A Genealogical History of the Greek Text of the New Testament

Volume 24

A Genealogical History of the Greek Text of the Second Epistle of John

By

James D. Price

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PREFACE

My interest in textual criticism was first aroused when I studied the subject in seminary in the 1950s, and my interest in tree-diagraming (also called *stemmatics*) was first awakened when, in the 1960s, I learned to apply it to grammatical analysis and to computer aids for translation. I learned that the method works best when applied always to the most deeply imbedded unanalyzed element—that is, the element at the lowest hierarchic level. When I began using tree-diagraming techniques to teach Hebrew grammar and syntax in the 1970s, it occurred to me that the same analytic principles would logically apply to textual criticism, and that just as these principles could be implemented by computer programs for grammatical and syntactical analysis of language, so also, they could be implemented for the genealogical analysis of textual criticism. So began a lifetime of research and experimentation to create a computer program for reconstructing the genealogical history of an ancient text based on genealogical principles and tree-diagraming.

Earlier textual scholars had determined that the key to the genealogical history of a text lies in those places in the text where its manuscript copies differ, and that the percentage of agreement between two manuscript copies at those places of variation is a measure of their genealogical affinity. I call that percentage of agreement *quantitative affinity*. Gradually over time I realized that the variant readings in a manuscript are a record of its genealogical history; its variant readings are the accumulation of the inherited genetic mutations of all its ancestor exemplars, and its variants constitute a kind of genetic DNA code. One must learn to read the history of a manuscript from its genetic code. Quantitative affinity was one of the leading principles guiding my earlier research and computer implementation.

Eventually I also realized that a manuscript inherits the unique mutant variants of its parent exemplar and only its sibling sister manuscripts share those same variant readings. That collection of variants peculiar to sibling sister manuscripts serves as their genetic marker—a kind of sibling gene. Every manuscript has a marker by which its sister manuscripts may be identified. For lack of a better term, I call that marker a *sibling gene*. Now I am not naïve enough to suppose that in a collection of extant manuscripts every *sibling gene* marks real sister manuscripts, although it often

does; but what it actually marks are nearest relative manuscripts having a recoverable nearest common ancestor exemplar. The presence of the sibling gene assures true genetic relationship and a consistent line of genealogical descent.

This work brings together both quantitative affinity and the sibling gene, working in harmony with tree diagraming methodology, to reconstruct parent exemplars one at a time, always for the most remote unreconstructed branch—that is, the most deeply imbedded branch, being at the lowest hierarchy or the most recent generation—to reconstruct the genealogical history of the text of an ancient document one branch at a time. The principles and analytical methods of this theory have been implemented and tested on computer software which I call Lachmann-10. That is what this work is all about.

James D. Price

Chattanooga, TN

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CHAPTER 1 INTRODUCTION

This book is the twenty-fourth in a series of studies regarding the genealogical history of the text of the Greek New Testament. Volume 1 provided the genealogical history of the Greek text of the Gospel of Matthew; this volume does the same for the Second Epistle of John. The first volume provides an introduction to textual criticism, a review of the various textual critical theories and methodologies, a description of a genealogical theory of textual criticism along with its methodology. Readers not familiar with that volume should read at least the first four chapters of that study before going further, because this work presumes the reader has that informed background. What follows is a brief summary of those chapters.

Textual Criticism

Textual criticism is the branch of literary science which studies surviving copies of ancient literature¹ with the intent of determining the original form of a literary composition.² The problem is that surviving copies of a composition differ because of scribal errors accumulated during the copying history of the composition. At certain places in the text of a composition, existing copies may differ, one having this reading, another having that reading, and yet another having the reading originally written by the author. Such places are called places of variation, and such differing readings are called textual variants. Every place of variation has at least two textual variants.

Because every manuscript is a copy of some earlier copy (exemplar), intuitively one imagines the history of the manuscripts of a composition to be like a family tree. So initially textual scholars of classical literature took this approach with some measure of success. However, when it came to the text of the Greek New Testament, scholars despaired and regarded the genealogical

¹ Literature composed before the invention of printing, copies of which exist only in handwritten documents. A handwritten copy is referred to as a manuscript.

² The original text of a composition, that is, the actual words written by the hand of its author, is referred to as its autographic text.

approach as much too complex because of the large number of manuscripts and large number of variants. So, various theories and methodologies were developed to work with the variants at each place of variation to decide which one is more likely original. But with the development of high-speed computers, the complex data processing is no longer a problem; all that is needed is a viable genealogical theory together with its associated programable methodology. That's where this project came on the scene.

The present genealogical theory is based on several known facts about the relationship of manuscripts and variant readings. (1) It is a fact that the variants in a manuscript consist of all the uncorrected scribal errors of its ancestral exemplars;³ this collection of variants may be regarded as the genealogical history of the manuscript, and may be likened to its DNA code. In addition, the variants introduced by the parent exemplar of a manuscript may be regarded as its sibling gene. So, every manuscript has its own DNA and sibling gene, and these data are recoverable from the manuscript database. (2) Sibling manuscripts may be identified by mutual sibling genes, or by greatest quantitative affinity, 4 or by both. (3) Sibling manuscripts are daughters of the same parent exemplar the readings of which may be recovered from the consensus of its daughters' readings, except where no consensus exists. Sibling daughter manuscripts inherit all the readings of their parent exemplar except where their own scribes initiate a new one. In case of ambiguity (where no consensus exists), one variant will have been inherited and the other will have been newly initiated. Inherited variants have history and may be identified by the principle of delayed ambiguity,⁵ whereas newly initiated variants have no history and fail the test of delayed ambiguity. (4) A reconstructed exemplar may stand in place of all its descendants in the database, and function as their representative in that stage of reconstructing the genealogical history. (5) Iteration of the above steps will converge genealogical stemma into a single exemplar representing the autographic text. The actual methodology as described in the first volume is more complex than the above, but the above is sufficient to describe the basic principles.

³ An exemplar is a manuscript from which other manuscripts were copied.

⁴ Quantitative affinity is a measure of how similar two manuscripts are to one another.

⁵ The principle of delayed ambiguity says that the inherited variant will be a reading of a sister exemplar when it develops.

The Problem of Mixture

Mixture occurred when a scribe copied from more than one exemplar. Critics of the genealogical method assert that mixture creates an irresolvable complication. But, as it turned out, as far as the reconstructing procedure is concerned, a reading copied from a secondary exemplar is no different than a variant newly initiated by the scribe either by mistake or intent. Both are uninherited from the primary exemplar; the only difference is that a newly initiated variant has no history, whereas a variant borrowed by mixture has a history, but a history outside the genealogical descent of the primary exemplar. So, mixture is not a problem for the reconstruction methodology described above. The sources of mixture in genealogical history may be of interest in some cases. A separate algorithm of the software finds the most likely source of every variant introduced by mixture rather than by scribal error or intent.

The Database Used

The database used in this project is derived from an expansion of the Nestle-Aland 27th edition of the *Greek New Testament*⁶ hereafter referred to as NA-27. The variations of the text are listed at the bottom of each page, providing the verse number where the variation occurs, the associated symbol indicating the kind of variation, the alternate readings that occur there, and a list of witnesses⁷ that contain the given alternate reading. The list of witnesses is provided in compressed form in order to avoid as much repetition as possible. This compressed form is useful for conserving paper and ink, and is relatively easy for scholars to follow. But the computer software must have every item of data explicitly recorded, that is, there must be a record of every witness to the text under study, and a record of which variant reading each witness has at every place of variation. This necessity requires the NA-27 database to be unpacked and expanded. Until recently the NA-27 database existed only in printed form, and expanding the data into the form needed by the genealogical software was a complex and time-consuming task.⁸ However, the database is now

⁶ Novum Testamentum Graece (Stuttgart: Deutsche Bibelgesellschaft, 1997).

⁷ The witnesses consist of individual manuscripts, translations, and patristic quotations.

⁸ All my prior research with the genealogical software was done with data manually extracted from the already expanded database in the United Bible Society's *Greek New Testament*.

available in digital electronic form in the *Stuttgart Electronic Study Bible*. ⁹ That form of the database is capable of being expanded and unpacked electronically.

The expanded database consists of two separate files, on containing a list of every witness together with its name, date, language, and content. The second file is a list of every place of variation in the NA-27 database, the chapter and verse number where the variation occurs, the Greek text of each variant at that place of variation, along with a list of witnesses containing the given variant.

The present program, called Lachmann-10 herein, is written in the Turbo Pascal 7.0 programming language intended for IBM compatible machines with extended memory. The size of the problems it can handle is flexible and is limited only by the amount of RAM available and the speed of the machine [up to a maximum of 2,000 variation units and 2,000 manuscripts]. Large problems require a reasonable amount of time to converge on a solution. The next chapter describes the genealogical history of the extant witnesses to the Greek text of the Second Epistle of John.

⁹ Christof Hardmeier, Eep Talstra, and Bertram Salzmann, *The Stuttgart Electronic Study Bible* (Stuttgart, Germany: The German Bible Society, 2004); used with permission.

CHAPTER 2 WITNESSES TO THE TEXT OF 2 JOHN

The witnesses¹ to the text of the Book of 2 John used in this study are those derived from the electronic form of the textual apparatus of the NA-27 edition of the Greek New Testament as contained in the *Stuttgart Electronic Study Bible*² as edited and modified for the purposes of this project. They consist of 75 existing witnesses³ of various types:

(1) Papyrus manuscripts	1
(2) Uncial manuscripts	9
(3) Minuscule manuscripts	37
(4) Lectionary manuscripts	2
(5) Latin Versions	2
(6) Egyptian Versions	5
(7) Syriac Versions	3
(8) Greek Church Fathers	2
(9) Latin Church Fathers	6
(10) Printed Editions	8^4

The witnesses to the text of an ancient document must have several characteristics before a reasonably reliable reconstruction of its genealogical history can be made. Among these are (1) number of witnesses, (2) date, (3) completeness, (4) limited variableness, (5) commonness of text, and (6) genealogical affinity. These characteristics of the available witnesses to the text of 2 John are discussed below and are shown to be suitable for a reasonable reconstruction of its textual history.

¹ I use the term witness because the reconstruction of genealogical history derives evidence not only from extant manuscripts but also from ancient translations and quotations from church fathers. In addition, a few printed editions are involved although not for reconstruction purposes.

² Christof Hardmeier, Eep Talstra, and Bertram Salzmann, *The Stuttgart Electronic Study Bible* (Stuttgart, Germany: The German Bible Society, 2004).

³ Appendix A lists all the extant witnesses by name, date, language, content, number of readings, and percentage of completeness.

⁴ Four editions of the Latin Vulgate: vg^cl, cg^s, vg^st, and vg^ww; Scrivener's TR; Hodges-Farstad HF; Robinson-Pierpont's RP; and NA27. These do not contribute to reconstructing the stemma.

Number of Witnesses

Contrary to the number of available witnesses to the texts of ancient classical literature, there are approximately 2,328 existing Greek manuscripts of the Gospels, including about 178 fragments.⁵ This does not include the witnesses of the ancient translations and church fathers. This study makes use of the 75 witnesses to the Book of 2 John recorded in the NA-27 apparatus which includes all the ancient papyri witnesses and most of the existing manuscripts dating before the ninth century and a good sample of those from later times. This number includes the consensus witness of the many manuscripts of the text used in the Greek speaking Byzantine churches together with a number of manuscripts related to the Byzantine text. Also, it contains the consensus witness of the many manuscripts of the Latin Vulgate and the individual witness of four different printed editions of the Vulgate. The various Old Latin translations also are represented by a consensus of a number of manuscripts of each of these individual translations. Consequently, the consensus witnesses bring many additional manuscripts indirectly into the reconstruction process. There is good reason to believe that there are sufficient witnesses to the text of the Book of 2 John to reconstruct its genealogical history.

Date

While it is possible to reconstruct the genealogical history of a text without the benefit of dates, they are very helpful for accurately locating scribal activity in real history. The dates of the witnesses to 2 John range from the third to the twentieth centuries.⁶ Table 2.1 and its associated graph display the reasonably good distribution of the witnesses by date.

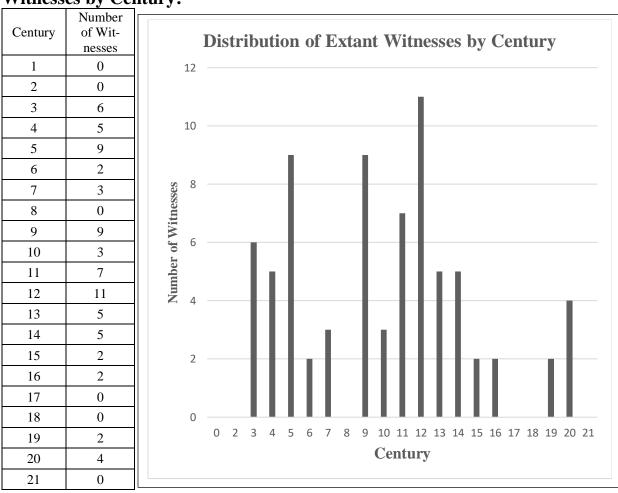
Completeness

Many of the witnesses are fragmentary, not all their text having survived the passage of time. Only 51 of the 75 witnesses have 96-100% of their text complete, and only 59 have a text 80% or more complete; thus, completeness is significant for this study. Table 2.2 and its associated graph display the distribution of completeness for the witnesses used in this study.

⁵ Aland and Aland, p. 83.

⁶ The witnesses in the 19th to the21st centuries are printed editions that do not contribute to the reconstruction of the genealogical history.

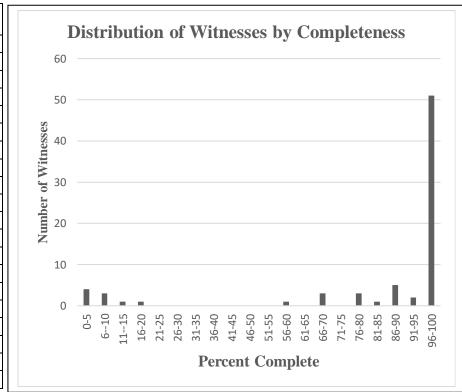
Table 2.1: Distribution of Extant Witnesses by Century:



Completeness is important for the reconstruction of the textual history, because the computer depends on minimal difference between witnesses to determine quantitative affinity. Consequently, the computer reconstructed the genealogical history on the basis of witnesses having at least 80% of their text complete; the more fragmentary witnesses are added to the genealogical tree where they best fit after the tree is constructed. The fragmentary witnesses are still important and should not be excluded from the study because they contribute to establishing fixed dates in the textual history.

Table 2.2
Distribution of Witnesses
by Completeness:

by Completeness.		
% Complete	Number of Witnesses	
0-5	4	
6-10	3	
11-15	1	
16-20	1	
21-25	0	
26-30	0	
31-35	0	
36-40	0	
41-45	0	l
46-50	0	l
51-55	0	l
56-60	1	l
61-65	0	l
66-70	3	l
71-75	0	l
76-80	3	l
81-85	1	١
86-90	5	
91-95	2	
96-100	51	



Because many of the witnesses are fragmentary, it is of interest to know the distribution of those witnesses having 80% or greater completeness. They are the ones that contribute to the reconstruction of the genealogical history. Table 2.3 and its associated graph display the distribution of these witnesses. It is evident that numerous contributing witnesses are from as early as the fourth century, so a reasonably good reconstruction can be expected.

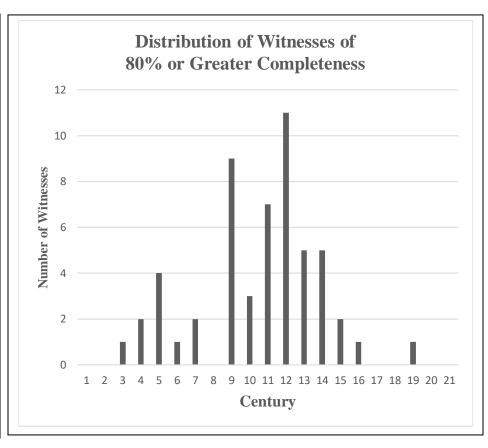
Limited Diversity

The more diverse the text the more difficult the reconstruction of its textual history is. In the overall picture, all witnesses to 2 John agree in over 90% of the text. The places of variation and the number of variants at those sites provide the data for reconstruction. However, even so, the number of places of variation and the number of variants constitute a limit to what can be reconstructed because of the magnitude and complexity of the problem.

Table 2.3
Distribution of Witnesses of 80% or Greater Completeness

by Century

by Century		
Century	Num. of	
	Witnesses	
1	0	
2	0	
3	1	
4	2	
5	4	
6	1	
7	2	
8	0	
9	9	
10	3	
11	7	
12	11	
13	5	
14	5	
15	2	
16	1	
17	0	
18	0	
19	1	



But modern technology has expanded that limit to where reconstruction is now possible for texts the size and diversity of 2 John. The NA-27 apparatus records 30 places of variation⁷ for the Book of 2 John with a total of 72 variant readings distributed among them.⁸ This averaged out to 2.4 variants per place of variation. In earlier decades, this amount of information would have been impossible to manually process, but not so today; my desktop computer provides complete solutions to problems this size in just a matter of minutes. Table 2.4 and its associated graph display

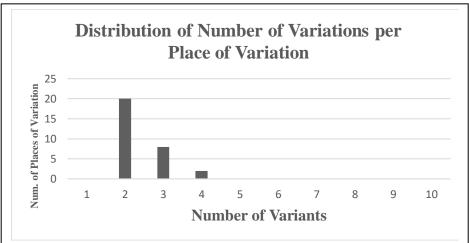
⁷ Of course, there are more places of variation than this, but the editors of the NA-27 text have weeded out those that are insignificant for reconstruction and meaning.

⁸ Appendix B provides a map showing where the places of variation occur in the text by chapter and verse.

the distribution of the number of variations per place of variation. For example, 20 places of variation have only two variations whereas only two places of variation have four variations.

Table 2.4
Distribution of Number of Variations per Place of Variation

701 1 1400		_
Number of variants	Number of Places of Variation	
1	0	l
2	20	l
3	8	l
4	2	l
5	0	l
6	0	l
7	0	l
8	0	l
9	0	l
10	0	l
Total =	30	L



However, a few maverick witnesses occur whose diversity obscures their genealogical affinity. These witnesses skew the reconstruction of the stemma and for this reason are excluded from the process but are added to the completed stemma where they best fit.

The NA-27 apparatus records seven different types of variations to the text. Table 2.5 displays the distribution of these types of variation for the Book of 2 John. While the type of variation has no significance for the reconstruction process, the information is provided for those who are interested.

Table 2.5
Distribution of Variation Type

Omit a word	2
Omit a phrase	1
Alternate word	15
Alternate words	7
Transposed words	1
Added word or phrase	4
Other	0
Total =	30

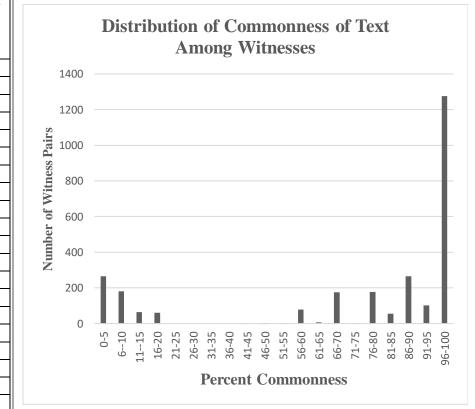
Commonness of Text

Commonness is a measure of the percentage of text two witnesses have in common. When two witnesses both have complete texts, that is, they are not fragmentary, having readings at every place of variation, they have 100% commonness, regardless of the agreement or disagreement of their readings.

Fragmentary witnesses, however, are less than complete and may actually have no commonness of text. For example, witness A may be 40% complete, lacking the text for the last 60% of the places of variation, and witness B may be 40% complete, lacking the text for the first 60% of the places of variation; as a result, the two witnesses have no commonness of text. The greater the commonness of text two witnesses have the greater potential they have for genealogical affinity. Table 2.6 and its associated graph display the distribution of commonness each witness shares with every other witness for the Book of 2 John.

Table 2.6
Distribution of Commonness of
Text among Witnesses

	, , , , , , , , , , , , , , , , , , , ,	
	Number	
	of wit-	
% Common-	ness	
ness	pairs	
0-5	265	
6-10	180	
11-15	64	
16-20	61	
21-25	0	
26-30	0	
31-35	0	
36-40	0	
41-45	1	
46-50	3	
51-55	1	
56-60	79	
61-65	7	
66-70	176	
71-75	2	
76-80	177	
81-85	56	
86-90	266	
91-95	102	
96-100	1,275	



Quantitative Affinity

Quantitative affinity⁹ is a measure of how strongly two witnesses are genealogically related. Witnesses are genealogically related when they have many of the same readings at their shared places of variation. Quantitative affinity is determined by the number of places of variation where the witnesses have the same reading divided by the number of places of variation the witnesses have in common. For example, if witness A and witness B have 1,000 places of variation in common, and in 952 places they have the same reading, the quantitative affinity of A to B is $952 \div 1,000 = 0.952$ or 95.2%. Table 2.7 and its associated graph display the distribution of quantitative affinity among all the pairs of witnesses for the Book of 2 John.

It is evident that many of the extant witnesses to 2 John have relatively strong quantitative affinity with one another. These data are skewed because of the many fragmentary witnesses. A better picture of the significant affinity is that which is among witnesses having 80% content or greater. These witnesses are the ones used to reconstruct the genealogical history. Table 2.8 and its associated graph display the distribution of quantitative affinity among witnesses having 80% content or greater. This suggests that reconstruction of the genealogical history is reasonably feasible.

Genealogical Affinity

Genealogical affinity among witnesses occurs when they share a common sibling gene. The sibling gene of a witness consists of the variants initiated in its parent exemplar. This information is derived from the database as the variants two witnesses share that occur a minimum number of times in the database.

Conclusion

There are sufficient witnesses to the text of the Book of 2 John with dates distributed over the historical period of interest, being sufficiently complete, having relatively limited diversity, and having ample mutual commonness and strong genealogical affinity. There is good reason to expect that the genealogical history derived from these witnesses will be a good approximation of the actual textual history of the book.

⁹ Quantitative affinity is supplemented by the sibling gene to affirm sibling relationship.

Table 2.7
Distribution of Quantitative Affinity

Among all Witnesses

mong (uii vvitiitibb
%	Number of
Affinity	Witnesses
0-5	411
6-10	0
11-15	0
16-20	0
21-25	0
26-30	0
31-35	13
36-40	84
41-45	62
46-50	240
51-55	119
56-60	297
61-65	206
66-70	244
71-75	150
76-80	193
81-85	127
86-90	233
91-95	96
96-100	300

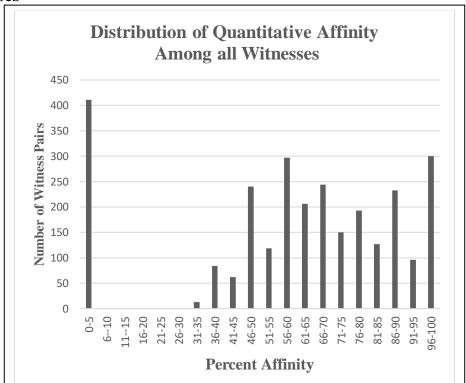
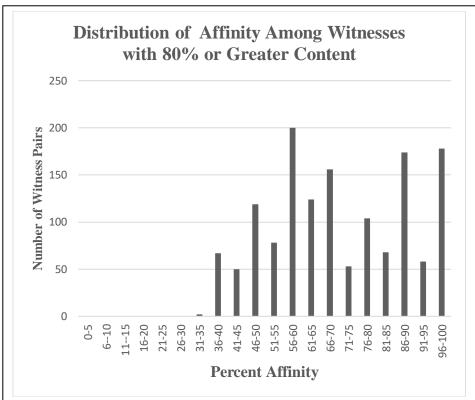


Table 2.8
Distribution of
Quantitative Affinity
Among Witnesses with
80% or Greater Content

70 70 OI V	Ji cater (_
	Number	Γ
% Affin-	of Wit-	
ity	nesses	l
0-5	0	l
6-10	0	l
11-15	0	
16-20	0	
21-25	0	
26-30	0	
31-35	2	
36-40	67	
41-45	50	
46-50	119	
51-55	78	
56-60	200	
61-65	124	
66-70	156	
71-75	53	
76-80	104	
81-85	68	
86-90	174	
91-95	58	
96-100	178	



CHAPTER 3 GENEALOGICAL HISTORY OF 2 JOHN'S MANUSCRIPTS

This chapter presents the genealogical history of the manuscripts¹ of the Greek text of the Second Epistle of John as reconstructed by computer program Lachmann-10.² Beginning with a data base of 75 existing witnesses, 30 places of variation, and 72 variants, the program reconstructed 26 intermediate exemplars, arranging them in the genealogical stemma (tree diagram) presented in its full form in Appendix C, but in a condensed form in Figure 3.1. This condensed form portrays the genealogical interrelationship of all the reconstructed exemplars of the text of 2 John including most of the terminal witnesses. The rectangular boxes contain the information for the exemplars created by the software and the boxes with rounded corners contain the information for the extant witnesses. Witnesses in the same box are siblings. Figure 3.2³ displays a second tree diagram in which the principal line of descent from the autograph through the Antiochian text tradition appears in a straight line from which the other text traditions branch off. All the technical data and diagrams contained in this chapter were derived from the monitor screen of Lachmann-10 or the report it created.

The head exemplars of the three main branches of the stemma are exemplars Ex-94#, Ex-99#, and Ex-100#. These branches are quite independent of one another, having mutual affinities ranging from 77% to 80%. But they have affinities with the autograph ranging from 87% to 93%. In addition, the sibling gene of each uniquely distinguishes them from one another. The following table lists their mutual differences and affinities.

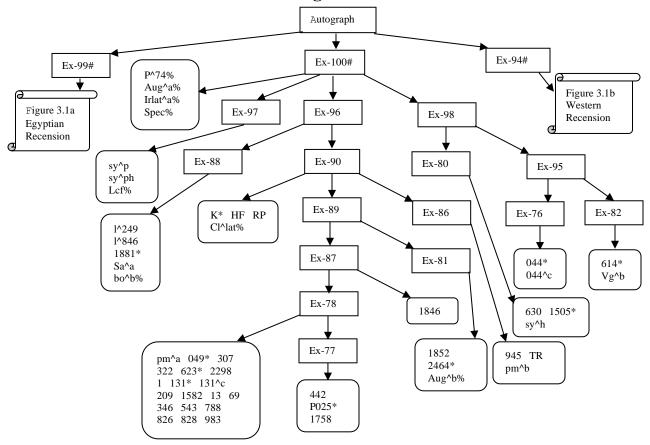
¹ The term *manuscript* is used here in its inclusive sense of manuscripts, translations, church fathers, and reconstructed exemplars—the sense I usually assign to the term *witness*.

² The total computing time was one minute and forty-three seconds including the time required for the software to assemble and format all the information contained in the tables, diagrams, and appendices of this book.

³ The full diagram, displayed in Appendix C, requires six pages. The condensed form deletes all the terminal branches (extant witnesses) except one at each exemplar—the most interesting one. Likewise, it omits exemplars that only account for same-generation mixture (those with a \$ sign attached to their name).

	Ex-94#	Ex-99#	Ex-100#	Autograph
Ex-94#		80%	77%	87%
Ex-99#	6		80%	93%
Ex-100#	7	6		87%
Autograph	4	2	4	

Figure 3.1 Condensed Genealogical Stemma of 2 John



The above diagram displays the overall structure of the genealogical stemma of 2 John, but it presents only the branch of the Antiochian text tradition in full detail, listing all the sibling descendants of each exemplar. The corresponding branch of the Egyptian text tradition is presented in Figure 3.1a and that of the Western text tradition in Figure 3.1b. Exemplar Ex-100# is the Antiochian recension, the ancestral source of the witnesses in the Antiochian tradition. Its date (c. AD 95) is derived from that of fourth-generation church father Clement (Cl^lat% c. AD 215). It has an

affinity with the autographic text of 87%, differing from it in 4 places.⁴ This text tradition contains mostly the Byzantine and pre-Byzantine witnesses; TR, RP, and HF found their best fit in the branches of this tradition.

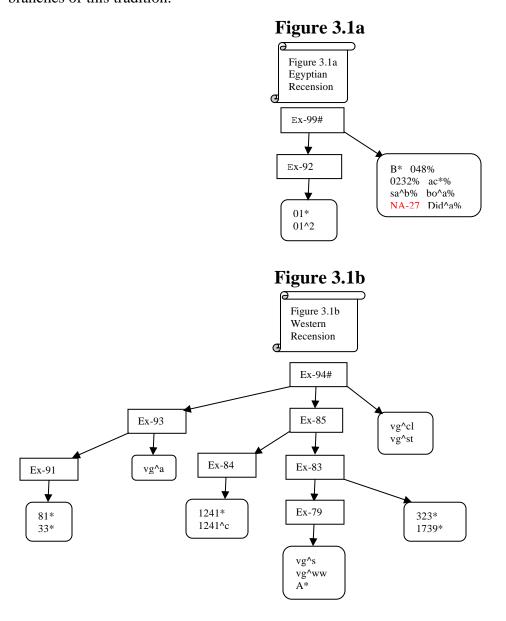
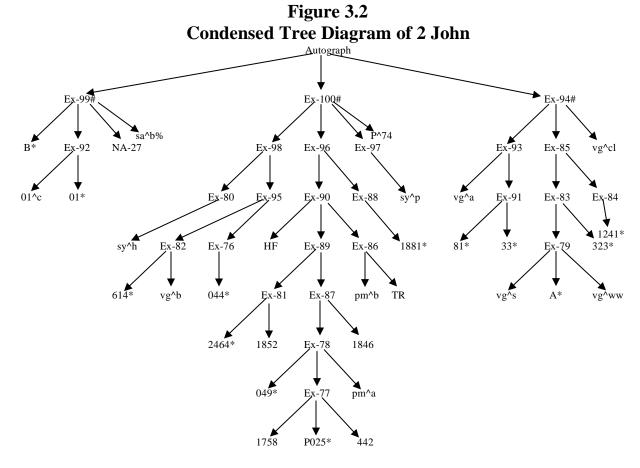


Figure 3.1a displays the Egyptian branch of the genealogical stemma of 2 John. Exemplar Ex-99# is the Egyptian recension, the ancestral source of the witnesses in the Egyptian tradition. Its date (c. AD 200) is derived from that of the first-generation translations ac*%, sa^b%, and

⁴ The date, affinity and difference are found in Appendix C; so also for the other branches.

bo[^]a% (all c. AD 250). It has an affinity with the autographic text of 93%, differing from it in 2 places. The NA-27 text found its best fit as a daughter of first-generation Exemplar Ex-99# beside MS B*.

Figure 3.1b displays the Western branch of the genealogical stemma of 2 John. Exemplar Ex-94# is the Western recension, the ancestral source of the witnesses in the Western tradition. Its date (c. AD 250) is derived from that of fifth-generation MS A* (c. AD 450). It has an affinity with the autographic text of 87%, differing from it in 4 places.



Readings of the Autographic Text

The theory expressed in the first volume of this series⁵ indicates that the readings of the autographic text should be determined on the basis of the "consensus among ancient independent witnesses." The solution for 2 John ended up with three independent recensions which were

⁵ Chapter Two of *The Genealogical History of the Greek Text of the Gospel of Matthew*.

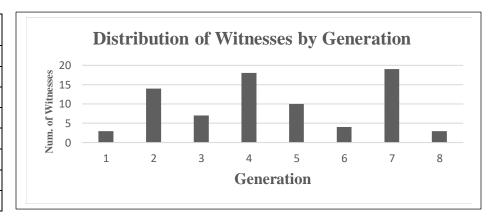
candidates for being witnesses to the text of the autograph. The guideline given in the theory recommended selecting the three most ancient recensions for use in determining the consensus; for 2 John they are: Exemplars Ex-94#, Ex-99#, and Ex-100#. The text of the autograph is presented in Appendix D.

The Generations of Genealogical History

Program Lachmann-10 reconstructed the genealogical history of the text of 2 John in eight generations of descent from the autograph. Of course, the exact number of generations cannot be known because the genealogical history before the alleged first-generation major recensions was too fuzzy for the software to accurately reconstruct. The 75 extant witnesses are distributed throughout every generation of the genealogical history. Table 3.1 and its associated graph display the distribution of the extant witnesses of 2 John by generation. Every generation has at least 3 extant witnesses.

Table 3.1
Distribution of Extant Witnesses
by Generation

by Generation			
	Num. of		
Generation	Witnesses		
1	3		
2	14		
3	7		
4	18		
5	10		
6	4		
7	19		
8	3		



Mixture

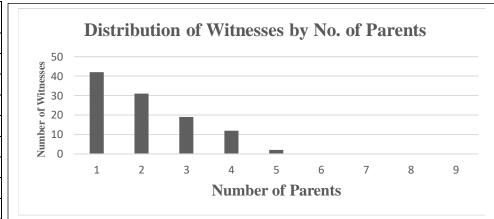
The number of parents a witness had is a measure of the mixture of its text; the more parents, the more mixture. At any place of variation, the reading of a witness may differ from that of its primary parent exemplar⁶ for one of two reasons: (1) the reading is a newly initiated variant having no prior existence; or (2) the scribe selected the reading from one of the secondary exem-

⁶ A primary parent exemplar is the exemplar from which a witness derives its genealogical descent; secondary parent exemplars are the sources from which a witness acquires mixture. A witness has only one primary parent, but it may have any number of secondary parent exemplars.

plars he was consulting. Witnesses having only one parent experienced no mixture; every variant differing from that of the primary parent exemplar was newly initiated by the scribe either accidentally or intentionally. Table 3.2 displays the distribution of witnesses by number of parents. Those witnesses with the greatest mixture are those with the most diverse text; for example: 42 of the witnesses had only one parent, having no mixture at all; MSS 1881* and bo^a% have 5 parents, indicating the multiple mixture of those witnesses. The sources of mixture are not displayed in the tree diagrams.

Table 3.2
Distribution of Witnesses by Number of Parents

7 J - 102	
Num. of	Num. of
Parents	Witnesses
1	42
2	31
3	19
4	12
5	2
6	0
7	0
8	0
9	0



Primary Daughters

When an exemplar is the primary parent of one of its daughter manuscripts, then that daughter in turn is a primary descendant of the exemplar. Except for exemplars created to account for same-generation mixture (those marked with \$), an exemplar always has at least two primary daughters, but it may have as many as needed for grouping multiple sibling daughters. The number of primary daughters of an exemplar is a measure of how well the software was able to find groups of sibling sisters. Table 3.3 displays the distribution of primary daughters by number of exemplars. Exemplar Ex-88 has four primary daughters; and Ex-78 has 20.

Critics of the genealogical theory protest that the genealogical trees it develops are almost exclusively binary, that is, nodes in the tree have only two branches—in other words, reconstructed exemplars have only two primary daughter descendants. Table 3.3 demonstrates the error of this claim. Exemplars with no primary descendants are those created to account for same-generation mixture; they rightly have no primary descendants.

Table 3.3 Distribution of Exemplars by Number of Primary Daughters			
	Num. of Primary	Num, of	
	Daughters	Exemplars	
	2	17	
	3	2	
	4	1	
	20	1	

Distribution of Exemplars by			
Number of Secondary Daughters			
Num. of		Num. of	
Secondary	Num. of	Secondary	Num. of
Daughters	Exemplars	Daughters	Exemplars
0	14	7	1
1	6	13	1
2	3	21	1
3	1	34	1
4	3		
6	1	Total =	108

Table 3.4

Secondary Daughters

When an exemplar is the source of mixture (a secondary parent) for one of its daughter descendants, then that daughter is a secondary descendant of the exemplar. An exemplar does not need to have any secondary descendants, but it may have as many as needed for resolving mixture within its associated branch. The number of secondary descendants of an exemplar is a measure of its value as a source of mixture, suggesting that scribes regarded the exemplar as having some measure of authority. Table 3.4 displays the distribution of secondary daughters by number of exemplars. For example, Exemplar Ex-99#, the first-generation exemplar of the Egyptian text tradition, had 6 secondary daughters; those with more than 6 secondary daughters were merely sources of same-generation mixture.

Resolution of Mixture

The optimizing procedures of the software resolve all mixture in a genealogical tree, leaving every instance of a variant accounted for either by genealogical descent, by mixture, or by initiation. That is, the software locates the exemplar where every variant originated in the genealogical history of the witnesses. This feature is treated further in Chapter Four where the genealogical history of the variants is discussed.

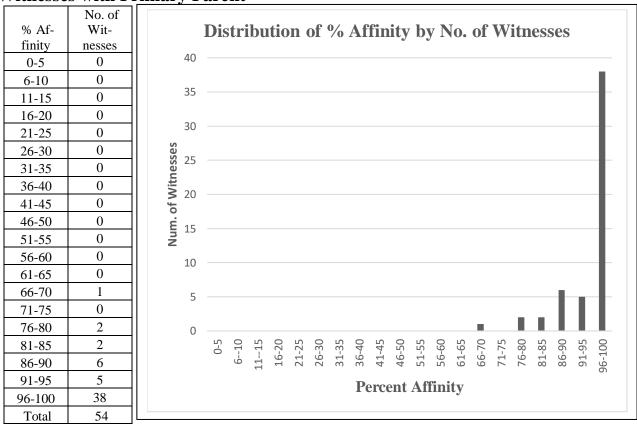
Distribution of Affinity

Another measure of the success of the software in reconstructing the genealogical history of the text of 2 John is the distribution of the affinity of the witnesses to their primary parent

⁷ While this is true for the book of 2 John, for some of the other books the software may fail to uniquely identify the place of origin for a small percentage of variants.

exemplars. If this affinity is consistently high, the success may be regarded as high. Table 3.5 and its associated graph display the distribution of the affinity of the extant witnesses⁸ to their corresponding primary parent exemplar. Table 3.6 and its associated graph display the distribution of the affinity of the reconstructed exemplars to their corresponding primary parent exemplar, not including those functioning only to resolve same-generation mixture.⁹

Table 3.5
Distribution of Affinity of Extant
Witnesses with Primary Parent



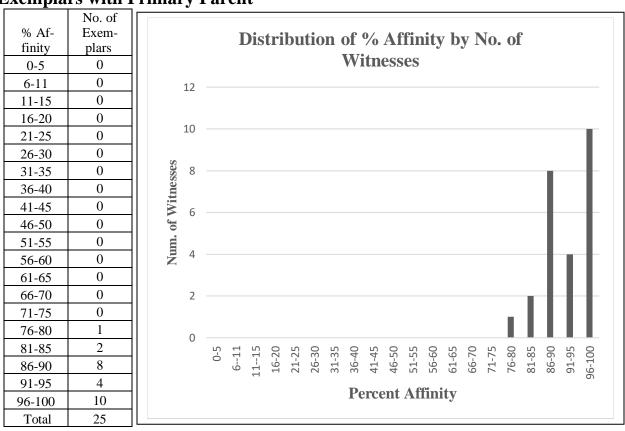
The evidence from Table 3.5 indicates that all but 11 extant witnesses had a strong affinity (> 90%) with their primary parent exemplar, and all but three had an affinity greater than 80%. This demonstrates that considerable close grouping exists among the extant witnesses.

⁸ Witnesses with less than 80% content are excluded because they do not contribute to the reconstruction of the genealogical history but are attached at the most appropriate place after the tree is complete.

⁹ Such exemplars do not contribute to the reconstruction of the tree diagram of the genealogical history of the witnesses, their affinity with their parent exemplar having no significance to the reconstruction process.

The evidence from Table 3.6 indicates that 14 (56.0%) of the 25 reconstructed exemplars¹⁰ have a strong affinity (> 90%) with their primary parent exemplar, and another 10 (40.0%) had a moderate affinity (81-90%) with their parent; Exemplar Ex-96 has a weak affinity of 80%.

Table 3.6
Distribution of Affinity of
Exemplars with Primary Parent



The presence of weak affinities is troubling because it questions the reality of any actual genealogical relationships. But the corresponding presence of sizeable sibling genes confirms that the given witness has a common ancestry with its alleged sisters, even though the relationship may be one of distant cousins; whatever the actual relationship may have been, within the collection of witnesses the relationship is closest possible.

¹⁰ The exemplars constructed just to account for same-generation mixture were not included in the study because they do not contribute to the construction of the genealogical tree.

Date of the Autograph

The date of the autograph was determined by the rule that a parent exemplar is fifty years older than its oldest sibling daughter. When the dates diminish to below AD 100, the generation gap is reduced to twenty years, giving more room for activity in the first century. The date of the autograph (c. AD 90) is traced down through the Western recension to fourth-generation Latin church father Clement (Cl^lat% c. AD 215) through the following exemplars:

```
Autograph[0.00]<0>{AD 90}/0/0/0

|- Ex-100#[0.87]<1>{AD 95}/4/4/2

|- Ex-96[0.80]<2>{AD 115}/6/4/3

|- Ex-90[0.97]<3>{AD 165}/1/6/2

|- Cl^lat%[1.00]<4>{AD 215}/0/1/1
```

Clément's witness is very fragmentary, having only one reading but 100% affinity with its parent exemplar. So, the date of the autograph is not very firm, but it may be at least as early as c. AD 95 based on the date of fourth-generation Sahidic translation (c. AD 250).

Conclusions

The software does indeed reconstruct a genealogical history of the manuscripts of the Second Epistle of John, and of the other books of the New Testament as well. However, the results are not what was anticipated, based on earlier experiments with smaller books, smaller databases, and less sophisticated programs. I anticipated that the commonly accepted text traditions would emerge as independent witnesses to the autograph. Those text traditions did emerge, but they turned out to be not exactly Western, Alexandrian, Caesarean, and Antiochian, but rather Western, Egyptian, and Antiochian, with the Byzantine tradition being the latest form of the Antiochian text tradition, and with no clear evidence of a Caesarean tradition.

This concludes the discussion of the genealogical history of the witnesses to 2 John. While the reconstruction of the genealogical history of witnesses depends on the genetic affinity (consensus), sibling genes, and the date of the witnesses, the genealogical history of variant readings depends on the consensus and inheritance of variants. The history of the variant readings of the text of 2 John is discussed in Chapter Four.

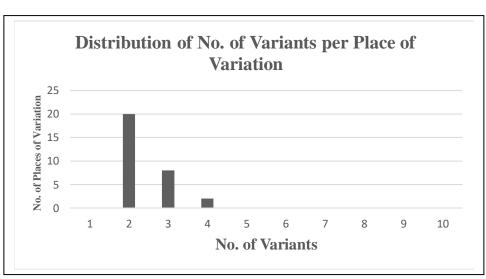
CHAPTER 4 THE HISTORY OF THE TEXTUAL VARIANTS IN 2 JOHN

Chapter Three presents the genealogical history of the manuscripts¹ of the Greek text of the Second Epistle of John. That history is necessary before the genealogical history of an individual variant may be safely discussed, because the history of a textual variant is totally dependent upon the history of the manuscripts in which it occurs. The NA-27 Greek New Testament records 30 places of textual variation in the Book of 2 John and 72 variant readings. This averages out to a variableness index of 2.40 variants per place of variation—a relatively low value. Table 4.1 and its associated graph display the distribution of the number of variants per place of variation.

Table 4.1
Distribution of Number of Variants per Place of

Variation

v ai iauon			
	Number		
Number	of Places		
of vari-	of Varia-		
ants	tion		
1	0		
2	20		
3	8		
4	2		
5	0		
6	0		
7	0		
8	0		
9	0		
10	0		
Total=	72		



Initially the number 72 seems large when considering textual variations in a book of the Bible, but this number must be considered with respect to the total number of places where variation could occur. If the number of words in the Greek text of 2 John (c. 249) is regarded as the number of places where variation could occur, and each variation is regarded as the equivalent of

¹ Again, the term *manuscript* is used in its broader sense to include manuscripts, translations, quotations from church fathers, and reconstructed exemplars.

one word, then the text of 2 John is 87.9% pure² before variations are even considered. Thus, variation occurs in only 12.1% of the text. In that small portion of the text 72 variants are recorded, but 30 of them are original readings, so only 42 are real variants. While this still seems like a large number, the genealogical software clearly identified all of them as non-original.

Types of Variants

Four basic types of textual variations occur in the text of 2 John: (1) omissions, (2) alterations, (3) transpositions, and (4) additions. Table 4.2 lists the distribution of these types of variants in the 30 places of variation in the autographic text of the Second Epistle of John, and Table 4.3 lists their distribution with respect to all variations.

Table 4.2
Distribution of Variants by Type

Variation type	Number of Variants
Omit a word	2
Omit a phrase	1
Alternate word	15
Alternate words	7
Transposed words	1
Added word or phrase	4
Total	30

Table 4.3
Distribution of All Variants by Type

Variation Type	Number of Variants
Omit a word	4
Omit a phrase	2
Alternate word	33
Alternate words	21
Transposed words	2
Added word or phrase	10
Total	72

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² $((249 - 30) \div 249) \times 100 = 87.9\%$.

Determining Exemplar Readings

Whenever the genealogical software creates a new exemplar as the parent of a group of sibling sister witnesses, at each place of variation, the reading of the exemplar is decided on the basis of four ordered rules:

- (1) Majority consensus among all the immediate sibling children;
- (2) if no majority, then postpone the decision until a sibling emerges for the exemplar currently being reconstructed, that sibling will have the inherited reading;³
- (3) if, in the case of deciding the readings of the autograph, majority consensus fails, then accept the first variant (the NA-27 reading) if it is an option;
- (4) if the first variant is not an option, then by default arbitrarily select the smallest variant number that is an option;⁴
- (5) if witnesses are of different languages, then select the Greek reading.

Table 4.4 lists the number of times each of the above rules was used in the process of constructing the genealogical history of the text of 2 John.

Table 4.4
Frequency of Exemplar Reading Rules

(1) by greatest probability	707
(2) by deferred ambiguity	44
(4) by default to NA-27	7
(5) by arbitrary choice	0
(6) by language deference	20
Total	778

The evidence indicates that the vast majority of exemplar readings (90.87%) were determined by "consensus among independent witnesses," and 5.65% were determined by deferred ambiguity, while 0.89% were deferred to the NA-27 reading, and 2.59% were determined by arbitrary choice or language deference.

³ I call this practice *deferred ambiguity*. Since sibling witnesses rarely have scribal errors at the same place of variation, where the reading of one sibling is ambiguous—that is, it is uncertain which of two readings is the inherited reading and which is a newly initiated error—the other siblings will have the inherited reading. Of the 778decisions the software made, only 44 were made on the basis of deferred ambiguity.

⁴ Next to the first variant—the NA-27 choice—the reading with the smaller variant number is usually supported by more witnesses than those with larger variant numbers. While this option is purely arbitrary, it turns out to be rarely significant for determining the readings of the autograph. For determining the readings of the autograph, the algorithm treats the exemplars of the last three branches to be constructed as siblings constituting the ancient independent witnesses.

Autographic Readings

The readings of the autographic text of 2 John were determined on the basis of consensus among the three most ancient independent witnesses. For the Book of 2 John, the exemplars of the three most ancient independent recensions were used: (1) Exemplar Ex-94#, the Western text tradition; (2) Exemplar Ex-99#, the Egyptian text tradition; and (3) Exemplar Ex-100#, the Antiochian text tradition. Appendix D lists each of the 30 readings of the autograph together with its place of variation, the chapter and verse where it occurs, the reading of the text at that place, and the probability that the reading is original. Those readings lacking consensus were determined by default to the decision of the NA-27 editors' evaluation of internal evidence if that reading was among the available alternatives; otherwise, the next lowest variant number was selected by arbitrary choice. Table 4.5 lists the number of times each of the above rules was used in the process of determining the autographic readings of the text of 2 John. Again, the evidence indicates that 100% of the readings were determined by "consensus among ancient independent witnesses."

Table 4.5
Frequency of Exemplar Reading Rules

Number of Autographic variants decided by greatest probability	30	100%
Number of Autographic variants decided by choice of NA27	0	0.00%
Number of Autographic variants decided by arbitrary choice	0	0.00%
Number of Autographic variants decided by language deference	0	0.00%
Total	30	

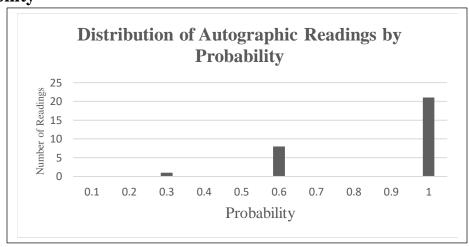
Table 4.6 and its associated graph displays the distribution of the probability of the reconstructed autographic readings. Of the 30 readings, 21 had a probability of 1.0 (100%), 8 had a probability of 0.67 (67%), and one had a probability of 0.33 (33%).⁵

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⁵ 1:12,3.1.

Table 4.6
Distribution of Autographic Readings by Probability

iteauiiigs ,	oy i i oba,
Probability	Number of Readings
0.1	0
0.2	0
0.33	1
0.4	0
0.5	0
0.66	8
0.7	0
0.8	0
0.9	0
1	21



Agreement with NA-27

In the database used in this work, the first variant at any place of variation is the reading of the NA-27 text. The second and subsequent variants are the alternate readings listed in the NA-27 database. Table 4.7 lists how often the various alternate readings were found to be original. The evidence indicates that the autographic text reconstructed by the genealogical software agrees with the text of NA-27 26 times or 86.67% of the time, and differs from the NA-27 text 4 times or 13.33% of the time. Appendix E lists the 4 places where the Lachmann-10 text differs from that of NA-27.

Table 4.7 Frequency of Variants

Variant 1	26
Variant 2	3
Variant 3	1
Variant 4	0
Variant 5	0
Variant 6	0
Variant 7	0
Total	30

The Origin of the Variants

The software identifies the place of origin of every variant in the genealogical tree, accounting for every instance of a variant as being the result of genealogical descent, mixture, or initiation—that is, the software finds the one and only exemplar or extant witness in the genealogical history where each variant originated. Often, after the first initiation of a reading, it may have been introduced again in a later exemplar by means of mixture.

Exemplars Ex-102\$ through Ex-107\$, are children of the Autograph created by the software as sources for resolving same-generation mixture between the branches headed by the first-generation recensions, that is, for non-autographic readings that occur in more than one primary branch of the genealogical tree. These exemplars serve as virtual exemplars lost in the unrecoverable genealogical history between the Autograph and the assumed first-generation recensions. Of the 42 non-autographic variants, 42 are listed as originating in one of these virtual exemplars. Two possibilities exist for each of these variants: either it really originated only once in the earliest decades of unrecoverable history, or it originated independently in two or more major branches of the tree diagram of genealogical history; the latter case can be true for commonly occurring scribal errors, but not for the uncommon ones. Variants of the first kind are weakly distributed among the branches of the first-generation recensions and are of little genealogical significance individually; their distribution among the three most ancient recensions is weaker than that of their corresponding autographic reading.

Egyptian Recension

First-generation exemplar Ex-99# was the ancestral forefather of the Egyptian text tradition. This recension differs from the autograph by 2 secondary variants⁷ among which it uniquely originated the following variant peculiar to this entire text tradition:

Place of Variation	Reference	Variant
19.1	1:9,1.1	「προαγων

⁶ The place a variant reading was initially introduced in genealogical history is determined by locating the witness containing the variant reading where the reading differs from that of its parent exemplar and the reading is not accounted for by mixture. Mixture fails when the reading does not occur in any witness in preceding generations.

⁷ In this and other lists of variants herein, an exemplar enclosed in square brackets [] is the source of mixture for the associated variant. Variants are listed only by their reference: 1:3,3.1[Ex-107\$]; 1:9,1.1; Count = 2.

Western Recension

First-generation Exemplar Ex-94# was the Western recension, being the text from which most of the Old Latin translations were made. It differs from the autographic text by 4 secondary variants, among which it uniquely originated the following variant peculiar to this entire text tradition:

Place of Variation	Reference	Variant
27.2	1:12,3.2	ελπ. γαρ γεν.

Antiochian Recension

Exemplar Ex-100# was the Antiochian recension, being the text from which the Syrian and Byzantine witnesses were derived. It differs from the autographic text by 4 secondary variants, among which it uniquely originated the following two variants peculiar to this entire text tradition:

Place of Variation	Reference	Variant
28.2	1:12,4.2	1 3 2
30.3	1:13,2.3	αμην

Tracing Variant History

For various reasons, it may be of interest to trace the history of the genealogical heritage of the alternate readings at particular places of variation. For each variant at the desired place, one may want to see where it originated in genealogical history and how it was subsequently distributed by genetic inheritance. Upon request, software program Lachmann-10 displays the genealogical history of the variants at any selected place of variation. It constructs the historical tree diagram (like the one in Appendix C) and displays on the monitor screen the generation and index number of the variant contained in each and every witness. The following section presents typical examples of possible studies of interest.

Variants of Textual Interest

The genealogical history of some variants is more interesting than that of others because of their significance for translation. For example, words or phrases are missing in some witnesses

^{8 1:3,3.1[}Ex-107\$]; 1:9,1.1; Count = 2.

⁹ 1:9,3.2[Ex-105\$]; 1:12,3.3[Ex-105\$]; 1:12,4.2; 1:13,2.3; Count = 4.

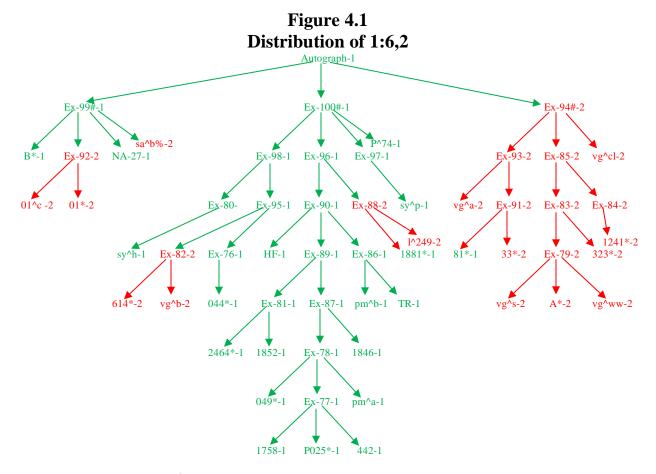
(1:6, 9, 13); also, some autographic readings are different from those of NA-27 (1:3, 8, 9, 12); the genealogical history may help to decide which option is more likely original.

Missing Word in 1:6,2

2 John 1:6 reads: "This is love, that we walk according to His commandments. This is the commandment, that as you have heard from the beginning, you should walk in it." Some witnesses lack the word "that" before the word "as." The variants are:

- (1) oμιτ—omit
- (2) $\iota\nu\alpha$ —that

Figure 4.1 displays the distribution of the variants throughout genealogical history.



Variant 1 (omit "that") has the consensus of two of the first-generation recensions: Exemplar Ex-99#, the recension from which the Egyptian text tradition was derived, and Exemplar Ex-100#, the recension from which the Antiochian text tradition was derived; it was selected as the autographic reading on this basis with a probability of 67%. It has the support of all the witnesses

in Egyptian text tradition headed by first-generation Exemplar Ex-99# except for MS 0232%, and except for those in the branch headed by second-generation Exemplar Ex-92. It also has the support of all the witnesses in the Antiochian text tradition headed by first-generation Exemplar Ex-100# except for MS K*, and except for those in the sub-branches headed by third-generation Exemplar Ex-88 and fourth-generation Exemplar Ex-82. It also occurs independently as a singularity in MSS 81* and 1881*. It has the greatest antiquity, ¹⁰ the broadest distribution, ¹¹ and good persistence.

Variant 2 ("that") was first initiated in the Western text tradition headed by first-generation Exemplar Ex-94#, after which it persisted throughout the history of that branch except for MS 81*. It was then introduced by mixture into the sub-branches of the Antiochian text tradition headed by third-generation Exemplar Ex-88 and fourth-generation Exemplar Ex-82, after which it persisted throughout the history of those branches except for MS 1881*. It also occurs independently as a singularity in MSS K*, 0232%, 69, ac*, sa^b%, and bo^a% (some not shown). This reading lacks antiquity and adequate distribution, but it has good persistence once introduced.

Missing Words in 1:9,3

2 John 1:9 reads: "Whoever transgresses and does not abide in the doctrine of Christ does not have God. He who abides in the doctrine of Christ has both the Father and the Son." Some witnesses have the second phrase "of Christ" and some do not. There are three variants here:

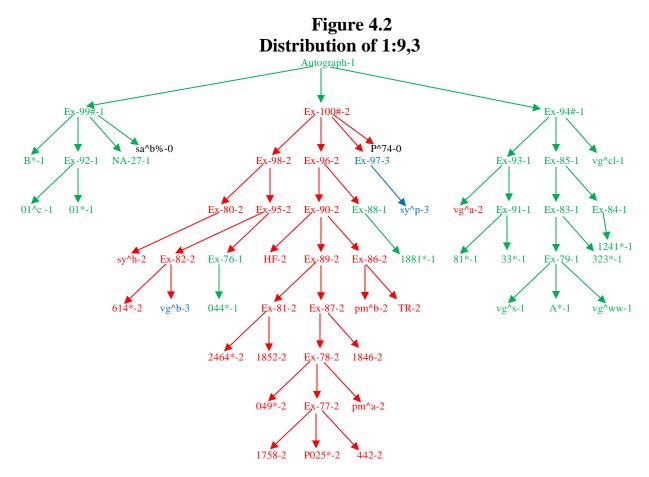
- (1) ομιτ—omit
- (2) του Χριστου—of Christ
- (3) *αυτου*—His

Figure 4.2 displays the distribution of the variants throughout genealogical history. Variant 1 (omit "of Christ") has the consensus of two of the first-generation recensions: Exemplar Ex-99#, the recension from which the Egyptian text tradition was derived, and Exemplar Ex-94#, the recension from which the Western text tradition was derived; it was selected as the autographic reading on this basis with a probability of 67%. It has the support of all the witnesses in Egyptian text tradition headed by first-generation Exemplar Ex-99# except for MS bo^a%. It also has the support of all the witnesses in the Western text tradition headed by first-generation Exemplar Ex-

¹⁰ Antiquity is the characteristic of a reading being older than the witness in which it occurs. See the glossary of terms.

¹¹ Distribution is the characteristic of a reading occurring in more than one text tradition. An original reading occurs in more than one first-generation exemplar. See the glossary of terms.

94# except for MS vg^a. It has the greatest antiquity, the broadest distribution, and excellent persistence.



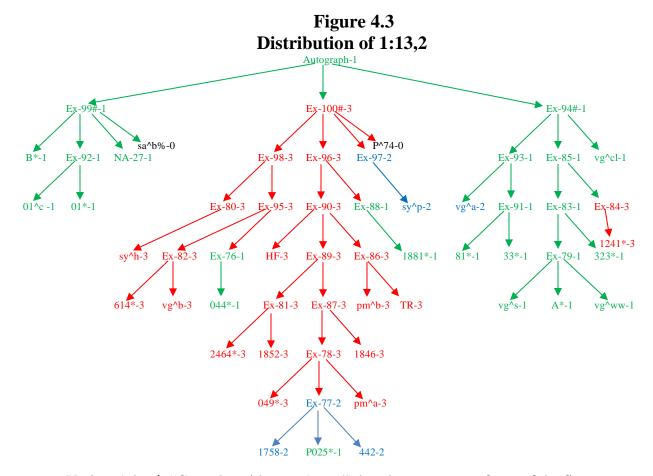
Variant 2 ("of Christ") was first initiated in the Antiochian text tradition headed by first-generation Exemplar Ex-100#, after which it persisted throughout the history of that branch, except for MS vg^b, and except for those witnesses in the sub-branches headed by second-generation Exemplar Ex-97, third-generation Exemplar Ex-88, and fourth-generation Exemplar Ex-76. It also occurs independently as a singularity in MSS vg^a and bo^a% (not shown). This reading lacks antiquity and adequate distribution, but it has good persistence once introduced.

Variant 3 ("His") was first initiated into the Antiochian text tradition in the sub-branch headed by second-generation Exemplar Ex-97, after which it persisted throughout the history of that branch. It also occurs independently as a singularity in MS vg^b. This reading lacks antiquity and distribution, but it has good persistence once introduced.

Missing Words in 1:13,2

- 2 John 1:13 reads: "The children of your elect sister greet you. Amen." Some witnesses have the words "Grace be with you. Amen" and some do not. There are three variants here:
 - (1) oμιτ—omit
 - (2) η χαρις μετα σου. αμην—Grace be with you. Amen
 - (3) $\alpha\mu\epsilon\nu$ —Amen

Figure 4.3 displays the distribution of the variants throughout genealogical history.



Variant 1 (omit "Grace be with you. Amen") has the consensus of two of the first-generation recensions: Exemplar Ex-99#, the recension from which the Egyptian text tradition was derived, and Exemplar Ex-94#, the recension from which the Western text tradition was derived; it was selected as the autographic reading on this basis with a probability of 67%. It has the support of all the witnesses in Egyptian text tradition headed by first-generation Exemplar Ex-99#. It also has the support of all the witnesses in the Western text tradition headed by first-generation

Exemplar Ex-94# except for MS vg^a, and except for those in the sub-branch headed by third-generation Exemplar Ex-84. It is also supported through mixture by the witnesses in the sub-branches of the Antiochian text tradition headed by third-generation Exemplar Ex-88 and fourth-generation Exemplar Ex-76. It also occurs independently as a singularity in MS P025*. It has the greatest antiquity, the broadest distribution, and excellent persistence.

Variant 2 ("Grace be with you. Amen") was first initiated into the Antiochian text tradition in the sub-branch headed by second-generation Exemplar Ex-97, after which it persisted throughout the history of that branch. It was then initiated by mixture into the sub-branch headed by the seventh-generation Exemplar Ex-77, after which it persisted throughout the history of that branch except for MS P025*. It also occurs independently as a singularity in MS vg^a. This reading lacks antiquity and adequate distribution, but it has good persistence once introduced.

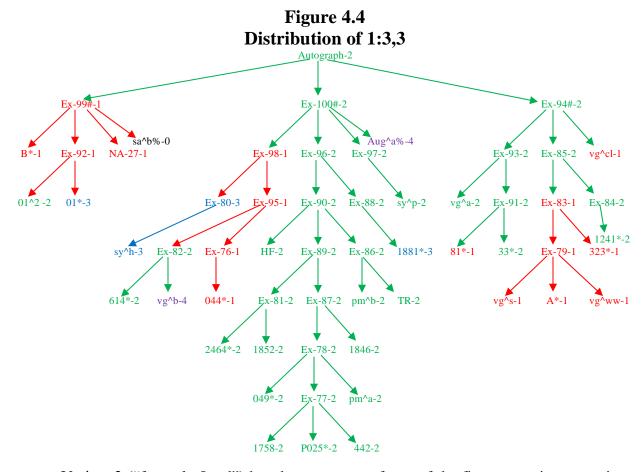
Variant 3 ("Amen") was first initiated in the Antiochian text tradition headed by first-generation Exemplar Ex-100#, after which it persisted throughout the history of that branch, except for those witnesses in the sub-branches headed by second-generation Exemplar Ex-97, third-generation Exemplar Ex-88, fourth-generation Exemplar Ex-76, and seventh-generation Exemplar Ex-77. It was then initiated by mixture into the sub-branch of the Western tradition headed by the third-generation Exemplar Ex-84, after which it persisted throughout the history of that branch. This reading lacks antiquity and adequate distribution, but it has reasonable persistence once introduced.

Non-NA-27 in 1:3,3

Lachmann-10 found 4 places where the autographic reading differs from that of NA-27 (see Appendix E); one instance occurs in 1:3. 2 John 1:3 reads: "Grace, mercy, *and* peace will be with you from God the Father and from the Lord Jesus Christ, the Son of the Father, in truth and love." Some witnesses have the words "from the Lord" and some do not. There are four variants here:

- (1) $\pi\alpha\rho\alpha$ —from
- (2) παρα κυριου—from the Lord
- (3) κυριου—the Lord
- (4) *ομιτ*—omit

Figure 4.4 displays the genealogical distribution of these variants.



Variant 2 ("from *the* Lord") has the consensus of two of the first-generation recensions: Exemplar Ex-94#, the recension from which the Western text tradition was derived, and Exemplar Ex-100#, the recension from which the Antiochian text tradition was derived; it was selected as the autographic reading on this basis with a probability of 67%. It has the support of all the witnesses in Western text tradition headed by first-generation Exemplar Ex-94# except for MSS vg^cl, vg^st, and 81*, and except for those in the sub-branch head by third-generation Exemplar Ex-83. It also has the support of all the witnesses in the Antiochian text tradition headed by first-generation Exemplar Ex-100# except for MSS Aug^a%, Cass^a%, 1505*, 1881*, and sa^a, and except for those in the sub-branch headed by second-generation Exemplar Ex-98. It also has the support, by mixture, of the witnesses in the sub-branch of the Antiochian text tradition headed by fourth-generation Exemplar Ex-82 except for MS vg^b. It also occurs independently in the following singularities: 01^2 and sy^h. It has the greatest antiquity, the broadest distribution, and excellent persistence.

Variant 1 ("from") was first initiated in the Egyptian text tradition headed by first-generation Exemplar Ex-99#, after which it persisted throughout the history of that branch except for

MSS 01* and 01^2. It was then introduced by mixture into the sub-branches of the Antiochian text tradition headed by second-generation Exemplar Ex-98, after which it persisted throughout the history of that branch, except for those in the sub-branches headed by third-generation Exemplar Ex-80 and fourth-generation Exemplar Ex-82. It was then introduced by mixture into the branch of the Western text tradition headed by third-generation Exemplar Ex-83, after which it persisted throughout the history of that branch. It also occurs independently in the following singularities: 81*, vg^cl, and vg^st (some not shown). It lacks antiquity and adequate distribution.

Variant 3 ("the Lord") was first initiated into the Antiochian text tradition in the sub-branch headed by third-generation Exemplar Ex-80, after which it persisted throughout the history of that branch except for MSS 1505* and sy^h. It also occurs independently in the following singularities: 01* and 1881*. It lacks antiquity and distribution.

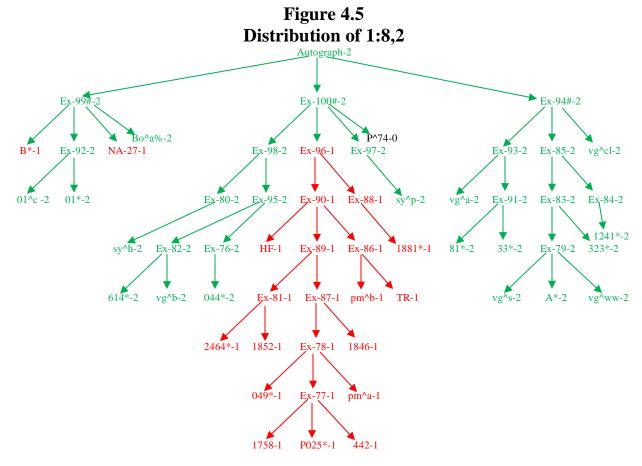
Variant 4 (omit "from *the* Lord") occurs independently only in the following singularities: 1505*, vg^b, sa^a, Aug^a%, and Cass^a% (some not shown). It has no genealogical possibility of being original.

Non-NA-27 in 1:8,2

Another instance where Lachmann-10 found that the autographic reading differed from that of NA-27 occurs in 1:8. 2 John 1:8 reads: "Look to yourselves, that we do not lose those things we worked for, but *that* we may receive a full reward." Some witnesses have the words "we have worked for" and some have "you have worked for." The variants are:

- (1) ϵ *ἰργασαμεθα*—we have worked for
- (2) ϵ *iργασασθε*—you have worked for

Figure 4.5 displays the genealogical distribution of these variants. Variant 2 ("you have worked for") has the consensus of all three first-generation recensions: Exemplar Ex-99#, the recension from which the Egyptian text tradition was derived, and Exemplar Ex-100#, the recension from which the Antiochian text tradition was derived, and Exemplar Ex-94#, the recension from which the Western text tradition was derived; it was selected as the autographic reading on this basis with a probability of 100%. It has the support of all the witnesses in the Egyptian text tradition headed by first-generation Exemplar Ex-99, except for MSS B* and NA-27. It also has the support of the witnesses in the Western text tradition headed by first-generation Exemplar Ex-94#. It also has the support of the witnesses in the Antiochian text tradition headed by first-generation Exemplar Ex-100#, except for those in the branch headed by second-generation Exemplar Ex-96. It has the greatest antiquity, the broadest distribution, and excellent persistence.



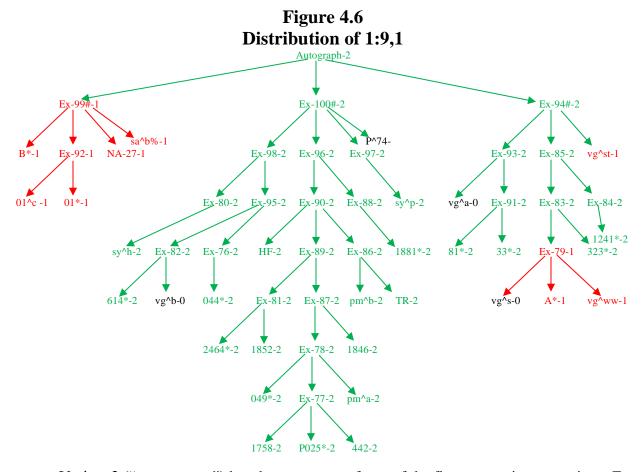
Variant 1 ("we have worked for") was first initiated in the sub-branch of the Antiochian text tradition headed by second-generation Exemplar Ex-96, after which it persisted throughout the history of that branch. It also occurs independently in the following singularities: B* and NA-27. It lacks antiquity and distribution, but has good persistence once initiated.

Non-NA-27 in 1:9,1

Another instance where Lachmann-10 found that the autographic reading differed from that of NA-27 occurs in 1:9. 2 John 1:9 reads: "Whoever transgresses and does not abide in the doctrine of Christ does not have God. He who abides in the doctrine of Christ has both the Father and the Son." Some witnesses have the word "transgresses" and some have "goes on ahead." The variants are:

- (1) $\pi \rho o \alpha \gamma \omega \nu$ —goes on ahead
- (2) παραβαινων—transgresses

Figure 4.6 displays the genealogical distribution of these variants.



Variant 2 ("transgresses") has the consensus of two of the first-generation recensions: Exemplar Ex-94#, the recension from which the Western text tradition was derived, and Exemplar Ex-100#, the recension from which the Antiochian text tradition was derived; it was selected as the autographic reading on this basis with a probability of 67%. It has the support of all the witnesses in Western text tradition headed by first-generation Exemplar Ex-94# except for MS vg^st, and except for those in the sub-branch head by fourth-generation Exemplar Ex-79. It also has the support of all the witnesses in the Antiochian text tradition headed by first-generation Exemplar Ex-100# except for MSS bo^b and sa^a (not shown). It has the greatest antiquity, the broadest distribution, and excellent persistence.

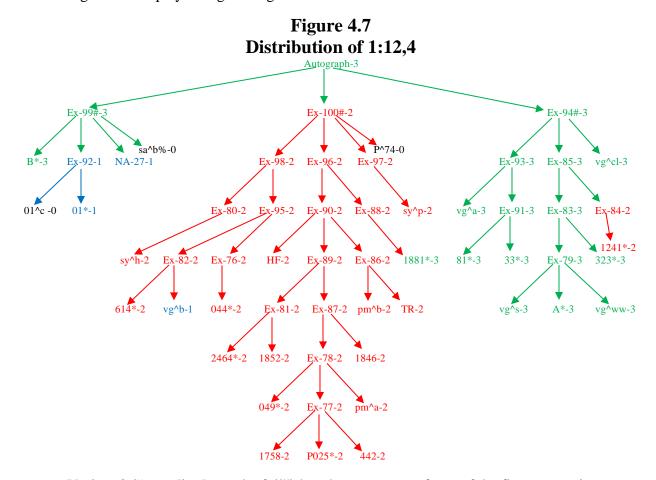
Variant 1 ("goes on ahead") was first initiated in the Egyptian text tradition headed by first-generation Exemplar Ex-99#, after which it persisted throughout the history of that branch. It was then introduced by mixture into the sub-branch of the Western text tradition headed by fourth-generation Exemplar Ex-79, after which it persisted throughout the history of that branch. It also occurs independently in the following singularities: sa^a, bo^b, and vg^st (mostly not shown). It lacks antiquity and adequate distribution.

Non-NA-27 in 1:12,4

Another instance where Lachmann-10 found that the autographic reading differed from that of NA-27 occurs in 1:12. 2 John 1:12 reads: "Having many things to write to you, I did not wish *to do so* with paper and ink; but I hope to come to you and speak face to face, that our joy may be full." Some witnesses have the words "our [joy] may be full" and some have "your [joy] may be full." There are three variants here:

- (1) ημων πεπληρωμενη η—our [] full may be
- (2) ημων η πεπληρωμενη—our [] may be full
- (3) νμων η πεπληρωμενη —your [] may be full

Figure 4.7 displays the genealogical distribution of these variants.



Variant 3 ("your [joy] may be full") has the consensus of two of the first-generation recensions: Exemplar Ex-94#, the recension from which the Western text tradition was derived, and Exemplar Ex-99#, the recension from which the Egyptian text tradition was derived; it was selected as the autographic reading on this basis with a probability of 67%. It has the support of all

the witnesses in Egyptian text tradition headed by first-generation Exemplar Ex-99# except for MS NA-27, and except for those in the branch head by second-generation Exemplar Ex-92. It also has the support of all the witnesses in the Western text tradition headed by first-generation Exemplar Ex-94# except for those in the sub-branch headed by third-generation Exemplar Ex-84. It also occurs independently as a singularity in MS 1881*. It has the greatest antiquity, the broadest distribution, and excellent persistence.

Variant 2 ("our [joy] may be full") was first initiated in the Antiochian text tradition headed by first-generation Exemplar Ex-100#, after which it persisted throughout the history of that branch, except for MSS 1881* and vg^b. It was then introduced by mixture into the sub-branch of the Western text tradition headed by third-generation Exemplar Ex-84, after which it persisted throughout the history of that branch. It lacks antiquity and adequate distribution.

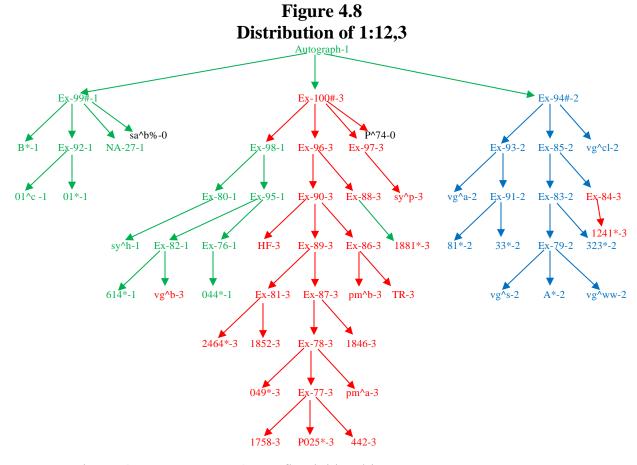
Variant 1 ("our [joy] full may be") was first initiated into the Egyptian text tradition in the branch headed by second-generation Exemplar Ex-92, after which it persisted throughout the history of that branch. It also occurs independently as a singularity in MS vg^b. It lacks antiquity and distribution.

Ambiguity in 1:12,3

2 John 1:12 reads: "Having many things to write to you, I did not wish *to do so* with paper and ink; but I hope to come to you and speak face to face, that our joy may be full." Some witnesses have the words "but I hope to come" and some have "but I hope to be." There are three variants here:

- (1) άλλα έλπιζω γενεσθαι—but I hope to be
- (2) $\dot{\epsilon}$ λπιζω γαρ γενεσθαι—for I hope to be
- (3) ἀλλα ἐλπιζω ελθειν—but I hope to come

Figure 4.8 displays the genealogical distribution of these variants. In this case, there is no consensus among the first-generation recensions, so the identity of the autographic reading is ambiguous. As a result, by default, Lachmann-10 selected variant 1, the reading of NA-27, as the autographic reading with a probability of 33%, based on the assumption that the NA-27 reading has the best internal evidence. Variant 1 ("but I hope to be") has the support of all the witnesses in the Egyptian text tradition headed by first-generation Exemplar Ex-99#. It also is supported by the witnesses in the sub-branch of the Antiochian text tradition headed by second-generation Exemplar Ex-98, except for MS vg^b. It has the assumed greater antiquity and distribution.



Variant 2 ("for I hope to be") was first initiated into the Western text tradition headed by first-generation Exemplar Ex-94#, after which it persisted throughout the history of that branch, except for those in the sub-branch headed by third-generation Exemplar Ex-84. It lacks antiquity and distribution.

Variant 3 ("but I hope to come") was first initiated into the Antiochian text tradition headed by first-generation Exemplar Ex-100#, after which it persisted throughout the history of that branch, except for those in the sub-branch headed by second-generation Exemplar Ex-98. It also occurs independently as a singularity in MS vg^b. It lacks antiquity and distribution.

Tracing Any Variant

The above studies trace the history of variants of particular interest using the computer program Lachmann-10. But one may trace the history of any other desired variant using the information in Appendices D, F, and H. Take for example the variants at variation unit 8 at reference 1:3,4:

2 John 1:3 reads: "Grace, mercy, *and* peace will be with you from God the Father and from the Lord Jesus Christ, the Son of the Father, in truth and love." There are four variations of the expression "the Son of the Father" in this verse. To trace the genealogical distribution of these variants, walk through the following steps:

Step 1: Using Appendices D and F, find the variant readings.

Appendix D reads:

8.1	1:3,4.1	έτου υιου του πατρος	1
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That is, the autographic reading is the first variant (8.1), του υιου του πατρος "the Son of the Father" and that its probability is 1.00 (100%).

Appendix F reads:

8.2	1:3,4.2	Ex-102\$;	2 3 4
8.3	1:3,4.3	Ex-103\$;	1 2
8.4	1:3,4.4	Ex-104\$;	τ. υι. τ. θ∈ου

Variant 2 is 2 3 4 = υιου του πατρος "Son of the Father" initiated in virtual Exemplar Ex-102\$.

Variant 3 is $1.2 = \tau o \upsilon \upsilon o \upsilon$ "the Son" initiated in virtual Exemplar Ex-103\$.

Variant 4 is τ . vi. τ . $\theta \in ov = \tau ov viou \tau ov <math>\theta \in ov$ "the Son of God" initiated in virtual Exemplar Ex-104\$.

Step 2: Using Appendix H, find where these variants were initiated in the history of the text.

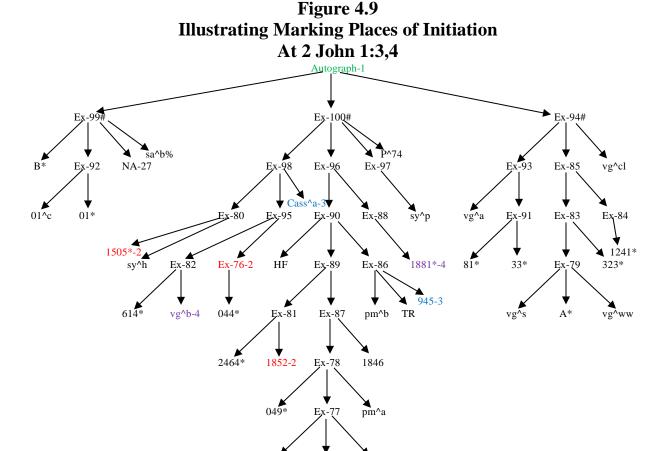
Appendix H reads:

8.1	1:3,4.1	Autograph;
8.2	1:3,4.2	[1505*]<4>; [1852]<6>; [Ex-76]<4>; Ex-102\$<1>;
8.3	1:3,4.3	[945]<5>; [Cass^a%]<3>; Ex-103\$<1>;
8.4	1:3,4.4	[1881*]<4>; [vg^b]<5>; Ex-104\$<1>;

That is, the first variant was initiated in the Autograph. The second variant was initiated in virtual Exemplar Ex-102\$, and by mixture it was subsequently introduced in Ex-76 and MS 1505* and 1852. The third variant was initiated in virtual Exemplar Ex-103\$, and by mixture it was subsequently introduced in MSS 945 and Cass^a%. The fourth variant was initiated in virtual Exemplar Ex-104\$, and by mixture it was subsequently introduced in MSS 1881* and vg^b.

Step 3: copy figure 3.1 from chapter 3 on a separate sheet of paper, as on the next page, and write the variant numbers at the places on diagram where each variant was initiated; use green

for the autographic reading (1), red for the first variant (2), blue for the second variant (3), purple for the third variant (4), as illustrated in figure 4.9.



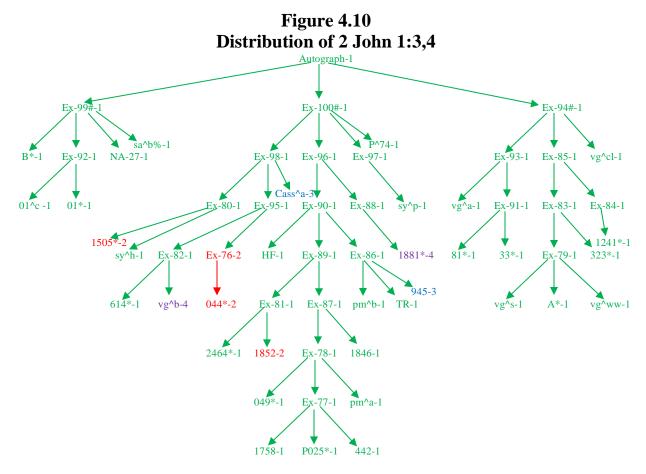
Step 4: Using its designated color, let each initiated variant extend by inheritance to all its descendants down to its extant terminal witnesses, or until changed by a new initiation, as shown in figure 4.10. Witnesses marked with % are fragmentary; their readings are often lacking; they may be ignored in this step.

P025*

1758

Figure 4.10 displays the distribution of the variants throughout genealogical history. Variant 1 ("the Son of the Father") has the consensus of all three first-generation recensions: Exemplar Ex-94#, the recension from which the Western text tradition was derived, and Exemplar Ex-99#, the recension from which the Egyptian text tradition was derived, and Exemplar Ex-100#, the recension from which the Antiochian text tradition was derived; it was selected as the autographic reading on this basis with a probability of 100%. It has the support of all the witnesses in all three text traditions, except for MSS 945, 1505*, 1852, 1881*, vg^b, and Cass^a%, and except for those

in the branch of the Antiochian text tradition headed by fourth-generation Exemplars Ex-76. It has the greatest antiquity, the broadest distribution, and excellent persistence.



Variant 2 ("Son of the Father") was first initiated in the branch of the Antiochian text tradition headed by fourth-generation Exemplar Ex-76, after which it persisted throughout the history of that branch. It also occurs independently as a singularity in MSS 1505* and 1852. This reading lacks antiquity and distribution, but it has good persistence once introduced.

Variant 3 ("the Son") only occurs as independent singularities in MSS 945 and Cass^a%. This reading has no genealogical possibility of being original.

Variant 4 ("the Son of God") only occurs as independent singularities in MSS 1881* and vg^b. This reading has no genealogical possibility of being original.

Conclusion

This chapter identifies the autographic readings of the Greek text of the Book of 2 John and how they were determined. It provides the genealogical history of each variant reading,

locating where each reading originated, and describing how each reading was distributed by inheritance throughout that history. It discusses the principal recensions, locating their origin in history, and identifying their characteristic readings.

CHAPTER 5 SUMMARY AND CONCLUSIONS

The genealogical software and the theory it emulates were successful in reconstructing a genealogical history of the Greek text of the Second Epistle of John. The software made use of a modified version of the textual apparatus in the 27th edition of the Nestle-Aland Greek New Testament. Using index numbers to represent the variant readings in the witnesses to the text, the computer constructed a kind of genetic code for each witness based on its unique combination of variant readings. Then employing the basic principles of heredity, a relatively simple tree diagram was constructed representing the genealogical history of the text.

Heredity is the underlying principle of genealogical relationships. Because manuscripts of a text were copied from exemplars of earlier generations of the text, of necessity they have genealogical relationships. For manuscripts, quantitative affinity (consensus of variant readings) and a sibling gene, coupled with historical directionality constitute the variables for computing genealogical heredity. For variant readings, on the other hand, the domain of heredity is limited to their place of variation. There, heredity is determined by consensus among sibling sister witnesses and by what I call evidence of variant inheritance. The software uses the heredity of manuscripts and the heredity of variant readings to guide the reconstruction of a historical genealogical tree diagram.

Mixture occurred when a scribe copied from more than one exemplar—a primary parent exemplar and one or more secondary exemplars. The readings of a manuscript were inherited from its primary parent exemplar or borrowed by mixture from its secondary parent exemplars; otherwise, a variant was newly introduced by scribal error (either accidentally or intentionally) thus initiating a new line of heredity. A good number of witnesses had no mixture, but considerable mixture occurred in others. As it turned out, the presence of mixture does not affect the

¹ At any place in the genealogical history of a text, the evidence of a variant's inheritance is its presence in other witnesses of the same or earlier generations.

reconstruction of the genealogical tree, but it is very useful in identifying the places in genealogical history where variants were initiated, in tracing the genealogical history of variants, and in identifying recensions.

The Effect of Recensions

The genealogical theory and associated software were designed to reconstruct the genealogical history of texts where the copying process was simple, without any radical discontinuities. It was anticipated that the initiation and transmission of textual variants would be gradual and that the tree would develop three or four main branches corresponding to the commonly accepted text types. However, the theory and software also made provision for radical dislocations if they perchance had occurred. As it turned out radical dislocations did occur in the form of some major and minor recensions. Furthermore, the most radical recensions took place in the earliest generation that genealogical relationships could be reasonably determined. This information indicates that in the earliest days of New Testament history its text was in flux and its genealogical history for that time period cannot be confidently reconstructed. These details could have resulted in disappointment except that the earliest recensions, though diverse from one another, nevertheless had sufficient consensus to identify the autographic readings.

Binary Branches

The genealogical tree diagram reconstructed by the software is often binary, that is, there are only two branches where the tree divides. Table 3.3 in Chapter 3 indicates that 17 out of 21 branches were binary. Critics of the genealogical theory claim that the methodology fails whenever there are only two branches, because no consensus can exist where there are only two alternatives. That would be true except for the principle of deferred ambiguity. In such cases, where ambiguity exists in one witness, its sister has the inherited reading.

A reading has evidence of variant inheritance when it is also found in witnesses of earlier generations. A reading will not be found in any witness dating in a generation prior to the one in which the reading first originated. Autographic readings have continual evidence of variant inheritance; all others acquire that evidence in the generation of their origin subsequent to the autograph. The evidence of variant inheritance usually decides between two equally probable readings; but where even that fails, a final appeal can be made indirectly to internal evidence. So a binary construction does not turn out to be a crucial weakness. Still, some may be concerned that the earliest

² A recension is recognized by the introduction of a larger number of variants than normal in a witness, usually also accompanied by a larger number of secondary parent exemplars—mixture.

history of the text is determined by such diverse witnesses. However, Table 4.4 of Chapter 4 indicates that 96.14% of the textual decisions made in the reconstruction of the historical tree diagram were made on the basis consensus and deferred ambiguity; so diversity was not a significant deterrent. Furthermore, Table 4.5 of Chapter 4 indicates that 100 percent of the autographic readings were decided on the basis of consensus.

So What!

Someone may ask: "After all those painstaking computations, what is now known that was not already known by means of traditional textual critical methodology?" The answer should be self-evident, but for the sake of review, here is a list of the more prominent bits of knowledge the computations provide:

- (1) A rigorous construction of the genealogical history of the witnesses to the text, something that did not previously exist.
- (2) A precise account of the genealogical history of each variant reading, including its place of origin and subsequent distribution, something that did not previously exist.
- (3) The identity of the autographic readings based on an unbiased implementation of the laws of heredity, together with the mathematical probability of each one, instead of educated estimates.
- (4) An accurate description of the content and structure of the traditional text types, and their internal and external genealogical relationships, instead of educated estimates.
 - (5) Hopefully a better understanding of the laws of heredity as they apply to manuscripts.

The laws of heredity have been applied to the factual evidence derived from the existing witnesses to the text of 2 John. They have been applied with mathematical precision apart for human intervention and bias. Hopefully the results provide a better understanding of the history of the text. In either case, no claim is made that the derived history and the text identified as autographic are free from uncertainty. The results are dependent on the validity of the underlying theory and its software implementation. Undoubtedly the future will bring forth improved theory and implementation.

James D. Price November, 2021

APPENDIX A

List of Extant Witnesses to the Greek Text of The Second Epistle of John

This appendix contains a list of the extant witnesses to the Greek text of the Second Epistle of John. For each witness it lists its name, date, language, content (references where readings exist), number of readings, and percentage of completeness. In the content column, a verse is counted as long as it has at least one extant reading.

Witness	Date	Language	Content	No. of Readings	Percent Complete
P^74%	650	0	1:6-7, 13	5	16.67%
01*	350	0	1:1-13	30	100.00%
01^2	650	0	1:1-13	27	90.00%
A*	450	0	1:1-13	30	100.00%
B*	350	0	1:1-13	30	100.00%
K*	850	0	1:1-13	30	100.00%
P025*	850	0	1:1-13	30	100.00%
044*	1000	0	1:1-13	30	100.00%
044^c	1050	0	1:1-13	30	100.00%
48%	450	0	1:1-4, 6-7, 9-13	18	60.00%
049*	850	0	1:1-13	30	100.00%
232%	450	0	1:1-4, 6-9	20	66.67%
33*	850	0	1:1-13	30	100.00%
81*	1044	0	1:1-13	30	100.00%
307	950	0	1:1-13	30	100.00%
322	1450	0	1:1-13	30	100.00%
323*	1150	0	1:1-13	30	100.00%
442	1200	0	1:1-13	30	100.00%
614*	1250	0	1:1-13	30	100.00%
623*	1037	0	1:1-13	30	100.00%
630	1300	0	1:1-13	30	100.00%
945	1050	0	1:1-13	30	100.00%
1241*	1150	0	1:1-13	30	100.00%
1241^c	1150	0	1:1-13	30	100.00%
1505*	1150	0	1:1-13	30	100.00%
1739*	900	0	1:1-13	30	100.00%
1758	1250	0	1:1-13	30	100.00%
1846	1050	0	1:1-13	30	100.00%
1852	1250	0	1:1-13	30	100.00%
1881*	1350	0	1:1-13	30	100.00%
2298	1150	0	1:1-13	30	100.00%
2464*	850	0	1:1-13	30	100.00%
pm^a	850	0	1:1-13	30	100.00%
pm^b	850	0	1:1-13	30	100.00%
TR	1892	0	1:1-13	30	100.00%
HF	1982	0	1:1-13	30	100.00%
RP	1995	0	1:1-13	30	100.00%
vg^a	400	1	1:1-13	27	90.00%

vg^b	400	1	1:1-13	27	90.00%
vg^cl	1592	1	1:1-13	28	93.33%
vg^s	1590	1	1:1-13	27	90.00%
vg^st	1994	1	1:1-13	30	100.00%
vg^ww	1889	1	1:1-13	30	100.00%
sy^h	616	1	1:1-4, 6-13	26	86.67%
sy^p	425	1	1:1-4, 6-13	24	80.00%
sy^ph	507	1	1:1-4, 6-13	28	93.33%
ac*%	250	1	1:1-4, 6-7, 9-13	20	66.67%
sa^a	250	1	1:1-4, 6-13	25	83.33%
sa^b%	250	1	1:1-4, 6-7, 9-13	20	66.67%
bo^a%	250	1	1:1-4, 6-13	23	76.67%
bo^b%	250	1	1:1-4, 6-7, 9-13	23	76.67%
1^249	850	0	1:1-13	30	100.00%
1^846	850	0	1:1-13	30	100.00%
1	1150	0	1:1-13	30	100.00%
131*	1350	0	1:1-13	30	100.00%
131^c	1300	0	1:1-13	30	100.00%
209	1350	0	1:1-13	30	100.00%
1582	949	0	1:1-13	30	100.00%
13	1250	0	1:1-13	30	100.00%
69	1450	0	1:1-13	30	100.00%
346	1150	0	1:1-13	30	100.00%
543	1150	0	1:1-13	30	100.00%
788	1050	0	1:1-13	30	100.00%
826	1150	0	1:1-13	30	100.00%
828	1150	0	1:1-13	30	100.00%
983	1150	0	1:1-13	30	100.00%
NA-27	1979	0	1:1-13	30	100.00%
Aug^a%	430	1	1:3,9	2	6.67%
Aug^b%	430	1	1:05	1	3.33%
Cass^a%	580	1	1:1-2, 3	3	10.00%
Cl^lat%	215	1	1:11	1	3.33%
Did^a%	398	0	1:09	1	3.33%
Irlat^a%	395	1	1:7-8	4	13.33%
Lcf%	371	1	1:6,9	2	6.67%
Spec%	450	0	1:11	1	3.33%

APPENDIX B

List of the References Associated with Each Place of Variation

This appendix contains a list of the references associated with each place of variation. The number to the left of the hyphen is the index number of the place of variation, and the numbers to the right constitute the reference. The reference indicates the chapter, verse, and ordered rank of the place of variation in that verse. For example, 8-1:3,4 indicates that the 8th place of variation occurs in chapter 1, verse 3, and is the 4th place of variation in that verse.

Reference at Each Place of Variation

1-1:2,1	2- 1:2,2	3- 1:2,3	4- 1:2,4	5- 1:3,1	6- 1:3,2	7- 1:3,3
8- 1:3,4	9- 1:4,1	10- 1:5,1	11- 1:6,1	12- 1:6,2	13- 1:6,3	14- 1:7,1
15- 1:7,2	16- 1:8,1	17- 1:8,2	18- 1:8,3	19- 1:9,1	20- 1:9,2	21- 1:9,3
22- 1:9,4	23- 1:11,1	24- 1:11,2	25- 1:12,1	26- 1:12,2	27- 1:12,3	28- 1:12,4
29- 1:13,1	30- 1:13,2					

Appendix C

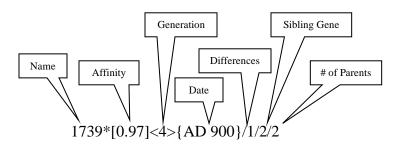
The Genealogical Tree Diagram of

The Textual History of the Second Epistle of

John

This appendix contains the tree diagram of the genealogical history of the Greek text of the Epistle of 2 John. The tree is displayed vertically rather than horizontally. That is, the autograph in the upper left corner with succeeding generations indented from the left progressively downward. Sibling daughter descendants are linked by vertical lines. For example, the first-generation descendants of the autograph are Ex-94#, Ex-99#, and Ex-100#. Only the primary exemplars are displayed, so no mixture connections are shown. The diagram spills over onto succeeding pages, but the lowercase letters at the page breaks show where the lines from one page connect to those of the next.

The format of the information on each line is as follows: (1) the name of the witness; (2) the genealogical affinity of the witness with its primary parent exemplar, enclosed in square brackets []; (3) generation from the autograph, enclosed in angular brackets <>; (4) date, enclosed in curly brackets {}; (5) the number of variants the witness differs from its primary parent, enclosed in slant marks //; (6) The number of variants in the sibling gene; and (7) the number of parents the witness has.



⁴² The names of exemplars created by the software have the prefix "Ex-" followed by a number; extant witnesses have the names provided in NA-27 as modified for compatibility with the software (discussed in Chapter Two).

Genealogical Tree of 2 John

```
Autograph[0.00]<0>\{AD 90\}/0/0/0
 |-Ex-99#[0.93]<1>{AD 200}/2/2/4
   |-B*[0.93]<2>{AD 350}/2/2/2
   |-048%[0.94]<2>{AD 450}/1/2/2
   |-0232%[0.95]<2>{AD 450}/1/2/2
   |-ac*\%[0.85]<2>{AD 250}/3/2/4
   |-sa^b%[0.85]<2>{AD 250}/3/2/4
   |-bo^a%[0.78]<2>{AD 250}/5/2/5
   |-NA-27[0.93]<2>{AD 1979}/2/2/2
   |-Did^a%[1.00]<2>{AD 398}/0/2/1
   |-Ex-92[0.83]<2>{AD 300}/5/2/4
      |-01*[0.93]<3>{AD 350}/2/5/2
      |-01^2[0.96]<3>{AD 650}/1/5/3
 |-Ex-94\#[0.87]<1>{AD 250}/4/4/2
   |-vg^cl[0.89]<2>{AD 1592}/3/4/3
   |-vg^st[0.93]<2>{AD 1994}/2/4/2
 | |-Ex-93[1.00]<2>{AD 350}/0/4/1
   | -vg^a[0.89] < 3 > {AD 400}/3/0/3
   | |-Ex-91[1.00]<3>{AD 800}/0/0/1
        |-81*[0.77]<4>{AD 1044}/7/0/4
        |-33*[0.90]<4>{AD 850}/3/0/3
   |-Ex-85[0.97]<2>{AD 300}/1/4/2
      |-Ex-84[0.90]<3>{AD 1100}/3/1/2
      | |-1241*[0.93]<4>{AD 1150}/2/3/3
      | |-1241^c[1.00]<4>{AD 1150}/0/3/1
      |-Ex-83[0.93]<3>{AD 350}/2/1/3
        |-323*[0.97]<4>{AD 1150}/1/2/2
        |-1739*[0.97]<4>{AD 900}/1/2/2
        |-Ex-79[0.83]<4>{AD 400}/5/2/3
          |-vg^ww[0.87]<5>{AD 1889}/4/5/3
          |-A*[0.97]<5>{AD 450}/1/5/2
          |-vg^s[0.85] < 5 > {AD 1590}/4/5/3
 |-Ex-100\#[0.87]<1>{AD 95}/4/4/2
   |-P^74\%[1.00]<2>{AD 650}/0/4/1
   |-Aug^a%[0.50]<2>{AD 430}/1/4/2
   |-Irlat^a%[1.00]<2>{AD 395}/0/4/1
   |-Spec%[0.00]<2>{AD 450}/1/4/2
   |-Ex-97[0.93]<2>{AD 321}/2/4/2
     |-sy^p[1.00]<3>{AD 425}/0/2/1
     |-sy^ph[1.00]<3>{AD 507}/0/2/1
    | |-Lcf%[1.00]<3>{AD 371}/0/2/1
   |-Ex-98[0.90]<2>{AD 250}/3/4/3
   a b
```

```
a b
 |-Cass^a%[0.33]<3>{AD 580}/2/3/3
 |-Ex-80[0.90]<3>{AD 566}/3/3/2
 | |-630[1.00]<4>{AD 1300}/0/3/1
| | |-1505*[0.93]<4>{AD 1150}/2/3/3
 | |-sy^h[0.96]<4>{AD 616}/1/3/3
 |-Ex-95[1.00]<3>{AD 300}/0/3/1
    |-Ex-76[0.87]<4>{AD 950}/4/0/4
    | |-044*[1.00]<5>{AD 1000}/0/4/1
    | |-044^c[1.00]<5>{AD 1050}/0/4/1
    |-Ex-82[0.87]<4>{AD 350}/4/0/4
      |-614*[1.00]<5>{AD 1250}/0/4/1
      |-vg^b[0.67]<5>{AD 400}/9/4/3
|-Ex-96[0.80]<2>{AD 115}/6/4/3
  |-Ex-88[0.90]<3>{AD 200}/3/6/4
  | |-1^249[1.00]<4>{AD 850}/0/3/1
  | |-1881*[0.83]<4>{AD 1350}/5/3/5
  | -sa^a[0.80] < 4 > {AD 250}/5/3/4
  | |-1^846[1.00]<4>{AD 850}/0/3/1
   |-bo^b%[0.83]<4>{AD 250}/4/3/4
  |-Ex-90[0.97]<3>{AD 165}/1/6/2
    |-K*[0.90]<4>{AD 850}/3/1/3
    |-HF[1.00]<4>{AD 1982}/0/1/1
    |-RP[1.00]<4>{AD 1995}/0/1/1
    |-C1^1at\%[1.00]<4>{AD 215}/0/1/1
    |-Ex-86[0.97]<4>{AD 800}/1/1/2
    | |-945[0.97]<5>{AD 1050}/1/1/2
    | |-pm^b[1.00]<5>{AD 850}/0/1/1
    | |-TR[1.00]<5>{AD 1892}/0/1/1
    |-Ex-89[0.97]<4>{AD 330}/1/1/3
      |-Ex-81[0.93]<5>{AD 380}/2/1/2
      | |-1852[0.97]<6>{AD 1250}/1/2/2
      | |-2464*[0.97]<6>{AD 850}/1/2/2
      | |-Aug^b%[1.00]<6>{AD 430}/0/2/1
      |-Ex-87[1.00]<5>{AD 700}/0/1/1
        |-1846[0.93]<6>{AD 1050}/2/0/3
        |-Ex-78[1.00]<6>{AD 750}/0/0/1
           |-pm^a[1.00]<7>{AD 850}/0/0/1
           |-049*[0.97]<7>{AD 850}/1/0/2
           |-307[0.97]<7>{AD 950}/1/0/2
           |-322[0.97]<7>{AD 1450}/1/0/2
           |-623*[0.97]<7>{AD 1037}/1/0/2
           |-2298[0.97]<7>{AD 1150}/1/0/2
```

```
|-1[1.00]<7>{AD 1150}/0/0/1
|-131*[1.00]<7>{AD 1350}/0/0/1
|-131^c[1.00]<7>{AD 1300}/0/0/1
|-209[1.00]<7>{AD 1350}/0/0/1
|-1582[1.00]<7>{AD 949}/0/0/1
|-13[1.00]<7>{AD 1250}/0/0/1
|-69[0.87]<7>{AD 1450}/4/0/4
|-346[1.00]<7>{AD 1150}/0/0/1
|-543[1.00]<7>{AD 1150}/0/0/1
|-788[1.00]<7>{AD 1050}/0/0/1
|-826[1.00]<7>{AD 1150}/0/0/1
|-828[1.00]<7>{AD 1150}/0/0/1
|-983[1.00]<7>{AD 1150}/0/0/1
|-Ex-77[0.97]<7>{AD 800}/1/0/2
  |-442[1.00]<8>{AD 1200}/0/1/1
  |-P025*[0.90]<8>{AD 850}/3/1/3
  |-1758[1.00]<8>{AD 1250}/0/1/1
```

Appendix D

List of Autographic Readings

For 2 John

This appendix contains the list of autographic readings for the Greek text of the Second Epistle of John as determined by the genealogical method described in this book. The list contains the index of each place of variation (variation unit), the associated reference, the Greek reading at that place, and the probability that the reading is autographic.

Place of Variation	Reference	Autographic Reading	Probability
1.1	1:2,1.1	□δια την ἀληθειαν	1
2.1	1:2,2.1	Γμενουσαν	1
3.1	1:2,3.1	^Γ ημιν	1
4.1	1:2,4.1	Γημων	1
5.1	1:3,1.1	΄εσται μεθ' ημων	1
6.1	1:3,2.1	Γελεος	1
7.2	1:3,3.2	π. κυριου	0.67
8.1	1:3,4.1	έτου υιου του πατρος	1
9.1	1:4,1.1	Γέλαβομεν	1
10.1	1:5,1.1	(καινην γραφων σοι	1
11.1	1:6,1.1	΄η ἐντολη ἐστιν	1
12.1	1:6,2.1	⊤ ομιτ	0.67
13.1	1:6,3.1	°ινα	0.67
14.1	1:7,1.1	Γέξηλθον	1
15.1	1:7,2.1	°0	1
16.1	1:8,1.1	Γἀπολεσητε	1
17.2	1:8,2.2	—σασθ∈	1
18.1	1:8,3.1	Γἀπολαβητ∈	1
19.2	1:9,1.2	παραβαινων	0.67
20.1	1:9,2.1	^Γ διδαχη	1
21.1	1:9,3.1	⊤ ομιτ	0.67
22.1	1:9,4.1	$^{\text{5}}$ πατ ϵ ρα και τον υιον $^{\text{T}}$	0.67
23.1	1:11,1.1	΄λεγων γαρ αὐτω	1
24.1	1:11,2.1	⊤ ομιτ	1
25.1	1:12,1.1	「εχων	1
26.1	1:12,2.1	^г γραφειν	1
27.1	1:12,3.1	΄ἀλλα ἐλπιζω γενεσθαι	0.33
28.3	1:12,4.3	υμων η πεπλ.	0.67
29.1	1:13,1.1	Γἐκλεκτης	1
30.1	1:13,2.1	⊤ ομιτ	0.67

Appendix E

List of the Places the Lachmann-10 Text

Differs from the NA-27 Text

for the Second Epistle of John

Ref.		NA-27 Reading		Lachmann Reading	Prob.
1:3,3.2	Replace NA-27 =>	^F παρα	with =>	π. κυριου	[0.67]
1:8,2.2	Replace NA-27 =>	^Γ ∈ἰργασαμ∈θα	with =>	<i>-</i> σασθ∈	[1.00]
1:9,1.2	Replace NA-27 =>	「προαγων	with =>	παραβαινων	[0.67]
1:12,4.3	Replace NA-27 =>	ήμων πεπληρωμενη η	with =>	υμων η πεπλ.	[0.67]

Appendix F

Places Where the Non-Autographic Variants Were Initiated
Only Once in the Textual History of 2 John
Arranged in Order by Reference

This appendix lists the place in the genealogical history of the text of the Book of 2 John where each non-original textual variant was first initiated, arranged in order by reference. For each variant, the table lists (1) the place of variation in the text where the variation occurred, (2) the associated reference, (3) the exemplar or extant witness in which the variant was initiated, and (4) the text of the variant. For example, the following line means:

6.2	1:3,2.2	Ex-80	υμιν και

- (1) 6.2 refers to the second variant at variation unit 6.
- (2) 1:3,2.2 is the reference where this place of variation occurs: chapter 1, verse 3, the second place of variation in this verse, the second variant there.
- (3) This variant was initiated in Exemplar Ex-80.
- (4) The variant reads: υμιν και (to you and)
- (5) Since the variant was first initiated in an exemplar, one can presume that the variant was inherited by all of the descendants of that exemplar (Ex-80) unless otherwise altered in one of its subsequent branches.

The following line means:

20.2	1:9,2.2	33*	αγαπη
------	---------	-----	-------

- (1) 20.2 refers to the second variant at variation unit 20.
- (2) 1:9,2.2 is the reference where this place of variation occurs: chapter 1, verse 9, the second place of variation in this verse, the second variant there.
- (3) This variant was initiated in terminal witness MS 33*.
- (4) The variant reads: αγαπη (love)

Since the variant was initiated in a terminal witness, it is a singularity with no inheritance.

The following line means:

7.3	1:3,3.3	Ex-103\$	κυριου
-----	---------	----------	--------

- (1) 7.3 refers to the third variant at variation unit 7.
- (2) 1:3,3.3 is the reference where this place of variation occurs: chapter 1, verse 3, the third place of variation in this verse, the third variant there.
- (3) This variant was initiated in exemplar Ex-103\$, a virtual exemplar, a source of mixture.
- (4) The variant reads: κυριου (Lord).

VarUnit	Reference	Source	Reading
1.2	1:2,1.2	Ex-102\$	ομιτ
2.2	1:2,2.2	Ex-103\$	€νοικουσαν
2.3	1:2,2.3	Ex-104\$	ουσαν
3.2	1:2,3.2	Ex-102\$	υμ—
4.2	1:2,4.2	Ex-102\$	υμ—
5.2	1:3,1.2	Ex-102\$	εστ. μεθ' υμ—
5.3	1:3,1.3	Ex-103\$	_
6.2	1:3,2.2	Ex-80	υμιν και
7.1	1:3,3.1	Ex-107\$	^F παρα
7.3	1:3,3.3	Ex-103\$	κυριου
7.4	1:3,3.4	Ex-105\$	_
8.2	1:3,4.2	Ex-102\$	2 3 4
8.3	1:3,4.3	Ex-103\$	1 2
8.4	1:3,4.4	Ex-104\$	τ. υι. τ. θεου
9.2	1:4,1.2	Ex-102\$	€λαβον
10.2	1:5,1.2	Ex-102\$	^a 2 3 1
10.3	1:5,1.3	Ex-103\$	κ. γραφω σ.
11.2	1:6,1.2	Ex-103\$	3 1 2
11.3	1:6,1.3	Ex-104\$	εσ. η εντ. αυτου
12.2	1:6,2.2	Ex-105\$	ινα
13.2	1:6,3.2	Ex-105\$	ο ομιτ
14.2	1:7,1.2	Ex-102\$	εισηλ—
15.2	1:7,2.2	Ex-102\$	ο ομιτ
16.2	1:8,1.2	Ex-96	—σωμεν
17.1	1:8,2.1	Ex-102\$	^Γ εἰργασαμεθα

18.2	1:8,3.2	Ex-96	—βωμεν
19.1	1:9,1.1	Ex-99#	「προαγων
20.2	1:9,2.2	33*	αγαπη
21.2	1:9,3.2	Ex-105\$	του Χριστου
21.3	1:9,3.3	Ex-102\$	αυτου
22.2	1:9,4.2	Ex-105\$	4 2 3 1
23.2	1:11,1.2	Ex-102\$	2 1
24.2	1:11,2.2	Ex-102\$	εχχε πραεδιξι'οβισ υτ ιν διεμ δομινι νοστρι νον χονφυνδαμινι
25.2	1 10 1 0	Е 102Ф	
25.2	1:12,1.2	Ex-103\$	εχω
26.2	1.12.2.2	Ex-103\$	γραψαι
20.2	1:12,2.2	EX-105\$	γραφαι
27.2	1:12,3.2	Ex-94#	ελπ. γαρ γεν.
27.3	1:12,3.2	Ex-105\$	αλ. ελπ. ελθειν
27.5	1.12,3.3	Σπ 105φ	
28.1	1:12,4.1	Ex-102\$	⁶ ημων πεπληρωμενη η
28.2	1:12,4.2	Ex-100#	1 3 2
29.2	1:13,1.2	Ex-102\$	εκκλησιας
30.2	1:13,2.2	Ex-102\$	η χαρις μετα σου. αμην
30.3	1:13,2.3	Ex-100#	αμην

Appendix G

Places Where the Non-Autographic Variants Were Initiated
in the Textual History of 2 John
Arranged in Order by Witness

List of Places Where Non-Autographic Variants Were Initiated in the Genealogical History, Arranged in Order by Witness Total = 43

Total = 43				
Witness	Place of Variation	Reference	Variant Reading	
33*	20.2	1:9,2.2	αγαπη	
Total for $33* = 1$				
Lcf%	11.2	1:6,1.2	3 1 2	
Total for Lcf% = 1				
Ex-80	6.2	1:3,2.2	υμιν και	
Total for Ex-80 = 1				
Ex-94#	27.2	1:12,3.2	ελπ. γαρ γεν.	
Total for Ex-94# = 1				
Ex-96	16.2	1:8,1.2	<i>—</i> σωμεν	
Ex-96	18.2	1:8,3.2	—βωμεν	
Total for $Ex-96 = 2$				
Ex-99#	19.1	1:9,1.1	「προαγων	
Total for Ex-99# = 1				
Ex-100#	28.2	1:12,4.2	1 3 2	
Ex-100#	30.3	1:13,2.3	αμην	
Total for Ex-100# = 2				
Ex-102\$	1.2	1:2,1.2	□ ομιτ	
Ex-102\$	3.2	1:2,3.2	υμ—	
Ex-102\$	4.2	1:2,4.2	υμ—	
Ex-102\$	5.2	1:3,1.2	εστ. μεθ' υμ—	
Ex-102\$	8.2	1:3,4.2	2 3 4	
Ex-102\$	9.2	1:4,1.2	<i>ε</i> λαβον	
Ex-102\$	10.2	1:5,1.2	[^] 2 3 1	
Ex-102\$	14.2	1:7,1.2	εισηλ—	
Ex-102\$	15.2	1:7,2.2	ο ομιτ	
Ex-102\$	17.1	1:8,2.1	^Γ εἰργασαμεθα	
Ex-102\$	21.3	1:9,3.3	αυτου	
Ex-102\$	23.2	1:11,1.2	2 1	

Ex-102\$	24.2	1:11,2.2	εχχε πραεδιξι'οβισ υτ ιν διεμ δομινι νοστρι νον χονφυὖ δαμινι
Ex-102\$	28.1	1:12,4.1	ήμων πεπληρωμενη η
Ex-102\$	29.2	1:13,1.2	εκκλησιας
Ex-102\$	30.2	1:13,2.2	η χαρις μετα σου. αμην
Total for Ex- 102 \$ = 16			
Ex-103\$	2.2	1:2,2.2	ενοικουσαν
Ex-103\$	5.3	1:3,1.3	-
Ex-103\$	7.3	1:3,3.3	κυριου
Ex-103\$	8.3	1:3,4.3	1 2
Ex-103\$	10.3	1:5,1.3	κ. γραφω σ.
Ex-103\$	11.2	1:6,1.2	3 1 2
Ex-103\$	25.2	1:12,1.2	εχω
Ex-103\$	26.2	1:12,2.2	γραψαι
Total for $Ex-103\$ = 8$			
Ex-104\$	2.3	1:2,2.3	ουσαν
Ex-104\$	8.4	1:3,4.4	τ. υι. τ. θεου
Ex-104\$	11.3	1:6,1.3	εσ. η εντ. αυτου
Total for $Ex-104\$ = 3$			
Ex-105\$	7.4	1:3,3.4	-
Ex-105\$	12.2	1:6,2.2	ινα
Ex-105\$	13.2	1:6,3.2	ο ομιτ
Ex-105\$	21.2	1:9,3.2	του Χριστου
Ex-105\$	22.2	1:9,4.2	4 2 3 1
Ex-105\$	27.3	1:12,3.3	αλ. ελπ. ελθειν
Total for $Ex-105$ \$ = 6			
Ex-107\$	7.1	1:3,3.1	^F παρα
Total for Ex-107 $\$$ = 1			

Appendix H

Every Place Where a Variant is Initiated in the Textual History of 2 John Arranged in Order by Reference This appendix lists every place a variant is introduced into the textual history of 2 John either initially or later by mixture. The information is arranged in order by reference as follows: (1) place of variation, (2) reference, (3) witness(es) where variant was initiated. Those witnesses enclosed in square brackets [] are places where the variant was introduced by mixture; those not enclosed are where the variant first originated. The number enclosed in \Leftrightarrow is the generation of the preceding witness. For example, the following line means:

11.1	1:6,1.1	[K*]<4>; [69]<7>; Autograph;
------	---------	------------------------------

- (1) 11.1 refers to the first variant in variation unit 11.
- (2) 1:6,1.1 is the reference where this place of variation occurs: chapter 1, verse 6, the first place of variation in this verse, the first variant there.
- (3) Autograph means that the variant was initiated in the autograph and then by mixture in MSS K* and 69.

Since the variant was first initiated in an exemplar, in this case the autograph, one can presume that the variant was inherited by all of the descendants of the autograph unless otherwise altered in one of its subsequent branches.

The following line means:

5.3	1:3,1.3	[Ex-79]<4>; [Ex-80]<3>; [Ex-81]<5>; Ex-103\$<1>;
-----	---------	--

- (1) 5.3 refers to the third variant in variation unit 5.
- (2) 1:3,1.3 is the reference where this place of variation occurs: chapter 1, verse 3, the first place of variation in this verse, the third variant there.
- (3) The variant was first initiated in first-generation virtual exemplar Ex-103\$, and subsequently initiated by mixture from Ex-103\$ into Exemplars Ex-79, Ex-80, and Ex-81.

Since the variant was first initiated in a virtual exemplar, one may safely assume that the variant randomly happened by scribal accident and not by actual mixture in a context of actual genealogical descent.

The following line means:

20.2	1.922	33*<4>;
20.2	1.7,2.2	33 (1),

- (1) 20.2 refers to the second variant in variation unit 20.
- (2) 1:9,2.2 is the reference where this place of variation occurs: chapter 1, verse 9, the second place of variation in this verse, the second variant there.
- (3) The variant was first initiated only in fourth-generation extant MS 33*. This is a singularity; it has no heredity.

Place of Variation	Reference	Places Variant is Introduced
1.1	1:2,1.1	[Ex-79]<4>; Autograph;
1.2	1:2,1.2	[Ex-85]<2>; [Ex-98]<2>; Ex-102\$<1>;
2.1	1:2,2.1	[vg^s]<5>; [vg^ww]<5>; Autograph;
2.2	1:2,2.2	[048%]<2>; [Ex-79]<4>; Ex-103\$<1>;
2.3	1:2,2.3	[33*]<4>; [ac*%]<2>; [sa^a]<4>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<4>; Ex-104\$<1>;
3.1	1:2,3.1	Autograph;
3.2	1:2,3.2	[P025*]<8>; [81*]<4>; [vg^b]<5>; Ex-102\$<1>;
4.1	1:2,4.1	Autograph;
4.2	1:2,4.2	[P025*]<8>; [81*]<4>; [vg^b]<5>; Ex-102\$<1>;
5.1	1:3,1.1	Autograph;
5.2	1:3,1.2	[81*]<4>; [vg^cl]<2>; [vg^ww]<5>; [bo^b%]<4>; [Ex-86]<4>; Ex-102\$<1>;
5.3	1:3,1.3	[Ex-79]<4>; [Ex-80]<3>; [Ex-81]<5>; Ex-103\$<1>;
6.1	1:3,2.1	Autograph;
6.2	1:3,2.2	Ex-80<3>;
7.1	1:3,3.1	[81*]<4>; [vg^cl]<2>; [vg^st]<2>; [Ex-83]<3>; [Ex-98]<2>; [Ex-99#]<1>; [Ex-102\$]<1>; Ex-107\$<1>;
7.2	1:3,3.2	[01^2]<3>; [sy^h]<4>; [Ex-82]<4>; Autograph;
7.3	1:3,3.3	[01*]<3>; [1881*]<4>; [Ex-80]<3>; Ex-103\$<1>;
7.4	1:3,3.4	[1505*]<4>; [vg^b]<5>; [sa^a]<4>; [Aug^a%]<2>; [Cass^a%]<3>; [Ex-104\$]<1>; Ex-105\$<1>;
8.1	1:3,4.1	Autograph;
8.2	1:3,4.2	[1505*]<4>; [1852]<6>; [Ex-76]<4>; Ex-102\$<1>;
8.3	1:3,4.3	[945]<5>; [Cass^a%]<3>; Ex-103\$<1>;
8.4	1:3,4.4	[1881*]<4>; [vg^b]<5>; Ex-104\$<1>;
9.1	1:4,1.1	Autograph;
9.2	1:4,1.2	[33*]<4>; [Ex-92]<2>; Ex-102\$<1>;
10.1	1:5,1.1	[69]<7>; Autograph;
10.2	1:5,1.2	[B*]<2>; [Ex-96]<2>; Ex-102\$<1>;
10.3	1:5,1.3	[81*]<4>; [623*]<7>; [1241*]<4>; [Ex-76]<4>; [Ex-81]<5>; Ex-103\$<1>;
11.1	1:6,1.1	[K*]<4>; [69]<7>; Autograph;
11.2	1:6,1.2	[81*]<4>; Lcf%<3>; [Ex-82]<4>; [Ex-96]<2>; Ex-103\$<1>;
11.3	1:6,1.3	[1846]<6>; [Ex-92]<2>; Ex-104\$<1>;
12.1	1:6,2.1	[81*]<4>; [1881*]<4>; Autograph;
12.2	1:6,2.2	[K*]<4>; [0232%]<2>; [ac*%]<2>; [sa^b%]<2>; [bo^a%]<2>; [69]<7>; [Ex-82]<4>; [Ex-88]<3>; [Ex-92]<2>; [Ex-94#]<1>; [Ex-102\$]<1>; [Ex-103\$]<1>; Ex-105\$<1>;
13.1	1:6,3.1	[A*]<5>; Autograph;
13.2	1:6,3.2	[K*]<4>; [ac*%]<2>; [sa^a]<4>; [sa^b%]<2>; [bo^a%]<2>; [bo^b%]<4>; [Ex-82]<4>; [Ex-94#]<1>; [Ex-102\$]<1>; Ex-105\$<1>;
14.1	1:7,1.1	[sa^a]<4>; Autograph;

14.2	1:7,1.2	[bo^a%]<2>; [Ex-96]<2>; Ex-102\$<1>;
15.1	1:7,2.1	Autograph;
15.2	1:7,2.2	[322]<7>; [323*]<4>; [1241*]<4>; [1846]<6>; [2464*]<6>; [Ex-92]<2>; Ex-102\$<1>;
16.1	1:8,1.1	Autograph;
16.2	1:8,1.2	Ex-96<2>;
17.1	1:8,2.1	[B*]<2>; [NA-27]<2>; [Ex-96]<2>; Ex-102\$<1>;
17.2	1:8,2.2	Autograph;
18.1	1:8,3.1	Autograph;
18.2	1:8,3.2	Ex-96<2>;
19.1	1:9,1.1	[vg^st]<2>; [sa^a]<4>; [bo^b%]<4>; [Ex-79]<4>; Ex-99#<1>;
19.2	1:9,1.2	Autograph;
20.1	1:9,2.1	Autograph;
20.2	1:9,2.2	33*<4>;
21.1	1:9,3.1	[Ex-76]<4>; [Ex-88]<3>; Autograph;
21.2	1:9,3.2	[vg^a]<3>; [bo^a%]<2>; [Ex-100#]<1>; [Ex-103\$]<1>; Ex-105\$<1>;
21.3	1:9,3.3	[vg^b]<5>; [Ex-97]<2>; Ex-102\$<1>;
22.1	1:9,4.1	[vg^a]<3>; [vg^cl]<2>; [vg^s]<5>; Autograph;
22.2	1:9,4.2	[1881*]<4>; [69]<7>; [Ex-94#]<1>; [Ex-102\$]<1>; Ex-105\$<1>;
23.1	1:11,1.1	[Ex-89]<4>; Autograph;
23.2	1:11,1.2	[049*]<7>; [Ex-90]<3>; Ex-102\$<1>;
24.1	1:11,2.1	Autograph;
24.2	1:11,2.2	[vg^b]<5>; [Spec%]<2>; Ex-102\$<1>;
25.1	1:12,1.1	[1739*]<4>; [vg^s]<5>; [vg^ww]<5>; Autograph;
25.2	1:12,1.2	[01*]<3>; [Ex-83]<3>; Ex-103\$<1>;
26.1	1:12,2.1	[vg^s]<5>; [vg^ww]<5>; Autograph;
26.2	1:12,2.2	[2298]<7>; [Ex-79]<4>; Ex-103\$<1>;
27.1	1:12,3.1	[Ex-98]<2>; Autograph;
27.2	1:12,3.2	Ex-94#<1>;
27.3	1:12,3.3	[vg^b]<5>; [Ex-84]<3>; [Ex-100#]<1>; [Ex-102\$]<1>; Ex-105\$<1>;
28.1	1:12,4.1	[vg^b]<5>; [NA-27]<2>; [Ex-92]<2>; Ex-102\$<1>;
28.2	1:12,4.2	[Ex-84]<3>; Ex-100#<1>;
28.3	1:12,4.3	[1881*]<4>; Autograph;
29.1	1:13,1.1	Autograph;
29.2	1:13,1.2	[307]<7>; [vg^b]<5>; Ex-102\$<1>;
30.1	1:13,2.1	[P025*]<8>; [Ex-76]<4>; [Ex-88]<3>; Autograph;
30.2	1:13,2.2	[vg^a]<3>; [Ex-77]<7>; [Ex-97]<2>; Ex-102\$<1>;
30.3	1:13,2.3	[Ex-84]<3>; Ex-100#<1>;

GLOSSARY OF TERMS

- Boldfaced words in the following definitions refer to other terms defined in this glossary.
- **Affinity**: the degree to which two **witnesses** to a text have the same readings. Affinity consists of two components: **Quantitative Affinity** and **Genetic Affinity**.
- **Antiquity**: the characteristic of a **reading** being older than the **witness** in which it occurs. An inherited reading has antiquity, that is, it is older than the witness in which it occurs. See **inheritance**. A newly initiated reading lacks antiquity, that is, it is only as old as the witness in which it originated. A reading introduced by mixture is only as old as its age in its source of mixture. In the reconstruction process, the software recognizes the antiquity of a reading by its presence in other witnesses in the active database.
- **Autograph:** The original document written by the hand of its author or by his secretary to whom he dictated its text.
- **Autographic Text:** The words originally written in an original document.
- **Commonness:** A measure of the degree to which **witnesses** to a given text share the same value of a genetic characteristic of the text. See Commonness of Place of Variation and Commonness of Reading.
- Commonness of Place of Variation: The degree to which two witnesses to a given text have the same places of variation regardless of the readings at those places—that is, they share a common portion of the text. The Commonness of Place of Variation of A with B = the number of places of variation where both A and B have a reading, where A and B are witnesses to the same text. This measure is important for dealing with fragmentary witnesses. Two witnesses that both have a complete text have 100% Commonness of Place of Variation.
- **Commonness of Readings:** A measure of the degree to which two **witnesses** to a text have the same **readings**. It is calculated as follows: The Commonness of Readings of A with B = the number of **places of variation** where both A and B have the same **reading**, where A and B are **witnesses** to the same text.
- **Completeness:** A measure of how much of a text a particular **witness** contains. It is calculated as follows: The Completeness of $A = (\text{the number of places of variation } A \text{ has of the text}) \div (\text{the total number of places of variation in the text}), where A is a$ **witness**to the text. This measure is important for dealing with fragmentary**witnesses**.
- **Content:** A list of the **places of variation** a **witness** contains, expressed in terms of references (chapter and verse)—that is, that portion of the text the **witness** contains.
- **Deferred Ambiguity**: The principle of deferred ambiguity states that when consensus fails to recover a reading of an exemplar being reconstructed, the sister of that exemplar will have the inherited reading in the next prior generation.

Distribution: the characteristic of a **reading** occurring in more than one text tradition. An original reading occurs in more than one first-generation exemplar. An original reading is expected to have both first-generation distribution and antiquity.

Exemplar: A **witness** from which other **witnesses** have been copied. The software creates exemplars in the process of reconstructing the genealogical history of a text.

Fragment: A witness that is missing part of its text due to damage or deterioration.

Genetic Affinity: see **Quantitative Affinity**.

Genetic Dominance: A **reading** has genetic dominance as long as it is inherited by the **descendants** of the exemplar in which it first occurs. It loses genetic dominance at any place in the genetic history of the exemplar in which it occurs where an alternate reading replaces it.

Heredity: That characteristic of a **reading** correctly copied into a daughter **witness** of the **exemplar** in which the reading is found.

Inheritable Variant: A variant initiated by one of the ancestor exemplars of a witness.

Inheritance: That characteristic of a **reading** correctly copied from the parent **exemplar** of the **witness** in which the reading is found. An inherited reading is passed down from prior ancestor exemplars.

Inheritance Persistence: The inheritance persistence of a witness is the ratio of the number inheritable variants to the number of actually inherited ones.

Lectionary: A **manuscript** edited and arranged in sections assigned for reading in the Church at specified times in the liturgical calendar—something like a hymnbook.

Majuscule: A manuscript written in all capital letters.

Manuscript: A handwritten copy of a text made from an earlier copy (**exemplar**). The term is sometimes used as a synonym of *witness*.

Minimal Reading: The reading of a witness that occurs least often in the working database.

Minuscule: A **manuscript** written in lower case characters.

Papyri: Manuscripts copied on paper made from papyrus. They are usually rather early, but mostly fragmentary.

Parent Exemplar: The manuscript from which another manuscript was directly copied.

Place of Variation: A place in a text where the **witnesses** to the text have different **readings**. In the data base, each place of variation is assigned a sequential index number in order to distinguish them from one another; each one also has assigned to it the chapter and verse where it occurs in the text.

Primary Parent: The **parent exemplar** of a **witness** from which it derives most of its readings, and its place in the tree diagram that maps the genealogical history of the text. A witness has only one primary parent exemplar.

- **Quantitative Affinity:** A measure of the degree to which **witnesses** to a given text are genetically related. The mutual quantitative affinity between two witnesses is the inverse ratio of the number of places the two witnesses have the same readings to the number of places their readings are different.
- **Reading:** At each **place of variation** in a text, the **witnesses** have different words. The words contained in a given witness at a particular **place of variation** constitute the *reading* of that witness at that place. The reading may be a word, phrase, sentence, verse, etc., or nothing at all (an omission).
- **Recension:** A recension is understood to be a **witness** derived from multiple sources and having a significant number of variations from its **primary parent exemplar**. A recension was a deliberate alteration of a text tradition for the purpose of correction or improvement. A recension occurred when a Christian community noted that their Bibles (**manuscripts**) had different **readings**, and there was an attempt to recover the readings of the **autograph**. This likely took place under the authority of the leadership of the community and was carried out by competent scribes. It is possible that in some recensions some of the corrections were made to strengthen the doctrines of the community.
- **Secondary Descendant:** A descendant of a **secondary parent** functioning as a source of mixture for the given descendant.
- **Secondary Parent:** A parent exemplar of a witness other than the **Primary Parent Exemplar**. Secondary parents are the sources of mixture for their **secondary descendants**.
- **Siblings:** Sisters, first generation descendants (copies) of the same **exemplar**.
- **Sibling Gene:** The collection of **minimal readings** a **witness** has that occur only in it and its **sibling** sisters. These are the readings where the text of the parent exemplar of the siblings differs from the text of its genealogical ancestors.
- **Stemma**: A tree diagram of the genealogical relationships of the witnesses to the text of an ancient literary composition.
- **Stematics:** Stematics is the method used for recovering the original text of the ancient Greek and Latin classics, also known as the family-tree method.
- **Uncial:** A **manuscript** written in all capital letters.
- Variant Heredity: The characteristic of variant readings that provides a measure of the likelihood that a given reading in a particular witness A has been inherited from another witness B in an earlier generation. It is quantified as the **genetic distance** between witness A containing the given reading and another witness B in an earlier generation containing the same reading. The witness B having the least genetic distance from witness A is the closest near relative of A with respect to the given reading. A reading has no variant heredity until after it is first initiated somewhere in the genealogical history of the text.

Variant Reading: See Reading.

Variation Unit: See *Place of Variation*.

- **Version:** A translation of a document into a language other than that of the original document itself.
- **Virtual Exemplar:** An **exemplar** created by the software to account for same-generation mixture. These exemplars do not contribute to the primary structure of the tree diagram.
- **Witness:** A **manuscript** of a document in its original language, or a translation of that document into another language, or a quotation of the text of a **manuscript** or translation.

BIBLIOGRAPHY

- Aland, Kurt, and Barbara Aland. *The Text of the New Testament*, trans. by Erroll F. Rhodes. Grand Rapids: Wm. B. Eerdmans Publishing Co., 1987.
- ______, and others. "The International Greek New Testament Project: A Status Report," JBL 87.2 (1968) 187-197.
- Carlson, Stephen C. "The Origin(s) of the 'Caesarean' Text," a paper presented at the Society of Biblical Literature in 2005.
- _____. "The Text of Galatians and Its History," a Ph.D. dissertation, Graduate Program in Religion, Duke University, 2012.
- Colwell, Ernest C. "Genealogical Method: Its Achievements and its Limitations," *Journal of Biblical Literature* 66 (1947).
- Dearing, V. A. *Principles and Practices of Textual Analysis*. University of California Press, 1974.
- ______. "Textual Analysis: A Consideration of Some Questions Raised by M. P. Weitzman," *Vetus Testamentum*, 29.3 (1979) 355-359.
- Ehrman, Bart D. *The Orthodox Corruption of Scripture*. New York: Oxford University Press, 1993.
- Epp, E. J. "The Claremont Profile-Method for Grouping New Testament Minuscule Manuscripts," in B. L. Daniels and M. J. Suggs, eds., *Studies in the History and Text of the New Testament*, vol. 29 of Studies and Documents. Salt Lake City: 1967; 27-38.
- Froger, Dom J. La critique des textes et son automatisation. Paris, 1968.
- _____. "La critique des textes et L'ordinateur," Viligante Christianae, 24.3 (1970) 210-217.
- Griffith, J. G. "Numerical Taxonomy and Some Primary Manuscripts of the Gospels," *JTS* 20 pt. 2 (1969) 389-406.
- Harary, Frank. *Graph Theory*. Reading, MA: Addison-Wesley, 1969.
- Hardmeier, Christof, Eep Talstra, and Bertram Salzmann. *The Stuttgart Electronic Study Bible* (Stuttgart, Germany: The German Bible Society, 2004).
- Hennig, Willi. *Phylogenetic Systematics* (English trans. and extensively rev., D. Dwight Davis & Rainer Zangerl). Urbana: U. Ill. Press, 1966.

- Hodges Zane C. and Arthur L. Farstad, *The Greek New Testament According to the Majority Text*. Nashville: Thomas Nelson Publishers, 1982.
- Nestle-Aland Novum Textamentum Graece, 27th edition. Stuttgart: German Bible Society, 1993.
- Maas, Paul. *Textual Criticism*, translated from the German by Barbara Flower. Oxford: The Clarendon Press, 1958.
- McReynolds, P. "The Value and Limitations of the Claremont Profile Method," *SBL*, Book of Seminar Papers (Sept 1972) 1.1-7.
- Metzger, Bruce M. A Textual Commentary on the Greek New Testament. New York: The United Bible Societies, 1971.
- _____. *The Text of the New Testament: Its Transmission, Corruption, and Restoration*, 3rd enlarged edition. New York: Oxford University Press, 1992.
- Metzger, Bruce M. and Bart D. Ehrman. *The Text of the New Testament: Its Transmission, Corruption, and Restoration*, 4th ed. New York: Oxford University Press, 2005.
- Mink, Gerd. "Contamination, Coherence, and Coincidence in Textual Transmission: The Coherence-Based Genealogical Method (CBGM) as a Complement and Corrective to Existing Approaches," in *The Textual History of the Greek New Testament: Changing Views in Contemporary Research*, eds. Klaus Wachtel and Michael Holmes. Atlanta: Society of Biblical Research, 2011.
- Novum Testamentum Graece. Stuttgart: Deutsche Bibelgesellschaft, 1997.
- Pickering, Wilbur N. *The Identity of the New Testament Text*, 2nd edition. Nashville: Thomas Nelson Publishers, 1980.
- Platnick, Nelson I. and H. Don Cameron, "Cladistic Methods in Textual, Linguistic, and Phylogenetic Analysis," *Sys. Zool.* 26 (1977): 380-385.
- Poole, Eric. "The Computer in Determining Stemmatic Relationships," *Computers and the Humanities*, 8 (1974) 207-216.
- Price, James D. "A Computer Aid for Textual Criticism," *Grace Theological Journal* 8.1 (1987) 115-30.
- _____. "A Computer-Aided Textual Commentary on the Book of Philippians," *Grace Theological Journal* 8.2 (1987) 253-90.

- Rahlfs, Alfred. Septuaginta, II vols. 6th ed. Stuttgart: Deutsche Bibelgesellschaft, nd.
- Richards, W. L. *The Classification of the Greek Manuscripts of the Johannine Epistles. SBLDS* 35; Missoula: Scholars Press for *SBL*, 1977.
- _____. "A Critique of a New Testament Text-Critical Methodology—The Claremont Profile Method," *JBL* 96 (1977) 555-556.
- Robinson, Maurice A. and William G. Pierpont. *The New Testament in the Original Greek, Byzantine Textform.* Southborough, Massachusetts: Chilton Book Publishing, 2005.
- Robinson, Peter M. W. "Computer-Assisted Stemmatic Analysis and 'Best-Text' Historical Editing," in Pieter van Reenen & Margot van Mulken, eds., *Studies in Stemmatology*. Amsterdam: Benjamins, 1996.
- Robinson, Peter M. W. and Robert J. O'Hara, "Report on the Textual Criticism Challenge 1991," *Bryn Mawr Classical Review* 3 (1992): 331-337.
- Scrivener, F. H. A. H KAINH ΔΙΑΘΗΚΗ: The New Testament, The Greek Text Underlying the English Authorized Version of 1611. London: The Trinitarian Bible Society, n.d.; reprint of the Cambridge University edition of 1902.
- Wachtel, Klaus. "Conclusions," in *The Textual History of the Greek New Testament: Changing Views in Contemporary Research*, eds. Klaus Wachtel and Michael Holmes. Atlanta: Society of Biblical Research, 2011.
- Wisse, F. The Profile Method for the Classification and Evaluation of Manuscript Evidence, as Applied to the Continuous Greek Text of the Gospel of Luke. Grand Rapids: 1982.
- Weitzman, M. P. Vetus Testamentum. 27.2 (1977) 225-235.
- Zarri, Gian Piero. "Algorithms, *stemmata codicum*, and the Theories of Dom H. Quentin," in *The Computer and Literary Studies*, eds. A. J. Aitken, R. W. Bailey, and N. Hamilton-Smith (Edinburg, 1973), 225-238.
- . "Some Experiments in Automated Textual Criticism," paper presented at the International Conference on Computers in the Humanities, Minneapolis, 1973.
- _____. "A Computer Model for Textual Criticism?" in *The Computer In Literary and Linguistic Studies*, eds. Alan Jones and R. F. Churchhouse. Cardiff: 1976; 133-55.