 93. | 87. | 43. | 53.2 |
| 378 | 77.1 | 75 | 73.9 | 76.8 | 79 | 76 | 76. | 50 | 60. |
| 83 | 88.0 | 86.9 | 85.6 | 81.3 | 90.8 | 93.1 | 87. |  | 55.3 |
| 385 | 87.4 | 88.4 | 87.7 | 81.8 | 93.3 | 92. | 89. | 43.5 | 52.0 |
| 424 | 86.6 | 87.6 | 86. | 84.7 | 90.1 | 91. | 88.3 | 46.2 | 55.6 |
| 40 | 83.8 | 84.8 | 84. | 90.3 | 84. | 86.9 | 85.5 | 45 | 56.3 |
| 467 | 85.1 | 84.7 | 83.3 | 77.6 | 85.8 | 85.4 | 85.4 | 43 | 52. |
| 479 | 94.4 | 99.3 | 98.6 | 79.2 | 85.1 | 88.3 | 98.6 | 51.7 | 60.6 |
| 483 | 85. | 86.9 | 86.3 | 80.6 | 89.4 | 90.3 | 87.6 | 47.6 | 56.3 |
| 89 | 84.4 | 85.4 | 84.8 | 81. | 88.6 | 90.3 | 86.1 | 44. | 53. |
| 491 | 85.1 | 84.7 | 85.5 | 80.4 | 87.1 | 89.6 | 85.4 | 43.8 | 55. |
| 22 | 54.3 | 57.3 | 58.4 | 51.4 | 56.1 | 51.7 | 56.6 | 80.4 | 80.7 |
|  | 83.1 | 86.9 | 87 | 78.5 | 90.1 | 89.0 | 87.6 | 44.1 | 55.6 |
| 614 | 51.8 | 54.9 | 55.8 | 49.0 | 47.9 | 47.2 | 55.6 | 83.3 | 73.8 |
| 623 | 66.4 | 68.5 | 67.2 | 64.1 | 71.9 | 70.0 | 67.8 | 49.0 | 49.3 |
| 642 | 80.7 | 81.1 | 79.6 | 79.6 | 83.5 | 35.3 | 81.8 | 47.6 | 57.9 |
| 643 | 86.5 | 86 | 84.8 | 83.2 | 87.9 | 91.7 | 86.3 | 43.8 | 54.6 |
| 876 | 77.5 | 80.0 | 78.4 | 72.9 | 80.1 | 79.3 | 79.3 | 56.6 | 59.2 |
| 917 | 85.2 | 86.2 | 86.3 | 82.6 | 87.2 | 91.0 | 86.9 |  |  |

Unweighted (Cont.)

|  | 1247 | 1248 | 1249 | 1315 | 1319 | 1424 | 1503 | 1505 | 1522 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 88.7 | 91. |  |  |  |  |  |  |  |
| 927 | 83. | 84.0 | 83.3 | 80.4 | 87.9 | 89.6 | 84.7 | 45.1 | 53 |
| 959 | 85.7 | 84.6 | 83.2 | 79.5 | 38.5 | 89.5 | 85.3 | 46.9 | 56.4 |
| 999 | 85.0 | 85.3 | 83.9 | 81.0 | 86.3 | 88.8 | 84.6 | 44.8 | 55.7 |
| 22 | 85.9 | 86.9 | 85.6 | 79.9 | 91.5 | 91.7 | 87.6 | 45.5 | 54.9 |
| 1175 | 55.7 | 59.4 | 57.7 | 54.2 | 57.6 | 58.0 | 58.7 | 56.6 | 57.9 |
| 1240 | 87.2 | 88.2 | 87.9 | 81.8 | 92.1 | 95.8 | 88.9 | 45.8 | 55.3 |
| 41 | 49.6 | 52.1 | 50.0 | 51.1 | 50.4 | 52.8 | 51.4 | 47.9 | 49.6 |
| 1243 | 61.4 | 65.0 | 63.5 | 61.3 | 63.3 | 63.6 | 64.3 | 54.5 | 56.4 |
| 1245 | 83.8 | 84.8 | 83.5 | 77.8 | 92.2 | 89.7 | 85.5 | 44.1 | 53.5 |
| 1247 | 100.0 | 95.1 | 94.1 | 78.7 | 84.8 | 88.0 | 94.4 | 47.2 | 57.9 |
| 1248 | 95.1 | 100.0 | 99.3 | 79.9 | 85.8 | 89.0 | 99.3 | 51.0 | 59.9 |
| 1249 | 94.1 | 99.3 | 100.0 | 79.7 | 84.4 | 87.8 | 98.6 | 50.4 | 58.1 |
| 1315 | 78.7 | 79.9 | 79.7 | 100.0 | 80.0 | 83.3 | 80.6 | 43.8 | 53.2 |
| 1319 | 84.8 | 85. | 84.4 | 80.0 | 100.0 | 92.2 | 86.5 | 45 | 57.2 |
| 1424 | 88.0 | 89.0 | 87.8 | 83.3 | 92.2 | 100.0 | 89.7 | 44.1 | 54.2 |
| 1503 | 94.4 | 99.3 | 98.6 | 80.6 | 86.5 | 89.7 | 100.0 | 50.3 | 60.6 |
| 1505 | 47.2 | 51 | 50.4 | 43.8 | 45.4 | 44.1 | 50.3 | 100.0 | 82.4 |
| 1522 | 57.9 | 59.9 | 58 | 53.2 | 57 | 54. | 60.6 | 82.4 | 100.0 |
| 1597 | 83.0 | 84.7 | 83.3 | 79.7 | 88.6 | 89.6 | 85.4 | 39.6 | 50.4 |
| 1610 | 83.0 | 85.4 | 84.1 | 77.6 | 87.1 | 86.1 | 84.7 | 45.1 | 55.3 |
| 1611 | 53.9 | 56. | 55.8 | 53.1 | 54.3 | 53.5 | 55.6 | 86.1 | 75.9 |
| 1735 | 60.3 | 63.9 | 62.3 | 61. | 65. | 64.6 | 64.6 | 48.6 | 51.1 |
| 1738 | 87.9 | 87.4 | 86.1 | 81.0 | 90.6 | 93.0 | 88.1 | 43.4 | 55.0 |
| 1739 | 46.1 | 50.0 | 47.8 | 45.1 | 48.6 | 48.6 | 49.3 | 41.0 | 41.1 |
| 1799 | 54.7 | 57.7 | 58.8 | 55.3 | 56.1 | 53.5 | 57.0 | 81.0 | 79.1 |
| 1827 | 81.6 | 80.6 | 79.7 | 74.8 | 83.6 | 84.0 | 81.3 | 48.6 | 56.7 |
| 1829 | 84.4 | 88.2 | 87.7 | 80.4 | 92. | 90.3 | 88.9 | 44.4 | 56.7 |
| 1845 | 65.9 | 69.5 | 68.1 | 63.6 | 71.5 | 70.9 | 68.8 | 49.6 | 50.7 |
| 54 | 87.3 | 88.3 | 87.1 | 80.0 | 90.9 | 94.5 | 89.0 | 44.8 | 54.9 |
| 1874 | 84.4 | 86.8 | 87.0 | 81. | 90.0 | - | 87.5 | 44.4 | 54.6 |
| 1876 | 93.0 | 96. | 96.4 | 79.2 | 86.5 | 88.3 | 95.9 | 48.3 | 57.0 |
| 1888 | 86.4 | 88.1 | 86.9 | 83.1 | 90.6 | 90.9 | 88.8 | 46.9 | 56.4 |
| 1889 | 88.7 | 89.7 | 88.5 | 78.5 | 90.1 | 90.3 | 90.3 | 44.8 | 57.0 |
| 18 | 56.4 | 58. | 56.2 | 50.0 | 53.2 | 50.3 | 58.7 | 83.9 | 94.3 |
| 1891 | 85.9 | 85.5 | 86.3 | 81.9 | 92.2 | 91.7 | 86.2 | 42.1 | 52.8 |
| 1892 | 94.4 | 99.3 | 98.6 | 79.2 | 86.5 | 88.3 | 98.6 | 51.0 | 59.9 |
| 1898 | 83.9 | 85.0 | 85.1 | 79.3 | 85.4 | 86.4 | 85.0 | 47.1 | 55.5 |
| 214 | 85.2 | 86.2 | 85.6 | 82.6 | 93.6 | 93.8 | 86.9 | 43.4 | 53.5 |
| 2298 | 54.9 | 60.7 | 59. | 61.8 | 58.9 | 61.4 | 60.0 | 40.7 | 44.4 |
| 2401 | 86.4 | 87.4 | 86.1 | 78.9 | 88.5 | 88.1 | 86.7 | 46.9 | 58.6 |
| 2412 | 50.4 | 53.5 | 54.3 | 47.6 | 47.9 | 47.2 | 52.8 | 88.2 | 77 |
| 2423 | 88.7 | 91.0 | 89.9 | 78.5 | 89.4 | 89.0 | 90 | 45.5 |  |

Unweighted (Cont.)

|  | 1597 | 1610 | 1611 | 1735 | 1738 | 1739 | 1799 | 1827 | 1829 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 83.9 | 81.8 | 55.2 | 65.7 | 88.0 | 50.3 | 53.5 | 80.4 | 87.4 |
| 01 | 57.2 | 58.0 | 57.2 | 73.2 | 56.2 | 66.7 | 53.3 | 58.0 | 59.4 |
| 02 | 60.1 | 58.0 | 55.9 | 83.2 | 56.3 | 65.7 | 50.4 | 62.9 | 60.1 |
| 03 | 52.8 | 53.5 | 58.5 | 65.5 | 49.6 | 69.7 | 52.9 | 54.2 | 52.8 |
| 020 | 87.4 | 87.4 | 52.4 | 67.1 | 90.9 | 51.7 | 53.2 | 86.7 | 90.2 |
| 044 | 58.5 | 58.5 | 60.0 | 75.6 | 56.7 | 63.7 | 54.9 | 60.0 | 59.3 |
| 049 | 89.6 | 87.5 | 54.9 | 68.1 | 92.3 | 50.7 | 53.5 | 86.1 | 92.4 |
| 5 | 72.2 | 72.9 | 56.3 | 69.4 | 70.6 | 58.3 | 52.1 | 69.4 | 72.2 |
| 6 | 91.5 | 86.6 | 51.4 | 64.8 | 90.8 | 48.6 | 51.4 | 82.4 | 90.1 |
| 38 | ? 9.1 | 87.4 | 51.9 | 63.7 | 91.0 | 46.7 | 56.4 | 83.0 | 91.1 |
| 51 | 87.5 | 87.5 | 52.1 | 61.8 | 90.2 | 48.6 | 52.8 | 84.0 | 88.9 |
| 69 | 79.0 | 76.9 | 55.9 | 64.3 | 77.5 | 55.2 | 58.2 | 72.0 | 79.0 |
| 104 | 84.0 | 81.3 | 51.4 | 63.2 | 86.0 | 49.3 | 52.8 | 84.0 | 85.4 |
| 177 | 86.7 | 86.0 | 49.7 | 60.8 | 96.5 | 48.3 | 51.1 | 84.6 | 86.7 |
| 201 | 83.3 | 84.0 | 57.6 | 62.5 | 87.4 | 48.6 | 57.7 | 79.2 | 86.8 |
| 203 | 85.1 | 85.8 | 51.8 | 66.7 | 92.1 | 51.1 | 53.6 | 81.6 | 88.7 |
| 206 | 48.9 | 55.3 | 78.0 | 53.2 | 53.6 | 46.8 | 92.1 | 49.6 | 56.7 |
| 209 | 88.0 | 84.5 | 50.7 | 64.8 | 92.2 | 51.4 | 51.4 | 84.5 | 90.1 |
| 216 | 81.9 | 78.5 | 55.6 | 67.4 | 84.6 | 51.4 | 57.7 | 78.5 | 86.9 |
| 223 | 87.5 | 87.5 | 52.1 | 61.8 | 90.2 | 48.6 | 52.8 | 84.0 | 88.7 |
| 226 | 88.1 | 86.0 | 53.5 | 67.8 | 89.4 | 53.8 | 53.2 | 83.9 | 89.5 |
| 263 | 88.2 | 85.4 | 52.1 | 65.3 | 92.3 | 47.9 | 52.8 | 86.1 | 89.6 |
| 307 | 79.7 | 80.4 | 58.7 | 69.9 | 81.7 | 54.5 | 58.2 | 76.2 | 81.1 |
| 319 | 88.8 | 88.8 | 53.8 | 64.3 | 90.8 | 52.4 | 54.9 | 82.5 | 90.2 |
| 323 | 76.2 | 76.9 | 54.5 | 67.1 | 77.5 | 65.7 | 50.4 | 72.7 | 81.1 |
| 337 | 86.7 | 86.0 | 49.7 | 60.8 | 96.5 | 48.3 | 51.1 | 84.6 | 86.7 |
| 378 | 73.9 | 75.4 | 57.7 | 57.7 | 76.6 | 41.5 | 60.0 | 72.5 | 74.6 |
| 383 | 90.3 | 88.2 | 52.1 | 63.2 | 91.6 | 47.2 | 51.4 | 84.7 | 88.9 |
| 385 | 89.8 | 87.6 | 53.3 | 66.4 | 91.2 | 49.6 | 54.8 | 85.4 | 94.2 |
| 424 | 88.2 | 87.5 | 55.6 | 66.7 | 89.5 | 50.7 | 54.2 | 83.3 | 89.6 |
| 440 | 82.6 | 79.2 | 56.3 | 69.4 | 85.3 | 53.5 | 57.0 | 80.6 | 85.4 |
| 467 | 83.9 | 83.9 | 50.3 | 60.8 | 83.8 | 48.3 | 50.7 | 79.0 | 86.7 |
| 479 | 84.0 | 84.7 | 56.9 | 03.2 | 56.7 | 49.3 | 58.5 | 79.9 | 87.5 |
| 483 | 85.4 | 86.1 | 56.9 | 67.4 | 88.1 | 52.1 | 54.9 | 84.0 | 90.3 |
| 489 | 89.5 | 85.3 | 51.7 | 64.3 | 88.7 | 48.3 | 53.5 | 84.6 | 90.2 |
| 491 | 86.7 | 85.3 | 51.0 | 63.6 | 88.7 | 48.3 | 51.8 | 84.6 | 86.0 |
| 522 | 48.5 | 51.4 | 78.2 | 52.8 | 50.7 | 44.4 | 93.6 | 50.7 | 53.5 |
| 547 | 86.1 | 85.4 | 52.1 | 66.0 | 86.7 | 48.6 | 54.9 | 81.3 | 93.1 |
| 614 | 44.1 | 46.2 | 86.7 | 49.7 | 45.8 | 46.2 | 80.1 | 51.0 | 48.3 |
| 623 | 66.2 | 67.6 | 55.6 | 71.8 | 66.7 | 60.6 | 50.7 | 64.8 | 69.0 |
| 642 | 84.5 | 84.5 | 54.2 | 69.0 | 85.8 | 53.5 | 57.9 | 83.1 | 83.1 |
| 643 | 83.1 | 85.3 | 54.5 | 67.1 | 90.1 | 50.3 | 54.2 | 83.9 | 86.0 |
| 876 | 75.7 | 76.4 | 60.4 | 64.6 | 78.3 | 48.6 | 59.9 | 76.4 | 77.8 |
| 917 | 89.6 | 84.7 | 50.7 | 64.6 | 88.1 | 49.3 | 50.7 | 83.3 | 89.6 |

Unweighted (Cont.)

|  | 1597 | 1610 | 1611 | 1735 | 1738 | 1739 | 1799 | 1827 | 1829 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 91.0 | 88.2 | 54.2 | 66.9 | 93.0 | 49.3 | 52.8 | 85.4 | 93.1 |
| 927 | 88.9 | 84.6 | 51.0 | 63.6 | 88.0 | 47.6 | 53.2 | 84.6 | 89.5 |
| 959 | 85.9 | 83.8 | 53.5 | 65.5 | 88.7 | 50.0 | 56.4 | 81.7 | 88.0 |
| 999 | 86.6 | 88.0 | 51.4 | 59.9 | 88.7 | 49.3 | 53.9 | 81.7 | 85.9 |
| 1022 | 86.8 | 84.7 | 54.9 | 66.0 | 89.5 | 50.7 | 52.8 | 85.4 | 90.3 |
| 1175 | 53.5 | 57.0 | 62.0 | 68.3 | 54.6 | 79.4 | 57.9 | 60.6 | 57.0 |
| 1240 | 90.9 | 88.1 | 54.9 | 64.3 | 91.5 | 49.7 | 54.6 | 84.6 | 91.6 |
| 1241 | 54.5 | 53.2 | 50.4 | 67.4 | 54.3 | 88.7 | 53.2 | 52.5 | 51.1 |
| 1243 | 62.7 | 62.7 | 59.2 | 71.1 | 61.7 | 67.6 | 60.0 | 62.0 | 63.4 |
| 1245 | 87.5 | 84.0 | 53.5 | 64.6 | 87.4 | 50.7 | 52.8 | 83.3 | 91.0 |
| 1247 | 83.0 | 83.0 | 53.9 | 60.3 | 87.9 | 46.1 | 54.7 | 81.6 | 84.4 |
| 1248 | 84.7 | 85.4 | 56.3 | 63.9 | 87.4 | 50.9 | 57.7 | 80.6 | 88.2 |
| 1249 | 83.3 | 84.1 | 55.8 | 62.3 | 86.1 | 47.8 | 58.8 | 79.7 | 87.7 |
| 1315 | 79.7 | 77.6 | 53.1 | 61.5 | 81.0 | 45.1 | 55.3 | 74.8 | 80.4 |
| 1319 | 88.6 | 87.1 | 54.3 | 65.0 | 97.6 | 48.6 | 56.1 | 83.6 | 92.1 |
| 1424 | 89.6 | 86.1 | 53.5 | 64.6 | 93.0 | 48.6 | 53.5 | 84.0 | 90.3 |
| 1503 | 85.4 | 84.7 | 55.6 | 64.6 | 88.1 | 49.3 | 57.0 | 81.3 | 88.9 |
| 1505 | 39.6 | 45.1 | 86.1 | 48.6 | 43.4 | 41.0 | 81.0 | 48.6 | 44.4 |
| 1522 | 50.4 | 55.3 | 75.9 | 51.1 | 55.0 | 41.1 | 79.1 | 56.7 | 56.0 |
| 1597 | 100.0 | 83.9 | 47.6 | 64.3 | 87.3 | 50.3 | 50.4 | 81.1 | 87.4 |
| 1610 | 83.9 | 100.0 | 51.7 | 60.8 | 87.3 | 52.4 | 53.2 | 80.4 | 86.0 |
| 1611 | 47.6 | 51.7 | 100.0 | 53.8 | 50.0 | 47.6 | 81.6 | 53.8 | 52.4 |
| 1735 | 64.3 | 60.8 | 53.8 | 100.0 | 62.7 | 68.5 | 51.1 | 66.4 | 67.8 |
| 1738 | 87.3 | 87.3 | 50.0 | 62.7 | 100.0 | 50.7 | 51.4 | 85.2 | 86.6 |
| 1739 | 50.3 | 52.4 | 47.6 | 68.5 | 50.7 | 100.0 | 44.0 | 49.7 | 50.3 |
| 1799 | 50.4 | 53.2 | 81.6 | 51.1 | 51.4 | 44.0 | 100.7 | 49.6 | 55.3 |
| 1827 | 81.1 | 80.4 | 53.8 | 66.4 | 35.2 | 49.7 | 49.6 | 100.7 | 82.5 |
| 1829 | 87.4 | 86.0 | 52.4 | 67.8 | 86.6 | 50.3 | 55.3 | 82.5 | 100.0 |
| 1845 | 67.9 | 68.6 | 55.0 | 72.9 | 66.4 | 60.7 | 51.8 | 66.4 | 70.7 |
| 1854 | 90.3 | 86.8 | 54.2 | 67.4 | 91.6 | 51.4 | 52.8 | 85.4 | 91.7 |
| 1874 | 88.1 | 84.6 | 53.8 | 64.3 | 88.0 | 50.3 | 52.5 | 83.9 | 90.2 |
| 1876 | 84.7 | 86.8 | 54.9 | 61.1 | 86.7 | 47.9 | 54.9 | 79.2 | 88.2 |
| 1888 | 88.0 | 88.0 | 55.6 | 66.9 | 89.4 | 51.4 | 55.0 | 83.8 | 89.4 |
| 1889 | 87.5 | 86.8 | 52.1 | 66.0 | 88.1 | 48.6 | 53.5 | 84.0 | 93.8 |
| 1890 | 46.5 | 51.4 | 76.8 | 51.4 | 51.1 | 43.0 | 78.7 | 54.2 | 53.5 |
| 1891 | 87.5 | 84.7 | 51.4 | 63.2 | 90.2 | 49.3 | 53.5 | 82.6 | 89.6 |
| 1892 | 85.4 | 86.1 | 56.3 | 63.2 | 86.7 | 50.0 | 57.7 | 79.9 | 88.9 |
| 1898 | 87.8 | 85.6 | 55.4 | 67.6 | 86.2 | 55.0 | 54.3 | 81.3 | 87.1 |
| 2143 | 89.6 | 87.5 | 52.8 | 61.8 | 90.9 | 49.3 | 52.8 | 84.0 | 89.6 |
| 2298 | 61.1 | 60.4 | 50.7 | 68.8 | 59.4 | 81.9 | 49.3 | 59.0 | 63.9 |
| 2401 | 87.3 | 87.3 | 53.5 | 63.4 | 37.2 | 50.0 | 57.9 | 81.7 | 90.8 |
| 2412 | 42.7 | 45.5 | 88.8 | 50.3 | 45.1 | 45.5 | 85.1 | 49.7 | 46.9 |
| 2423 | 86.8 | 88.9 | 53.5 | 64.6 | 86.7 | 48.6 | 54.9 | 81.3 | 93.1 |

Unweighted (Cont.)

|  | 1845 | 1854 | 1874 | 1876 | 1888 | 1889 | 90 | 1891 | 92 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 70.0 | 88.2 | 87.4 | 85.4 | 85.9 | 87.5 | 48.6 | 87.5 | 85.4 |
| 01 | 69.6 | 60.4 | 59.4 | 59.0 | 60.1 | 58.3 | 54.0 | 55.4 | 61.2 |
| 02 | 68.6 | 62.5 | 58.7 | 56.9 | 61.3 | 58.3 | 54.2 | 58.3 | 57.6 |
| 03 | 61.2 | 55.2 | 53.5 | 54.5 | 56.7 | 53.1 | 54.6 | 51.7 | 55.2 |
| 020 | 70.9 | 91.7 | 90.2 | 86.8 | 89.4 | 90.3 | 52.1 | 88.2 | 87.5 |
| 044 | 71.2 | 59.6 | 00.7 | 58.8 | 60.0 | 58.8 | 58.2 | 56.6 | 58.1 |
| 049 | 70.9 | 99.3 | 93.8 | 87.6 | 93.7 | 92.4 | 51.7 | 92.4 | 88.3 |
| 5 | 95.0 | 73.1 | 73.6 | 73.8 | 74.1 | 72.4 | 47.6 | 70.3 | 74.5 |
| 6 | 69.8 | 94.4 | 93.0 | 86.7 | 91.5 | 89.5 | 50.4 | 88.8 | 87.4 |
| 38 | 68.9 | 91.2 | 89.0 | 83.0 | 89.6 | 69.0 | 53.0 | 93.4 | 84.6 |
| 51 | 68.1 | 91.7 | 88.9 | 86.2 | 89.5 | 90.3 | 50.3 | 88.3 | 86.9 |
| 69 | 73.6 | 81.9 | 81.1 | 77.1 | 83.8 | 77.8 | 51.4 | 81.9 | 77.8 |
| 104 | 68.8 | 87.6 | 84.7 | 83.4 | 84.6 | 86.9 | 54.5 | 84.8 | 82.8 |
| 177 | 66.0 | 92.4 | 88.8 | 86.1 | 88.7 | 86.8 | 49.3 | 91.0 | 86.1 |
| 201 | 68.1 | 88.3 | 86.8 | 95.2 | 87.4 | 88.3 | 56.6 | 85.5 | 97.9 |
| 203 | 68.1 | 91.5 | 87.9 | 86.6 | 88.6 | 89.4 | 52.9 | 88.7 | 88.7 |
| 206 | 54.3 | 53.5 | 53.2 | 58.5 | 55.7 | 54.2 | 78.6 | 53.5 | 61.3 |
| 209 | 68.3 | 92.3 | 89.4 | 86.7 | 89.4 | 90.2 | 51.8 | 90.9 | 86.7 |
| 216 | 69.5 | 86.2 | 84.7 | 84.1 | 88.8 | 86.2 | 53.8 | 84.1 | 86.2 |
| 223 | 68.1 | 91.7 | 88.9 | 86.2 | 39.5 | 90.3 | 50.3 | 88.3 | 86.9 |
| 226 | 70.0 | 95.1 | 89.5 | 88.9 | 90.8 | 91.0 | 52.1 | 90.3 | 91.0 |
| 263 | 66.0 | 93.8 | 90.3 | 84.8 | 90.2 | 88.3 | 51.7 | 92.4 | 84.8 |
| 307 | 74.3 | 86.1 | 83.9 | 81.3 | 86.6 | 31.3 | 52.8 | 83.3 | 80.6 |
| 319 | 72.3 | 91.7 | 89.5 | 88.9 | 90.8 | 89.6 | 50.3 | 93.8 | 83.9 |
| 323 | 70.7 | 79.9 | 79.7 | 77.1 | 78.2 | 79.9 | 48.6 | 78.5 | 77.8 |
| 337 | 65.0 | 92.4 | 88.8 | 86.1 | 88.7 | 86.8 | 49.3 | 91.0 | 86.1 |
| 378 |  | 76.2 | 72.5 | 76.2 | 78.0 | 74.8 | 58.9 | 76.2 | 76.2 |
| 383 | 68.1 | 93.1 | 88.9 | 86.9 | 93.0 | 90.3 | 52.4 | 00.3 | 87.6 |
| 385 | 69.4 | 95.7 | 94.2 | 87.7 | 92.6 | 92.0 | 49.3 | 94.9 | 87.7 |
| 424 | 71.6 |  | 89.6 | 87.6 | 97.9 | 90.3 | 51.7 | 89.7 | 88.3 |
| 440 | 70.2 | 86.9 | 85.4 | 83.4 | 89.5 | 85.5 | 53.1 | 84.8 | 84.1 |
| 467 | 67.9 | 86.8 | 83.2 | 86.8 | 89.4 | 90.3 | 49.3 | 86.8 | 85.4 |
| 79 | 68.8 | 87.6 | 80.1 | 95.9 | 87.4 | 89.7 | 57.3 | 84.8 | 98.6 |
| 483 | 70.9 | 91.7 | 91.7 | 85.5 | 88.8 | 91.7 | 51.7 | 87.6 | 86.2 |
| 489 | 68.8 | 90.3 | 87.4 | 85.4 | 90.1 | 88.9 | 50.3 | 86.8 | 86.1 |
| 491 | 67.9 | 87.5 | 88.8 | 84.0 | 85.3 | 86.1 | 52.1 | 88.2 | 84.0 |
| 522 | 54.0 | 51.0 | 52.1 | 54.5 | 53.2 | 51.7 | 80.1 | 52.4 | 57.3 |
| 547 | 70.9 | 90.3 | 87.5 | 87.6 | 88.8 | 94.5 | 51.7 | 89.7 | 86.9 |
| 614 | 47.9 | 47.9 | 49.0 | 52.1 | 51.4 | 47.9 | 76.8 | 47.9 | 54.9 |
| 623 | 99.3 | 69.9 | 71.1 | 67.8 | 71.6 | 69.2 | 48.9 | 67.1 | 08.5 |
| 642 | 71.2 | 86.7 | 85.9 | 79.7 | 87.9 | 84.6 | 53.9 | 85.3 | 80.4 |
| 643 | 67.4 | 91.7 | 87.4 | 84.7 | 88.7 | 87.5 | 51.0 | 88.9 | 85.4 |
| 876 | 64.5 | 79.3 | 76.4 | 78.6 | 82.5 | 79.3 | 58.0 | 76.6 | 79.3 |
| 917 | 69.5 | 92.4 | 96.5 | 86.2 | 88.1 | 88.3 | 49.0 | 89.0 | 85.5 |

Unweighted (Cont.)

|  |  |  |  | 1876 | 1888 | 1889 | 1890 | 1891 | 1892 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 70.2 | 97.2 |  | 8 |  |  |  |  |  |
| 7 | 68.6 | 89.6 | 86.7 | 84.0 | 89. | 88.9 | 50.0 | 86. | 84. |
|  | 69. | 88. | 85.2 | 84.6 | 86.5 | 90.9 | 53. | 86. | 85. |
| 9 | 66.2 | 87. | 85.9 | 85.3 | 85.8 | 87. | 51. | 85. | 86 |
| 1022 | 70.2 | 93.1 | 90.3 | 85.5 | 90. | 93. | 51. | 89. | 86.2 |
| 175 | 65.5 | 55.9 | 54.2 | 57.3 | 59.6 | 55.9 | 58.9 | 55.9 |  |
| 1240 | 67.9 | 94.4 | 91.6 | 88.2 | 91. | 91. | 52. | 90.3 | 9 |
|  | 60.9 | 53.5 | 1.8 | 50.0 | 54.3 | 49. | 50. | 50.7 | 52.1 |
|  | 64.0 | 60.8 | 61.3 | 63.6 | 65. | 62. | 58. | 60. |  |
| 45 | 70.2 | 91.0 | 89.6 | 84.8 | 90.2 | 91. | 50.3 | 88.3 | 85 |
| 47 | 65.9 | 87.3 | 84.4 | 93.0 | 86. | 88. | 56.4 | 85.9 | 94.4 |
| 1248 | 69. | 88.3 | 86.8 | 96.6 | 88. | 89. | 58. | 85.5 |  |
| 1249 | 68 | 8 ? | 87 | 96. | 86. | 88. | 56.2 | 86.3 | 98.6 |
| 1315 | 63.6 | 80.6 | 81.1 | 79.2 | 83.1 | 78. | 50.0 | 81.9 | 79.2 |
| 19 | 71.5 | 90.8 | 90.0 | 86.5 | 90.6 | 90.1 | 53.2 | 92.2 | 86.5 |
| 1424 | 70 | 94 | 92.4 | 88. | 90 | 90. | 50. | 91.7 | 88 |
| 1503 | 68 | 89 | 87.5 | 5. | 88 | 9 | 58 | 86. |  |
| 1505 | 49.6 | 44.8 | 44.4 | 48.3 | 46. | 44 | 83.9 | 42 | 51.0 |
| 22 | 50.7 | 54.9 | 54.6 | 57.0 | 56.4 | 57.0 | 94. | 52.8 | 59.9 |
|  | 67. | 90. | 88. | 84.7 | 88.0 | 87.5 | 46. | 87.5 | 5 |
| 1610 | 68. | 86. | 84. | 86. | 88 | 86.8 | 51. | 84. |  |
| 11 | 55.0 | 54.2 | 53.8 | 54.9 | 55.6 | 52.1 | 76.8 | 51. | 56.3 |
| 1735 | 72.9 | 67.4 | 64.3 | 61. | 60.9 | 66. | 51. | 63.2 | 63.2 |
| 1738 | 66.4 | 91.6 | 88.9 | 86. | 80.4 | 88. | 51 | 0. | 86.7 |
| 1739 | 60. | 51 | 50. | 47. | 51.4 | 48 | 43 | 49.3 | 50 |
|  | 51.8 | 52.8 | 52.5 | 54.9 | \%. | 53.5 | 78.7 |  | 57 |
| 1827 | 66.4 | 85.4 | 83.9 | 79.2 | 83. | 84.0 | 54.2 | 82.6 |  |
| 1829 | 70.7 | 91.7 | 90.2 | 88.2 | 89.4 | 93.8 | 53. | 30.6 | 88.9 |
|  | 100. | 70. | 71 | 68.8 | 72 | 7 | 50.0 | 67.4 | 69.5 |
| 185 | 70.2 | 190.0 | 93.1 | 86. |  |  |  |  |  |
| 1874 | 71.4 | 93.1 | 100.0 | 86.1 | 89 | 88. | 50.7 | 89.6 | 86.1 |
| 1876 | 68.8 | 86.9 | 86.1 | 100.0 | 88. | 90.3 | 55 | 86.2 | 7.2 |
|  | 72. | 93.0 |  | 88.1 | 100. | 90.2 |  | 89.5 | 88.8 |
| 1889 | 70.9 | 91. | 88.9 | 90.3 | 90. | 100.0 | 54.5 | 88.3 | 89 |
| 1890 | 50.0 | 51.0 | 50.7 | 55.2 | 52. | 54.5 | 100.0 | 49.0 | 58.0 |
| 1891 | 67.4 | 91.7 | 89.6 | 86.2 | 89.5 | 88.3 | 49.0 | 100.0 | 84.8 |
|  | 69. | 87.6 | 86. | 97. | 88. | 89.7 | 58.0 | 84.8 | 100.0 |
| 1898 | 71.3 | 91.4 | 89.2 | 86. | 9. | 86. | , | 87. | 8.7 |
| 2143 | 69.5 | 91.0 | 93.1 | 86.9 | 89.5 | 88.3 | 49.7 | 89.0 | 86.9 |
| 2298 | 62.4 | 62.1 | 61.1 | 58.6 | 63.6 | 61.4 | 43.4 | 58.6 | 60.7 |
| 2401 | 69.8 | 88.1 | 85.2 | 87.4 | 87.2 | 93.7 | 56.0 | 87.4 | 88.1 |
|  | 47 |  | 46 | 0.7 | 48 | 46. | 78 | 46.5 | 53.5 |
| 2423 | 70.9 | 90.3 | 87.5 | G1.0 | 90.9 | 95.2 | 54.5 | 86.9 |  |

Unweighted (Cont.)

|  | 1898 | 2143 | 2298 | 2401 | 2412 | 2423 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 83.6 | 88.2 | 61.8 | 83.8 | 48.3 | 86.1 |
| 01 | 61.5 | 59.0 | 61.9 | 58.4 | 55.1 | 59.7 |
| 02 | 61.9 | 57.6 | 61.1 | 54.9 | 51.7 | 56.9 |
| 03 | 58.0 | 53.1 | 62.2 | 52.1 | 55.6 | 53.1 |
| 020 | 87.1 | 91.0 | 62.5 | 86.6 | 46.9 | 88.9 |
| 044 | 59.5 | 50.3 | 59.6 | 56.7 | 55.6 | 55.9 |
| 049 | 90.7 | 91.7 | 62.8 | 88.8 | 45.8 | 91.0 |
| 5 | 75.0 | 74.5 | 64.1 | 71.3 | 47.9 | 72.4 |
| 6 | 89.1 | 92.3 | 59.4 | 86.5 | 45.1 | 88.8 |
| 38 | 87.0 | 90.4 | 56.6 | 88.8 | 45.9 | 88.2 |
| 51 | 87.9 | 92.4 | 60.7 | 91.6 | 45.8 | 91.0 |
| 69 | 80.6 | 79.2 | 62.5 | 78.2 | 51.7 | 79.2 |
| 104 | 85.7 | 86.2 | 58.6 | 84.6 | 47.9 | 84.1 |
| 177 | 85.6 | 91.0 | 57.6 | 85.9 | 44.8 | 85.4 |
| 201 | 85.0 | 86.2 | 59.3 | 86.0 | 53.5 | 89.7 |
| 203 | 86.2 | 89.4 | 63.4 | 87.1 | 46.1 | 88.0 |
| 206 | 55.5 | 52.8 | 50.0 | 57.9 | 83.7 | 57.0 |
| 209 | 87.7 | 91.6 | 60.8 | 87.9 | 45.1 | 88.8 |
| 216 | 84.3 | 84.8 | 64.1 | 83.9 | 51.4 | 86.2 |
| 223 | 87.9 | 92.4 | 60.7 | 91.6 | 45.8 | 91.0 |
| 226 | 92.1 | 88.2 | 63.2 | 87.3 | 47.6 | 89.6 |
| 263 | 87.1 | 90.3 | 58.6 | 88.8 | 45.8 | 86.9 |
| 307 | 84.2 | 80.6 | 63.9 | 80.3 | 51.0 | 82.6 |
| 319 | 88.5 | 93.1 | 60.4 | 89.4 | 48.3 | 90.3 |
| 323 | 82.0 | 78.5 | 65.3 | 81.0 | 48.3 | 80.6 |
| 337 | 85.6 | 91.0 | 57.6 | 85.9 | 44.8 | 85.4 |
| 378 | 76.8 | 79.0 | 53.1 | 78.0 | 54.2 | 75.5 |
| 383 | 89.3 | 91.7 | 58.6 | 88.1 | 45.8 | 90.3 |
| 385 | 91.7 | 90.6 | 60.1 | 88.2 | 46.7 | 90.6 |
| 424 | 90.0 | 89.7 | 63.4 | 87.4 | 47.9 | 91.0 |
| 440 | 85.0 | 85.5 | 66.2 | 83.2 | 50.7 | 85.5 |
| 467 | 83.6 | 84.0 | 58.3 | 85.9 | 44.8 | 86.8 |
| 479 | 84.3 | 85.5 | 60.0 | 86.7 | 54.2 | 90.3 |
| 483 | 88.6 | 90.3 | 65.5 | 88.1 | 49.3 | 90.3 |
| 489 | 87.1 | 91.0 | 61.1 | 87.3 | 46.2 | 88.2 |
| 491 | 84.2 | 91.0 | 59.7 | 85.2 | 46.2 | 86.1 |
| 522 | 51.4 | 51.0 | 48.3 | 56.0 | 84.5 | 53.1 |
| 547 | 85.0 | 86.9 | 61.4 | 88.8 | 46.5 | 91.0 |
| 614 | 50.4 | 47.9 | 46.5 | 47.9 | 93.8 | 47.9 |
| 623 | 71.7 | 09.9 | 61.5 | 68.: | 47.2 | 69.2 |
| 642 | 85.5 | 83.9 | 60.8 | 84.4 | 50.7 | 83.2 |
| 643 | 85.6 | 88.9 | 61.8 | 85.2 | 48.3 | 86.1 |
| 876 | 77.1 | 79.3 | 57.2 | 79.7 | 59.7 | 82.1 |
| 917 | 89.3 | 91.7 | 61.4 | 84.6 | 43.8 | 86.9 |


|  | 1898 | 2143 | 2298 | 2401 | 2412 | 2423 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 920 | 89.3 | 93.8 | 62.8 | 89.5 | 46.5 | 91.7 |
| 9227 | 85.6 | 90.3 | 60.4 | 86.6 | 45.5 | 87.5 |
| 959 | 87.0 | 86.7 | 62.9 | 90.1 | 47.9 | 89.5 |
| 999 | 87.0 | 88.8 | 62.2 | 91.5 | 45.8 | 88.8 |
| 1022 | 86.4 | 89.0 | 62.8 | 89.5 | 47.2 | 91.7 |
| 1175 | 56.5 | 55.9 | 64.3 | 58.9 | 59.9 | 57.3 |
| 1240 | 87.8 | 93.8 | 61.8 | 90.1 | 48.3 | 90.3 |
| 1241 | 57.7 | 52.1 | 77.5 | 52.9 | 49.6 | 49.3 |
| 1243 | 66.7 | 62.2 | 65.7 | 66.7 | 59.2 | 64.3 |
| 1245 | 87.1 | 88.3 | 61.4 | 88.8 | 45.8 | 91.7 |
| 1247 | 83.9 | 85.2 | 54.9 | 86.4 | 50.4 | 88.7 |
| 1248 | 85.0 | 86.2 | 60.7 | 87.4 | 53.5 | 91.0 |
| 1249 | 85.1 | 85.6 | 59.0 | 86.1 | 54.3 | 89.9 |
| 1315 | 79.3 | 82.6 | 61.8 | 78.9 | 47.6 | 78.5 |
| 1319 | 85.4 | 93.6 | 58.9 | 88.5 | 47.9 | 89.4 |
| 1424 | 86.4 | 93.8 | 61.4 | 88.1 | 47.2 | 89.0 |
| 1503 | 85.0 | 86.9 | 60.0 | 86.7 | 52.8 | 90.3 |
| 1505 | 47.1 | 43.4 | 40.7 | 46.9 | 88.2 | 45.5 |
| 1522 | 55.5 | 53.5 | 44.4 | 58.6 | 77.3 | 57.0 |
| 1597 | 87.8 | 89.6 | 61.1 | 87.3 | 42.7 | 86.8 |
| 1610 | 85.6 | 87.5 | 00.4 | 87.3 | 45.5 | 88.9 |
| 1611 | 55.4 | 52.8 | 50.7 | 53.5 | 88.8 | 53.5 |
| 1735 | 67.5 | 61.8 | 68.8 | 63.4 | 50.3 | 64.6 |
| 1738 | 86.2 | 90.9 | 59.4 | 87.2 | 45.1 | 86.7 |
| 1739 | 55.0 | 49.3 | 81.9 | 50.0 | 45.5 | 48.6 |
| 1799 | 54.3 | 52.8 | 49.3 | 57.9 | 85.1 | 54.9 |
| 1827 | 81.3 | 84.0 | 59.0 | 81.7 | 49.7 | 81.3 |
| 1829 | 87.1 | 89.6 | 63.9 | 90.8 | 46.9 | 93.1 |
| 1845 | 71.3 | 69.5 | 62.4 | 69.8 | 47.9 | 79.9 |
| 1854 | 91.4 | 91.0 | 02.1 | 88.1 | 45.1 | 90.3 |
| 1874 | 89.2 | 93.1 | 61.1 | 85.2 | 46.2 | 87.5 |
| 1876 | 86.4 | 86.9 | 58.6 | 87.4 | 50.7 | 91.0 |
| 1888 | 89.1 | 89.5 | 63.6 | 87.2 | 48.5 | 90.9 |
| 1889 | 86.4 | 88.3 | 61.4 | 93.0 | 46.5 | 95.2 |
| 1890 | 52.2 | 49.7 | 43.4 | 56.0 | 78.9 | 54.5 |
| 1891 | 87.9 | 89.0 | 58.6 | 87.4 | 46.5 | 86.9 |
| 1892 | 85.7 | 86.9 | 60.7 | 88.1 | 53.5 | 91.7 |
| 1898 | 100.0 | 86.4 | 65.9 | 87.3 | 48.2 | 86.4 |
| 2143 | 86.4 | 100.0 | 61.4 | 86.7 | 46.5 | 87.6 |
| 2298 | 65.0 | 61.4 | 100.0 | 60.8 | 45.8 | 61.4 |
| 2401 | 87.0 | 86.7 | 60.8 | 100.0 | 49.3 | 95.1 |
| 2412 | 43.2 | 46.5 | 45.8 | 49.3 | 100.0 | 47.9 |
| 2423 | 85.4 | 87.6 | 61.4 | 95.1 | 47.9 | 100.0 |
|  |  |  |  |  |  |  |

UNWEIGHTED COEFFICIENTS

|  |  | 049 |  | 1240 | 385 | 1424 | 42 | 226 | 1888 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 100.0 | 97 | 97.2 | 97 | 9 | 97 | 93.8 | . 8 |  |
| 049 | 97.9 | 100.0 | 99.3 | 95.1 | 96.4 | 95.2 | 94.5 | 94.4 | 93.7 |
| 1854 | 97. | 99.3 | 100.0 | 94. | 95.7 | 94. | 93.8 | 95. | 93.0 |
| 1240 | 97 | 95. | 94.4 | 100.0 | 92.7 | 95.8 | 92. | 91. | 91.5 |
| 385 | 95.7 | 96.4 | 95.7 | 92.7 | 100.0 | 92.6 | 93.5 | 93.4 | 92.6 |
| 1424 | 97.2 | 95.2 | 94.5 | 95.8 | 92.8 | 100.0 | 91.0 | 91.0 | 90.9 |
| 424 | 93.8 | 94.5 | 93.8 | 92.4 | 93.5 | 01.0 | 100.0 | 91.7 | 97.9 |
| 225 | 93.8 | 94.4 | 95. | 91. | 93 | 91.0 | 91.7 | 100.0 | 90.8 |
| 1888 | 93.0 | 93.7 | 93.0 | 91.5 | 92.6 | 90.9 | 97.9 | 90.8 | 100.0 |
| 319 | 91.7 | 92.4 | 91.7 | 91.6 | 92.7 | 91.7 | 91.0 | 91.6 | 90.8 |
| 3 | 94.5 | 03.8 | 93.1 | 94.4 | 92.8 | 93. | 93.8 | 91.0 | 93.0 |
| 19 | 92.2 | 91.5 | 90.8 | 92. | 93. | 92. | 90. | 89.3 | 90.6 |
| 1889 | 93. | 92. | 91. | 91.0 | 92. | 90. | 90 | 91.0 | 90.2 |
| 1022 | 94.5 | 93.8 | 93.1 | 91.7 | 92.8 | 91.7 | 91.0 | 91.0 | 90.9 |
| 483 | 93.1 | 92.4 | 91.7 | 90.3 | 92.0 | 90.3 | 89.7 | 92.4 | 88.8 |
| 6 | 95.8 | 95 | 94. | 94. | 94 | 93.0 | 92 | 90.8 | 91.5 |
| 03 | 91 | 89 | 89 | 88 |  | 89.7 | 88.3 | 92 | 8 |
| 1829 | 93.1 | 92.4 | 91.7 | 91.6 | 94.2 | 90.3 | 89.6 | 89.5 | 89.4 |
| 2423 | 91.7 | 91.0 | 90.3 | 90.3 | 90.6 | 89.0 | 91.0 | 89.6 | 90.9 |
| 21 | 93.8 | 91. | 91.0 | 93.8 | 90.6 | 93.8 | 89.7 | 88.2 | 89.5 |
| 1248 | 91. | 89 | 88. | 88.2 | 88. | 89 | 87.6 | 91.7 | 88.1 |
| 020 | 93.1 | 92.4 | 91.7 | 90.2 | 92.0 | 90.3 | 89.6 | 9.9 | 89.4 |
| 1892 | 90.3 | 88.3 | 87.6 | 88.9 | 87.7 | 88.3 | 88.3 | 91.0 | 88.8 |
| 1874 | 94 | 93.8 | 93.1 | 91.6 | 94 | 92.4 | 89.6 | 89.5 | 89.4 |
| 209 | 91. | 92.3 | 92.3 | 90. | 92 | 1 | 89. | 91.5 | 89.4 |
| 223 | 93.1 | 92.4 | 91.7 | 93. | 90.6 | 91.7 | 90.3 | 88.9 | 89.5 |
| 51 | 93.1 | 92.4 | 91.7 | 93.1 | -n. 6 | 91.7 | 90.3 | 88.9 | 89.5 |
| 263 | 93.8 | 94.5 | 93.8 | 92.4 | 92 | 93.8 | 90.3 | 90. | 90.2 |
| 203 | 93.0 | 92.3 | 91.5 | 90. |  | 91. | 88 | 92 | 88.6 |
| 1738 | 93.0 | 92.3 | 91.6 | 91.5 | 91. | 93.0 | 89 | 89.4 | 89.4 |
| 201 | 91.0 | 89.0 | 88.3 | 88.2 | 88.4 | 89. | 87.6 | 91.7 | 87.4 |
| 643 | 93. | 92.4 | 91.7 | 91.6 | 91.2 | 91. | 89.6 | 90.2 | 88.7 |
| 479 | 90. | 88.3 | 87.6 | 87 |  | 88. | 86. |  | 87.4 |
| 38 | 9 | 91 | 91.2 | 91.1 | 93.8 | 91. | 90 | 88.9 | 89.6 |
| 2401 | 89.5 | 88.8 | 88.1 | 90.1 | 88.2 | 88.1 | 87. | 87.3 | 87.2 |
| 1891 | 91.7 | 92.4 | 91.7 | 90.3 | 94.9 | 91.7 | 89.7 | 90.3 | 89.5 |
| 1245 | 92.4 | 91.7 | 91.0 | 91.0 | 93.5 | 89.7 | 90.3 | 88.9 | 90.2 |
| 1898 | 89. | 90.7 | 91.4 | 87.8 | 1.7 | 86.4 | O.0 | 92.1 | 8.1 |
| 917 | 93.8 | 93.1 | 92.4 | 91.0 | 93.5 | 91.0 | 89.0 | 90.3 | 88.1 |
| 1249 | 89.9 | 87.8 | 87.1 | 87.0 | 87.7 | 87.8 | 86.3 | 90.6 | 86.9 |
| 489 | 91.7 | 91.0 | 90.3 | 92.3 | 89.8 | 90.3 | 90.3 | 88.8 | 90.1 |
| 337 | 93.8 | 93.1 | 92.4 | 92.3 | 90.5 | 93.8 | 88.9 | 88.8 | 88.7 |
| 177 | 93.8 | 93.1 | 92.4 | 92.3 | 90.5 | 93.8 | 88.9 | 88.8 | 88.7 |
| 547 | 91.7 | 91.0 | 90.3 | 89.6 | 91.3 | 89.0 | 89.0 | 89.6 | 88.8 |

Unweighted Coeficients (Cont.)

|  | 920 | 049 | 1854 | 1240 | 385 | 1424 | 424 | 226 | 1888 |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1876 | 89.7 | 87.6 | 86.9 | 88.2 | 87.7 | 88.3 | 87.6 | 88.9 | 88.1 |
| 959 | 89.5 | 88.8 | 88.1 | 89.4 | 87.5 | 89.5 | 87.4 | 90.1 | 86.5 |
| 927 | 91.0 | 90.3 | 89.6 | 91.6 | 89.1 | 89.6 | 89.6 | 87.4 | 89.4 |
| 440 | 88.3 | 87.6 | 86.9 | 86.8 | 87.0 | 86.9 | 91.7 | 87.5 | 89.5 |
| 1247 | 88.7 | 88.0 | 87.3 | 87.2 | 87.4 | 88.0 | 86.6 | 89.4 | 86.4 |
| $T R$ | 91.0 | 88.9 | 88.2 | 89.5 | 88.3 | 89.6 | 86.1 | 88.1 | 85.9 |
| 210 | 87.6 | 86.9 | 86.2 | 86.1 | 87.0 | 86.2 | 91.0 | 88.2 | 88.8 |
| 999 | 90.2 | 88.1 | 87.4 | 91.5 | 86.8 | 88.8 | 86.7 | 86.6 | 85.8 |
| 1597 | 91.0 | 89.6 | 90.3 | 90.9 | 89.8 | 89.6 | 88.2 | 88.1 | 88.0 |
| 491 | 89.6 | 88.2 | 87.5 | 89.5 | 87.6 | 89.6 | 85.4 | 86.7 | 85.3 |
| 1610 | 88.2 | 87.5 | 86.8 | 88.1 | 07.6 | 86.1 | 87.5 | 86.0 | 88.0 |
| 642 | 86.7 | 87.4 | 86.7 | 86.6 | 87.5 | 85.3 | 87.4 | 85.2 | 87.9 |
| 104 | 89.0 | 86.9 | 87.6 | 87.5 | 87.0 | 89.0 | 85.5 | 86.1 | 84.6 |
| 467 | 86.8 | 87.5 | 86.8 | 85.3 | 88.3 | 85.4 | 88.9 | 86.7 | 89.4 |
| 307 | 84.7 | 86.8 | 86.1 | 83.2 | 84.7 | 84.0 | 85.4 | 83.2 | 86.6 |
| 1827 | 85.4 | 86.1 | 85.4 | 84.6 | 85.4 | 84.0 | 83.3 | 83.9 | 83.8 |
| 69 | 81.9 | 82.6 | 81.9 | 80.4 | 83.9 | 80.6 | 82.6 | 79.7 | 83.8 |
| 1315 | 83.3 | 81.3 | 80.6 | 81.8 | 81.8 | 83.3 | 84.7 | 81.1 | 83.1 |
| 876 | 80.7 | 80.0 | 79.3 | 80.6 | 78.3 | 79.3 | 81.4 | 78.5 | 82.5 |
| 323 | 81.3 | 80.6 | 79.9 | 81.1 | 81.0 | 78.5 | 80.6 | 79.7 | 78.2 |
| 378 | 76.2 | 76.9 | 76.2 | 76.1 | 75.2 | 76.2 | 77.6 | 74.6 | 78.0 |
| 5 | 74.5 | 73.8 | 73.1 | 72.2 | 72.5 | 75.2 | 73.1 | 73.6 | 74.1 |
| 1845 | 70.2 | 70.9 | 70.2 | 67.9 | 69.4 | 70.9 | 71.6 | 70.0 | 72.7 |
| 623 | 69.9 | 70.6 | 69.9 | 67.6 | 69.1 | 70.6 | 71.3 | 70.4 | 71.6 |
| 1735 | 66.0 | 68.1 | 67.4 | 64.3 | 66.4 | 64.6 | 66.7 | 67.8 | 66.9 |
| 1243 | 63.6 | 61.5 | 60.8 | 64.8 | 61.8 | 63.6 | 64.3 | 53.4 | 65.2 |
| 2298 | 62.8 | 62.8 | 62.1 | 61.8 | 60.1 | 61.4 | 63.4 | 63.2 | 63.6 |
| 01 | 59.0 | 59.7 | 60.4 | 56.5 | 58.3 | 59.7 | 60.4 | 60.9 | 60.1 |
| 044 | 61.0 | 60.3 | 59.6 | 60.7 | 58.1 | 00.3 | 58.1 | 60.0 | 60.0 |
| 02 | 59.7 | 61.8 | 62.5 | 58.0 | 60.6 | 59.0 | 60.4 | 62.9 | 61.3 |
| 1175 | 57.3 | 56.6 | 55.9 | 57.7 | 53.7 | 58.0 | 57.3 | 57.0 | 59.6 |
| 206 | 53.5 | 54.2 | 53.5 | 54.6 | 54.8 | 53.5 | 54.9 | 55.3 | 55.7 |
| 1522 | 54.9 | 55.6 | 54.9 | 55.3 | 52.6 | 54.2 | 55.6 | 55.3 | 50.4 |
| 1799 | 52.8 | 53.5 | 52.8 | 54.6 | 54.8 | 53.5 | 54.2 | 53.2 | 55.0 |
| 1611 | 54.2 | 54.9 | 54.2 | 54.9 | 53.3 | 53.5 | 55.0 | 53.5 | 55.6 |
| 522 | 51.0 | 51.7 | 51.0 | 52.8 | 52.2 | 51.7 | 52.4 | 51.4 | 53.2 |
| 03 | 53.1 | 54.5 | 55.2 | 52.8 | 53.7 | 52.4 | 55.9 | 57.7 | 56.7 |
| 1890 | 51.0 | 51.7 | 51.0 | 52.1 | 49.3 | 50.3 | 51.7 | 52.1 | 52.5 |
| 1241 | 52.1 | 52.8 | 53.5 | 52.5 | 51.1 | 52.8 | 53.5 | 53.9 | 54.3 |
| 614 | 49.3 | 48.6 | 47.9 | 49.7 | 49.6 | 47.2 | 50.7 | 50.3 | 51.4 |
| 2412 | 46.5 | 45.8 | 45.1 | 48.3 | 46.7 | 47.2 | 47.9 | 47.6 | 48.6 |
| 1505 | 44.8 | 45.5 | 44.8 | 45.8 | 43.5 | 44.1 | 46.2 | 45.8 | 46.9 |
| 1739 | 49.3 | 50.7 | 51.4 | 49.7 | 49.6 | 48.6 | 50.7 | 53.8 | 51.4 |
|  |  |  |  |  |  |  |  |  |  |

Taxonomy
Unweighted Coeficients (Cont.)

|  | 319 | 3 | 1319 | 18 | 1022 | 48 | 6 | 1503 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 91 | 94 | 92.2 |  |  | 93 | 9.8 | 91.7 |  |
| 049 | 92.4 | 93.8 | 91.5 | 92.4 | 93.8 | 92.4 | 95.1 | 89.7 | 92 |
| 1854 | 91.7 | 93.1 | 90.8 | 91.7 | 93.1 | 91.7 | 94.4 | 89.0 | 91.7 |
| 1240 | 91.6 | 94.4 | 92.1 | 91.0 | 91.7 | 90.3 | 94.4 | 88.9 | 91.6 |
| 385 | 92.7 | 92.8 | 93.3 | 92.0 | 92.8 | 92.0 | 94.1 | 89.1 | 94.2 |
| 1424 | 91.7 | 93.1 | 92.2 | 90.3 | 91.7 | 90.3 | 93.0 | 89.7 | 90.3 |
| 424 | 91.0 | 93.8 | 90.1 | 90.3 | 91.0 | 89.7 | 92.3 | 88.3 | 89.6 |
| 226 | 91.6 | 91.0 | 89.3 | 91.0 | 91.0 | 92.4 | 90.8 | 92.4 | 89.5 |
| 1888 | 90.8 | 93.0 | 90.6 | 99.2 | 90.9 | 88.8 | 91.5 | 88.8 | 89.4 |
| 319 | 100.0 | 91.7 | 95.0 | 89.5 | 88.9 | 88.2 | 91.5 | 87.5 | 90.2 |
| 383 | 91.7 | 100.0 | 90.8 | 90.3 | 90.3 | 89.0 | 93.0 | 87.6 | 88.9 |
| 1319 | 95.0 | 9.8 | 0.0 | 90.1 | 91.5 | 89.4 | 90.7 | 86.5 | 92.1 |
| 1889 | 89.6 | 90.3 | 90.1 | 100.0 | 93.1 | 91.7 | 89.5 | 90.3 | 93.8 |
| 1022 | 88.9 | 90.3 | 91.5 | 93.1 | 100.0 | 93.1 | 90.2 | 87.6 | 90.3 |
| 483 | 88 | 89.0 | 89.4 | 91.7 | 93.1 | $10 n .0$ | 88.8 | 87.6 | 90.3 |
| 6 | 91.5 | 93.0 | 90.7 | 89.5 | 90.2 | 88.8 | 100.0 | 87.4 | 90.1 |
| 1503 | 87.5 | 87.6 | 86.5 | 90.3 | 87.6 | 87.6 | 87.4 | 100.7 | 88.9 |
| 18 | 90. | 88.9 | 92.1 | 93.8 | 90.3 | 90.3 | 90.1 | 88.9 | 100.0 |
| 2423 | 90.3 | 90.3 | 89.4 | 95.2 | 91.7 | 90.3 | 88.8 | 90.3 | 93 |
| 2143 | 93.1 | 91.7 | 93.6 | 88.3 | 89.0 | 90.3 | 92.3 | 86.9 | 89.6 |
| 1248 | 88.2 | 86.9 | 85.8 | 89.7 | 86.9 | 86.9 | 86.7 | 99.3 | 88.2 |
| 020 | 89 | 90. | 87. | 90. | 88. | 90. | 90.8 | 88.9 | 90.2 |
| 18 | 88 | 87.6 | 86.5 | 89.7 | 86. | 86.2 | 87.4 | 98.6 | 88.9 |
| 1874 | 89.5 | 38.9 | 90.0 | 88.9 | 90. | 91.7 | 93.0 | 87.5 | 90.2 |
| 209 | 93.0 | 90.2 | 90.6 | 90.2 | 88.8 | 88.8 | 88.7 | 88.1 | 90.1 |
| 223 | 92.4 | 91.0 | 91.5 | 90.3 | 93.8 | 89.7 | 90.2 | 85.5 | 88.9 |
| 51 | 92 | 91. | 91.5 | 90.3 | 93.8 | 89.7 | 90. | 85.5 | 88.9 |
| 263 | 91.0 | 91.0 | 93.1 | 88.3 | 89.7 | 88. | 90.9 | 86.2 | 89.6 |
| 203 | 89.4 | 89.4 | 88.5 | 89.4 | 89.4 | 88.0 | 90.8 | 89.4 | 88.7 |
| 1738 | 90.8 | 91.6 | 90.6 | 88.1 | 89.5 | 88.1 | 90.8 | 88.1 | 8¢. 6 |
| 201 | 88.2 | 86.9 | 85.8 | 88.3 | 86.9 | 88.3 | 86.7 | 97.9 | 86.8 |
| 643 | 88.9 | 91.7 | 87.9 | 87.5 | 88.9 | 88.2 | 90.1 | 86.8 | 86.0 |
| 479 | 87.5 | 86.2 | 85.1 | 89.0 | 86.2 | 87.6 | 86.0 | 98.6 | 87.5 |
| 38 | 93.3 | 91.2 | 95.5 | 89.0 | 89.7 | 88.2 | 91.9 | 84.6 | 91.1 |
| 2401 | 89.4 | 88.1 | 88.5 | 93.0 | 89.5 | 88.1 | 86.5 | 86.7 | 90.8 |
| 1891 | 93.8 | 90.3 | 92.2 | 88.3 | 89.0 | 87.6 | 88.8 | 86.2 | 89.6 |
| 1245 | 88.2 | 89.7 | 92.2 | 91.7 | 97.9 | 91.0 | 90.9 | 85.5 | 91.0 |
| 1898 | 88.5 | 89.3 | 85.4 | 86.4 | 86.4 | 88.6 | 89.1 | 85.0 | 87.1 |
| 917 | 89.6 | 89.7 | 87.2 | 88.3 | 88.3 | 89.7 | 93.7 | 86.9 | 89.6 |
| 1249 | 87.0 | 85.6 | 84.4 | 88.5 | 85.6 | 86.3 | 85.4 | 98.6 | 87.7 |
| 489 | 88.2 | 92.4 | 88.6 | 88.9 | 88.2 | 88.9 | 90.1 | 86.1 | 90.2 |
| 337 | 91.6 | 91.0 | 89.3 | 86.8 | 88.2 | 86.8 | 90.8 | 87.5 | 86.7 |
| 177 | 91.6 | 91.0 | 89.3 | 86.8 | 88.2 | 86.8 | 90.8 | 87.5 | 86.7 |
| 547 | 88.2 | 88.3 | 90.1 | 94.5 | 90.3 | 39.0 | 88.1 | 87.6 | 93.1 |

Taxonomy
Unweighted Coeficients (Cont.)

|  | 319 | 383 |  | 188 | 102 | 48 | 6 | 1503 | 1829 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1876 | 88.9 | 86.9 |  | 90.3 |  | 8.5 | 86.7 |  |  |
| 959 | 88.7 | 89.5 | 88.5 | 90.9 | 89.5 | 92.3 | 86.5 | 85.3 | 88 |
| 927 | 87.4 | 93.1 | 87.9 | 88.9 | 87.5 | 87.5 | 89.4 | 84.7 | 89.5 |
| 440 | 86.1 | 86.9 | 84.4 | 85.5 | 85.5 | 85.9 | 83.9 | 85.5 | 85.4 |
| 1247 | 88.7 | 88.0 | 84.8 | 88.7 | 85.9 | 85.9 | 86.4 | 94 | 84 |
| TR | 86.7 | 86.8 | 36.5 | 87.5 | 88.9 | 88.9 | 86. | 86.8 | 87.4 |
| 216 | 85.4 | 86.2 | 83.7 | 86.2 | 84.8 | 87.6 | 83.2 | 87.6 | 86.1 |
| 999 | 88.7 | 90.9 | 86.3 | 87.4 | 86.0 | 86.0 | 87.2 | 84.6 | 85.9 |
| 1597 | 88.8 | 90.3 | 88.6 | 87.5 | 86.8 | 85. | 91. | 85. | 87.4 |
| 491 | 88.8 | 88.9 | 87.1 | 86.1 | 85.4 | 86. | 88. | 85. | 86.0 |
| 1610 | 88.8 | 88.2 | 87.1 | 86.8 | 84.7 | 86.1 | 86. | 84.7 | 86.0 |
| 642 | 34.5 | 85.3 | 83.5 | 84.6 | 84.6 | 83.9 | 86.5 | 81.8 | 83.1 |
| 104 | 84.0 | 87.6 | 83.7 | 86.9 | 84.8 | 84.8 | 84.6 | 84. | 85.4 |
| 467 | 86.0 | 37.5 | 85.8 | 90. | 35.4 | 86. | 85 | 85 | 86.7 |
| 307 | 83.9 | 81.9 | 83.0 | 81.3 | 82.6 | 83.3 | 83.1 | 80.6 | 81.1 |
| 1827 | 82.5 | 84.7 | 83.6 | 84.0 | 85.4 | 84.0 | 82.4 | 81.3 | 82.5 |
| 69 | 83 | 79.2 | 82.9 | 77.8 | 80.6 | 79 | 80 | 77.8 | 79.7 |
| 1315 | 81.8 | 81.3 | 80.0 | 78 | 79 | 80 | 78 | 80.6 | 80 |
| 876 | 79.9 | 79.3 | 80.1 | 79.3 | 80.7 | 79.3 | 76.9 | 79.3 | 77 |
| 323 | 81.1 | 78.5 | 78.6 | 79.9 | 87.6 | 82.6 | 79.6 | 76.4 | 81.1 |
| 378 | 80 | 77.6 | 7 | 74.8 | 72.7 | 71 | 75. | 76. | 4.6 |
| 5 | 76. | 72 | 73.8 | 72 | 71.7 | 73 | 74.1 | 73. | 7 |
| 1845 | 72.3 | 68.1 | 71.5 | 70.9 | 73.2 | 70.9 | 69.8 | 68.8 | 73 |
| 623 | 73.2 | 67.8 | 71.9 | 69.2 | 69.9 | 71.3 | 69.5 | 67.8 | 09.0 |
| 1735 | 64.3 | 63. | 55.0 | 66.9 | 66.0 | 67.4 | 64.2 | - 5 | E. 3 |
| 1243 | - 2.7 | 62.2 | 63.3 | 6́2. | 61 | 63.6 | 63 | 64.3 | 63.4 |
| 2298 | 60.4 | 58.6 | 58.9 | 61.4 | 62.8 | 65.5 | 59.4 | 00.9 | 53.9 |
| 01 | 59 | 55.4 | 59.6 | 58.3 | 59.7 | 60.4 | 59. | 60.4 | 59.4 |
| 044 | 57 | 56.6 | 61.7 | 58.8 | 61.8 | 59.6 | 59. | 59.6 | 59.3 |
| 02 | 58.7 | 58.3 | 61.4 | 58.3 | 59.7 | 59.7 | 59.2 | 59.0 | 00.1 |
| 1175 | 57.7 | 55.2 | 57.6 | 55.9 | 57.3 | 57.3 | 54.0 | 58.7 | 57.0 |
| 206 | 55.3 | 52.1 | 56.5 | 54.2 | 53.5 | 56.3 | 52.1 | 60.6 | 56.7 |
| 1522 | 53.9 | 56.3 | 57.2 | 57.0 | 54.9 | 56.3 | 53.6 | 60.6 | 56.0 |
| 1799 | 54.9 | 51.4 | 56.1 | 53.5 | 52.8 | 54.9 | 51.4 | 57.0 | 55.3 |
| 1611 | 53.8 | 52.1 | 54.3 | 52.1 | 54.9 | 56.9 | 51.4 | 55.6 | 52.4 |
| 522 | 54.2 | 49.0 | 56.1 | 51.7 | 51.0 | 52.4 | 51.1 | 56.6 | 53.5 |
| 03 | 54.9 | 51.0 | 53.2 | 53.1 | 52.4 | 53.1 | 54.6 | 54.5 | 52.8 |
| 1890 | 50.3 | 52.4 | 53.2 | 54.5 | 51.7 | 51.7 | 50.4 | 58.7 | 53.5 |
| 1241 | 53.2 | 51.4 | 50.4 | 49.3 | 52.1 | 52.8 | 51.8 | 51.4 | 51.1 |
| 614 | 48.3 | 47.2 | 47.9 | 47.9 | 48.6 | 50.7 | 47.9 | 55.6 | 48.3 |
| 2412 | 48.3 | 45.8 | 47.9 | 46.5 | 47.2 | 49.3 | 45.1 | 52.8 | 46.9 |
| 1505 | 44.4 | 44.1 | 45.4 | 44.8 | 45.5 | 47.6 | 44.1 | 50.? | 44 |
| 739 | 52.4 | 47.2 | 8.6 | 48. | 50. | 2 | 48. | 9 | 50.3 |

Unweighted Coeficients (Cont.)

|  | 2423 | 2143 | 1248 | 020 | 1892 | 1874 | 209 | 223 | 51 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 91.7 | 93.8 | 91.0 | 93.1 | 90.3 | 94.4 | 91.6 | 93.1 | 93.1 |
| 049 | 91.0 | 91.7 | 89.0 | 92.4 | 88.3 | 93.8 | 92.3 | 92.4 | 92.4 |
| 1854 | 90.3 | 91.0 | 88.3 | 91.7 | 87.6 | 93.1 | 92.3 | 91.7 | 91.7 |
| 1240 | 90.3 | 93.8 | 88.2 | 90.2 | 88.9 | 91.6 | 90.1 | 93.1 | 93.1 |
| 385 | 90.6 | 93.6 | 88.4 | 92.7 | 87.7 | 94.2 | 92.6 | 90.6 | 90.6 |
| 1424 | 89.0 | 93.8 | 89.0 | 90.3 | 88.3 | 92.4 | 91.6 | 91.7 | 91.7 |
| 424 | 91.0 | 89.7 | 87.6 | 89.6 | 88.3 | 89.6 | 89.5 | 90.3 | 90.3 |
| 226 | 89.6 | 88.2 | 91.7 | 90.9 | 91.0 | 89.5 | 91.5 | 88.9 | 88.9 |
| 1888 | 90.9 | 89.5 | 88.1 | 89.4 | 88.8 | 84.4 | 89.4 | 89.5 | 89.5 |
| 319 | 90.3 | 93.1 | 88.2 | 89.5 | 88.9 | 89.5 | 93.0 | 92.4 | 92.4 |
| 383 | 90.3 | 91.7 | 86.9 | 90.3 | 87.6 | 88.9 | 90.2 | 91.0 | 91.0 |
| 1319 | 89.4 | 93.6 | 85.8 | 87.1 | 86.5 | 90.0 | 90.6 | 91.5 | 91.5 |
| 1889 | 95.2 | 88.3 | 89.7 | 90.3 | 89.7 | 88.9 | 90.2 | 90.3 | 90.3 |
| 1022 | 91.7 | 89.0 | 86.9 | 88.9 | 86.2 | 90.3 | 88.8 | 93.8 | 93.8 |
| 483 | 90.3 | 90.3 | 86.9 | 90.3 | 86.2 | 91.7 | 88.8 | 89.7 | 89.7 |
| 6 | 88.8 | 92.3 | 86.7 | 90.8 | 87.4 | 93.0 | 88.7 | 90.2 | 90.2 |
| 1503 | 90.3 | 85.9 | 99.3 | 88.9 | 98.6 | 87.5 | 88.1 | 85.5 | 85.5 |
| 1829 | 93.1 | 89.6 | 88.2 | 90.2 | 88.9 | 90.2 | 90.1 | 88.9 | 88.9 |
| 2423 | 100.0 | 87.6 | 91.0 | 88.9 | 91.7 | 87.5 | 88.8 | 31.0 | 91.0 |
| 2143 | 87.6 | 100.0 | 86.2 | 91.0 | 86.9 | 93.1 | 91.6 | 92.4 | 92.4 |
| 1248 | 91.0 | 86.2 | 100.0 | 88.2 | 99.3 | 86.8 | 87.4 | 86.2 | 86.2 |
| 020 | 88.9 | 91.0 | 88.2 | 106.0 | 87.5 | 97.2 | 91.5 | 87.5 | 87.5 |
| 1892 | 91.7 | 86.9 | 99.3 | 87.5 | 100.0 | 86.1 | 86.7 | 86.9 | 86.9 |
| 1874 | 87.5 | 93.1 | 86.8 | 90.2 | 86.1 | 100.0 | 89.4 | 88.9 | 88.9 |
| 209 | 88.8 | 91.6 | 87.4 | 91.5 | 86.7 | 89.4 | 100.0 | 89.5 | 89.5 |
| 223 | 91.0 | 92.4 | 86.2 | 87.5 | 86.9 | 88.9 | 85.5 | 100.0 | 190.0 |
| 51 | 91.0 | 92.4 | 86.2 | 87.5 | 36.9 | 88.9 | 89.5 | 100.0 | 100.0 |
| 263 | 86.9 | 90.3 | 85.5 | 89.6 | 84.8 | 90.3 | 91.6 | 91.0 | 91.0 |
| 203 | 88.0 | 89.4 | 88.7 | 90.8 | 88.0 | 87.9 | 89.3 | 88.7 | 88.7 |
| 1738 | 86.7 | 90.9 | 87.4 | 90.9 | 86.7 | 88.0 | 92.2 | 90.2 | 90.2 |
| 201 | 89.7 | 86.2 | 98.6 | 86.8 | 97.9 | 36.8 | 87.4 | 86.2 | 86.2 |
| 643 | 86.1 | 88.9 | 86.1 | 88.8 | 85.4 | 87.4 | 88.7 | 88.2 | 88.2 |
| 479 | 90.3 | 85.5 | 99.3 | 87.5 | 98.6 | 86.1 | 86.7 | 85.5 | 85.5 |
| 38 | 88.2 | 90.4 | 83.8 | 86.7 | 84.6 | 89.0 | 88.8 | 90.4 | 90.4 |
| 2401 | 95.1 | 86.7 | 87.4 | 86.6 | 88.1 | 85.2 | 87.9 | 91.6 | 91.6 |
| 1891 | 86.9 | 89.0 | 85.5 | 88.2 | 84.8 | 89.6 | 90.9 | 98.3 | 88.3 |
| 1245 | 91.0 | 88.3 | 84.8 | 86.8 | 85.5 | 89.6 | 86.7 | 93.1 | 93.1 |
| 1898 | 86.4 | 86.4 | 85.0 | 87.1 | 85.7 | 89.2 | 87.7 | 37.9 | 87.9 |
| 917 | 86.9 | 91.7 | 86.2 | 92.4 | 85.5 | 96.5 | 90.9 | 86.9 | 86.9 |
| 1249 | 89.9 | 85.6 | 99.3 | 87.7 | 98.6 | 87.7 | 86.9 | 84.9 | 84.9 |
| 489 | 88.2 | 91.0 | 85.4 | 89.5 | 86.1 | 87.4 | 88.0 | 88.9 | 88.9 |
| 337 | 85.4 | 91.0 | 86.8 | 89.6 | 86.1 | 88.8 | 91.5 | 90.3 | 90.3 |
| 177 | 85.4 | 91.0 | 86.8 | 89.6 | 86.1 | 88.8 | 91.5 | 90.3 | 90.3 |
| 547 | 91.0 | 86.9 | 86.9 | 90.3 | 86.9 | 87.5 | 88.8 | 87.6 | 87.6 |

Taxunomy
Unweighted Coeficients (Cont.)

|  | 2423 | 2143 | 1248 | 020 | 1892 | 74 | 209 | 223 | 51 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1876 | 91.0 | 86.9 | 96.6 | 86.8 | 97.2 | 86 | 86.7 | 86.2 | 86 |
| 959 | 89.5 | 86.7 | 84.6 | 85.9 | 85.3 | 85.2 | 88.0 | 90.2 | 90 |
| 927 | 87.5 | 90.3 | 84.0 | 88.8 | 84.7 | 86.7 | 87.3 | 88.2 | 88.2 |
| 440 | 85.5 | 85.5 | 84.8 | 85.4 | 84.1 | 85.4 | 86.7 | 84.8 | 84.8 |
| 1247 | 88.7 | 85.2 | 95.1 | 85.8 | 94.4 | 84 | 87.9 | 86.6 | 86 |
| TR | 86 | 88.2 | 86.1 | 88.1 | 85.4 | 87 | 89.4 | 86.1 | 86 |
| 16 | 86 | 84.8 | 86.9 | 84.7 | 86.2 | 84.7 | -97.4 | 84.1 | 84 |
| 9 | 88.8 | 88.8 | 85.3 | 87.3 | 86. | 85 | 88.7 | 89.5 | 8 |
| 1597 | 86.8 | 89.6 | 84.7 | 87.4 | 85.4 | 88. | 88.0 | 87.5 | 87.5 |
| 491 | 86.1 | 91.0 | 84.7 | 89.5 | 84.0 | 88. | 88.7 | 86.1 | 86 |
| 1610 | 88.9 | 87.5 | 85.4 | 87.4 | 86.1 | 84. | 84.5 | 87.5 | 87.5 |
| 642 | 83.2 | 83.9 | 81 | 86. | 80.4 | 85. | 84.4 | 84.6 | 84.6 |
| 104 | 84.1 | 86.2 | 83.4 | 86.8 | 82.8 | 84.7 | 88 | 85.5 | 85.5 |
| 467 | 86.8 | 84.0 | 84.7 | 83.9 | 85.4 | 83.2 | 85.2 | 84.7 | 84.7 |
| 307 | 82.6 | 80.6 | 81.3 | 79.7 | 80.6 | 83.9 | 81.7 | 81.9 | 81.9 |
| 1827 | 81.3 | 84.0 | 80.6 | 86.7 | 79.9 | 83.9 | 84.5 | 84.0 | 84.7 |
| 69 | 79.2 | 79.2 | 78.5 | 76.2 | 77.8 | 81.1 | 77.5 | 79.9 | 79.9 |
| 1315 | 78.5 | 82.6 | 79.9 | 79.7 | 79.2 | 81.1 | 83.8 | 81.9 | 81.9 |
| 876 | 82.1 | 79.3 | 80.0 | 79.9 | 79.3 | 76.4 | 78.3 | 80.7 | 30.7 |
| 323 | 80.6 | 78.5 | 77.1 | 78.3 | 77.8 | 79.7 | 78.2 | 79.9 | 79.9 |
| 378 | 75.5 | 79.0 | 75.5 | 76.1 | 76.2 | 72.5 | 77.3 | 75.5 | 75.5 |
| 5 | 72.4 | 74.5 | 74.5 | 75.7 | 74.5 | 73.6 | 72.0 | 71.7 | 71.7 |
| 1845 | 70.9 | 69.5 | 69.5 | 70.9 | 69.5 | 71.4 | 68.3 | 68.1 | 68.1 |
| 623 | 69.2 | 69.9 | 68.5 | 69.7 | 68.5 | 71.1 | 68.8 | 68.5 | 68.5 |
| 1735 | 64.6 | 61.8 | 63.9 | 07.1 | 63.2 | 64.3 | 64.8 | 61.8 | 61.3 |
| 1243 | 04.3 | 62.2 | 65.0 | 62.7 | 65.7 | 61.3 | 60.3 | б 3.6 | 63.6 |
| 2298 | 61.4 | 61.4 | 60.7 | 02.5 | 60.7 | 61.1 | 60.8 | 60.7 | 50.7 |
| 01 | 59.7 | 59.0 | 61.2 | 57.2 | 51.2 | 59.4 | 56.9 | 56.8 | 56.8 |
| 044 | 55.9 | 60.3 | 58.8 | 60.9 | 58.1 | 60.7 | 56.0 | 55.1 | 55.1 |
| 02 | シ6.9 | 57.6 | 58.3 | 59.4 | 57.6 | 58.7 | 58.5 | 55.0 | 55.6 |
| 1175 | 57.3 | 55.9 | 59.4 | 56.3 | 59.4 | 54.2 | 54.0 | 55.2 | 55.2 |
| 206 | 57.0 | 52.8 | 61.3 | 54.6 | 61.3 | 53.2 | 51.4 | 52.8 | 52.8 |
| 1522 | 57.0 | 53.5 | 59.9 | 56.0 | 59.9 | 54.6 | 54.3 | 53.5 | 53.5 |
| 1799 | 54.9 | 52.8 | 57.7 | 53.2 | 57.7 | 52.5 | 51.4 | 52.8 | 52.8 |
| 1611 | 53.5 | 52.8 | 56.3 | 52.4 | 56.3 | 53.8 | 50.7 | 52.1 | 52.1 |
| 522 | 53.1 | 51.0 | 57.3 | 51.4 | 57.3 | 52.1 | 49.6 | 51.0 | 51.0 |
| 03 | 53.1 | 53.1 | 55.? | 53.5 | 55.2 | 53.5 | 52.5 | 51.0 | 51.0 |
| 1890 | 54.5 | 49.7 | 58.0 | 52.1 | 58.0 | 50.7 | 51.8 | 50.3 | 50.3 |
| 1241 | 49.3 | 52.1 | 52.1 | 54.6 | 52.1 | 51.8 | 52.1 | 51.4 | 51.4 |
| 614 | 47.9 | 47.9 | 54.9 | 49.7 | 54.9 | 49.0 | 46.5 | 45.8 | 45.8 |
| 2412 | 47.9 | 46.5 | 53.5 | 46.9 | 53.5 | 46.2 | 45.1 | 45.8 | 45.8 |
| 1505 | 45.5 | 43.4 | 51.0 | 44.4 | 51.0 | 44.4 | 41.3 | 44.1 | 44.1 |
| 1739 | 48.6 | 49.3 | 50.0 | 51.7 | 50.0 | 50.3 | 51.4 | 48.6 | 48.6 |

Unweighted Coeficients (Cont.)

|  | 263 | 203 | 1738 | 201 | 643 | 479 | 38 | 2401 | 1891 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 93.8 | 93.0 | 93.0 | 91.0 | 93.1 | 90.3 | 91.2 | 89.5 | 91.7 |
| 049 | 94.5 | 92.3 | 92.3 | 89.0 | 92.4 | 88.3 | 91.9 | 88.8 | 92.4 |
| 1854 | 93.8 | 91.5 | 91.6 | 88.3 | 91.7 | 87.6 | 91.2 | 88.1 | 91.7 |
| 1240 | 92.4 | 90.1 | 91.5 | 88.2 | 91.6 | 87.5 | 91.1 | 90.1 | 90.3 |
| 385 | 92.0 | 90.4 | 91.2 | 88.4 | 91.2 | 87.7 | 93.8 | 88.2 | 94.9 |
| i424 | 93.8 | 91.5 | 93.0 | 89.0 | 91.7 | 88.3 | 91.2 | 88 | 91.7 |
| 424 | 90.3 | 88.7 | 89.5 | 87.6 | 89.6 | 86.9 | 90.4 | 87.4 | 89.7 |
| 226 | 90.3 | 92.2 | 89.4 | 91.7 | 90.2 | 91.0 | 88.9 | 87.3 | 90.3 |
| 1888 | 90.2 | 88.6 | 89.4 | 87.4 | 88.7 | 87.4 | 89.6 | 87.2 | 89.5 |
| 319 | 91.0 | 89.4 | 90.8 | 88.2 | 88.9 | 87.5 | 93.3 | 89.4 | 93.8 |
| 383 | 91.0 | 89.4 | 91.0 | 86.9 | 91.7 | 86.2 | 91.2 | 88.1 | 90.3 |
| 1319 | 90.1 | 38.5 | 90.6 | 85.8 | 87.9 | 85.1 | 05.5 | 88.5 | 92.2 |
| 1889 | 88.3 | 89.4 | 88.1 | 88.3 | 87.5 | 89.9 | 89.0 | 93.9 | 82.3 |
| 1022 | 89.7 | 89.4 | 89.5 | 86.9 | 88.9 | 86.2 | 89.7 | 89.5 | 89.0 |
| 483 | 88.3 | 88.0 | 88.1 | 88.3 | 88.2 | 87.6 | 88.2 | 88.1 | 87.6 |
| 6 | 90.9 | 90.8 | 90.8 | 86.7 | 90.1 | 86.0 | 91.9 | 86.5 | 88.8 |
| 1503 | 36.2 | 89.4 | 88.1 | 97.9 | 86.8 | 98.6 | 84.6 | 86.7 | 86.2 |
| 1829 | 89.6 | 88. | 86.6 | 86.8 | 86.0 | 87.5 | 91.1 | 90.8 | 89.6 |
| 2423 | 86.9 | 38.0 | 86.7 | 89.7 | 86.1 | 90.3 | 88.2 | 95.1 | 86.9 |
| 2143 | 90.3 | 89.4 | 90.9 | 86.2 | 88.9 | 85.5 | 90.4 | 86.7 | 89.0 |
| 1248 | 85.5 | 88.7 | 87.4 | 98.6 | 86.1 | 99.3 | 83.8 | 87.4 | 85.5 |
| 020 | 89.6 | 90.8 | 90.9 | 86.8 | 88.8 | 87.5 | 86.7 | 86.6 | 88.2 |
| 1892 | 84.8 | 88.9 | 86.7 | 97.9 | 85.4 | 98.6 | 84.6 | 88.1 | 84.8 |
| 1874 | 90.3 | 87.9 | 88.7 | 86.8 | 87.4 | 86.1 | 89.0 | 85.2 | 89.6 |
| 209 | 91.6 | 89.3 | 92.2 | 87.4 | 88.7 | 86.7 | 88.3 | 87.9 | 90.9 |
| 223 | 91.0 | 88.7 | 90.2 | 86.2 | 88.2 | 85.5 | 90.4 | 91.6 | 88.3 |
| 51 | 91.0 | 88.7 | 90.2 | 86.2 | 88.2 | 85.5 | 90.4 | 91.6 | 88.3 |
| 263 | 100.0 | 90.8 | 92.3 | 85.5 | 89.6 | 84.8 | 91.2 | 88.8 | 92.4 |
| 203 | 90.8 | 100.0 | 92.1 | 88.7 | 89.4 | 88.7 | 89.5 | 87.1 | 88.7 |
| 1738 | 92.3 | 92.1 | 100.0 | 87.4 | 97.1 | 86.7 | 91.0 | 87.2 | 90.2 |
| 201 | 85.5 | 88.7 | 87.4 | 100.0 | 86.1 | 99.3 | 83.8 | 86.0 | 85.5 |
| 643 | 89.6 | 89.4 | 90.1 | 86.1 | 100.0 | 85.4 | 88.9 | 85.2 | 88.9 |
| 479 | 84.8 | 88.0 | 86.7 | 99.3 | 85.4 | 100.0 | 83.1 | 86.7 | 84.8 |
| 38 | 91.2 | 89.5 | 91.0 | 83.8 | 88.9 | 83.1 | 100.0 | 88.8 | 93.4 |
| 2401 | 88.8 | 87.1 | 87.2 | 86.0 | 85.2 | 56.7 | 88.8 | 100.0 | 87.4 |
| 1891 | 92.4 | 88.7 | 90.2 | 85.5 | 88.9 | 84.8 | 93.4 | 87.4 | 100.0 |
| 1245 | 87.6 | 87.3 | 87.4 | 84.8 | 36.8 | 84.1 | 90.4 | 88.8 | 88.3 |
| 1898 | 87.1 | 86.2 | 86.2 | 85.0 | 85.6 | 84.3 | 87.0 | 87.0 | 87.9 |
| 917 | 89.0 | 89.4 | 88.1 | 86.2 | 88.2 | 85.5 | 87.5 | 84.6 | 89.0 |
| 1249 | 84.2 | 87.5 | 86.1 | 97.8 | 84.8 | 98.6 | 83.8 | 36.1 | 86.3 |
| 489 | 88.2 | 88.7 | 88.7 | 84.0 | 88.2 | 84.7 | 88.9 | 87.3 | 86.8 |
| 337 | 93.1 | 30.8 | 96.5 | 86.8 | 89.5 | 86.1 | 89.6 | 85.9 | 91.0 |
| 177 | 93.1 | 00.8 | 96.5 | 86.8 | 89.5 | 86.1 | 89.6 | 85.9 | 91.0 |
| 547 | 87.6 | 88.0 | 86.7 | 85.5 | 86.1 | 36.2 | 90.4 | 88.8 | 89.7 |

## Unweighted Coeficients (Cont.)

|  | 263 | 203 | 1738 | 201 | 643 | 479 | 38 | 2401 | 1891 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1876 | 84.8 | 86.6 | 86.7 | 95.2 | 84.7 | 9.9 | 83.8 | 87.4 | 86 |
| 5 | 88 | 87 | 88.7 | 84.6 | 85.9 | 83.9 | 88.8 | 9. | 86 |
| 927 | 87.5 | 87.9 | 88.0 | 82.6 | 88. | 83. | 88 | 86.6 | 8 |
| 440 | 84.8 | 84.5 | 85.3 | 84.8 | 88.9 | 84. | 83.1 | 83.2 | 84.8 |
| 1247 | 85.9 | 86.3 | 87.9 | 95.1 | 86.5 | 94.4 | 84.4 | 86.4 | 85.9 |
| TR | 86.1 | 88.0 | 88.0 | 87.5 | 86.7 | 86.8 | 85.9 | 83.8 | 87.5 |
| 216 | 84 | 85.2 | 84.6 | 88.3 | 86.8 | 87 | 82 | 83.9 | 84.1 |
| 999 | 86.7 | 86.4 | 88.7 | 85.3 | 85.9 | 84. | 86.6 | 91.5 | 85. |
| 1597 | 88.2 | 85.1 | 87.3 | 83.3 | 88.1 | 84.0 | 88.1 | 87.3 | 87.5 |
| 491 | 88.2 | 88.7 | 88.7 | 84.0 | 86.0 | 84.0 | 88.9 | 85.2 | 88.2 |
| 106 | 85.4 | 85.8 | 87.3 | 84.0 | 85.3 | 84.7 | 87.4 | 87.3 | 84.7 |
| 642 | 86.0 | 84.4 | 85.8 | 79.7 | 87.3 | 80.4 | 86.6 | 84.4 | 85.3 |
| 104 | 86.9 | 64.5 | 86.0 | 83.4 | 86.1 | 82.8 | 84.6 | 84.6 | 84.8 |
| 467 | 86.1 | 83.1 | 83.8 | 84.7 | 84.6 | 85.4 | 85.2 | 85.9 | 86.8 |
| 307 | 83.3 | 81.6 | 81.7 | 81.3 | 83.9 | 80.6 | 82.2 | 80.3 | 83.3 |
| 1827 | 86.1 | 81.6 | 85.2 | 79.2 | 83.9 | 79.9 | 83.9 | 81.7 | 82.6 |
| 69 | 78.5 | 75.9 | 77.5 | 78.5 | 81.1 | 77.8 | 82.2 | 78.2 | 81.9 |
| 1315 | 82.6 | 83.0 | 81.0 | 79.9 | 83.2 | 79.2 | 79.3 | 78.9 | 81.9 |
| 876 | 78.6 | 77.5 | 78.3 | 78.6 | 78.5 | 79.3 | 76.5 | 79.7 | 76.6 |
| 323 | 77.8 | 78.0 | 77.5 | 78.5 | 77.6 | 77.8 | 77 | 81.0 | 78 |
| 378 | 78.3 | 76.4 | 76.6 | 75.5 | 76.1 | 74.8 | 76.9 | 78. | 76 |
| 5 | 69.0 | 71.1 | 70.6 | 73.1 | 72.2 | 73.8 | 69.9 | 71.3 | $7 \bigcirc$. |
| 1845 | 66.0 | 68.1 | 66.4 | 68.1 | 67.4 | 68.8 | 68.9 | 69.8 | 67. |
| 623 | 65.7 | 67.9 | 66.7 | 68.5 | 67.6 | 67.8 | 68.7 | 68.1 | 6 |
| 1735 | 65.3 | 66.7 | 62.7 | 62.5 | 67,1 | 63.2 | 63.7 | 63.4 | 6 |
| 1243 | 60.8 | 62.9 | 61.7 | 63.6 | 64.8 | 64. | 64.2 | 66.7 | 60 |
| 2298 | 58.6 | 63.4 | 59.4 | 59.3 | 61.8 | 69.0 | 56.6 | 60.8 | 58.6 |
| 01 | 50.1 | 59.4 | 56.2 | 60.4 | 62.3 | 60.4 | 58.0 | 58.4 |  |
| 044 | 58.1 | 58.6 | 56.7 | 58 | 60.7 | 58. | 57.8 | 50.7 |  |
| 02 | 59.7 | 57.4 | 56.3 | 56.9 | 60.8 | 57.6 | 58.5 | 54.9 |  |
| 1175 | 54.5 | 56.4 | 54.6 | 58.0 | 59.2 | 58.7 | 54.5 | 58.9 | . 9 |
| 206 | 52.1 | 54.7 | 53.6 | 61.3 | 53.2 | 62.0 | 56.0 | 57.9 | 53.5 |
| 1522 | 55.6 | 56.8 | 55.0 | 59.9 | 54.6 | 60.6 | 56.3 | 58.6 | 52.8 |
| 1799 | 52.8 | 53.6 | 51.4 | 57.7 | 54.2 | 58.5 | 56.4 | 57.9 | 53.5 |
| 1611 | 52.1 | 51.8 | 50.0 | 57.6 | 54.5 | 56.9 | 51.9 | 53.5 | 51.4 |
| 522 | 51.0 | 52.1 | 50.7 | 57.3 | 52.1 | 58.0 | 56.7 | 56.0 | 52.4 |
| 03 | 51.7 | 52.9 | 49.6 | 53.8 | 54.9 | 54.5 | 50.7 | 52.1 | 51.7 |
| 1890 | 51.7 | 52.9 | 51.1 | 56.6 | 51.0 | 57.3 | 53.0 | 56.0 | 49.0 |
| 1241 | 52.1 | 54.7 | 54.3 | 50.7 | 53.9 | 51.4 | 51.5 | 52.9 | 50.7 |
| 614 | 47.2 | 46.8 | 45.8 | 54.9 | 49.7 | 55.6 | 45.9 | 47.9 | 47.9 |
| 2412 | 45.8 | 46.1 | 45.1 | 53.5 | 48.3 | 54.2 | 45.9 | 49.3 | 46.5 |
| 1505 | 44.1 | 45.1 | 43.4 | 51.0 | 43.8 | 51.7 | 44.9 | 46.9 | , |
| 1739 | 47.9 | 51.1 | 50.7 | 48.6 | 50.3 | 49.3 | 46.7 | 50.0 | 49. |

Taxonomy
Unweighted Coeficients (Cont.)

|  | 1245 | 1898 | 917 | 1249 | 489 | 337 | 77 | 547 | 1876 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 92 |  |  |  |  | 93.8 |  |  | 89.7 |
|  | 31.7 | 90.7 | 93. | 87.8 | 91.0 | 93.1 | 93.1 | 91.0 | 6 |
| 1854 | 91.0 | 91.4 | 92.4 | 87.1 | 90.3 | . | 92.4 | 0.3 | 9 |
| 1240 | 91.0 | 87.8 | 91.0 | 87.0 | 92.3 | 92. | 92.3 |  |  |
| 385 | 93.5 | 91.7 | 93.5 | 87.7 | 89.8 | . 5 | 9. | . 3 | 87.7 |
| 424 | 89.7 | 86.4 | 91.0 | 87.8 | 0.3 | 93.8 | 3.8 | 89.0 | . 3 |
| 424 | 90.3 | 90.0 | 89.0 | 86.3 | 90. | 88.9 |  |  |  |
| 226 | 88.9 | 92.1 | 90.3 | 90.6 | 88.8 | 88.8 | 88.8 | 9.6 |  |
| 888 | 90.2 | 89. | 88. | 86.9 | 0. | 8.7 | 8. | 88.8 | 88.1 |
|  | 88.2 | 88.5 | 89.6 | 87.0 | 88.2 | 91.6 | 91.6 | 88. | 88.9 |
| 183 | 89. | 89.3 | 89.7 | 85.6 | 92.4 | 91.0 | 91.0 | 88.3 | 86.9 |
| 19 | 92.2 | 85.4 | 87. | 34. 4 | 88.6 | 89.3 | 89. | 90.1 |  |
| 9 | 91.7 | 86.4 | 88.3 | 88.5 | 88. | 86. | 86.8 | 94.5 | 90 |
| 1022 | 97 | 86.4 | 88.3 | 85.6 | 88. | 88 | 88. | 90.3 | 85.5 |
| 483 | 91 | 88.6 | 89.7 | 80. | 88. | 86.8 | 86 | 89.0 | 85.5 |
|  | 90.9 | 89.1 | 93. | 85. | 90. | 90.8 | 9 |  |  |
| 03 | 85.5 | 85.0 | 86.9 | 98.6 | 96 | 87 | 87. | 37.6 | 95.9 |
| 29 | 91.0 | 87. | 89.6 | 87.7 | 90.2 | 86.7 | 6. | 3. | 8.2 |
| 2423 | 91.0 | 6.4 | 86.9 | 89.9 | 88.2 | 85.4 | 85.4 | 91.0 | 0 |
| 43 | 88.3 | 86.4 | 91.7 | 85.6 | 1. | 1. | 1 | 6.9 |  |
| 12 | 84.8 | 85.0 | 86.2 | 99.3 | 85 | 86.8 | 6. | 86.9 | 8 |
| 020 | 86.8 | 87. | 92.4 | 87.7 | 89. | 89.6 | 1 | 3 | 86.8 |
| 1892 | 85.5 | 85.7 | 85.5 | 98.6 | 86. | 86.1 | 86.1 | 86.9 | 97.2 |
| 1874 | 89.6 | 89.2 | 96.5 | 87.0 | 7. | 8.8 | 88.8 |  |  |
| 29 | 86.7 | 87.7 | 90.9 | 86.9 | 88.0 | 1.5 | 91.5 | 88.8 |  |
| 223 | 93. | 87.9 | 86.9 | 84.9 | 88.9 | 00.3 | 90.3 | 7.6 | . 2 |
| 51 | 93. | 87.9 | 86.9 | 84.9 | 88.9 | 90.3 | 90.3 | 87.6 |  |
| 263 | 87.6 | 87.1 | 69.0 | 84.2 | 88.2 | 93.1 | 3. |  |  |
| 203 | 87.3 | 86.2 | 89.4 | 87.5 | 88.7 | 9 | 90 | 88.9 |  |
| 88 | 7.4 | 86.2 | 88.1 | 86.1 | 88. | 6.5 | 6 | 86.7 | 86.7 |
|  | 84.8 | 85.0 | 86.2 | 97.8 | 84.0 | 86.8 | 86.8 | 85.5 | 95.2 |
| 643 | 86.8 | 85.6 | 88.2 | 34.8 | 88.2 | 89.5 | 89.5 |  |  |
| 479 | 84.1 | 84.3 | 85.5 | 8.6 | 84.7 | 86.1 | 86.1 | 6. |  |
| 38 |  | 87.0 | 87.5 | 83.8 | 88.9 | 39.6 | 9.6 | 99.4 | 83.8 |
| 2401 | 88 | 87 | 84.6 | 86.1 | 87.3 | 85.9 | 5 | 88.8 | 7. |
| 1891 | 88.3 | 87.9 | 89.0 | 86. | 86.8 | 1 | 1 |  |  |
| 1245 | 100.0 | 87.1 | 87.6 | 83.5 | 87.5 | 86. | 86.1 | 90.3 |  |
| 1898 | 87.1 | 100.0 | 89.3 | 85.1 | 87.1 | 85.6 | 5.6 | 85. | 6. |
| 917 | 87.6 | 89.3 | 100.0 | 86.3 | 88.2 | 88.9 | 88.9 | 86.9 |  |
| 1249 | 83.5 | 85.1 | 86.3 | 100.0 | 84.8 | 85.5 | 88 |  |  |
| 489 | 87.5 | 87.1 | 88.2 | 84.8 | in0.0 | 38. | 88. | 87.5 |  |
| 337 | 86.1 | 85.6 | 88.9 | 85.5 | 88.1 | 100.0 | 100. | 85 |  |
| 177 | 86 | 85.6 | 88.9 | 85.5 | 88.1 | 100.0 | 100.0 | 85. |  |
| 547 | 90. | 5.0 | 86 | 7 | 87 | 85 | 85 | 100.0 |  |

Taxonomy

Unweighted Coeficients (Cont.)

|  | 1245 | 1898 | 917 | 1249 | 489 | 337 | 177 | 547 | 1876 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 87 | 84.8 | 86 |  |  |  | 86. | 86. | 87. |  |
| 959 | 88.8 | 87.0 | 84.6 | 83 | 88.0 | 87. | 87. | 87. | 84 |
| 927 | 86.8 | 85.6 | 87.5 | 83. | 99. | 87.4 | 87. | 86. |  |
| 440 | 83.4 | 85.0 | 84.8 | 84.2 | 85.4 | 83.3 | 83. | 84. | 83 |
| 1247 | 83.8 | 83.9 | 85.2 | 4. | 84. | 87. | 87. | 83. | 93 |
| TR | 86.8 | 83.6 | 87.5 | 87. | 5. | 86. | 86. | 88. |  |
| 216 | 82.8 | 84.3 | 84. | 86.3 | 84.7 | 82.6 | 82.6 | 83. |  |
| 9 | 85.3 | 87.0 | 88. | 83.9 | 85. | 89. | 89. | 85. | 85 |
| 1597 | 87.5 | 87.8 | 89.6 | 83.3 | 89. | 86. | 86 | 86. | 84. |
| 491 | 83.3 | 84.2 | 89.0 | 85.5 | 86. | 88. | 88. | 86 | 84 |
| 1610 | 84.0 | 85.6 | 84.7 | 84.1 | 85.3 | 86.0 | 86.0 | 85.4 | 86.8 |
| 642 | 83.9 | 85.5 | 85. | 79.6 | 83.1 | 84.5 | 84.5 | 83.2 | 79.7 |
| 4 | 82.8 | 85.7 | 84.8 | 82. | 86.8 | 35.4 | 85. | 84 | 83.4 |
| 67 | 86. | 83.6 | 81. | 83.3 | 86. | 33 | 83 | 86 | 86.8 |
| 307 | 81.9 | 84.2 | 83.3 | 80.4 | 81. | 81.8 | 81.8 | 79.9 | 81 |
| 1827 | 83.3 | 81.3 | 83.3 | 79.7 | 84.6 | 84.6 | 84.6 | 81.3 | 79.2 |
| 69 | 81. | 80.6 | 78.5 | 76.8 | 76 | 78. | 78 | 77.8 | 77.1 |
| 1315 | 77. | 79.3 | 82 | 79. | 31 | 82. | 82 | 78.5 | 79.2 |
| 6 | 78.6 | 77.1 | 74.5 | 78. | 77. | 76. | 76. | 77.9 | , |
| 23 | 81.3 | 82.0 | 78.5 | 76. | 78. | 76. | 76. | 79.9 | 77 |
| 8 | 72 | 76.8 |  | 7 | 73. | 76 | 76. | 70.6 | 76.2 |
| 5 | 71. | 75.0 | 73. | 73 | 72. | 79 | 77. | 72.4 |  |
| 1845 | 70.2 | 71.3 | 69.5 | 68. | 68.8 | 66.0 | бó. | 70.9 | 68.8 |
| 623 | 69.9 | 71.7 | 69.2 | 67. | 67.6 | 66. | 66. | 69.2 | 67.8 |
| 1735 | 64.6 | 67.6 | 64. |  | 64 | 60. | 50 | 66 |  |
| 1243 | 62 | 66.7 | 60.8 | 63 | 64 | 59. | 59 | 60 | 63 |
| 2298 | 61.4 | 65.0 | 61.4 | 59. | 61. | 57. | 57 | 61.4 | 58.6 |
| 01 | 59 | 61.5 | 57.6 | 59. | 55.8 | 54. | 54. | 57. |  |
| 044 | 59 | 59. | 58.8 |  |  | 56. | 56 | 59 | 8.8 |
| 02 | 59 | 61.9 | 57.6 | 56.5 | 6.6 | 55. | 55 | 59 | 56 |
| 1175 | 55.9 | 56.5 | 53.1 | 57.7 | 56.3 | 54.2 | 54. | 55. |  |
| 06 | 53.5 | 55.5 | 51.4 | 61.8 | 52.5 | 53.2 | 53. | 56 | 58.5 |
|  | 53. | 55. | 52. | 58 |  | 53 |  |  | \% |
| 1799 | 52.8 | 54.3 | 50.7 | 58.8 | 53.5 | 51.1 | 51. | 54.9 | 54.9 |
| 1611 | 53.5 | 55.4 | 50.7 | 55.8 | 51.7 | 49.7 | 49.7 | 52.1 | 54.9 |
| 522 | 51.0 | 51.4 | 50. | 58. | 51.4 | 50.7 | 50.7 | 53.8 | 54. |
| 3 | 52 | 58. | 53 | 5 | 2. | 48. | 48. | 52. | . |
| 1890 | 50.3 | 52.2 | 49.0 | 56.2 | 50.3 | 49.3 | 49. | 51.7 | 55.2 |
| 1241 | 52.1 | 57.7 | 51.4 | 50.0 | 52.5 | 53.2 | 53.2 | 50.7 | 50.0 |
| 614 | 47.2 | 50.4 | 46.5 | 55.8 | 46.2 | 46.2 | 46.2 | 47.9 | 52.1 |
|  | 45.8 | 48. | 43 | 54 | 46 | 44 | 44 | 46 | 50.7 |
| 1505 | 44.1 | 47.1 | 41.4 | 50.4 | 44.4 | 43.1 | 43.1 | 44.1 | 48.3 |
| 739 | 50.7 | 55.0 | 49.3 | 47.8 | 48.3 | 48.3 | 48.3 | 48.6 | 47. |

Taxonomy
Unweighted Coeficients (Cont.)

|  | 959 | 927 | 440 | 1247 | TR | 216 | 999 | 1597 | 491 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 89.5 | 91.0 | 88.3 | 88.7 | 91.0 | 87.6 | 90.2 | 91.0 | 89.6 |
| 049 | 88.8 | 90.3 | 87.6 | 88.0 | 88.9 | 86.9 | 88.1 | 89.6 | 88.2 |
| 1854 | 88.1 | 89.6 | 86.9 | 87.3 | 88.2 | 86.2 | 87.4 | 90.3 | 87.5 |
| 1240 | 89.4 | 91.6 | 86.8 | 87.2 | 89.5 | 86.1 | 91.5 | 90.9 | 89.5 |
| 385 | 87.5 | 89.1 | 87.0 | 87.4 | 88.3 | 87.0 | 86.8 | 89.8 | 87.6 |
| 1424 | 89.5 | 89.5 | 86.9 | 88.0 | 89.6 | 86.2 | 88.8 | 89.6 | 89.6 |
| 424 | 87.4 | 89.6 | 91.7 | 86.6 | 86.1 | 91.0 | 86.7 | 88.2 | 85.4 |
| 226 | 90.1 | 87.4 | 87.5 | 89.4 | 88.1 | 88.2 | 86.5 | 88.1 | 86.7 |
| 1888 | 86.5 | 89.4 | 89.5 | 86.4 | 85.9 | 88.8 | 85.8 | 88.0 | 85.3 |
| 319 | 88.7 | 87.4 | 86.1 | 88.7 | 86.7 | 85.4 | 88.7 | 88.8 | 88.8 |
| 383 | 89.5 | 93.1 | 86.9 | 88.0 | 86.8 | 86.2 | 90.9 | 99.3 | 88.9 |
| 1319 | 88.5 | 87.9 | 84.4 | 84.8 | 86.5 | 83.7 | 86.3 | 88.6 | 87.1 |
| 1889 | 90.9 | 88.9 | 85.5 | 88.7 | 87.5 | 86.2 | 87.4 | 87.5 | 86.1 |
| 1022 | 89.5 | 87.5 | 85.5 | 85.9 | 88.9 | 84.8 | 86.0 | 86.8 | 85.4 |
| 483 | 92.3 | 87.5 | 86.9 | 85.9 | 88.9 | 87.6 | 86.0 | 85.4 | 86.8 |
| 6 | 86.5 | 89.4 | 83.9 | 86.1 | 86.6 | 83.2 | 87.2 | 91.5 | 88.0 |
| 1503 | 85.3 | 84.7 | 85.5 | 94.4 | 36.8 | 87.6 | 84.6 | 85.4 | 85.4 |
| 1829 | 88.0 | 89.5 | 85.4 | 84.4 | 87.4 | 36.1 | 85.9 | 87.4 | 86.0 |
| 2423 | 89.5 | 87.5 | 85.5 | 88.7 | 86.1 | 86.2 | 88.8 | 86.8 | 86.1 |
| 2143 | 86.7 | 90.3 | 85.5 | 85.2 | 88.2 | 84.8 | 88.8 | 89.6 | 91.0 |
| 1248 | 84.6 | 84.0 | 84.8 | 95.1 | 86.1 | 86.9 | 85.3 | 84.7 | 84.7 |
| 020 | 85.9 | 88.8 | 85.4 | 85.8 | 88.1 | 84.7 | 87.3 | 87.4 | 89.5 |
| 1892 | 85.3 | 84.7 | 84.1 | 94.4 | 85.4 | 86.2 | 86.0 | 85.4 | 84.7 |
| 1874 | 85.2 | $80^{6} .7$ | 85.4 | 84.4 | 87.4 | 84.7 | 85.9 | 88.1 | 88.8 |
| 209 | 88.0 | 87.3 | 86.7 | 87.9 | 89.4 | 87.4 | 88.7 | 88.0 | 88.7 |
| 223 | 90.2 | 88.2 | 84.8 | 86.6 | 86.1 | 84.1 | 89.5 | 87.5 | 86.1 |
| 51 | 90.2 | 88.2 | 84.8 | 86.6 | 86.1 | 84.1 | 89.5 | 87.5 | 86.1 |
| 263 | 88.1 | 87.5 | 84.8 | 85.9 | 86.1 | 84.1 | 86.7 | 88.2 | 88.2 |
| 203 | 87.1 | 87.9 | 84.5 | 86.3 | 88.0 | 85.2 | 86.4 | 85.1 | 88.7 |
| 1738 | 88.7 | 88.0 | 35.3 | 87.9 | 38.0 | 84.6 | 83.7 | 87.3 | 88.7 |
| 201 | 84.6 | 82.6 | 84.8 | 95.1 | 87.5 | 88.3 | 85.3 | 83.3 | 84.0 |
| 643 | 85.9 | 88.1 | 88.9 | 86.5 | 86.7 | 86.8 | 85.9 | 88.1 | 86.0 |
| 479 | 83.9 | 83.3 | 34.1 | 94.4 | 86.8 | 87.6 | 84.6 | 84.0 | 84.0 |
| 38 | 88.8 | 88.1 | 83.1 | 84.4 | 85.9 | 32.4 | 86.6 | 88.1 | 38.9 |
| 2401 | 90.1 | 86.6 | 33.2 | 86.4 | ¢ 3.8 | 83.9 | 91.5 | 67.3 | 85.2 |
| 1891 | 86.0 | 86.1 | 84.8 | 85.9 | 87.5 | 84.1 | 85.3 | 87.5 | 88.2 |
| 1245 | 88.8 | 86.8 | 83.4 | 83.8 | 86.8 | 82.8 | 65.3 | 07.5 | 83.3 |
| 1898 | 87.0 | 85.6 | 85.0 | 83.9 | 83.6 | 84.3 | 87.0 | 87.8 | 84.2 |
| 917 | 84.6 | 87.5 | 84.8 | 85.2 | 87.5 | 84.1 | 88.1 | 89.6 | 89.6 |
| 1249 | 83.2 | 83.3 | 84.2 | 94.1 | 87.0 | 86.3 | 83.9 | 83.3 | 85.5 |
| 489 | 88.0 | 99.3 | 85.4 | 84.4 | 85.3 | 84.7 | 85.2 | 89.5 | 86.0 |
| 337 | 87.3 | 87.4 | 83.3 | 87.2 | 86.0 | 82.6 | 89.4 | 86.7 | 88.1 |
| 177 | 87.3 | 87.4 | 83.3 | 87.2 | 86.0 | 82.6 | 89.4 | 86.7 | 88.1 |
| 547 | 87.4 | 86.8 | 84.1 | 83.1 | 88.9 | 83.4 | 85.3 | 86.1 | 86.1 |

Taxonomy
Unweighted Coeficients (Cont.)

|  |  | 927 | 440 | 1247 | TR | 216 | 999 | 1597 | 49 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 876 | 84.6 |  |  |  |  |  |  |  |  |
| 959 | 100.0 | 88.0 | 84.6 | 85.7 | 83.8 | 83.9 | 89 | 85.9 | 84. |
| 927 | 88.0 | 100.0 | 84.7 | 83.7 | 85.3 | 84.0 | 85.9 | 88.9 | 85.3 |
| \% | 84.6 | 84.7 | 100.0 | 83.8 | 84.7 | 96.6 | 82. | 82.6 | 33.3 |
| 1247 | 5 | 83. | 83.8 | 100.0 | 85. | 34 | 85 | 83 | 85.1 |
| TR | 83.8 | 85.3 | 84.7 | 85.1 | 100.0 | 85.4 | 83.8 | 83.9 | 91.6 |
| 216 | 83.9 | 84.0 | 96.6 | 84.5 | 85.4 | :00.0 | 81.8 | 81. | 82.6 |
| 999 | 89. | 85 | 2. | 5. | 83.8 | 81.8 | 100.0 | 86.6 | 86.6 |
| 1597 | 85. | 88.9 | 82.6 | 33. | 83. | 81.9 | 86.6 | 00.0 | 86.7 |
| 491 | 84.5 | 85.3 | 83.3 | 85. | 91. | 82.6 | 85. | 86.7 | 108.0 |
| 1610 | 83.8 | 84.6 | 79.2 | 83. | 81.8 | 78. | 88. | 83.9 | 85.3 |
| 642 | 82.3 | 83. | 85 | 80. | 81. | 84. | 84 | 84.5 | 83.8 |
| 104 | 83. | 86 | 84 | 82 | 83. | 84. | 83 | 84 | . 7 |
| 467 | 83.8 | 86.0 | 81. | 85. | 81.9 | 84. | 80. | 83. | 80.4 |
| 307 | 81.7 | 80.4 | 83. | 82. | 79.0 | 82.6 | 78.2 | 79. | 77.6 |
| 827 | 81. | 84.6 | 80 | 81.6 | 80 | 78. | 81.7 |  | 84.6 |
| 69 | 76. | 75. | 81 | 77 | 75 | 80.6 | 77.5 | 79 |  |
| 1315 | 79.6 | 80.4 | 90.3 | 78.7 | 83.2 | 88.2 | 81.0 | 79.7 | 80.4 |
| 876 | 77. | 76.4 | 80.0 | 77 | 75. | 79. | 76. | 75. | 75.9 |
| 323 | 78.9 | 76. | 79. | 74. | 77 | 80. | 78 | 76 | 74.1 |
| 378 | 74.5 | 72.5 | 76. | 77.1 | 70. | 75. | 76. | 73. | 73.9 |
| 5 | 71.3 | 71.5 | 72.4 | 1. | 73.6 | 71.7 | 79. | 72.2 | 72.2 |
| 1845 | 69. | 68.6 | 79 | 65. | 70.0 | 69. | 66. | 67. | 67.9 |
| 623 | 69 | 66. | 70 | 66. | 69 | 69 | 66 | 66 | 66.9 |
| 1735 | 65.5 | 63.6 | 69. | 60.3 | 65.7 | 67. | 59.9 | 64 | 63.6 |
| 1243 | 05.2 | 64.1 | 65.7 | 61.4 | 53. | 64.3 | 62. | 52.7 | 62.7 |
| 2298 | 62.9 | 60.4 | 66. |  | 51. | 64.1 |  | 51 | 59.7 |
| 01 | 58 |  |  | 6 |  |  |  |  |  |
| 044 | 56.0 | 56.3 | 58.1 | 4. | 60.7 | 57. | 56. | 58.5 | 5 |
| 02 | 56.3 | 55.9 | 59.9 | 54.6 | 58. | 58.3 | 52.8 | 60.1 | 59.4 |
| 1175 | 56.7 | 55.6 | 58. |  | 56 | 58.0 |  |  | 54.2 |
| 206 | 55 | 51. | 54. | 57 | 54. |  |  | 48.9 | 53.2 |
| 1522 | 56.4 | 53.9 | 56. | 57.9 | 53.2 | 57.0 | 55. | 50.4 | 55.3 |
| 1799 | 56.4 | 53.2 | 57.0 | 54.7 | 53.5 | 57.7 | 53.9 | 50.4 | 5:.8 |
| 1611 |  | 51. | 56 |  | 55 | 55. | 51.4 | 47.6 | 51.0 |
| 522 | 52 | 51 | 54. | 54. | 54. | 55. | 51.8 | 48. | 5 |
| 03 | 51.1 | 51.4 | 55.9 | 51.4 | 52.1 | 53.8 | 48.2 | 52.8 | 51.4 |
| 1890 | 53.2 | 50.0 | 53.1 | 56.4 | 48.6 | 53.8 | 51.8 | 46.5 | 52.1 |
| 1241 | 53. | 51 | 55.6 | 49.6 | 51. | 53. | 52. | 54.6 | 51.8 |
| 14 | 46.5 | 45 | 52.1 | 51.8 | 51.7 | 52.8 | 45.8 | 4.1 | 49.0 |
| 2412 | 47.9 | 45.5 | 50.7 | 50.4 | 48.3 | 51.4 | 45.8 | 42.7 | 46.2 |
| 1505 | 46.9 | 45.1 | 45.5 | 47.2 | 45.8 | 47.6 | 44.8 | 39.6 | 43.8 |
| 1739 | 50.0 | 47.6 | 53. | 46. | 50 | 51. | 49 | 50 |  |


|  | 1610 | 642 | 104 | 46 | 307 | 1827 | 69 | 1315 | 376 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 88.2 | 86.7 | 89.0 | 86.8 | 84.7 | 85.4 | 81.9 | 83.3 | 80.7 |
| 049 | 87.5 | 87.4 | 86.9 | 87.5 | 86.8 | 86.1 | 82.6 | 81.3 | 80.0 |
| 1854 | 86.8 | 86.7 | 87.6 | 86.8 | 86.1 | 85.4 | 81.9 | 80.6 | 79.3 |
| 1240 | 88.1 | 86.6 | 87.5 | 85.3 | 83.2 | 84.6 | 80.4 | 81.8 | 80.6 |
| 385 | 87.6 | 87.5 | 87.0 | 88.3 | 84.7 | 85.4 | 83.9 | 81.8 | 78.3 |
| 1424 | 86.1 | 85 | 89.0 | 85.4 | 84.0 | 84.0 | 80.6 | 83.3 | 79.3 |
| 424 | 87.5 | 87.4 | 85.5 | 88.9 | 85.4 | 83.3 | 82.6 | 84.7 | 81.4 |
| 226 | 86.0 | 85.2 | 86. | 86.7 | 83.2 | 83.9 | 79.7 | 81.1 | 78.5 |
| 1888 | 88.0 | 87.9 | 84.6 | 89.4 | 86.6 | 83.8 | 83.8 | 83.1 | 82.5 |
| 19 | 88.8 | 84.5 | 84.0 | 86.0 | 83.9 | 82.5 | 83.9 | 81.8 | 79.9 |
| 383 | 88.2 | 85.3 | 87.6 | 87.5 | 81.9 | 84.7 | 79.2 | 81.3 | 79.3 |
| 1317 | 87. | 83.5 | 83.7 | 85.8 | 83.6 | 83.6 | 82.9 | 80.0 | 80.1 |
| 1880 | 86. | 84.6 | 86.9 | 30.3 | 81.3 | 84.0 | 77.8 | 78.5 | 79.3 |
| 1022 | 84.7 | 84.6 | 84.8 | 85.4 | 82.6 | 85.4 | 80.6 | 79.9 | 80.7 |
| 483 | 86.1 | 83.9 | 84.8 | 86.8 | 83.3 | 84.0 | 79.2 | 80.6 | 79.3 |
| 6 | 86. | 86.5 | 84.6 | 85.2 | 83.1 | 82. | 80.3 | 78.9 | 76.9 |
| 503 | 84.7 | 81.8 | 84.1 | 85.4 | 80.6 | 81.3 | 77.8 | 80.6 | 79.3 |
| 1829 | 86.0 | 83. | 85.4 | 86.7 | 81.1 | 32.5 | 79.0 | 80.4 | 17.8 |
| 2423 | 88.9 | 83.2 | 84.1 | 86.8 | 82.6 | 81.3 | 79.2 | 78.5 | 82.1 |
| 2143 | 87.5 | 83.9 | 86.2 | 84.0 | 80.6 | 84.0 | 79.2 | 82.6 | 79.3 |
| 1248 | 85.4 | 81.1 | 83.4 | 84.7 | 81.3 | 80.6 | 78.5 | 79.9 | 80.0 |
| 020 | 87 | 86.6 | 86.8 | 83.9 | 79.7 | 86.7 | 76.2 | 79.7 | 79.9 |
| 1892 | 86 | 80.4 | 82.8 | 85.4 | 80.6 | 79.9 | 77.8 | 79.2 | 79.3 |
| 1874 | 84.6 |  | 84.7 |  |  | 83.9 | 81.1 | 81.1 | 76.4 |
| 209 | 84.5 | 84.4 | 88.1 | 85.2 | 81.7 | 84.5 | 77.5 | 83.8 | 78.3 |
| 223 | 87.5 | 84.6 | 85.5 | 34.7 | 81.9 | 84.0 | 79.9 | 81.9 | 80.7 |
| 51 | 87.5 | 84.6 | 85.5 | 84.7 | 81.9 | 84.0 | 79.9 | ¢1.9 | ¢0.1 |
| 263 | 85.4 | 86.0 | 86.9 | 86.1 | 83.3 | OU. 1 | 78.5 | 82.5 | 78.6 |
| 203 | 85.8 | 84.4 | 84.5 | 83.1 | 81.6 | 81.6 | 75.9 | 83.1 | 77.5 |
| 1738 | 87.3 | 85.8 | 86.0 | 33.8 | 81.7 | 85.2 | 77.5 | 81.0 | 78.3 |
| 201 | 84.0 | 79.7 | 83.4 | 84.7 | 81.3 | 79.2 | 78.5 | 79.9 | 78.6 |
| 643 | 85.3 | 87.3 | 86.1 | 34.6 | 83.9 | 83.9 | 81.1 | 83.2 | 78.5 |
| 479 | 84.7 | 80.4 | 82.8 | 85.4 | 80.6 | 79.9 | 77.8 | 79.2 | 79.3 |
| 38 | 87.4 | 86.6 | 84.6 | 85.2 | 82.2 | 83.0 | 82.2 | 79.3 | 76.5 |
| 2401 | 87.3 | 84.4 | 84.6 | 85.9 | 80.3 | 81.7 | 78.2 | 78.9 | 79.7 |
| 1891 | 84.7 | 85.3 | 84.8 | 86.8 | 83.3 | 82.6 | 81.9 | 81.9 | 76.6 |
| 1245 | 84.0 | 83.9 | 82.8 | 86.1 | 81.9 | 83.3 | 81.3 | 77.8 | 78.6 |
| 1898 | 85.6 | 85.5 | 85.7 | 83.6 | 84.2 | 81.3 | 80.6 | 79.3 | 77.1 |
| 917 | 84.7 | 85.3 | 84.8 | 81.9 | 83.3 | 83.3 | 78.5 | 82.6 | 74.5 |
| 1249 | 84.1 | 79.6 | 82.7 | 83.3 | 30.4 | 79.7 | 76.8 | 79.7 | 73.4 |
| 489 | 85.3 | 83.1 | 86.8 | 86.7 | 81.1 | 84.6 | 76.2 | 81.1 | 77.8 |
| 337 | 86.0 | 84.5 | 85.4 | 83.2 | 81.8 | 84.6 | 78.3 | 82.5 | 76.4 |
| 177 | 86.0 | 84.5 | 85.4 | 33.2 | 81.8 | 84.6 | 78.3 | 82.5 | 76.4 |
| 547 | 85.4 | 83.2 | 84.1 | 86.1 | 79.9 | 81.3 | 77.8 | 78.5 | 77.9 |

Unweighted Coeficients (Cont.)

|  | 1610 | 642 | 104 | 467 | 307 | 1827 | 69 | 1315 | 876 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 876 |  |  | 8. |  |  |  |  |  |  |
| 959 | 83.8 | 82.3 | 83.9 | 33.8 | 81.7 | 81.7 | 76.8 | 79. | 77.6 |
| 927 | 84.6 | 83.1 | 86.1 | 86.0 | 80.4 | 84.6 | 75.5 | 80. | 76 |
| 40 | 79. | 85.3 | 84.8 | 81.9 | 83.3 | 80.6 | 81.3 | 90.3 | 80.0 |
| 1247 | 83 | 80.7 | 82.4 | 85. | 82.3 | 81.6 | 77. | 78 | 77.5 |
| TR | 81 | 81.0 | 83. | 1.9 | 9. | 80. | 5 | 83. | 75 |
| 216 | 78.5 | 84.6 | 84.1 | 84.0 | 82.6 | 78.5 | 80.5 | 88. | 79 |
| 999 | 88.0 | 84.4 | 83.9 | 80.3 | 78. | 81.7 | 77. | 81. | 76.9 |
| 97 | 83 | 84.5 | 84.0 | 83. | 79 | 81. | 79 | 79. | 75.7 |
| 491 | 85.3 | 83.8 | 84.7 | 80. | 7.6 | 84.6 | 75 | 80 | 75.0 |
| 1610 | 100.0 | 84.5 | 81.3 | 83.9 | 80.4 | 80.4 | 76.9 | 77 | 76.4 |
| 42 | 84.5 | 100.0 | 81.1 | 81.7 | 85.2 | 83.1 | 81.0 | 79.6 | 79.0 |
| 104 | 81.3 | 81.1 | 100.9 | 82.6 | 5. | 84. | 75. | 80.6 | 75.2 |
| 467 | 83. | 81. | 82.6 | 100.0 | 79.0 |  | 76.9 | 77. | 74.3 |
| 307 | 80. | 85.2 | 75.7 | 79.0 | 100.0 | 76.2 | 82. | 77.6 | 77.8 |
| 1827 | 80.4 | 83.1 | 84.0 | 79.0 | 76.2 | 100.0 | 72.0 | 74. | 76.4 |
| 69 | 76 | 81.0 | 75. | 76. | 82.5 | 7 | 100.0 | 75 | 75.7 |
| 1315 | 77 | 79 | 80 | 77 | 77.6 | 74.8 | 75.5 | 100. | 72.9 |
| 876 | 76 | 79.0 | 75.2 | 74.3 | 77.8 | 76 | 75.7 | 72.9 | 100 |
| 323 | 76.9 | 74.6 | 76.4 | 74.8 | 73.4 | 72. | 74. | 71.3 | 70.8 |
| 378 | 5 | 74 | 73. | 74 | 73.9 | 72. | 75 | 70 | 76.2 |
| 5 | 72.9 | 7 | 72.4 | 70.1 | 75.0 | 69 | 72.2 | 67. | 64.8 |
| 1845 | 68.6 | 71.2 | 68.8 | 67.9 | 74. | 66. | 73. | 63. | 64.5 |
| 623 | 67.6 | 69.5 | 68.5 | 66.9 | 74. | 64.8 | 73. | 64. | 64 |
|  | ¢0. | 69.0 | 63.2 | 60.8 | 69. | 66. | 64. | 61. | 64.6 |
| 1243 | 62 | 67 | 64 | 59 | 68. | 62 |  | 61 | 62 |
| 2298 | 60 | E | 58.6 | 58.3 | 63. | 59. | 62. | 61. |  |
| 01 | 58. | ธ́1.6 | 59.0 | 54.7 | 69. | 58. | 64.0 | 57.2 | 60. |
| 044 | 58. | 59.7 | 60.3 | 55.6 | 60. | 60. | 52. | 54.8 |  |
| 02 | 58. | 59 | ¢0 | 58.7 |  | 62 |  | 5 |  |
| 1175 | 57.0 | 61.0 | 58.0 | 5.2 .8 | 62.7 | 60.6 | 05 | 54.2 | , |
| 206 | 55. | 56.4 | 51.4 | 52.5 | 58.9 | 49.6 | 58.9 | 51.8 | 9.9 |
| 22 | 55.3 | 57.9 | 54.2 | 52.5 | 56.0 | 56.7 | 53.2 | 53. | 59.2 |
|  | 53. | 57. | 52. | 50. |  |  |  |  |  |
| 1611 | 51.7 | 54.2 | 51.4 | 5. | 58.7 | 53.8 | 55. | 53 | 50. |
| 522 | 51.4 | 56.0 | 51.0 | 48.6 | 55.6 | 50.7 | 57.0 | 51.4 | 56.6 |
| 03 | 53.5 | 56.0 | 53.8 | 51.4 | 61.3 | 54. | 60.6 | 48.6 | 5.2 |
| 1890 | 51. | 53 | 54 | 49. | 52.8 | . | 51.4 | 50.0 | 5 . |
| 1241 | 53.2 | 56.4 | 53.5 | 49.6 | 57.4 | 52.5 | 60.3 | 51.1 | 50.7 |
| 614 | 46.2 | 51.4 | 49.3 | 47.6 | 50.3 | 51.0 | 51.7 | 49.0 | 56.9 |
| 12 | 45.5 | 50.7 | 47.9 | 44.8 | 51.0 | 49.7 | 51.7 | 47.6 | 59.7 |
|  | 45.1 | 47.6 | 43.4 | 43.1 | 48.6 | 48.6 | 49.3 | 43.8 | 56.6 |
| 739 | 52 | 53. | 49.3 | 48.3 | 54.5 | 49.7 | 55 | 45.1 | 48.6 |

Taxonomy
Unweighted Coeficients (Cont.)

|  | 323 | 378 | 5 | 1845 | 623 | 1735 | 1243 | 2298 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 |  | 76 |  |  | 69.9 |  | 63.6 | 62.8 |  |
| 49 | 80.6 | 76.9 | 73.8 | 70.9 | 70.6 | 68. | 61.5 | 62.8 | 59.7 |
| 1854 | 79.9 | 76.2 | 73.1 | 70.2 | 69.9 | 67.4 | 60.8 | 62.1 | 60.4 |
| 1240 | 81.1 | 76. | 72.2 | 67.9 | 67.6 | 64. | 64.8 | 61.8 | 56.5 |
| 385 | 81 | 75. | 72 | 69. | 69 | 66. | 61. | 60. | 58.3 |
| 1424 | 78.5 | 76.2 | 75.2 | 70.9 | 70.6 | 64.6 | 63.6 | 61.4 | 59.7 |
| 24 | 80.6 | 77.6 | 73.1 | 71.6 | 71.3 | 66.7 | 64.3 | 63.4 | 60.4 |
| 226 | 79.7 | 74.6 | 73.6 | 70. | 70. | 67.8 | 63.4 | 63. | 60.9 |
| 888 | 78.2 | 78.0 | 74. | 72.7 | 71. | 66. | 65. | 63. | 00.1 |
| 319 | 81.1 | 80.3 | 76.4 | 72.3 | 73.2 | 64.3 | 62.7 | 60.4 | 59.4 |
| 383 | 78.5 | 77.6 | 72.4 | 68.1 | 67.8 | 63.2 | 52.2 | 58.6 | 55.4 |
| 1319 | 78.6 | 79 | 73.8 | 71. | 71. | 65.0 | 63. | 58. | 59.6 |
| 1889 | 79.9 | 74 | 72.4 | 70. | 69. | б6. | 62.2 | 61. | . 3 |
| 1022 | 80.6 | 72.7 | 71.7 | 70.2 | 69.9 | 66.0 | 61.5 | 62.8 | 59.7 |
| 483 | 82.6 | 71.3 | 73. | 70.9 | 71. | 57.4 | 63.6 | 65. | 60.4 |
| 6 | 79 | 76 | 74 | 69 | 69 | 64.8 | 63 | 59.4 | 59.1 |
| 03 | 76 | 76.2 | 73.8 | 68.8 | 67. | 64.6 | 64.3 | 60.0 | 60.4 |
| 1829 | 81.1 | 74.6 | 72.2 | 70.7 | 69.0 | 67.8 | 63.4 | 63.9 | 59.4 |
| 2423 | 80.6 | 75.5 | 72.4 | 70.9 | 69. | 64.6 | 64.3 | 61.4 | . 7 |
|  | 78.5 | 79 | 74 | 69. | 69. | 61.8 | 62. | 61 | 59.0 |
| 1248 | 77.1 | 75.5 | 74.5 | 69. | 68. | 63.9 | 65.0 | 60.7 | 61.2 |
| 020 | 78.3 | 76.1 | 75.7 | 70.9 | 09.7 | 67. | 62.7 | 62.5 | 57.2 |
| 1892 | 77.8 | 70.2 | 74.5 | 69. | 08.5 | 63. | 65.7 | 60.7 | . |
| 18 | 79 | 7 | 73.6 | 71. | 1. | 64 | 61 | 61 | 59.4 |
| 209 | 78.2 | 77.3 | 72.0 | 68.3 | 68.8 | 64.8 | 60.3 | 60.8 | 56 |
| 223 | 79.9 | 75.5 | 71.7 | 68. | 68.5 | 61.8 | 63.6 | 60.7 | 56.8 |
| 51 | 79.9 | 75.5 | 71.7 | 68. | 68. | 61.8 | 63.6 | 60. | 56.8 |
| 263 | 77.8 | 78 | 59. | 56. | 65. | 65 | 60 | 58.6 | 56 |
| 203 | 78.0 | 76.4 | 71. | 68. | 67. | 66.7 | 62.9 | 63.4 | 59 |
| 1738 | 77.5 | 76.6 | 70.6 | 66.4 | 66.7 | 62.7 | 61.7 | 59. | 56.2 |
| 201 | 78.5 |  |  | 68. | 68. | 62. | 53.6 |  | 60.4 |
| 43 | 77.6 | 76 | 72 | 67 | 57. | 67. | 04.8 | 61.8 |  |
| 479 | 77.8 | 74.8 | 73.8 | 68.8 | 67.8 | 63. | 64.3 | 60.0 | 60.4 |
| 38 | 77.0 | 76.9 | 69.9 | 68.9 | 68.7 | 63.7 | 64.2 | 56.6 | 58.0 |
| 2401 | 81.0 | 78.0 | 71.3 | 69. | 68 | 63. | 66.7 | 60.8 | 58 |
| 1891 | 78.5 | 76.2 | 70. | 67.4 | 67. | 63. | 60. | 58.6 | 55 |
| 1245 | 81.3 | 72.0 | 71.7 | 70.2 | 59.9 | 64.6 | 62.2 | 61.4 | 59.7 |
| 1898 | 82.0 | 76.8 | 75.0 | 71.3 | 71.7 | 67.6 | 66.7 | 65.0 | 61.5 |
| 917 | 78.5 | 74. | 73 | 69.5 | 69.2 | 64.6 | ¢. 8 | 61. |  |
| 1249 | 76.1 | 73.9 | 73.4 | 68.1 | 67.2 | 62.3 | 63.5 | 59.0 | 59.4 |
| 489 | 78.3 | 73.2 | 72.2 | 68.8 | 67.6 | 64.3 | 64.8 | 61.1 | 55.8 |
| 337 | 76.2 | 76.1 | 70.8 | 66.0 | 66.2 | 60.8 | 59.9 | 57.6 | 54.3 |
| 177 | 76.2 | 76.1 | 70.8 | 66.0 | 66.2 | 60.8 |  | 57.6 |  |
| 547 | 79.9 | 70 | 72.4 | 70.9 | 69.2 |  |  |  | 57.6 |

Taxonomy
Unweighted Coeficients (Cont.)

|  | 323 | 378 | 5 | 1845 | 623 | 1735 | 1243 | 2298 | 01 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1876 | 77.1 | 76.2 | 73.8 | 68.8 | 67.8 | 61.1 | 63.6 | 58.6 | 59 |
| 959 | 78.9 | 74.5 | 71.3 | 69.1 | 69.5 | 65.5 | 65.2 | 62.9 | 58.4 |
| 927 | 76.9 | 72.5 | 71.5 | 68.6 | 66.9 | 63.6 | 64.1 | 60.4 | 55.1 |
| 440 | 79.9 | 76.2 | 72.4 | 70.2 | 70.6 | 69.4 | 65.7 | 66.2 | 64.7 |
| 1247 | 74.5 | 77.1 | 71.1 | 65.9 | 66.4 | 60.3 | 61.4 | 54.9 | 56.6 |
| TR | 77.6 | 70.4 | 73.6 | 70.0 | 69.7 | 65.7 | 63.4 | 61.8 | 57.6 |
| 216 | 80.6 | 75.5 | 71.7 | 69.5 | 69.9 | 67.4 | 54.3 | 54. | 62.6 |
| 999 | 78.9 | 76.6 | 70.6 | 66.2 | 66.0 | 59.9 | 62.4 | 52.2 | 54.0 |
| 1597 | 76.2 | 73.9 | 72.2 | 67.9 | 15.2 | 64.3 | 62.7 | 61.1 | 57.2 |
| 491 | 74.1 | 73.9 | 72.2 | 67.9 | 66.9 | 63.6 | 62.7 | 59.7 | 55.4 |
| 1610 | 76.9 | 75.4 | 72.9 | 60.0 | 67.6 | 60.8 | 62.7 | 60.4 | 58.0 |
| 642 | 74.6 | 74.5 | 71.3 | 71.2 | 69.5 | 69.0 | 67.4 | 60.8 | 61.6 |
| 104 | 76.4 | 73.4 | 72.4 | 68.8 | 68.5 | 63.2 | 64.3 | 58.6 | 59.0 |
| 467 | 74.8 | 74.6 | 70.1 | 67.9 | 66.9 | 60.8 | 59.2 | 58.3 | 54.7 |
| 307 | 73.4 | 73.9 | 75.0 | 74.3 | 74.6 | 69.9 | 68.3 | 63.9 | 69.1 |
| 1827 | 72.7 | 72.5 | 69.4 | 65.4 | 64.8 | 66.4 | 62.0 | 59.0 | 58.0 |
| 69 | 74.1 | 75.4 | 72.2 | 73.6 | 73.9 | 64.3 | 69.0 | 62.5 | 64.0 |
| 1315 | 71.3 | 76.8 | 67.4 | 63.6 | 64.1 | б́1.5 | 61.3 | 61.8 | 57.2 |
| 876 | 70.8 | 76.2 | 64.8 | 64.5 | 64.3 | 64.6 | 62.2 | 57.2 | 60.4 |
| 323 | 100.0 | 63.4 | 70.8 | 70.7 | 71 | 67.1 | 66.9 | 65.3 | 65.2 |
| 378 | 63.4 | 100.0 | 64.3 | 59.7 | 61.0 | 57.7 | 58.9 | 53.1 | 56.2 |
| 5 | 70.8 | 64.3 | 100.0 | 95.0 | 94.4 | 69.4 | 60.1 | 54.1 | 66.9 |
| 1845 | 73.7 | 59.7 | 95.1 | 100.0 | 99.3 | 72.9 | 64.0 | 62.4 | 69.6 |
| 623 | 71. | 61.0 | 94.4 | 99. | 100.0 | 71.8 | 63.1 | 61.5 | 69.3 |
| 1735 | 67.1 | 57.7 | 69.4 | 72.9 | 71.8 | 100.0 | 71.1 | 68.8 | 73.2 |
| 1243 | 66.9 | 58.9 | 60.1 | $00^{4.0}$ | 63.1 | 71.1 | 100.0 | 65.7 | 73.1 |
| 2298 | 65.3 | 53.1 | 64.1 | 62.4 | 61.5 | 68.8 | 65.7 | 100.0 | 61.9 |
| 01 | 65.2 | 56.2 | 66.9 | 69.6 | 69.3 | 73.2 | 73.1 | 51.9 | 100.7 |
| 044 | 60.0 | 53.0 | 67.6 | 71.2 | 70.9 | 75.6 | ó7. 2 | 59.6 | 68.7 |
| 02 | 55.9 | 53.5 | 65.3 | 68.6 | 67.6 | 83.2 | 66.9 | 61.1 | 69.6 |
| 1175 | 64.1 | 53.9 | 51.5 | 65.5 | 64.5 | 68.3 | 82.3 | 04.3 | 72.5 |
| 206 | 52.5 | 57.1 | 54.2 | 54.3 | 53.6 | 53.2 | 59.3 | 50.0 | 55.1 |
| 1522 | 51.8 | 60.7 | 48.6 | 50.7 | 49.3 | 51.1 | 56.4 | 44.4 | 53.7 |
| 1799 | 50.4 | 60.0 | 52.1 | 51.8 | $55^{\text {c. }} 7$ | 51.1 | 60.0 | 49.3 | 53.3 |
| 1511 | 54.5 | 57.7 | 56.3 | 55.0 | 55.6 | 53.8 | 59.2 | 50.7 | 57.2 |
| 522 | 47.9 | 56.7 | 53.1 | 54.0 | 52.5 | 52.8 | 61.0 | 48.3 | 55.5 |
| 03 | 59.2 | 51.8 | 58.0 | 61.2 | 60.3 | 65.5 | 73.8 | 62.2 | 81.8 |
| 1890 | 48.6 | 58.9 | 47.6 | 50.0 | 48.9 | 51.4 | 58.2 | 43.4 | 54.0 |
| 1241 | 61.0 | 47.9 | 59.2 | 60.9 | 60.0 | 67.4 | 70.7 | 77.5 | 65.4 |
| 614 | 48.3 | 55.6 | 49.3 | 47.9 | 47.2 | 49.7 | 56.3 | 46.5 | 54.3 |
| 2412 | 48.3 | 54.2 | 47.9 | 47.9 | 47.2 | 50.3 | 59.2 | 45.8 | 55.1 |
| 1505 | 46.5 | 50.3 | 47.6 | 49.6 | 49.0 | 48.6 | 54.5 | 40.7 | 54.7 |
| 1739 | 65. | 50. |  | 6 | 60 | 68 | 5 |  |  |

Taxonomy
Unweighted Coeficients (Cont.)

|  | 044 | 02 | 1175 | 206 | 1522 | 1799 | 1611 | 522 | 03 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 61.0 | 59.7 | 57.3 | 53.5 | 54.9 | 52.8 | 54.2 | 51.0 | 53.1 |
| 049 | 60.3 | 61.8 | 56.6 | 54.2 | 55.6 | 53.5 | 54.9 | 51.7 | 54.5 |
| 1854 | 59.6 | 62.5 | 55.9 | 53.5 | 54.9 | 52.8 | 54.2 | 51.0 | 55.2 |
| 1240 | 60.7 | 53.0 | 57.7 | 54.6 | 55.3 | 54.6 | 54.9 | 52.8 | 52.8 |
| 385 | 58.1 | 60.6 | 53.7 | 54.8 | 52.6 | 54.8 | 53.3 | 52.2 | 53.7 |
| 1424 | 60.3 | 59.0 | 58.0 | 53.5 | 54.2 | 53.5 | 53.5 | 51.7 | 52.4 |
| 424 | 58.1 | 60.4 | 57.3 | 54.9 | 55.6 | 54.2 | 55.6 | 52.4 | 55.9 |
| 226 | 60.0 | 62.9 | 57.7 | 55.3 | 55.3 | 53.2 | 53.5 | 51.4 | 57.7 |
| io388 | 60.0 | 61.3 | 59.6 | 55.7 | 56.4 | 55.0 | 55.6 | 53.2 | 56.7 |
| 319 | 57.0 | 58.7 | 57.7 | 55.3 | 53.9 | 54.9 | 53.8 | 54.2 | 54.9 |
| 383 | 56.6 | 58.3 | 55.2 | 52.1 | 56.3 | 51.4 | 52.1 | 49.0 | 51.0 |
| 1319 | 61.7 | 61.4 | 57.6 | 56.5 | 57.2 | 56.1 | 54.3 | 56.1 | 53.2 |
| 1889 | 58.8 | 58.3 | 55.9 | 54.2 | 57.0 | 53.5 | 52.1 | 51.7 | 53.1 |
| 1022 | 61.8 | 59.7 | 57.3 | 53.5 | 54.9 | 52.8 | 54.9 | 51.1 | 52.4 |
| 483 | 59.6 | 59.7 | 57.3 | 56.3 | 56.3 | 54.9 | 56.9 | 52.4 | 53.1 |
| 6 | 59.3 | 59.2 | 54.6 | 52.1 | 53.6 | 51.4 | 51.4 | 51.1 | 54.6 |
| 1503 | 59.6 | 59.0 | 58.7 | 60.6 | 60.6 | 57.0 | 55.6 | 56.6 | 54.5 |
| 1829 | 59.3 | 60.1 | 57.1 | 56.7 | 56.0 | 55.3 | 52.4 | 53.5 | 52.8 |
| 2423 | 55.9 | 56.9 | 57.3 | 57.0 | 57.0 | 54.9 | 53.5 | 53.1 | 53.1 |
| 2143 | 60.3 | 57.6 | 55.9 | 52.8 | 53.5 | 52.8 | 52.8 | 51.0 | 53.1 |
| 1248 | 58.8 | 58.3 | 59.4 | 61.3 | 59.9 | 57.7 | 56.3 | 57.3 | 55.2 |
| 020 | 60.0 | 59.4 | 56.3 | 54.6 | 56.0 | 53.2 | 52.4 | 51.4 | 53.5 |
| 1892 | 58.1 | 57.6 | 59.4 | 61.3 | 59.9 | 57.7 | 56.3 | 57.3 | 55.2 |
| $1 £ 74$ | 60.7 | 58.7 | 54.2 | 53.2 | 54.6 | 52.5 | 53.8 | 52.1 | 53.5 |
| 209 | 56.0 | 58.5 | 54.6 | 51.4 | 54.3 | 51.4 | 50.7 | 49.6 | 52.5 |
| 223 | 55.1 | 55.6 | 55.2 | 52.8 | 53.5 | 52.8 | 52.1 | 51.0 | 51.0 |
| 51 | 55.1 | 55.6 | 55.2 | 52.8 | 53.5 | 52.8 | 52.1 | 51.0 | 51.0 |
| 263 | 58.1 | 59.7 | 54.5 | 52.1 | 55.6 | 52.8 | 52.1 | 51.9 | 51.7 |
| 203 | 58.6 | 57.4 | 56.4 | 54.7 | 56.8 | 53.6 | 51.8 | 52.1 | 52.9 |
| 1738 | 56.7 | 56.3 | 54.0 | 53.6 | 55.7 | 51.4 | 50.7 | 50.7 | 49.6 |
| 201 | 58.1 | 56.9 | 58.0 | 61.3 | 59.9 | 57.7 | 57.6 | 57.3 | 53.8 |
| 643 | 60.7 | 60.8 | 59.2 | 53.2 | 54.6 | 54.2 | 54.5 | 52.1 | 54.9 |
| 479 | 58.1 | 57.6 | 58.7 | 62.0 | 60.6 | 58.5 | 56.9 | 58.0 | 54.5 |
| 38 | 57.8 | 58.5 | 54.5 | 56.0 | 56.3 | 56.4 | 51.9 | 56.7 | 50.7 |
| 2401 | 56.7 | 54.9 | 58.9 | 57.9 | 58.6 | 57.9 | 53.5 | 56.7 | 52.1 |
| 1891 | 56.6 | 58.3 | 55.9 | 53.5 | 52.8 | 53.5 | 51.4 | 52.4 | 51.7 |
| 1245 | 59.6 | 59.0 | 55.9 | 53.5 | 53.5 | 52.8 | 53.5 | 51.0 | 52.4 |
| 1898 | 59.5 | 61.9 | 56.5 | 55.5 | 55.5 | 54.3 | 55.4 | 51.4 | 58.0 |
| 917 | 58.8 | 57.6 | 53.1 | 51.4 | 52.8 | 50.7 | 50.7 | 50.3 | 53.1 |
| 1249 | 57.7 | 56.5 | 57.7 | 51.8 | 58.1 | 58.8 | 55.8 | 58.4 | 53.3 |
| 489 | 57.0 | 56.6 | 56.3 | 52.5 | 53.9 | 53.5 | 51.7 | 51.4 | 52.1 |
| 337 | 55.3 | 55.2 | 54.2 | 53.2 | 53.2 | 51.1 | 49.7 | 50.7 | 48.6 |
| 177 | 56.3 | 55.2 | 54.2 | 53.2 | 53.2 | 51.1 | 49.7 | 50.7 | 18.5 |
| 547 | 59.6 | 59.0 | 55.9 | 56.3 | 55.6 | 54.9 | 52.1 | 53.8 | 4 |

Unweighted Coeficients (Cont.)

|  | 044 | 02 | 1175 | 206 | 1522 | 1799 | 1611 | 522 | 03 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1876 | 58.8 | 56.9 | 57.3 | 58.5 | 57.0 | 54.9 | 54.9 | 54.5 | 54 |
| 959 | 56.0 | 56.3 | 56.7 | 55.7 | 56.4 | 56.4 | 53.5 | 52.5 | 51.1 |
| 927 | 56.3 | 55.9 | 55.6 | 51.8 | 53.9 | 53.2 | 51.0 | 51.4 | 51.4 |
| 440 | 58.1 | 59.0 | 58.7 | 54.9 | 56.3 | 57.0 | 56.3 | 54.5 | 55.9 |
| 1247 | 54.1 | 54.6 | 55.7 | 57.6 | 57.9 | 54.7 | 53.9 | 54.3 | 51.4 |
| TR | 60.7 | 58.7 | 56.3 | 54.6 | 53.2 | 53.5 | 55.2 | 54.2 | 52.1 |
| 216 | 57.4 | 58.3 | 58.0 | 57.0 | 57.0 | 57.7 | 55.6 | 55.2 | 53.8 |
| 999 | 56.7 | 52.8 | 55.6 | 53.6 | 55.7 | 53.9 | 51.4 | 51.8 | 48.2 |
| 7597 | 58.5 | 60.1 | 53.5 | 48.9 | 50.4 | 50.4 | 47.6 | 48.6 | 52.8 |
| 491 | 58.1 | 50.4 | 54.2 | 53.2 | 55.3 | 51.8 | 51.0 | 53.5 | 51.4 |
| 1610 | 58.5 | 58.0 | 57.0 | 55.3 | 55.3 | 53.2 | 51.7 | 51.4 | 53.5 |
| 642 | 59.7 | 59.9 | 61.0 | 56.4 | 57.9 | 57.9 | 54.2 | 56.0 | 56.0 |
| 104 | 60.3 | 60.4 | 58.0 | 51.4 | 54.2 | 52.8 | 51.4 | 51.0 | 53.8 |
| 467 | 55.6 | 58.7 | 52.8 | 52.5 | 52.5 | 50.7 | 50.3 | 48.6 | 51.4 |
| 307 | 60.7 | 62.2 | 62.7 | 58.9 | 56.0 | 58.2 | 58.7 | 55.6 | 61.3 |
| 1827 | 60.0 | 62.9 | 60.6 | 49.6 | 56.7 | 49.6 | 53.8 | 50.7 | 54.2 |
| 69 | 62.2 | 60.1 | 55.7 | 58.9 | 53.2 | 58.2 | 55.9 | 57.0 | 60.6 |
| 1315 | 54.8 | 53.1 | 54.2 | 51.8 | 53.2 | 55.3 | 53.1 | 51.4 | 48.6 |
| 876 | 57.4 | 56.9 | 56.6 | 59.9 | 59.2 | 59.9 | 60.4 | 56.6 | 55.2 |
| 323 | 60.0 | 55.9 | 64.1 | 52.5 | 51.8 | 50.4 | 54.5 | 47.9 | 59.2 |
| 378 | 53.0 | 53.5 | 53.9 | 57.1 | 60.7 | 60.0 | 57.7 | 56.7 | 51.8 |
| 5 | 67.6 | 65.3 | 61.5 | 54.2 | 48.6 | 52.1 | 56.3 | 53.1 | 58.0 |
| 1845 | 71.2 | 68.6 | 05.5 | 54.3 | 50.7 | 51.8 | 55.0 | 54.0 | 61.2 |
| 623 | 70.9 | 67.6 | 64.5 | 53.6 | 49.3 | 50.7 | 5.5 .6 | 52.5 | 60.3 |
| 1735 | 75.6 | 83.2 | 68.3 | 53.2 | 51.1 | 51.1 | 53.8 | 52.8 | 65.5 |
| 1243 | 67.2 | 66.9 | 82.3 | 59.3 | 56.4 | 60.0 | 59.2 | 61.0 | 73.8 |
| 2298 | 59.6 | 61.1 | 64.3 | 50.0 | 44.4 | 49.3 | 50.7 | 48.3 | 62.2 |
| 01 | 68.7 | 69.6 | 72.5 | 55.1 | 53.7 | 53.3 | 57.2 | 55.5 | 81.8 |
| 044 | 100.0 | 79.4 | 73.1 | 57.1 | 55.6 | 54.9 | 60.0 | 57.5 | 66.4 |
| 02 | 79.4 | 100.0 | 71.1 | 55.3 | 52.5 | 50.4 | 55.9 | 54.2 | 59.0 |
| 1175 | 73.1 | 71.1 | 100.0 | 58.6 | 57.9 | 57.9 | 62.0 | 58.9 | 76.6 |
| 206 | 57.1 | 55.3 | 58.6 | 100.0 | 78.6 | 92.1 | 78.0 | 92.1 | 55.7 |
| 1522 | 55.6 | 52.5 | 57.9 | 78.6 | 100.0 | 79.1 | 75.9 | 80.7 | 52.9 |
| 1799 | 54.9 | 50.4 | 57.9 | 92.1 | 79.1 | 100.0 | 31.6 | 93.6 | 52.9 |
| 1611 | 60.0 | 55.9 | 52.0 | 78.0 | 75.9 | 81.6 | 100.0 | 78.2 | 58.5 |
| 522 | 57.5 | 54.2 | 58.9 | 92.1 | 80.7 | 73.6 | 78.2 | 100.0 | 53.2 |
| 03 | 66.4 | 69.0 | 76.6 | 55.0 | 52.9 | 52.9 | 58.5 | 53.2 | 100.7 |
| 1890 | 58.2 | 54.2 | 58.9 | 78.6 | 94.3 | 78.7 | 76.8 | 80.1 | 54.6 |
| 1241 | 67.2 | 65.2 | 70.7 | 55.4 | 49.6 | 53.2 | 50.4 | 52.1 | 67.1 |
| 614 | 54.1 | 52.4 | 56.3 | 78.0 | 73.8 | 80.1 | 86.7 | 78.2 | 57.7 |
| 2412 | 55.6 | 51.7 | 59.9 | 83.7 | 77.3 | 85.1 | 88.8 | 84.5 | 55.6 |
| 1505 | 56.6 | 50.7 | 56.6 | 80.3 | 82.4 | 81.0 | 86.1 | 80.4 | 56.6 |
| 1739 | 63.7 | 65.7 | 70.4 | 46.8 | 41.1 | 44.0 | 47.6 | 44.4 | 69.7 |

Taxonomy

Unweighted Coeficients (Cont.)

|  | 1890 | 1241 | 614 | 24 | 1505 | 1739 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 920 | 51.0 | 52.1 | 49.3 | 46.5 | 44.8 | 49.3 |
| 049 | 51.7 | 52.8 | 48.6 | 45.8 | 45.5 | 50.7 |
| 1854 | 51.0 | 53.5 | 47.9 | 45.1 | 44.8 | 51.4 |
| 1240 | 52.1 | 52.5 | 49.7 | 48.3 | 45.8 | 49.7 |
| 385 | 49.3 | 51.1 | 49.6 | 46.7 | 43.5 | 49.6 |
| 1424 | 50.3 | 52.8 | 47.2 | 47.2 | 44.1 | 48.6 |
| 424 | 51.7 | 53.5 | 50.7 | 47.9 | 46.2 | 50.7 |
| 226 | 52.1 | 53.9 | 50.3 | 47.6 | 45.8 | 53.8 |
| 1888 | 52.5 | 54.3 | 51.4 | 48.6 | 46.9 | 51.4 |
| 19 | 50.3 | 53.2 | 48.3 | 48.3 | 44.4 | 52.4 |
| 383 | 52.4 | 51.4 | 47.2 | 45.8 | 44 | 47.2 |
| 1319 | 53.2 | 50.4 | 47.9 | 47.9 | 45.4 | 48.6 |
| 1889 | 54.5 | 49.3 | 47.9 | 46.5 | 44 | 48.6 |
| 1022 | 51.7 | 52.1 | 48.6 | 47.2 | 45.5 | 50.7 |
| 483 | 51.7 | 52.8 | 50.7 | 49.3 | 47.6 | 52.1 |
| 6 | 50.4 | 51.8 | 47.9 | 45.1 | 44.1 | 48.6 |
| 1503 | 58.7 | 51.4 | 55.6 | 52.8 | 50.3 | 49.3 |
| 1829 | 53.5 | 51.1 | 48.3 | 46.9 | 44.4 | 50.3 |
| 2423 | 54.5 | 49.3 | 47.9 | 47.9 | 45.5 | 48.6 |
| 2143 | 49.7 | 52.1 | 47.9 | 46.5 | 43.4 | 49.3 |
| 1248 | 58.0 | 52.1 | 54.9 | 53.5 | 51.0 | 50.0 |
| 220 | 52.1 | 54.6 | 49.7 | 46.9 | 44.4 | 51.7 |
| 1892 | 58.0 | 52.1 | 54.9 | 53.5 | 51.0 | 50.0 |
| 1874 | 50.7 | 51.8 | 49.0 | 46.2 | 44.4 | 50.3 |
| 209 | 51.8 | 52.1 | 46.5 | 45.1 | 41.3 | 51.4 |
| 223 | 50.3 | 51.4 | 45.8 | 45.8 | 44.1 | 48.6 |
| 51 | 50.3 | 51.4 | 45.8 | 45.8 | 44. | 48.6 |
| 263 | 51.7 | 52.1 | 47.2 | 45.8 | 44.1 | 47.9 |
| 203 | 52.9 | 54.7 | 46.8 | 46.1 | 45.1 | 51.1 |
| 1738 | 51.1 | 54.3 | 45.8 | 45.1 | 43.4 | 50.7 |
| 201 | 56.6 | 50.7 | 54.9 | 53.5 | 51.0 | 48.6 |
| 643 | 51.0 | 53.9 | 49.7 | 48.3 | 43.8 | 50.3 |
| 479 | 57.3 | 51.4 | 55.6 | 54.2 | 51.7 | 49.3 |
| 38 | 53.0 | 51.5 | 45.9 | 45.9 | 44.9 | 46.7 |
| 2401 | 56.0 | 52.9 | 47.9 | 49.3 | 46.9 | 50.0 |
| 1891 | 49.0 | 50.7 | 47.9 | 46.5 | 42.1 | 49.3 |
| 1245 | 50.3 | 52.1 | 47.2 | 45.8 | 44. | 50.7 |
| 1898 | 52.2 | 57.7 | 50.4 | 48.2 | 47.1 | 55.0 |
| 917 | 49.0 | 51.4 | 46.5 | 43.8 | 41.4 | 49.3 |
| 1249 | 56.2 | 50.0 | 55.8 | 54.3 | 50.4 | 47.8 |
| 489 | 50.3 | 52.5 | 46.2 | 46.2 | 44.4 | 48.3 |
| 337 | 49.3 | 53.2 | 46.2 | 44.8 | 43.1 | 48.3 |
| 177 | 49.3 | 53.2 | 46.2 | 44.8 | 43.1 | 48.3 |
| 547 | 51.7 | 50.7 | 47.9 | 46.5 | 44.1 | 48.6 |

Taxonomy
Unweighted Coeficients (Cont.)

|  | 1890 | 1241 | 614 | 2412 | 1505 | 1739 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1876 | 55.2 | 50.0 | 52.1 | 50.7 | 48.3 | 47.9 |
| 959 | 53.2 | 53.6 | 46.5 | 47.9 | 46.9 | 50.0 |
| 927 | 50.0 | 51.8 | 45.5 | 45.5 | 45.1 | 47.6 |
| 440 | 53.1 | 55.6 | 52.1 | 50.7 | 45.5 | 53.5 |
| 1247 | 56.4 | 49.6 | 51.8 | 50.4 | 47.2 | 46.1 |
| TR | 48.6 | 51.1 | 51.7 | 48.3 | 45.8 | 50.3 |
| 216 | 53.8 | 53.5 | 52.8 | 51.4 | 47.6 | 51.4 |
| 999 | 51.8 | 52.9 | 45.8 | 45.8 | 44.8 | 49.3 |
| 1597 | 46.5 | 54.6 | 44.1 | 42.7 | 39.6 | 50.3 |
| 491 | 52.1 | 51.8 | 49.0 | 46.2 | 43.8 | 48.3 |
| 1610 | 51.4 | 53.2 | 46.2 | 45.5 | 45.1 | 52.4 |
| 642 | 53.9 | 56.4 | 51.4 | 50.7 | 47.6 | 53.5 |
| 104 | 54.5 | 53.5 | 49.3 | 47.9 | 43.4 | 49.3 |
| 467 | 49.3 | 49.6 | 47.6 | 44.8 | 43.1 | 48.3 |
| 307 | 52.8 | 57.4 | 50.3 | 51.0 | 48.6 | 54.5 |
| 1827 | 54.2 | 52.5 | 51.0 | 49.7 | 48.6 | 49.7 |
| 69 | 51.4 | 60.3 | 51.7 | 51.7 | 49.3 | 55.2 |
| 1315 | 50.0 | 51.1 | 49.0 | 47.6 | 43.8 | 45.1 |
| 876 | 58.0 | 50.7 | 56.9 | 59.7 | 56.6 | 48.6 |
| 323 | 48.6 | 61.0 | 48.3 | 48.3 | 46.5 | 65.7 |
| 378 | 58.9 | 47.9 | 55.6 | 54.2 | 50.3 | 41.5 |
| 5 | 47.6 | 59.2 | 49.3 | 47.9 | 47.6 | 58.3 |
| 1845 | 50.0 | 00.9 | 47.9 | 47.9 | 49.6 | 60.7 |
| 623 | 48.9 | 60.0 | 47.2 | 47.2 | 49.0 | 60.6 |
| 1735 | 51.4 | 67.4 | +9.7 | 50.3 | 48.6 | 68.5 |
| 1243 | 58.2 | 70.7 | 56.3 | 59.2 | 54.5 | 67.6 |
| 2298 | 43.4 | 77.5 | 46.5 | 45.8 | 40.7 | 81.9 |
| 01 | 54.0 | 65.4 | 54.3 | 55.1 | 54.7 | ¢\%. 7 |
| 044 | 58.2 | 67.2 | 54.1 | 55.6 | 56.6 | ن3. 7 |
| 02 | 54.2 | 65.2 | 52.4 | 51.7 | 50.7 | 65.7 |
| 1175 | 58.9 | 79.7 | 56.3 | 59.9 | 56.6 | 70.4 |
| 206 | 78.6 | 55.4 | 78.0 | 83.7 | 80.3 | 46.8 |
| 1522 | 94.3 | 49.6 | 73.8 | 77.3 | 82.4 | 41.1 |
| 1799 | 78.7 | 53.2 | 80.1 | 85.1 | 81.0 | 44.0 |
| 1611 | 76.8 | 50.4 | 86.7 | 88.8 | 86.1 | 47.6 |
| 522 | 80.1 | 52.1 | 78.2 | 84.5 | 30.4 | 44.4 |
| 03 | 54.6 | 67.1 | 57.7 | 55.6 | 56.6 | 69.7 |
| 1890 | 100.0 | 50.0 | 76.8 | 78.9 | 83.9 | 43.0 |
| 1241 | 50.0 | 100.0 | 46.8 | 49.6 | 47.9 | 88.7 |
| 614 | 76.8 | 46.8 | 100.0 | 93.8 | 83.3 | 46.2 |
| 2412 | 78.9 | 49.6 | 93.8 | 100.0 | 88.2 | 45.5 |
| 1505 | 83.9 | 47.9 | 83.3 | 88.2 | 100.0 | 41.0 |
| 1739 | 43.0 | 38.7 | 46.2 | 45.5 | 41.0 | 100.0 |

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[^0]:    critic who tates into account all of the recent deveiopments in trxtual criticism should recoznize the existence of only three Eext-types, riz., the Egyptian, 3 zantine, and $D$ tents. See his "Semerkungen zu den gegenwärtigen : 0 gifichieiten textkritischer Arbeit aus dnlass einer Untersuchung zum Cäsarea- Iext der kathoiischen Briefe," sTS i7 (i970):3.

    ## 1"Significance of the Papyri," ?. 341.

    2
    Ibid., p. 344.
    3
    ${ }^{3}$ Lagrange, Kubo, Gallagher, and Richards (see footnotes above for the biblió,raphical references) have all pointed out serious flaws in von Soden's classification of the Greek manuscripts of the Cathoiic Epistles.

[^1]:    Text-critical methodology is an oncoing process. The efenct to ciassify manuscripts nay be tracad to tine besinning oi modera =extiai
    $l_{\text {For }}$ a lengthy eriticis. of won Soden's wor't, see H. C. Moskier, "Von Soden's Text of the Ne: Eeseament," ithS ly (i913-14): 307-26.
    ${ }^{2}$ CE. Richarus, Elassitization, P. 14.
    3 Kurzgefascte iiste, ?F. 37-202.
    KKenneth W. Clark, Eight American Pramapostoloi (Chicaso: University of Chicagc Press, i9ii), pp. צitioj.
    ${ }^{5}$ Kubo kindy lent me 9 of his personai unpublished collations.
    ${ }^{6}$ K. Lake and $S$. Vew, Six Collations of New Testanent Ianuscripes (Cambridge: Harvard Liniversisy Press, 1932), pp. 160-62.

    7E. H. Scrivener, An Exact Transcript of the Codez Auriensis (Cambridge: Deighton, 2ell and Cc., 1859), pp. 453-57.

[^2]:    ${ }^{1}$ Richards, "A Critique of a Ners Testament Text-Critical Metiod-ology--The Claremont Proizle Method," JBL 96 (1977): 556.
    ${ }^{2}$ Both YcReynolds and Wisse recognized that this point Uf departure was not ideal. Nisse indicates this when he wrices, "How could one be certain chat an alleged group supported a variant readina befure existence of the group had been proven, and ail the memocrs of the group had been taken into account? So alternative presented itself apart Erom using tentative group definition borrowed from the students of manuscript sroups in the past" ("The Claremont profile Vethod," pp. 76-77).

[^3]:    ${ }^{1}$ Classificarion, p. 197.
    ${ }^{2 " T}$ Textual Relationsinips in Jude," p. 279.
    ${ }^{3}$ Classification, pp. 156, 157, 196-48.

