The rise and fall of the passive auxiliary weorðan and strict Verb-Second in the history of English

Reichenbach events in diachrony

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Abstract

The rise and fall of the passive auxiliary weorðan (WERDEN) in the history of English is investigated. We provide a new structural analysis of why and in what languages the passive diathesis can / cannot use the copula BE as auxiliary. We will do so in a comparative perspective within Germanic and Romance. We provide 1. language internal structural variation in BE and WERDEN as passive auxiliaries in relation with Verb-Second, 2. cross-linguistic i.e. comparative data of this variation 3. diachronic data on Old English weorðan that ties the need of a separate passive auxiliary to the Verb second constraint. It turns out that Old English displays a temporary rise and fall of strict-V2 around 1000, as well as a rise and fall of weorðan, which developments can be related because they comply to Kroch's Constant Rate Hypothesis (CRH). Finally, we sketch the first contours of a grammatical model that umbrellas tense/aspect, V2, and the passive diathesis, which predicts this correlation. By modifying Giorgi's projection of the Reichenbachian event indexes S,E, and R onto the syntax, we show that the (in)equality of these indexes is not ruled by structural templates stored in the lexicon, but are dynamically ruled by the syntax.

1. The decline of weorðan in English

1.1 The problem

Let us first sketch the problem. While in French, Portuguese and English the static copula BE can be used as passive auxiliary, as illustrated in (1-3), this is not possible in for instance German, Dutch and Frisian, illustrated in (4-6). Instead of the copula, German, Dutch and Frisian make use of a separate passive auxiliary that we will gloss with WERDEN, after the German infinitival form. It is derived of the inchoative copular verb *werden* 'become' rather than from the static copular *sein*.

- (1) a. Les enfants **sont** complètemente dépendants des parents
 - b. Les enfants **sont** toujours mis au lit avant 8 heures par l'un des parents
- (2) a. As crianças **são** totalmente dependentes dos adultos
 - b. As crianças são sempre colocados na cama antes das 8 horas por um dos pais
- (3) a. The children **are** completely dependent on their parents
 - b. The children are always brought to bed by their parents before 8 o'clock

- (4) a. Die Kinder **sind** ganz und gar der Eltern abhänglich
 - b. Die Kinder werden immer vor 08.00 Uhr von einem der Eltern ins Bett gebracht
- (5) a. De kinderen **zijn** geheel afhankelijk van de ouders
 - b. De kinderen **worden** altijd vóór 8 uur naar bed gebracht door één van de ouders
- (6) a. De bêrn **binne** hielendal ôfhinklik fan 'e âlders
 - b. De bêrn **wurde** altyd fuar achten op bêd brocht troch ien fan 'e âlders

Old-English patterns with Continental Germanic in having a separate passive auxiliary weorðan (7b), next to the copula beon/wesan, illustrated in (7a).

(7) a. he **wæs** bes biscopes nefe of Searesbyrig CMPETERB,44.91.... he was the GEN bishop cousin of Salisbury 'He was the cousin of the bishop of Salisbury'

b. Pa wurdon hig mid unwisdome gefyllede then were they with fury filled 'Then they were filled with fury'

(c 1025. Lk (WSCp))

Modern English (3ab) patterns with the Romance languages, while Old-English seems to be more like the Continental West Germanic. The passive use of *weorðan* disappears after 1200 gradually, and is absent at the beginning of the Middle English period. Many studies have made this change in the history of English to their object of research. Why did it happen? How did it happen? Did it happen because of external influences or are their language-internal causes? Is it a consequence of the gradual disappearance of the inchoative copular itself? A problem is that BE was always used next to *weorðan* as a passive auxiliary, i.e. there is not an attested "pure stage" of *weorðan*. Both auxiliaries were usually mixed, as illustrated in (8) taken from one Chronicle, written around 900, where *wesan* and *weorðan* seem in alternation: a king in 651 is killed with *beon*, a king in 654 is killed with *weorðan*.

(8) a. Her Oswine kyning **wæs** ofslægen [...] (Annal 651) b. Onna cyning **wearþ** ofslægen. (Annal 654) 'In 651 King Oswine was killed [...] In 654 King Onna was killed.'

Did they have different semantics (Petré 2014)? Or did *wesan* simply outcompete *weorðan* because of its higher frequency, cf. Zieglschmid's (1931, Mitchell (1985)? Was it a calque, a borrowing from Latin or French (Klingebiel 1937, Green 2009)? Or had it a structural cause, as Petré (2010) argues? In this paper, we will make grammatical, comparative, and diachronic study of the passive auxiliary in eventive contexts. The literature on this subject is rich and we have not the illusion to cover, discuss and evaluate all the proposals. We refer to Petré (2010)'s dissertation for a recent and comprehensive description and rejection of most of these proposals. Petré argues that the change from *weorðan* to BE is related to changing discourse properties of the language. Our study can be seen as a modification, more precisely, a syntactisation of Petré's proposal. We add new synchronic correlations that should be taken into account and apply them to the diachronic problem of the decline of *weorðan*.

1.2 Previous approaches

As said in the introduction, many scholars have studied the decline of weorðan in the history of English. They have attributed the decline either to external competition (i.e. the influence of French) or as internal competition: the more frequent verb BE was a competitor. Neither of them consider the possible grammatical causes or study, at least, the grammatical impact of the change. Only Petré (2010) considers structural causes in the different discourse properties of the constructions with BE and with WERDEN. He does so from a pragmatic perspective. The results are convincing but the correlations seem to be derived rather than direct. To what extent Petré's discourse approach is orthogonal to the semantic stand taken in Petré (2014) is unclear to me. Though we adopt a purely formal syntactic approach to the decline of weorðan, our explanation, which attributes the decline in the changes in Verb-second, can be seen as a syntactic variant of Petré's. As changes in V2 has attested impact in the discourse structure of a language (Los 2009, Van Kemenade & Westergaard 2014), we should not be

surprised if we see a correlation. However, we argue that the link is mediated via the syntax: the correlation with the syntactic phenomenon of V2 is significant, while it is weak and derived with the discourse properties.

The structure of this study is as follows. First we provide synchronic grammatical evidence from a range of Germanic languages and dialects indicating that the need of WERDEN is not absolute, but is a function of the syntactic context. We consider two configurations: tense/aspect periphrasis and passive of causative constructions in Dutch (dialects). It appears that the simpler the syntactic construction is, i.e. the less syntactic domains the syntactic construction has, the more WERDEN is needed over and above BE. We show that similar effects can be observed in Romance languages with V2: Rhaeto-Romance and Old French. In section 3 we make an inventory of the relevant languages studied in section 2 and show that there is a correlation with V2. In section 4 we apply this to English and study the correlation between choice between WERDEN and BE as a passive auxiliary correlates with the fall of V2. We carry out a corpus study on the parsed corpora YPC, YCOE and PPCME2, re-ordered according the Petré's LEON periodisation. It turns out that the fall of WERDEN (around 1100) is not related with the fall of V2 (around 1450), but rather of the rise and fall of Strict V2 (around 1100). While English had and still has a V2-property of the operator type seen in Gothic (Fuss 2003), there is a ephemeral rise and fall of strict V2, as we know it from German, Dutch and the Scandinavian languages: even non-operator constituents trigger V2 when they are fronted. This ephemeral rise and fall of strict V2 and the rise and fall of weorðan peak around 1100. We discuss Kroch's Equal Rate Hypothesis and argue that the two peaks can be tied to a shared underlying parameter: while the activation times differ slightly but significantly, their rates are equal within the error. These two failed changes are probably tied to the rise of periphrastic passive constructions as such, be it with BE or with WERDEN, which was a successful change, the conclusion that weorðan was a failed change, peaking around 1100, and confirm the observation in Strang 1970, corroborated in Petré 2010, that weorðan as a passive auxiliary never played a dominant role in the history of English. We finish the paper with a theoretical proposal that links V2 and the inhibition to use BE as a passive present tense auxiliary.

2. Sensitivity to tense/aspect periphrasis

In this section we give a grammatical study of the use of WERDEN as a passive auxiliary in function of tense /aspect periphrasis. It shows that the choice between BE and WERDEN is not ruled by the lexicon and cannot be an arbitrary spellout effect. WERDEN and BE show different syntactic interactions. We study Dutch, Raeto-Romance, and Old French.

2.1 Aspect sensitivity in Dutch (dialects)

2.1.1 Standard Dutch

Standard Dutch is a language that has a specific passive auxiliary *worden*, the cognate of German *werden*. However, while German uses *werden* in all tenses and aspects, Dutch only uses werden in present (10b) and the simple past (11b).

(10) a. Jan kust Marie John kisses Mary 'John kisses Mary' present, active

b. Marie **wordt** door Jan gekust present, passive Mary WERDEN.pres by John kissed

'Mary is kissed/being kissed by John'

(11) a. Jan kuste Marie past, active

John kissed Mary

'John kissed/was kissing Mary'

b. Marie **werd** door Jan gekust past, passive

Mary WERDEN.past by John kissed 'Mary was (bing) kissed by John'

In perfect tenses Dutch uses BE, as shown in (12a). This verb BE is a convolute of the perfect auxiliary and the passive auxiliary into one verbal form. Traditional grammarians have assumed that there is a deleted *worden* in these constructions, as this is the overt form in some (Northern) dialects (12b).

(12) a. Marie is door Jan gekust perfect, passive (Standard)
Mary AUX.perf.pass by John kissed

'Mary has been kissed by John'

b. Marie is gisteren door Jan gekust geworden perfect, passive (dialectal)
Mary AUX.perf yesterday by John kissed AUX.pass

'Mary was kissed by John yesterday'

However, there is no need for this assumption of a deleted WERDEN, as all unaccusative verbs display the same property.

(13) a. Marie gaat naar Amsterdam Mary goes to amsterdam

> b. Marie is naar Amsterdam gegaan perfect Mary AUX.pass.perf to Amsterdam gone

Dutch shows auxiliary selection in perfect tenses, i.e. it uses HAVE with unergative verbs and BE with unaccusatives. So, the AUX in (13b) does not only encode perfect tense, but also passive argumental licensing: AUX.perf.pass. This has apparently be generalized in the standard language to agentive passive constructions as in (12a).

Notice that the Dutch AUX + ptc can not only be used with a perfect tense reading but also with a past tense reading, i.e. it is a punctual past that is combinable with a past adverbials like *gisteren* 'yesterday', illustrated in (14a). The same is true for the passive past (14b). This implies that (14b) is not a static passive, as it would be combinable with present tense reading only. The fact that it is combinable with adverbs like *gisteren* 'yesterday' or *vorig jaar* 'last year' shows it is an active argumental passive.

(14) a. Jan heeft **gisteren** hard gewerkt composed tense with past reading John has yesterday hard worked Yesterday, John worked very hard'

b. Marie is **gisteren** door Jan gekust
Mary AUX.perf.pass yesterday by John kissed

We conclude that Standard Dutch selects WERDEN in present and simple past tenses, and BE in perfect tenses, whatever its reading is, past or perfect. This suggests that it is the higher

complexity in the perfect tenses that allows for BE and that it is the simplex nature of imperfect tenses that requires WERDEN.

2.1.2 Passives of causative constructions in Dutch and Middle Dutch

Similar sensitivity to the complexity of the construction can be observed in long passives of causative constructions. The passive diathesis is generally not possible in causative constructions with *laten* 'let'. In rare cases, *laten*+V restructures to one complex verb, as in *laten weten* 'inform', *laten vallen* 'drop', *laten gaan* 'let go'. It then allows for a passive for some speakers of Dutch (Coopmans 1985:68ff).

- (15) a. % Dat is hem op tijd laten weten
 That AUX.perf.pass him in time make know
 'that was told to him in time'
 - b. % Dat is door iemand laten vallen that AUX.perf.pass by someone made fall 'That was dropped by someone'
 - c. % Deze steen is gisteren op dit huis laten vallen (Coopmans 1985:88) this stone is yesterday on this house made fall 'This stone was dropped on this house yesterday'

In (15a) the derived subject *dat* has moved from the object position of the embedded predicate *weten* 'know' to the structural subject position. It is a "long passive" (Burzio 1986, Kayne 1974). What Coopmans does not observe, is that these constructions are completely impossible in the present tense, i.e. if we select *worden* instead of BE, as (16) shows.

- (16) a. *Dat wordt hem laten weten that AUX.pass him made know 'That will be told to him'
 - b. *Deze steen wordt morgen op dit huis laten vallen this stone is yesterday on this house made fall 'This stone was dropped on this house yesterday'

The passive causative construction also occurs in Middle Dutch. Curiously. However, all 10 examples mentioned in Verdam 's *Dictionary of Middle Dutch* are cases with BE, not one with *worden* is reported (Verdam 1911, *s.v.* laten, p. 199).

- (17) a. Also't hemlieden **was** ghelaten weten As it to-them was let.ptc know 'as was acknowledged to them'
 - b. Die biscop wort ghevaen ende **was** seder ghelaten gaen the bishop was captured and was since let.ptc go 'The bishop was captured ans later released'

This suggests that too much complexity, be it structural or featural, prevents WERDEN to sit in this passive construction. We may hypothesize that while BE is simple, WERDEN is complex and it is this inherent complexity that resists insertion in complex configurations. We come back to this. The situation in Standard Dutch can be compared to Latin that uses a morphological passive morphology in imperfect tenses, but periphrastic forms with BE in perfect tenses. This BE auxiliary in Latin is a convolute of passive auxiliary and perfect

auxiliary, quite similar to the situation in Dutch. The morphological passive is unavailable in perfect tenses, only periphrastic constructions.

2.1.3. WERDEN in Dutch dialects

The situation is slightly more transparent in Dutch dialects, as these do not use the convolute strategy as Standard Dutch does. While in all dialects WERDEN is used in non-composed tenses, they make use of either BE or WERDEN in composed tenses. In Flemish, WERDEN is used in non-composed tenses, but BE is used in composed tenses.

Jan wordt geslagen (Flemish) (18)a. WERDEN

John WERDEN.pres.3g hit

'John is (being) hit'

Jan is geslagen geweest b. BE

John BE.perf.3g hit BE.ptc

'John has been hit'

In the Limburgian Eigenbilzen dialect (SAND Q086p), WERDEN is used in non-composed tenses, while there is an optionality of WERDEN and BE in composed tenses.

(19)Jan wordt voortdurend geslagen WERDEN a.

John WERDEN.3sg all-the-time hit

'John is hit al the time'

Jan is geslagen **geworden/geweest** b. WERDEN/BE

John AUX.perf.3sg hit.ptc WERDEN.ptc/BE.ptc

'John has been hit'

Some Flemish dialects have this optionality as well. In the North Eastern dialects of Dutch, WERDEN is used in all tenses and aspect, just as in German.

2.2 Aspect sensitivity in Rhaeto-Romance

In Rhaeto-Romance, the passive auxiliary is derived form venir 'to come'. We give two examples from Vallader and Surselvan, both taken from Haiman & Benincà (1992) in (20a) and (20b), respectively. We take these as examples of WERDEN.

(20)a. Jaw venəl klam-aws WERDEN

I come.1sg call.perf.m.sg

'I am called'

b. ε ven klam-a WERDEN

I come.1sg. call.perf.m.sg

'I am called'

Curiously, this typically occurs in present and simple past: "The passive in the Romansh dialects employs the verb 'come' as the auxiliary in non-compound tenses" (Haiman & Benincà 1992:108). In the composed tenses BE is used, although WERDEN is possible as well, illustrated in (21).

ε sun {ny /stat} klam-a WERDEN/BE (21) I am come (prf.m.sg.) / be (prf.m.sg.) call (prf.m.sg.)

'I have been called.'

The situation in Engadine dialects is, therefore, parallel to the Limburgian case, discussed above. A similar situation holds in Friulian (Iliescu 1982: 203; Benincà and Vanelli 1985: 178-94, *apud* Haiman & Benincà, *loc. cit*).

2.3 Aspect sensitivity in Old French

The passive is rare in Old French (Buridant 2000:296). To the extent it occurs it is made by the auxiliary BE (Einhorn 1974:124). However, the examples given in the grammars (Kibler 1984:89, Buridant 2000:296 and 297) are all in the perfect tense (22abc), never in the imperfect tenses (présent and imparfait). In present tenses, a strategy using the reflexive clitic is used (22d). ¹

- (22) a. e por o fut presentede Maximiien (Eul. 11) perfect tense BE and for it was ø presented to Maximian 'and therefore she was brought before Maximian'
 - b. Del tot en tot i fu mal conneü (Aliscans, 2974) perfect tense BE From all to all there was badly recognized 'One was badly received in every respect'
 - c. Mes ostex ne fu onques a franc home veés (Aiol, 1755) perfect tense BE my houses NEG was ever a honorable man vetoed 'My house was never blocked to a honorable man'
 - d. ne lor membre con blez se vent (Montreuil 13404) imperfect tense se not them remember how wheat SE sells 'They do not remember how wheat is sold'
 - e. Couchié somes laidement (Roland 286) present tense + ptc Cheated are.1pl ø terribly 'We have been betrayed terribly / not: 'we are being betrayed'
 - f. Par cel saint cors sunt lur anemes salvedes (Alexis, 605) present tense + ptc 'by this holy body, their souls were/have been saved' / not: 'are (being) saved'

There are certainly cases of present tense BE + passive participle, but these are either static baptizet sunt assez plus de .x. milie (Roland 3671) 'More than 10.000 are baptized' not 'are being baptized'. (Jensen 1990:288), or denote a perfect passive (with past reading), as in (22ef), not a present tense passive reading.² This makes Old-French parallel to modern Flemish and Middle Dutch (Stoett 1923:§264), using of BE in complex tenses, but a resort strategy to denote simplex tenses (WERDEN or SE respectively).

3. Comparative data from Germanic and Romance

3.1 WERDEN/ BE and tense/aspect periphrasis

In the previous section, we discussed the relation between the tense/aspect periphrasis in various Germanic and Romance languages and dialects. The following picture emerges: in

¹ Moignet (1976:188) considers this construction well-documented in Old-French, but Jensen (1990:278) claims that it is marginal. Jensen does not give a reason why to ignore the "isolated" occurrences.

² In embedded contexts, BE + ptc can have a present, passive reading, illustrated in (i).

⁽i) Me gardez que je soie prise a beste cuivert (Berte, 895) (Anglade: 201) Watch me that I will not be catched by a looming beast

⁽ii) Dame, j'ai a non Berte, si soit m'ame assolue (berte, 1301) (Buridant: 297) The subjunctive nature of these contexts is not accidental, and is an indication of a different status of C. This will be important in section 5.

virtually all Romance languages BE is used as a passive auxiliary, which we assume to be the default. In some dialects, the use of BE is blocked, especially in present and past tense, with imperfect aspect.

- (23) a. Romance languages use BE as a passive auxiliary (except Rhaeto-Romance and Old-French)
 - b. Germanic languages cannot use BE as a passive auxiliary (in imperfect tenses) (except Modern English)

The question is what property correlates with this dichotomy. If we find a property, it should -- in the ideal case -- also explain the tense and aspect side effects. In the next sections, we will argue that V2 is this property.

3.2 WERDEN, BE and V2

We are now in the position to make an inventory of the situation. The selection of BE/WERDEN roughly varies along the dimension of Romance versus Germanic and additionally varies along the dimension with tense and aspect. However, some Germanic languages pattern with Romance (English), and some Romance languages pattern with Germanic. If we take the V2 property as a crucial distinction between Romance and Germanic, the following more fine-grained pattern emerges. In the Scandinavian languages, bliva 'stay' is used instead of BE. Scandinavian is V2. In continental West Germanic it is most often WERDEN and its cognates, but other replacements are possible such as ginn 'give' in Luxemburgish and xo 'come' in Bosco Gurin (Russ 2002). In Rhaeto-Romance it is vegn 'come'. These dialects are V2 as well.

| 24 | Language | V2 | passive voice | |
|----|---------------------------|-----|---------------|---------------|
| | | | present/past | (past)perfect |
| | 1. Scandinavian | yes | BLI(VE)/SE | BLI(VE)/SE |
| | 2. German | yes | WERDEN | WERDEN |
| | 3. Luxembourgian | yes | GIVE | GIVE |
| | 4. Bosco Gurin | yes | COME | COME |
| | 5. Dutch dialects (North) | yes | WERDEN | WERDEN |
| | 6. Limburgian dialects | yes | WERDEN | WERDEN/BE |
| | 7. Frisian | yes | WERDEN | BE(convolute) |
| | 8. Dutch | yes | WERDEN | BE(convolute) |
| | 9. Flemish | yes | WERDEN | BE |
| | 10. Rhaeto-Romance | yes | VEN | BE |
| | 11. Old French | yes | - (se) | BE (or se) |
| | 12. English | no | BE | BE |
| | 13. French | no | BE (or se) | BE (or se) |
| | 14. Italian | no | BE (or si) | BE (or si) |
| | 15. Spanish | no | BE (or se) | BE (or se) |
| | 16. Portuguese | no | BE (or se) | BE (or se) |

So, the Romance languages Rhaeto-Romance and Old French appear to be V2, while English is non V2. The cross-linguistic comparison shows that the V2 property correlates with a block of BE in simplex tenses. If we collapse all non-BE verbal strategies under the label WERDEN=*BE, we may summarize the pattern as an absolute block on BE in simplex tenses in V2-languages.

(25) V2-WERDEN correlation
V2

→ *BE in simplex tenses

In complex tenses, no such two-way correlation holds.³

What this comparative study shows, is that the choice of the passive auxiliary is not just a matter of post-syntactic lexical insertion, as it interacts with core syntactic properties of the language, such as V2 and aspect. In the next sections, we will investigate this correlation in the history of English.

4. Diachronic analysis of English weorðan

The English *weorðan* is here studied using Petré's LEON corpus, which is composed of various other corpora (YPC, YCOE, PPCME2, among others). We used the periodisation in Petré 2010, as it does not have an artificial break between Old and Middle English period.⁴ However, we only used the subset of LEON that was syntactically parsed (for the file list, cf. appendix).

4.1 Main clause versus embedded clauses

In this section we study the relation between the use of *weorðan* and the V2 constraint. Now, the V2 constraint is a typical root phenomenon, i.e. it only shows up in main clauses. This suggests that we might observe a difference in use of WERDEN and BE in main clauses and dependent clauses. It must be said that no such sensitivity has been reported in Dutch and the Dutch dialects with a mixed system. We only did this because such a tendency has been reported in the literature. Petré 2013 writes, referring to Frary (1919:17):

Approximately four fifths of the instances of *wearb* as auxiliary of the passive are in main clauses, while more than two thirds of those of wæs in this construction are in subordinate clauses. This distribution is probably due largely to the fact that *wearb* is suited to direct narration, while wæs is natural in relative and causal-temporal clauses, which are usually a statement of fact or of completed action.

We carried out a query on the syntactically parsed subset of LEON.⁵ As *weorðan* does not occur beyond period 4, we limited our study to the first 4 LEON periods. We calculated the relative use of BE versus WERDEN in matrix and embedded clauses. The results are given in the table under (26).

(26) Relative use of be/be+weothan passives

| be/weorðan+be- | I | II | III | IV |
|----------------|-----------|---------------|---------------|---------|
| passives | | | | |
| matrix | undefined | 1145/1145+200 | 2721/2721+873 | 6/6+2 |
| | - | (85%) | (75%) | (75%) |
| embedded | 3/3+0 | 1862/1862+158 | 2621/2621+267 | 20/20+0 |
| | (100%) | (92%) | (90%) | (100%) |

In the first period, the number of passive constructions is extremely small. They only occur in embedded clauses. This is probably accidental and a mere consequence of the low numbers. It is remarkable though, that the first attestations are with BE and not with WERDEN. We come

⁴ LEON Periods: <950, 951-1050, 1051-1150, 1151-1250, 1251-1350, 1351-1420, 1421-1500.

³ An implicational relation holds: *BE→V2

⁵ ((IP-MAT* idominates VBN*|RP+VBN*) AND (IP-MAT* idominates BE*) AND (BE* idominates wesan)) and ((IP-MAT* idominates VBN*|RP+VBN*) AND (IP-MAT* idominates BE*) AND (BE* idominates werthan)), where 'wesan' and 'werthan' are definition files with all morphological forms of BE and WERDEN respectively, to be found in Petré (2010:83).

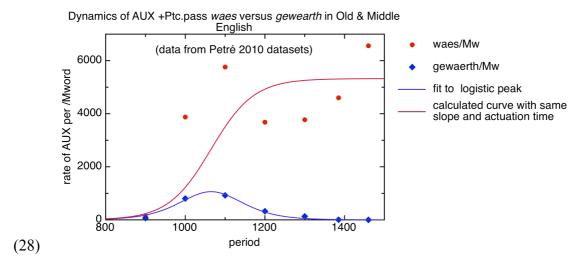
back to that below. This is not an effect of the low numbers, because in the second period the dominant construction is with BE as well. This is true for the entire history of English. We further see that in embedded clauses the rate of *weorðan* continues to be rather low. WERDEN never exceeds the 10 percent. In root clauses, on the other hand, the number of WERDEN grows to 25%, but BE remains the dominant type. The distinction between root and embedded clauses is significant. Before we can understand what this means, we must first elaborate on the interaction between *weorðan* and V2. We postpone this discussion to section 5.

4.2 Diachrony of weorðan

In this section we study the diachronic development of *weorðan*, irrespective of the type of clause. We completely base ourselves on Petré's data sheets of *wæs* + Ptc and *(ge)wearð* + Ptc, which classify the uses of these AUX-constructions with respect to their use and form. We only count the eventive passive ("Vorgangspassiv"), that may or may be accompanied with some type of by-phrase (genitive or dative NP, *for*, *from*, *mid*, *by*, *in*, *at*, *through*). The results are given in (27).

| (27) | LEON | wæs ⁸ | (ge)- | total | number/ | total/Mw | wæs/Mw | gewærð/ |
|------|---------|------------------|-------|-------|---------|------------|------------|-----------|
| | period | | wærð | | Mwords | | | Mw |
| | 900±50 | 40 | 19 | 59 | 0.28054 | 210.30794 | 142.58165 | 67.72629 |
| | 1000±50 | 1210 | 251 | 1461 | 0.31229 | 4678.34385 | 3874.60373 | 803.74011 |
| | 1100±50 | 830 | 133 | 963 | 0.14410 | 6682.81275 | 5759.84899 | 922.96375 |
| | 1200±50 | 1380 | 122 | 1502 | 0.37502 | 4005.13041 | 3679.81356 | 325.31685 |
| | 1300±50 | 970 | 34 | 1004 | 0.25705 | 3905.91567 | 3773.64363 | 132.27204 |
| | 1385±35 | 1950 | 2 | 1952 | 0.42390 | 4604.91395 | 4600.19580 | 4.71815 |
| | 1460±40 | 2630 | 0 | 2630 | 0.40086 | 6560.84498 | 6560.84498 | 0 |

In the diagram in (28) we have rendered these data in a graphic. It shows that the use of weorðan does not display a gradual decay, but first emerges and disappears again.



We fitted these empirical data (the blue diamonds) to a logistic peak, as defined in Postma (2010). We may consider it a failed change, which peaks just before 1100. The logistic peak

⁷ Petré's construction G.

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⁶ P-value < 0.0000000

⁸ The Petré's waes datasheet represent 10% of the total corpus. The values have been scaled up.

is a good fit to the data, as the standard deviations are small, cf. (29). The model has three free fittable parameters: the actuation time, the slope, and the saturation level (in S-types models this is usually normalized to 1).

(29) Logistic Peak

Fit Algorithm: Levenberg-Marquardt

Chi squared = 2.3833e+4

Fitted parameters: Standard deviations: a[1] = 1064.7442 $\Delta a[1] = 7.1006$ a[2] = 53.5918 $\Delta a[2] = 5.7344$ a[3] = 4253.1527 $\Delta a[3] = 355.1318$

If we calculate the connected successful change, i.e. an S-curve with the equal centralisation in time ("actuation") and the equal slope ("rate"), we get the S-curve displayed in the figure under (28). It might represent the emerging of passive constructions in general in the history of English. The empirical data points of this emerging passive construction are drawn in the figure as well (the red dots). Their fit to the logistic curve is rather poor, though, as the data points fluctuate considerably. We leave for further reasearch if the *weorðan* peak is really connected to the rise of periphrastic passive constructions as such, which seems conceptually attractive, but not a conceptual necessity. In this study, we concentrate on the relation with V2 as the synchronic and comparative data presented in section 2-3 suggested.

At first glance, we have a problem here, because the Old English V2 disappears between 1400 and 1500 (Kemenade 1987, Platzack 1995, Kroch & Taylor 1997, Haeberli 1999, Fuss & Trips 2002, Biberauer & Roberts 2008), while the peak in *weorðan* lays before 1100. A further problem is that V2 declines according to a S-curve, while *weorðan* seems to be a peak, and finally that the ratio of *weorðan* with respect to *wesan/beon* is always small. How can the conflicting dating and the other discrepancies be reconciled? A solution emerges when we realize that the Old English V2 is of a very special type, quite different from the V2 property of Continental Germanic, which is much stricter in nature. So, while Old English allows for V3 structures with pronouns if the fronted constituent is not an operator (Van Kemenade 1989), this is not possible in Dutch and German (Pintzuk 1999:136).

| (30) | a. | [hiora untrymnesse] he sceal rowian on his heortan | NP-pron-Vfin |
|------|----|----------------------------------------------------|--------------|
| | | their weakness he shall atone in his heart | |
| | b. | [thin agen geleafa] the hæfth gehæledne | NP-pron-Vfin |
| | | thy own faith thee has healed | |

So, the question comes up: is the use of *weorðan* tied to a stricter version of V2? If so, it must be a hidden, and thus far unnoticed, type that is underlyingly present in Old-English. In the remainder of this paper we will go into its relation with strict V2.

4.3 Diachrony of strict V2

In this subsection we identify a layer of strict-V2 in Old English. Strict-V2, as present in continental Germanic differs in only one context from Old-English V2. We list the contexts in the table below. The contexts vary along two dimensions: 1. whether the subject is pronominal or a full NP, 2. whether the fronted XP has quantifier properties or not. We have,

⁹ A logistic peak is a composed of two logistic S-curves, one going up and one going down, with the same actuation time and the same slope (with reverse sign), cf. Postma (2010).

therefore, four contexts. Old-English and continental V2 only differs if the fronted XP has no quantifier properties and the subject is pronominal, i.e. (31d). So, we will focus on (31d).

$$(31) \qquad \begin{array}{cccc} \underline{Old \; English \; "V2"} & \underline{Strict \; V2} \\ a. & QP + \mathbf{V_{fin}} + SU & QP + \mathbf{V_{fin}} + SU \\ b. & XP + \mathbf{V_{fin}} + YP + SU & XP + \mathbf{V_{fin}} + YP + SU \\ c. & QP + \mathbf{V_{fin}} + SU_{pron} & QP + \mathbf{V_{fin}} + SU_{pron} \\ d. & XP + SU_{pron} + \mathbf{V_{fin}} & \longleftarrow \neq \longrightarrow & XP + \mathbf{V_{fin}} + SU_{pron} \end{array}$$

A complicating factor is that the set of quantificational properties change in the course of time. In Modern English only some monotone decreasing quantifiers, such as negative elements and WH-items, trigger V2. But in Older English also *tha* and discourse pronouns functioned as operators, and triggered strict V2. This change in the set of NP that count as quantifier is a change in English distinct from the problem we have at hand, and occurs much later. The loss of the d-set as quantifiers is probably related to change in discourse sensitivity observed by Petré, which only weakly correlates with the decline of *weorðan*. So, we need a context that is non-quantificational for our quest of a strict-V2 layer in all our Old-English texts.

We, therefore, did a study of the occurrence of the context of (31d): to what extent does $XP+Vfin+SU_{pron}$ occur? We must choose an XP that is maximally non-quantificational. For that reason we chose fronted PPs, exemplified in (32a-c). The V-pron sequences are highlighted.

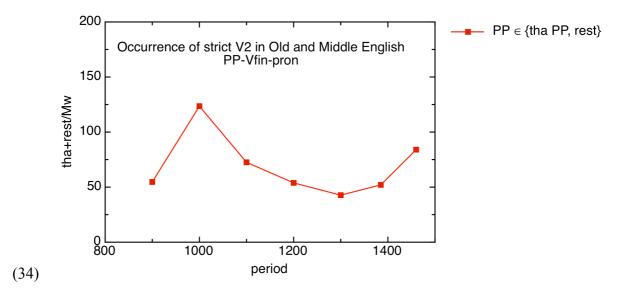
- (32) a. burh mare lastunge **wrencheŏ hit** to wurse (cmancriw-1,II.157.2148) By more burden twists it to worse
 - b. & þach in þt ilke point neluueð he us the lesse& though in that same point not.loves he us the less (cmancriw-1,II.170.2371)
 - c. Tha aefter thon **gesawon we** between the wudubearwas & tha treo healfhunding micle maengeo, (coalex, Alex:29.8.356) there after saw we between the wood and the trees half-dog people great many 'Then we saw a great many half-dog people in the woords'

Again, we executed this study on the parsed part of the LEON corpus. The results of this search is given in (33), with a breakdown with its triggers.

| (33) | triggers of | tha | NEG | ¥ | Q | d- | 2p | subj | say | rest class | total |
|------|-------------------------|----------|-----|---|---|----|----|------|-----|------------|-------|
| | $PP-V_{fin}-SBJ_{pron}$ | | | | | | | | | | |
| | period @1 | 11 (65%) | 2 | | | | | | | 4 (24%) | 17 |
| | @2 | 20 (59%) | 3 | 3 | | | | | | 8 (24%) | 34 |
| | @3 | 5 (42%) | 2 | | | | | | | 5 (42%) | 12 |
| | @4 | | 15 | 1 | | 4 | 25 | | | 14 (24%) | 59 |
| | @5 | | | 1 | 1 | 7 | 3 | | | 4 (25%) | 16 |
| | @6 | | 6 | 1 | 1 | 29 | 3 | 5 | 5 | 21 (30%) | 71 |
| | @7 | 1? | 5 | 3 | 1 | 28 | 5 | 1 | 2 | 34 (44%) | 78 |

We observe a dramatic change of these triggers if we compare the Old-English period (first three intervals) with the Middle English period (4-7). The *tha* adjunct to the PP was replaced by constituent internal d-words. Moreover, various new triggers emerge, such as the presence of a 2nd person (which has quantificational status (Postma 2012), but also SAY and subjunctive inversion (of the type *albeit*) emerges. As to the constitutent that precede the

inverted inflectional verb, we are only interested in the non quantificational PPs. We therefore ignored WH, universal quantifiers, quantifiers such as *much* and *little* (Q). We also consider SAY, subjunctive, and 2p as a trigger of the operator type. In (34) we have drawn the *tha* occurrences added with the d- words, and the rest class.



We observe an rise and fall around 1000, and a subsequent rise in the Middle English period. These seem developments that are rather different in nature. The strict V2 layer in the Old English period seems to be related to the rise and fall of *weorðan*, while the increase in the later seems to be a regional effect of Northern influence, as the geographical breakdown in (35) shows.

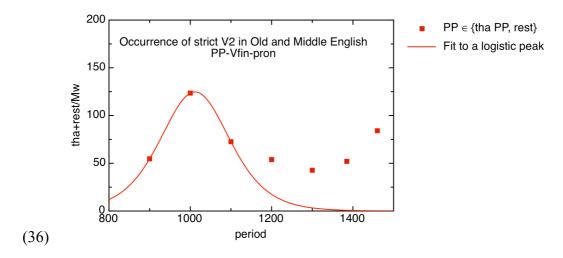
(35) Geographical breakdown of Strict V2 in period @7:

| See grapmear oreande wir or surer v2 in period (197). | | | | | |
|-------------------------------------------------------|-----------------------------|-------------|--|--|--|
| Region | occurrence V2 per number of | | | | |
| | mains clauses | | | | |
| North+ EastMidlands | 69/15588= | 4.6/kToken | | | |
| West-Midlands | 12/ 9439= | 1.3/kToken | | | |
| South | 1/3029= | 0.3 /kToken | | | |
| whole search, hits/tokens/total | 82/82/28056= | 1.0/kToken | | | |

We therefore concentrate on the Old English period, as it concerns us most in view of the rise and fall of *weorðan*. Let us make a logistic fit and compare the result with the curve of *weorðan*. If we use only the data points on the Old English period, the fit is as (36).

query: ((IP-MAT* idominates PP*) AND (IP-MAT* idominates NP-NOM|NP-SBJ) AND (NP-NOM|NP-SBJ idominates PRO^N|PRO) AND (IP-MAT* idominates finite) AND (PP* iprecedes finite) AND (finite iprecedes PRO^N|PRO))

¹⁰ The query is: define: finite.def print_complement: f node: IP-MAT*



The fitted parameters are given in (37). It must be noticed that there are only data 3 points, i.e. the first 3 periods of the LEON-periodisation. The fit is perfect, i.e. zero standard deviations in (37). This is due to the fact that there is always a perfect fit if the degrees of freedom of a model is equal to the number of data points. There are of course many uncertainties, but other sources of error have not been taken into account, such as uncertainty in dating, etc.

Logistic peak fit of strict V2

Fit Algorithm: Levenberg-Marquardt

Chi squared = 9.5886e+4

Fitted parameters: Standard deviations:

$$a[1] = 1011.6$$
 $\Delta a[1] = NAN$
 $a[2] = 57.4$ $\Delta a[2] = NAN$
 $a[3] = 499.1$ $\Delta a[3] = NAN$

The peak is quite similar to the peak in *weorðan* (in 28). For the sake of comparison, we listed the relevant parameters for the two curves in the table under (38).

| (38) | | Peak of strict V2 | Peak of weorðan |
|------|---------------------------|-------------------|--------------------|
| | Actuation time (in years) | $1011 \pm NAN$ | 1064 ± 7 |
| | Slope | 57 ± NAN | 53 ± 6 |
| | (in years) | | |

The curves are not identical: the actuation times of V2 and *weorðan* (1011 and 1064, respectively) differ 53 years, which make them unequal (outside the error range), while their slopes (57 and 53 years, respectively) are equal (inside the error range).

According to Weinreich *et al.* (1968), a grammatical change may manifest itself in different contexts at different times, i.e. with different actuation times. However, they do share their steepness. Elaborating this line of thought, Kroch (1989) proposes the Constant Rate Hypothesis (CRH), which states that the two manifestations of a parameter change proceed with the same speed, i.e. the same steepness in their S-curves ("rate"). If we may apply the CRH to failed changes as well (as they are built up by two mirrored S-curves (Postma 2010)), we can identify the curve of strict-V2 and the *weorðan* curve, as they have

the same steepness ("rate"), although not the same actuation time. We conclude that the comparative linguistic evidence of the relation between WERDEN en V2 get a reflex in the history of English. We do not go into the question what triggered the change, or which change triggered which, but it is plausible to see the changes in V2, which is a 50 years earlier, as the cause of the need of a separate passive auxiliary, next to BE, just as in the continental languages. It is tempting to attribute this change to external influences, be it Scandinavian or Old-French, which were both V2.

There are two additional pieces of evidence that weorðan is more than a free variant of wesan. As Petré (2014) argues, after a careful comparison of gewearð ofslægan and wæs ofslægan, both meaning 'was killed', in closely related fragments, the auxiliary form (ge)wearð is more used when there is more violence involved. The statistics given by Petré is convincing. Petré ties this to different meanings of the two auxiliaries (without wondering how that could possibly the case). However, in view of the discussion above, it is more probable that these forms concerns different manners of writing, tied to different worlds, a Norman(d) world with more strict V2 and more violence, versus a traditional world and style with more traditional Old-English V2 and less violence. Weorðan does not imply more violence in itself, nor does V2. While V2 and weorðan are grammatically connected to each other, their shared connection to a Norman(d) world, is an arbitrary historical accident.

The second possible piece of evidence is a taken from Visser (1973:2091). Visser expresses doubts about attempts to tied the choice of *weorðan* or *wesan/beon* in passive constructions to a difference in meaning. Visser gives a list of occurrences of passive constructions from two versions of the same text, Pope Gregory's Dialogues. There is manuscript C and manuscript H, first published in Hecht (1900). They differ in the use of the passive auxiliary. We here give Visser's first example.

| (39) | | Ms C: wæs | Ms H: wearð |
|------|-------|-----------------------------------------------|------------------------------------------|
| | 26,31 | | he wearð þa þurh godes ælmihtiges fultum |
| | | ælmihtigen godes fultume to þam ¹¹ | mid þam mægene gestranged to þam |
| | | swyðe, þæt | swiðe, þæt |

Apparently the scribe of H changes wæs into wearð. Visser, therefore, considers wæs and wearð as "in free variation". These two forms are certainly alternants semantically, but not necessarily syntactically. For, there is a regular pattern. Wherever ms C and ms H differ in the choice of the passive auxiliary, ms C has wæs while ms H has wearth, never the other way around. Conversely, if ms C has forms of weorðan, ms H has weorðan too. According to Hecht (1900: introduction), ms H is "eine Neubearbeitung" of ms C. This suggests that there is a reason for the scribe to change the wording. It might have been a matter of style simply because he had another taste (as Visser implicitly suggests in footnote 2). But it can be also be because he had a different grammar.

Now if we compare the two texts above we see that the underlined PP *mid tham mægene* lacks in Visser's comparison. However, if one looks up the original (Hecht *op. cit*:24), it turns out that Ms C had: *Mid thy mægen he wæs gebælded of ðæs ælmihtigen godes fultume to þam swyðe, þæt....* So, the scribe of ms H shifts the initial PP into the middle field and changes *wæs* into *wearð*. He thus changes the Old English V3 with a pronoun into a strict-V2 construction. The situation is clearly more complicated than this, since scribe H always retains the V3 header phrase "*Gregorius him andswarode*:". Apparently he did not

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¹¹Hecht (1900) has *bon*.

always feel the need or the courage to change the text to V2.¹² The scribe of ms H has also systematically changed the progressive into simple tense forms, as Visser notices. This might indicate a more complex bundle of *syntactic* differences between the mss. More detailed research is needed here.

5. The grammatical connection between WERDEN and strict V2

Thus far, we provided 1. evidence from Dutch dialects, 2. evidence from comparative linguistics in the languages of Europe, and 3. evidence from diachronic linguistics (the rise and fall of *weorðan*), showing that there might be a connection between strict V2 and the block to use BE as a passive present tense auxiliary in simplex tenses. However, even statistics -- how convincing these may be -- remain circumstantial as long we cannot pinpoint a mechanism for this interaction. Does strict-V2 causes the need for WERDEN or does WERDEN opens up the possibility for a language to develop strict V2? Or is there a common origin? In this section we will elaborate upon the mechanism. We provide the contours of a model that predicts that strict V2 blocks passive BE in simplex tenses.

The model has to combine the following ingredients: 1. passive argument licensing, 2. perfect/imperfect tense composition, 3. some morphological difference between BE and WERDEN, as well as 4. the nature of V2. Now, the latter two properties are still rather mysterious theoretically, though well studied and rather straightforward in their overt realization. So, let us proceed from the known to the unknown, i.e. from Romance (without WERDEN nor V2) to Germanic (with both WERDEN and V2). Let us start with the two French sentences in (40) with auxiliary BE and a derived subject.

ergative

(40) a. Les enfants **sont** tombés the children are fallen 'The children have fallen'

b. Les enfants **sont** mis au lit par l'un des parents passive the children are put to the bed by ...
'The children are (being) put to bed by ...'

Both sentences have a derived subject: (40a) has an ergative predicate. (40b) is a passive predicate. The respective structures are given in (40ab). This is all well established and uncontroversial.

(41) a. Les enfants **sont** [- tombés t] ergative b. Les enfants **sont** [pro mis au lit t] [par l'un des parents]] passive

Curiously, (41a) has perfect aspect (possibly with past reading "passé composé"), while (41b) is a present tense. We could, of course, assume two distinct verbs *être*, as traditional grammar does: *être* in (41a) is a perfect tense auxiliary and *être* in (41b) is a passive auxiliary. This does not help us further, though.

It is better to ask what coerces *être* in the configuration in (41a) to have a perfect tense reading, and what makes it have a present tense reading in (41b). The distinction between the two structures is that (41b) projects an agentive subject in the VP, here labeled as 'pro', while (41a) lacks such a subject. Apparently, the presence of an underlying agentive subject changes the eventive nature of the construction. How is this possible? Now, it is crucial to

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¹² Visser is not correct where he writes: "It is only seldom that the two Mss are in agreement: 104.21: 'hi waeren genydede' (Ms H): 'hi waeron geneadode'. In all cases where Ms C has *weorthan*, Ms H has also *weorthan*. The forms are not in free variation.

realize that subjects play an important role in defining *domains* (of the Binding Theory) or *edges* of phases. So let us assume that the VP is a domain (or phase) in (41b) but not in (41a), where it lacks an agentive subject. ¹³ If we now assume eventive indexes on the auxiliary (cf. Postma 1993) and on the participle, we get the two configurations in (42), where X represents the auxiliary and Y the participle.

So we have disjoint reference in (42a) and conjoint reference in (42b). If we now apply the binding theory on these heads, we predict that $i\neq j$ in (42a), but we do not have such an obviation in (42b). This is parallel to the argumental obviation in He_i saw $him_{j\neq i}$, and the absence of it in he_i said [he_i was tired. Let us assume that only coerced obviation makes indexes distinct (cf. Borer 1989). If we now project the Reichenbachian variables S, R, E (Reichenbach 1947) onto the syntax (Comrie 1985, Hornstein 1990, Giorgi & Pianesi 1997), i.e., $R \leftrightarrow X$ and $E \leftrightarrow Y$ in (42), we predict interactions of syntactic structure (the presence of an agentive subject) and tense composition. Put differently, the Reichenbachian obviation ('_' in R_E) is coerced syntactically by the Binding Theory applied to two verbal heads. 14

Let us now apply this to the interaction between Reichenbachian S and R as well. The time variable S typically refers to the anchoring point of the speech act. It is a discourse property, which by default is projected outside the sentential structure, as represented in (43a).

$$\begin{array}{cccc} (43) & a & & S \left[{_{CP}}.....R \ \right] \\ & b. & & \left[{_{CP}} \, S \, \, R \right] \end{array}$$

Significantly, in strict-V2 languages this discourse reference point is grammaticalized, i.e. S is drawn into the syntactic structure and sits in the CP domain, as represented in (43b). Now, CP is a phase and a domain of the Binding Theory. This means that (43a) reduces to (44a), while (43b) reduces to the coerced obviation structure in (44b).

Now for present tense it holds that S=R=E. The Binding Theory blocks this index identity in principle, unless sufficient structure is present. This means that we need an extra opacity in V2 languages between S and R. In active sentences, we may assume that the agentive subject turns TP into such an opaque domain, but in passive sentences there is no such an agentive subject. This means that BE cannot be used unless this extra opacity factor is inserted. So let us define WERDEN as in (45).

(45)
$$\frac{Definition}{WERDEN = BE + opacity factor F (intervening between C and T)} X_i \dots F \dots BE_{j=i}$$

¹³ In a more articulated version of VP, it is probably the (agentive) subject of the little vP that does the job.

Giorgi & Pianesi locate the interaction between E and R in one head (their "T2") with values E=R and E \neq R. We locate E and R in *two* interacting heads that interact through the Binding Theory. Our theory provides a valuation of "T2". Similarly, G&P locate the interaction between S and R in one head (their "T1"). Our theory, once again, provides a valuation of T1 with values S=R and S \neq R.

We will assume that WERDEN comes about by BE incorporating morphologically into this opacity factor, which is spelled out as WERDEN. It might be clear that F is not needed if BE does not reside immediately under C, i.e. when other opacity factors are available, as happens in more complex tenses. This gives us the possibility that BE is used as a passive auxiliary in Southern Dutch, and Rhaeto-Romance in complex tenses (cf. 18, 20/21). The full theory will be elaborated in a separate study.

6. Conclusions

Barbara Strang (1970:351) is correct when she writes: "weorðan never established more than a marginal role as an auxiliary" in the history of English. The need of weorðan as a passive auxiliary instead of BE is tied to the strict-V2, which shows up in XP-Vfin-pron orders: an equally marginal construction in the history of English. There is corroborating synchronic as well as comparative linguistic evidence for this connection between weorðan and strict-V2. Old English goes through a ephemeral rise and fall of strict-V2 (perhaps under Norman(d) influence). Weorðan as a passive auxiliary does not "decline" (through a typical S-curve) but comes up an fades away as a peak (a failed change). This failed change might be connected to a successful change of the emergence of the periphrastic passive, but more research is needed on this point. WERDEN is not a lexical alternant of the passive auxiliary BE. WERDEN has more complexity: it has incorporated an opacity factor which is needed to create an opacity between S in C and E in T. In complex tenses, i.e. outside the direct interaction between C and T, the need of WERDEN is relaxed.

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Data files

Petre_P_2014_Constructions_and_environments_OUP_Appendix_3_WAES_APPEND.xls Petre_P_2014_Constructions_and_environments_OUP_Appendix_3_GEWIERTH.xls

The GEWIERTH file is online available at:

https://lirias.kuleuven.be/bitstream/123456789/366310/2/Petre_P_2014_Constructions_and_e nvironments OUP Appendix 3 GEWIERTH.xlsx

Corpora used

LEON - alpha - University of Leuven. Peter Petré. 2010.

Die Winteney-Version der Regula S. Benedicti Lateinische und Englisch mit Einleitung, Anmerkungen,

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YCOE: The York-Toronto-Helsinki Parsed Corpus of Old English Prose. 2003. Ann Taylor et al. York: Department of Language and Linguistic Science.

YPC: York-Helsinki Parsed Corpus of Old English Poetry. 2001. Susan Pintzuk and Leendert Plug. York: Linguistics Department.

Appendix 1 - The parsed subset of Petré's corpus.

(The names are those found in Petré 2010 with an added @1 for period 1, etc). The @1 etc is added to make searches through sets of files possible.

Period 1 - < 950

coboeth@1.o2.psd|cochronA@1.o23.psd|cocura@1.o2.psd|cocuraC@1.psd|codocu2@1.o2.psd|colawaf@1.o2.psd|colawaf@1.o2.psd|colawafint@1.o2.psd|coorosiu@1.o2.psd|coprefcura@1.o2.psd|cosolsat2@1.psd|

Period2 - 950-1050

coblick@2.o23.psd|cocathom1@2.o3.psd|cocathom2@2.o3.psd|codocu3@2.o3.psd|cogenesicw2.psd|coherbar@2.psd|colacnu@2.o23.psd|colaw5atr@2.o3.psd|colawnorthu@2.o3.psd|colaw6atr@2.o3.psd|comargaT@2.psd|comart1@2.psd|comart3@2.o23.psd|comarvel@2.o23.psd|conicodD@2.psd|coquadru@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|conicodD@2.psd|coquadru@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|comarvel@2.o23.psd|

Period3 - 1051-1150

coalcuin@3.psd|coaugust@3.psd|cochad@3.o24.psd|cochdrul@3.psd|cochristoph@3.psd|codicts@3.o34.psd|codocu4@3.o24.psd|coeluc1@3.psd|coeluc2@3.psd|coexodusP@3.psd|cogregdC@3.o24.psd|cojames@3.psd|colawwllad@3.o4.psd|colawger@3.o34.psd|coleofri@3.o4.psd|colawger@3.o34.psd|coleofri@3.o4.psd|colawger@3.o34.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.psd|conicodA@3.ps

sd|conicodE@3.psd|coprefsolilo@3.psd|corood@3.psd|cosolilo@3.psd|cosolsat1@3.o4.psd|coverhom@2.psd|coverhomE@2.psd|coverhomL@3.psd|covinceB@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal@3.psd|covinsal

Period4 - 1151-1250

cmorm@4.m1.upsd|cmpeterb@4.m1.upsd|cmsawles@4.m1.upsd|cmvices1@4.m1.upsd|cmhali@4.m1.upsd|cmjulia@4.m1.upsd|cmkathe@4.m1.upsd|cmlambx1@4.mx1.upsd|cmmarga@4.m1.upsd|cmancriw-2@4.m1.upsd|cmlamb1@4.m1.upsd|cmancriw-1@4.m1.upsd|cmlamb1@4.m1.upsd|cmancriw-1@4.m1.upsd|cmlamb1@4.m1.upsd|cmancriw-1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.upsd|cmlamb1@4.m1.u

Appendix 2 - Definition files

wesan:

eom|beo|eart|bist|is|ys|bi+t|bi+d|by+d|beo+d|seo|sind|synt|sindon|syndon|beo+t|was|w+are|w+aren|wes|beo|wesa+t|beo+t|wesan|beon|beonne

werden:

+gewor+de|gewur+da+t|iwurden|wharr+t|wur+dæ|+geworden|gewur+d+d|iwur+den|wier+d|wur+dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|i-dap|+geworden|gewurde|-dap|+geworden|gewurde|-dap|+geworden|gewurde|-dap|+geworden|gewurde|-dap|+geworden|-gewurde|-dap|+geworden|-gewurde|-dap|+geworden|-gewurde|-dap|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-geworden|-gew

wur+dest|wior+dan|wur+dan|+gewur+te|gewurden|iwur+di|wior+de|wur+da+t|geo|weor+te+d|gewur-den|iwur+te|wior+de+d|wur+d+de+d|geuwr-den|iwur+ten|wior+dest|wurde|geuar+d|gewur-den|wir+d|wur+de|geuor+da|gewyr-den|woor+t|wurde+d|geuor-den|gewyr-den|uueorthae|word|wur+de+d|geuor-den|gewyr-den|uueorthae|word|wur+de+d|geuor-den|gewyr-den|uuiurthit|wor-den|gewar-den|gewyr-den|wur-den|gewar-den|uuiurthit|wor-den|gewar-den|uuiurthit|wor-den|gewar-den|uuiurthit|wor-den|gewar-den|uuiurthit|wor-den|gewar-den|uuiurthit|wor-den|gewar-den|uuiurthit|wor-den|gewar-den|uuiurthit|wor-den|gewar-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiurthit|wor-den|uuiuurthit|wor-den|uuiuurthit|wor-den|uuiuurthit|wor-den|uuiuurthit|wor-den|uuiuurthit|wor-den|uuiuurthit|wor-den|uuiuurthit|wor-den|uuiuurthit|wor-den|uuiuurthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wor-den|uuiuuthit|wo

war+d|warr+t|wor+des|wurdon|geweor+da+d|iwær+den|wart|wordis|wur+don|geweor+dam|iward|warth|wordon|wurdun|geweor+dan|iwar+d|warth|worst|wurh|geweor+de|i-des|wurdun|geweor+dan|iwar+d|warth|worst|wurh|geweor+de|i-des|wurdun|geweor+dan|iwar+d|warth|worst|wurh|geweor+de|i-des|wurdun|geweor+dan|iwar+d|warth|worst|wurh|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwarth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwarth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|wurdun|geweor+dan|iwar+d|warth|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|worst|w

 $war+d|weard|wort|wurrdenn|geweor+de+d|war+d|iwar+de|wear+d|worth|wurr+t|geweor+dest|\\ wear+d|iwear+t|wor+t|wurr+te|geweor+de+t|iwear+t|weor+d|wor+te|wurr+tenn|geweor+den|iweor+da+d|worthe|wurr+te+t+t|geweor+t|iwera+d|weor+dam|wor+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wurr+te|wur$

wer+d|weor+de|worthen|wurth|geweor+te+d|iwer+de|weor+de+d|wor+test|wur+te|geweor+te+t|iwere+tit|weor+den|wor+te+t|wurthed|gewior+dan|iwor+de|weor+des+d|wor+tid|wurthen|gewior+da+t|iworden|weor+dest|worthin|wurthen|gewior+de+d|iwor+den|weor+de+t|worthine|wyr+d|gewir+d|iworden|weorpe|worthing|wyr+da+d|gewir+de|iwordon|weor+ta+d|worthis|wyr+dan|gewor+da|i-

worth|weor+ta+d|worthit|wyrde|gewor+das|iwor+te|weor+tæn|worthyd|wyr+de|geworden|i-worpe|weorpan|worthyn|wyrðeð|gewordenan|iworpen|weorpap|wourthit|wyrden|gewordene|iw rað|weorpe|wrht|wyrðen|gewordenre|iwræð|weorpeð|wrð|wyrdon|gewordenu|iwrð|weorpep|wrðe|wyrst|gewordenum|iwrt|weorpen|wrðen|wyrp|geworðes|iwurð|werð|wrope|wyrpan|gewordene|iwurðen|werde|wrt|y-

worþ|geworþan|iwurðæst|wert|wrþ|yworþe|gewurð|iwurðæþ|werþ|wrþan|yworthe|gewurðað|iwurðan|werth|wrþe|y-worþe|gewurðæ|iwurðe|werþe|wurd|y-worþen|gewurdan|iwurðe|werthit|wurð|yworþbe|gewurðan|iwurdeð|wharð|wurðað|y-wourthe

Appendix 3 - Datasheet Strict V2 in Old and Middle English

Period 1 - 11x *tha*; 2x NEG; 4x overig, Total = 17

| _ | | _ |
|---|--------------------------------------------------------------------------------------------------------------|------|
| 9 | & +after medmiclum f+ace niosode he min eft (cobede,Bede_5:6.402.17.4055) | - |
| 1 | 1+Tas +ting by st+are Ongel+tiode cirican on Brytene, swa swa geo of manna gewritum o+d+de of ealdra | - |
| | gesegene o+d+de of minre sylfre cy+te+te ic gewitan mihte, mid Dryhtnes fultume gedyde ic Beda Cristes | |
| | +tiow & m+assepreost +t+as minstres +tara eadigra apostola Petrus & Paulus, +t+at is +at Wiramu+ton & | |
| | on Gyrwum. (cobede,Bede_5:22.480.20.4820) | |
| | 4mid swelce hr+agle he ineode, mid swelce gange he ut. (colawafint,LawAfEl:11.22) | such |
| 1 | Gif mon n+abbe buton anfeald hr+agl hine mid to wreonne & to werianne, & he hit to wedde selle, +ar | - |
| | sunnan setlgonge sie hit agifen. (colawafint,LawAfEl:36.91) | |
| 1 | Eac buton +t+am yfele nahton hie na+ter ne +t+arinne mete ne +t+arute freond. | neg |
| | (coorosiu,Or_2:8.52.21.1005) | |
| 1 | 2& for +dyllecum n+as he nanwuht geunrotsod, (coboeth,Bo:16.39.21.720) | neg |
| 1 | +Da on +d+are unstilnysse onsendon hi +arendwrecan to Rome mid gewritum & wependre bene: | tha |
| | (cobede,Bede_1:9.44.11.370) | |
| 2 | Mid +ty heo oft & geornlice from him monode w+aron, +t+at +t+at n+anige +tinga beon meahte, +t+at hy | tha |
| | buton +t+are halgan gecl+asnunge fulwihtes b+a+des +t+am halgan hlafe gem+ansumede, +ta +at | |
| | neahstan w+aron heo mid hatheortnesse onstyrede. (cobede,Bede_2:5.112.19.1059) | |
| 3 | Mid +ty he +ta se biscop Paulinus geseah, +t+at he unea+delice meahte +da heannesse +t+as cynelican | tha |
| | modes to ea+dmodnesse gecerran, \$+t+at he onfon wolde his ecre h+alo & +t+am geryne +t+are liff+astan | 1 |
| | rode Cristes, ond he somed for his h+alo +t+as cyninges & +t+are +teode, +te he fore w+as, ge mid worde | |
| | trymenesse mid monnum wonn, ge eac mid +da godcundan arf+astnesse mid worde his gebeda won, +t+at | |
| | he fore+tingode, +ta +at nyhstan geleornade he in gaste (cobede,Bede_2:9.124.31.1187) | |
| 4 | For+don mid +ty he micelre tide +after lifde & georne halig gewreotu leornade & smeade, +ta +at nyhstan | tha |
| | onget he & geleornade in gaste, +t+at he ne w+as mid w+atre fulwihtes b+a+des Gode to bearne acenned. | |
| | (cobede,Bede_3:17.234.6.2392) | |
| 5 | +Da +at nehstan cw+a+d heo: Ic wat +t+at ge wena+d, +t+at ic ungewitge mode sprece. | tha |
| | (cobede,Bede_4:10.286.15.2891) | |
| 6 | Mid +ty he +ta +ty d+age ond +t+are +afterfylgendan nihte betweoh +tara o+derra ofslegenra lic geliic | tha |
| | deadum 1+ag, +da +at nyhstan onfeng he gaste (cobede,Bede_4:23.326.5.3262) | |
| 7 | +ta he in +aghw+a+derum mynstre Hilde +t+are abbudissan geornlice his leornunge \$+atfealh & geh+alde | tha |
| | haligra gewreota, +ta +at nyhstan wilnade he on his mode +ta fulfremedan +ting. | |
| | (cobede, Bede_4:24.334.30.3363) | |
| 8 | Mid +dy we +da swi+de longe wi+d +d+am winde & wi+d +d+am sae holonga compadon & wunnun, +da | tha |
| | +at nestan locadon we on b+acling, hw+a+der woen ware, +d+at we +anige +dinga fur+dum +d+at ealond | l l |
| | gesecan meahton, +d+at we +ar ut of gongende w+aron. (cobede,Bede_5:1.384.23.3834) | |
| 1 | 0+Ta betwih +das +ding w+as he gehrinen & gestonden s+amninga mid untrumnesse: | tha |
| | (cobede,Bede_5:14.438.3.4384) | |
| 1 | 3& eft ongean +da godan & +da wellibbendan forsio he his ealdordom su+a sui+de +d+at he on allum | tha |
| | +dingum +da +de him under+diedde sien l+ate him gelice, (cocura,CP:17.107.13.706) | |
| 1 | 7+Ta on +d+am d+age plegedon hie of horsum, +ag+ter ge Philippus ge Alexander, +te he his dohtor him | tha |
| | sellan wolde, ge Alexander his agen sunu, swa heora +teaw +at swelcum w+as, & eac monige o+tere mid | |
| | him. (coorosiu,Or_3:7.65.19.1283) | |
| _ | | |

Period 2 - 20x tha; 3x NEG; 3x ALL; 8x rest = 34

| 2 8 | & +tonne +at nehstan bi+t he sylfa on ecne wean bedrifan. (coblick,HomS_26_[BlHom_7]:95.210.1229) | - |
|------|----------------------------------------------------------------------------------------------------------|---|
| 6 r | nu for +tinre geleafleaste beo +tu dumb o+d +d+at min bodung gefylled sy. | - |
| (| (cocathom1,+ACHom_I,_25:379.22.4817) | |
| 185 | Se deofol andwyrde; Swa swa he +t+at yfel of +dam menniscum gewunan underfeng. underfo he eac swa | - |
| Н | +t+at wite fram +dam upplican deman; (cocathom2,+ACHom_II,_22:192.87.4260) | |
| 21+ | +After +dison feollon hi eft ealle +atforan +tam casere. swa swa God bebead. | - |
| (| (cocathom2,+ACHom_II,_31-32:248.225.5534) | |
| 24 E | Eft si+d+dan on +d+are feor+dan nihte clypede heo hire to +ta ylcan l+arestran Redempta. | - |

| _ | | |
|-----|-------------------------------------------------------------------------------------------------------------------------|------|
| | (cocathom2,+ACHom_II,_42:316.191.7153) | |
| 27 | & +after his d+age ga hyt for uncra begra sawle +tider him leouest sy. | - |
| | (codocu3,Ch_1487_[Whitelock_13]:9.225) | |
| 28 | & +after hir+a dege gange hit into Sancta Marian stow+a into Beorcingan+aalswa hit st+ant mid m+ate & | - |
| | mid mannum. (codocu3,Ch_1486_[Whitelock_15]:26.289) | |
| 33 | +Donne +after +ton betyne+d he +da scyldegan on helle. (coverhom, HomS_4_[ScraggVerc_9]:82.1293) | _ |
| 3 | & on eallum tidum secggan we him +tanc ealra his miltsa & his ea+dmodnessa & his geofena +te he us | all |
| | forgeaf, (coblick,HomU_19_[BlHom_8]:103.123.1327) | |
| 7 | Eft on o+dre stowe mynega+d +d+at halige gewrit. On eallum +tinum weorcum beo+tu gemyndig +tines | all |
| | endenextan d+ages. (cocathom1,+ACHom_I,_28:414.130.5540) | |
| 11 | On eallum +tingum beo +tu gemyndig +tines endenextan d+ages. | all |
| | (cocathom1,+ACHom_I,_32:454.94.6428) | |
| 14 | for +di n+as he geteald to +dyssere wi+dmetennysse; (cocathom2,+ACHom_II,_3:19.12.443) | neg |
| 22 | and buton twyn n+abbe we nan eage +t+ar +d+ar seo gymeleast bi+d; | neg |
| | (cocathom2,+ACHom II, 33:251.73.5602) | |
| 23 | For +dyssere twynunge nolde we hreppan his +drowunge; (cocathom2,+ACHom_II,_39.2:298.15.6795) | neg |
| | +Ta +after +ton gesawon we between +ta wudubearwas & +ta tree healfhundinga micle m+angeo, +da | tha |
| | cwoman to +ton +t+at hie woldon us wundigan. (coalex,Alex:29.8.356) | |
| 4 | & +ta +turh his unsce+d+dian dea+de wurdon we alysede: fram +tam ecan dea+de. gif we us sylfe ne | tha |
| | forp+ara+d. (cocathom1,+ACHom_I,_14.1:296.170.2693) | |
| 5 | +Ta mid +t+are bletsunge ferde he to heofenum him onlocigendum: | tha |
| | (cocathom1,+ACHom I, 21:345.17.4113) | 1100 |
| 8 | + Da +at sumon cyrre tengde he to fyrde ongean perscissum leodscipe. | tha |
| | (cocathom1,+ACHom_I,_30:436.206.6007) | tiid |
| 9 | + Da ymbe tyn geara fyrst wear+d he ascofen of his cynesetle. for +tan +de+t+at iudeisce folc wrehton his | tha |
| | modignysse to +tam casere. & he +ta hine on wr+acsi+de asende. | tiiu |
| | (cocathom1,+ACHom_I,_32:452.43.6385) | |
| 1.0 | + Da +after sumum fyrste wurdon hi ungesome. Philippus & | tha |
| 1 | Arethe(cocathom1,+ACHom_I,_32:452.50.6390) | tiia |
| 12 | + Da mid +tyssere bene beseah heo to +t+are stowe +t+ar heo +t+at cild +ar forlet: | tha |
| 12 | (cocathom1,+ACHom_I,_37:501.137.7409) | tiiu |
| 13 | +Ta on +dam Easterd+age eodon hi swa hi gewunode w+aron to +t+are cyrcan. | tha |
| 1. | (cocathom2,+ACHom II, 2:15.131.363) | tiia |
| 1.5 | +da for unwedre gecyrde he to sumes hyrdes cytan. +te stod weste on +dam westene +de he oferferde. | tha |
| 1. | (cocathom2,+ACHom II, 10:82.51.1646) | ına |
| 1.6 | +Ta betwux heora spr+ace begann heo to halsigenne +done halgan wer. +t+at he sceolde hire secgan hu | tha |
| 10 | lange hire bro+dor Ecgfridus moste his rices brucan; (cocathom2,+ACHom_II,_10:87.215.1769) | ına |
| 1.7 | ac +da +da hi anr+adlice on +d+are bene +turhwunodon. +ta +at nextan geti+dode he him. | tha |
| 1 / | | ına |
| 1.0 | (cocathom2,+ACHom_II, 11:94.64.1915) | tho |
| | +Ta +after lytlum fyrste wear+d he geuntrumod. (cocathom2,+ACHom_II,_22:198.261.4403) | tha |
| 20 | +Ta betwux +dam o+drum geseah he hw+ar man bytlode ane gebytlu eal mid sm+atum golde. | tha |
| | (cocathom2,+ACHom_II,_23:203.117.4497) | .1 |
| | +Da betweenan +tam wear+d hit ute(codocu3,Ch_1458_[Rob_41]:4.18) | tha |
| 26 | +Da for +d+are bro+dorsibbe geu+de he him Earhi+des & Cr+agan & +Anesfordes & Wuldahames his | tha |
| 2.0 | d+ag. (codocu3,Ch_1458_[Rob_41]:11.26) | . 4 |
| | +Ta on niht bescear heo hire feax swa weras(comart1,Mart_1_[Herzfeld-Kotzor]:De25,C.9.41) | tha |
| _ | Ond +da +after seofon gearum het he hine beheafdian. (comart3,Mart_5_[Kotzor]:Ap23,A.5.583) | tha |
| 31 | Ond +ta on +afen dydon hi hine on carcern, +t+ar him on niht +atywde Godes engel ond him s+ade +t+at | tha |
| | he sceolde +t+as on mergen leoran on +da ecean reste. (comart3,Mart_5_[Kotzor]:Ap25,B.21.625) | |
| 32 | +Ta +after +tam ahengon hie hine on +tam clife +te hie heton Golgo+d+da, & twegen scea+dan him on | tha |
| | +ta twa healfa (coverhom,HomS_24_[ScraggVerc_1]:203.213) | |
| 34 | +Ta +after +tam eode he to +dam his discipulum, +t+ar hi ealle w+aron, | tha |
| | (coverhomE,HomS_24.1_[Scragg]:76.43) | |

Period 3 - 5x tha, 2x neg, 5 rest = 12

2 | +Donne preostas to cyrcan cumon heora prim to singenne, +tonne hi heora +tenunge geendod h+abbon, +ar | -

| | +tam fiftigan sealme, don hi heora andytnysse him betweonan (cochdrul,ChrodR_1:16.1.305) | |
|----|--------------------------------------------------------------------------------------------------------------|-----|
| 3 | & on +tone d+ag sy he broht to +t+are halgan cyrcan greadon; (cochdrul,ChrodR_1:28.4.428) | - |
| 4 | for +ti beo +tu +alcan timan gearu angean +tines Drihtnes tocyme. (cochdrul,ChrodR_1:80.40.1034) | - |
| 1 | Ac on eornost, syllon ge us Ioseph +te ge on +t+are clusan beclysdon (conicodA,Nic_[A]:13.2.17.249) | - |
| 12 | and, myd +tys o+drum cyningum +te +de abutan synd, nyme ge ealle an ge+teaht, +t+at ge magon eow | - |
| | sylfe alysan of eowre feonda gewealde, +ta eow wylla+d myd eallon forspyllan and eowre ryce towurpan. | |
| | (covinsal, VSal_1_[Cross]:12.6.97) | |
| 1 | For +ti +tonne ne of heora agenum ne of heora mynstres +tingum nabbon hi ne+after maran to +trafianne | neg |
| | +tonne heora neod behofa+d: +t+at is, +t+at hi habban +at & drinc & reaf; & beon on +tam gehealdene, +te | |
| | l+as, gif hi mare ofer +t+at nyma+d, +t+at hi gehefygyon & gedrefon +ta Godes +tearfan, +te man sceal for | |
| | Cristes lufon neade fedan. (cochdrul,ChrodR_1:4.11.138) | |
| 8 | & cw+a+d: for nanum o+trum +tinge n+as ic geteohhod in +tas witelican stowe, buton for+ton +te ic | neg |
| | \$gefealh & gewunode in Laurenties worde & w+as wi+d Simmache. | |
| | (cogregdC,GDPref_and_4_[C]:42.330.6.4975) | |
| 5 | +Ta +at nexstan funde he, hw+ar se +teof gewunode, +t+at he ofer +tone geard steah, | tha |
| | (cogregdC,GD_1_[C]:3.23.35.240) | |
| 6 | & +ta eac on +da ylcan tid w+as ic sylfa +tider ons+anded to +tam ealdormen for +tearfe & for spr+ace | tha |
| | +tyssere cyrcan. (cogregdC,GDPref_and_3_[C]:32.241.3.3390) | |
| 7 | & +ta +turh +t+at ong+aton hi openlice, +t+at +ta sawle +ta englas underfengon, & hi +ta gel+addon mid | tha |
| | lofsangum to heofonum. (cogregdC,GDPref_and_4_[C]:15.282.21.4163) | |
| 9 | +Ta ymb V dagas wear+d he mid feferadle ge+tread (cogregdC,GDPref_and_4_[C]:49.338.5.5093) | tha |
| 10 | +Ta on morgenne eodon hi (cogregdC,GDPref_and_4_[C]:55.341.29.5169) | tha |
| | | |

Period 4 - 0 tha, 15 neg, 1 all, 14 rest, 4 d-, 25 2pers

| | 1104 1 0 tha, 15 heg, 1 an, 1 1 lest, 1 a , 25 2pers | |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 2 | ach hwenne his rinde is offe; +tenne as +te \$boch \$de+d hwite+d hit utewi+d +turch worldlich hereword (CMANCRIW-1,II.119.1508) | thenne |
| 3 | hwase sei+d biforen ow wel is +te meder +tt ow ber. & to goder heale were + ge iborene. ha biswike+d ow (CMANCRIW-1,II.145.1951) | - |
| 4 | & +gef hit is sumdel uuel; +turch mare lastunge wrenche+d hit to wurse. (CMANCRIW-1,II.157.2148) | - |
| 10 | Of bitternesse inwi+d segge we her sumhwet.(CMANCRIW-2,II.274.468) | - |
| 15 | +gef eut ilimpe+d misliche +tt +ge ne beo naut ihuslet \$i \$+teose sette termes. beo+d hit +te neste sunnendei. (CMANCRIW-2,II.301.933) | - |
| 18 | and eft +tenne we beo+d eldre bete we hit +tenne (CMLAMBX1,29.352) | thenne |
| 19 | to ufele hele wes ic iboren +gif ic ne mot habben on +tisse weorlde +geuenesse. (CMLAMBX1,33.419) | - |
| 20 | \$for \$+ti bileafden heo heore timbrunge (CMLAMBX1,93.820) | - |
| 22 | +tenne +turh +tis sikerlec. seche ich earst up on ham. (CMMARGA,77.366) | thenne |
| 23 | & forr+ti +gerrndesst tu +tatt icc +Tiss werrc +te shollde wirrkenn; (CMORM,DED.L23.7) | - |
| 27 | & o +tatt allterr haffdenn +te+g+g Glowennde gledess +garrkedd. (CMORM,I,34.381) | - |
| 38 | +Turrh so+tfasst lufe wass itt don, (CMORM,I,103.882) | - |
| 39 | Annd o +tatt illke nahht tatt Crist Wass borenn her to manne, Wass he +get, alls hiss wille wass, Awwnedd onn o+terr wise. (CMORM,I,117.1023) | - |
| 46 | & wi+t+t +ta boness bidde we +Te Laferrd Cristess hellpe Off all +tatt +afre ned uss iss To lif & ec to sawle. (CMORM,I,185.1530) | - |
| 29 | & +giff +tu foll+ghesst skill & sh+ad & witt i gode +t+awess, & hafesst +get, tohh +tu be +gung, Elldernemanness late, & ha+gherrlike ledesst te & dafftelike & fa+g+gre, & ummbe+tennkesst a+g+g occ a+g+g Hu +tu mihht Drihhtin cwemenn, & lufenn himm & dredenn himm & hise la+ghess haldenn, Wi+t+t oxe lakesst tu Drihhtin Gastlike i +tine +t+awess, Swa - +tatt itt ma+g+g wel hellpenn +te To winnenn Godess are. (CMORM,I,40.420) | 2 |
| 30 | & +giff +tu firr+tresst fremmde menn A+g+g affterr +tine fere, & arrt te sellf a+g+g milde & meoc, & all wi+t+tutenn galle, Wi+t+t cullfre lakesst tu Drihhtin Gastlike i +tine +t+awess, Swa +tatt itt ma+g+g wel hellpenn +te To winnenn Godess are. (CMORM,I,41.429) | 2 |
| 31 | & +giff +tu ledesst clene lif, & murrcnesst i +tin heorrte, +Tatt tu swa lannge dwellesst her Swa ferr fra Godess riche, & +geornesst tatt tu mote sket Uppcumenn inntill heoffne, Upp till +ti Laferrd Jesus Crist, To lofenn himm & lutenn, Wi+t+t turrtle lakesst tu +tin Godd Gastlike i +tine +t+awess, Swa | 2 |

| | +tatt it ma+g+g wel hellpenn +te To winnenn Godess are. (CMORM,I,42.432) | |
|-----|--------------------------------------------------------------------------------------------------------------|-----|
| 32 | & +giff +tu cwennkesst i +te sellf All +twerrt ut modi+gnesse, & l+aresst o+tre all swa to don +Turrh | 2 |
| | lare & ec +turrh bisne, Wi+t+t bule lakesst tu +tin Godd Gastlike i +tine +t+awess, Swa +tatt itt | |
| | ma+g+g wel hellpenn +te To winnenn Godess are. (CMORM,I,42.437) | |
| 33 | & forr+ti wass +gho till Jos+ap Wi+t+t Godess la+ghe weddedd, +Tatt +gho ne w+are shamedd her, | 2 |
| | Ne shennd off unncl+annesse. (CMORM,I,67.606) | |
| 34 | & forr+ti wass +gho wurr+t full wel Utnumennli+g to wurr+tenn +Turrh Drihhtin blettcedd, & to ben | 2 |
| | Allw+aldennd Godess moderr. (CMORM,I,77.688) | |
| 35 | & t+ar+turrh, & +turrh all +tatt god +Tatt wass inn hire fundenn, Inn hire lif +tatt all +twerrt ut Wass | 2 |
| | Drihhtin lef & dere, +T+ar+turrh wass +gho wel wurr+t to ben Swa wurr+tedd her onn er+te, +Tatt | |
| | Godess Sune shollde mann Inn hire wambe wurr+tenn, Off hire fl+ash, off hire blod, Off hire streness | |
| 2 (| kinde. (CMORM,I,80.704) | |
| 36 | +T+arfore se+g+gde +gho +tiss word Till Gabri+al hehenngell, (CMORM,I,82.726) | 2 |
| 37 | Off so+te lufe wass +gho full, (CMORM,I,87.776) | 2 |
| 40 | & forr +tatt he wass borenn her Sahhtnesse & gri+t+t to settenn Bitwenenn Drihhtin, heoffness king, & | 2 |
| | mannkinn her onn eor+te, Forr+ti ch+as he to wurr+tenn mann O +tatt Ke+g+gseress time, +Tatt held | |
| | wi+t+t mikell gri+t+t & fri+t+t Hiss kinedom onn eor+te. (CMORM,I,121.1046) | |
| 12 | ach +toa hit flech from him. +toa wi+d al his streng+de wende he +ter efter. (CMANCRIW- | all |
| | 2,II.275.484) | |
| 25 | & t+arfore hafe icc turrnedd itt Inntill Ennglisshe sp+ache, Forr +tatt I wollde bli+teli+g +Tatt all | d |
| | Ennglisshe lede Wi+t+t +are shollde lisstenn itt, Wi+t+t herrte shollde itt trowwenn, Wi+t+t tunge | |
| | shollde spellenn itt, Wi+t+t dede shollde itt foll+ghenn, To winnenn unnderr Crisstenndom Att Godd | |
| | so+t sawle berrhless. (CMORM,DED.L113.33) | |
| 26 | & t+arfore hafe icc turrnedd itt Inntill Ennglisshe sp+ache, Forr +tatt I wollde bli+teli+g +Tatt all | d |
| | Ennglisshe lede Wi+t+t +are shollde lisstenn itt, Wi+t+t herrte shollde itt trowwenn, Wi+t+t tunge | |
| | shollde spellenn itt, Wi+t+t dede shollde itt foll+ghenn, To winnenn unnderr Crisstenndom Att Crist | |
| | so+t sawle berrhless. (CMORM,DED.L285.57) | |
| 42 | & +turrh +tatt Godd wass wurr+tenn mann Forr ure miccle nede, +Turrh +tatt wass he, +tatt witt tu | d |
| | wel, All wi+t+t hiss lefe wille Ni+t+tredd & wannsedd wunnderrli+g, & la+ghedd inn himm sellfenn, | |
| | (CMORM,I,128.1096) | |
| 57 | & tatt wass se+g+gd alls iff he +tuss Wi+t+t openn sp+ache se+g+gde, To +tann comm icc off heffne | d |
| | dun To wurr+tenn mann onn er+te, +Tatt whase trowwenn shall onn me, & mine la+ghess haldenn, | |
| | Wel mu+ghe ben wurr+ti wi+t+t me To brukenn eche blisse. (CMORM,II,260.2583) | |
| 1 | Ach na mare +ten aschep ase sei+d hali writ quic ne que+d he neauer anword. (CMANCRIW- | neg |
| | 1,II.99.1188) | |
| 5 | i +te forme +geres nis hit bute bal plowe. (CMANCRIW-1,II.161.2219) | neg |
| 6 | & +tach in +tt ilke point neluue+d he us +te lesse (CMANCRIW-1,II.170.2371) | neg |
| 7 | asswa leoue susterren hwil +tt god wi+d +te bere+d +tin fondinge. nast +tu neauer hu heui hit is | neg |
| | (CMANCRIW-1,II.171.2384) | |
| 8 | for hwen he falle+d naue+d he hwa him reare+d. (CMANCRIW-1,II.185.2629) | neg |
| 9 | seo+d+den as he mende him nefde he hwer he machte huden his heaued. (CMANCRIW-1,II.190.2701) | neg |
| 11 | hwil eauer iraeles folcwes inegypte under pharaones hond. neledde he \$neauer ferd +tron. | neg |
| | (CMANCRIW-2,II.275.483) | |
| 13 | innou+der nes he worldlich mon. (CMANCRIW-2,II.277.528) | neg |
| 14 | Neauer quo+d he ear nu \$nes \$ich \$ful pined. Naut +turch +tt eisil ach +turch hare ondfule ni+d. | neg |
| | (CMANCRIW-2,II.296.848) | |
| 16 | Nai +tu wult seggen. for +tt ful+de nis hit nawt. (CMHALI,147.272) | neg |
| 17 | and seod+tan +te cristindom wes; nefre ouer .xii. mon+te nis hit undon (CMLAMBX1,5.32) | neg |
| 21 | +Det is to seggane. Gif +ta hefdmen of +tissere worlde hefden icnawen crist; nefden heo nefre ifestned | neg |
| | hine on rode for ure hele. | |
| | (CMLAMBX1,123.1204) | |
| 51 | \$Ne \$off nan +ting narrt tu +ta forrdredd Butt off +tatt an +ting ane, Off +tatt tu shule wra+t+tenn | neg |
| | himm O sume kinne wise. (CMORM,I,277.2266) | |
| 58 | +Giet, +teih +dis mann swa do, nis he nauht innocens, bute +gif he biete +dat he harrer hafde | neg |
| | tobroken. (CMVICES1,133.1653) | |
| 59 | +Gif +te herof noht nagrist, nart +tu naht liues +tar +de +du libben scoldest. (CMVICES1,139.1714) | neg |
| 24 | & forr+ti trowwe icc +tatt te birr+t Wel +tolenn mine wordess, E+g+gwh+ar +t+ar +tu shallt findenn | thi |
| | hemm Amang Goddspelless wordess. (CMORM,DED.L53.15) | |
| 28 | & forr+ti tacne+t+t itt full wel Galnessess hate stinnchess. (CMORM,I,39.418) | thi |
| | \ - 27/ | |

| 41 | & forr +tatt he wass wurr+tenn mann To +gifenn menn onn eor+te Hiss a+ghenn hall+ghe fl+ash & | thi |
|----|-----------------------------------------------------------------------------------------------------------------|-----|
| | blod, So+t br+ad to +te+g+gre sawle, Forr+ti ch+as he +tatt illke tun To wurr+tenn borenn inne, +Tatt | |
| | wass +gehatenn Be+t+tle+am, Forr+ti +tatt itt bitacne+t+t +Tatt hus +tatt br+ad iss inne don, | |
| | (CMORM,I,121.1047) | |
| 43 | & forr+ti wass itt upponn himm +Turrh Drihhtin firrst bigunnenn, Forr +tatt itt shollde ben onn himm | thi |
| | Till himm full witerr takenn, +Tatt he wass Drihhtin swi+te lef +Turrh troww+tess rihhtwisnesse. | |
| | (CMORM,I,138.1155) | |
| 44 | & forr+ti sinndenn +te+g+g full wel +Turrh tale off ehhte tacnedd. (CMORM,I,157.1291) | thi |
| 45 | & forr +tatt te +tiss lufe birr+t O twe+g+genn hallfe fillenn, Forr+ti wass itt bitacnedd wel +Turrh tale | thi |
| | off twe+g+genn hunndredd. (CMORM,I,177.1459) | |
| 47 | & forr+ti wass he full wel +turrh Amminadab bitacnedd, +Tatt tacne+t+t uss +tatt mann +tatt do+t | thi |
| | God werre wi+t+t innwarrd herrte, Wi+t+t all hiss mahht, wi+t+t mikell lusst, Wi+t+t all hiss fulle | |
| | wille. (CMORM,I,206.1681) | |
| 48 | & forr+ti comenn +te+g+g himm firrst To sekenn i +tatt ende, Forr +tatt te+g+g haffdenn herrd tatt he | thi |
| | +T+ar shollde borenn wurr+tenn; (CMORM,I,238.1960) | |
| 49 | & forr+ti cume we nu for+t To lakenn himm wi+t+t maddmess, & forr to lefenn upponn himm & | thi |
| | bu+ghenn himm o cnewwess. (CMORM,I,247.2012) | |
| 50 | & forr+ti nass he rihht nohht wurr+t To findenn Crist tatt time, (CMORM,I,253.2057) | thi |
| 52 | & forr+ti let he cwellenn +ta +Te miccle & ec +te little, +Tatt Crist ne shollde mu+ghenn himm O | thi |
| | nane wise attwindenn. (CMORM,I,278.2271) | |
| 53 | & forr +tatt he trowwede wel, Swa summ himm sellf itt se+g+gde, +Tatt Crist wass cumenn all +turrh | thi |
| | Godd & all o Godess hallfe, & comm +tohhwhe+t+tre o nahht till Crist Stilli+g wi+t+t himm to | |
| | m+alenn, Forr+ti bitacne+t+t he +tatt follc +Tatt lefe+t+t wel o Criste, & lede+t+t +tohh fl+ashlike lif | |
| | I +t+awwess & i dedess, & nohht ne darr +get sti+ghenn upp To foll+ghenn he+ghe mahhtess I | |
| | gastli+g lifess brihhte da+g+g, Forr hiss fl+ashess unnstrennc+te, Acc foll+ghe+t+t fl+ashli+g lifess | |
| | nahht I +t+awess & i dedess, & m+ale+t+t wi+t+t +te Laferrd Crist & herrene+t+t whatt he m+ale+t+t, | |
| | +Turrh +tatt te+g+g lefenn rihht o Crist & herrcnenn Cristess lare. (CMORM,II,235.2471) | |
| 54 | & forr+ti +tatt tiss Nicodem, +Tatt we nu m+alenn ummbe, Himm haffde takenn mikell gom Off | thi |
| | Cristess miccle tacness, & wisste +tatt te Laferrd Crist Wass all o Godess hallfe, Forr+ti comm he till | |
| | Crist anan Wi+t+t mikell lusst to lernenn, To fra+g+gnenn himm off Crisstenndom & off +te rihhte | |
| | I+afe. (CMORM,II,238.2487) | |
| 55 | & forr+ti +tatt te Laferrd sahh +Tatt he wass fus to lernenn, Forr+ti wass he rihht r+adi+g till To | thi |
| | wissenn himm & 1+arenn, (CMORM,II,238.2488) | |
| 56 | & forr+ti toc he sone anan To sh+awenn himm whatt wise Fl+ashlike mann ma+g+g wurr+tenn gast | thi |
| | +Turrh Hali+g Gastess bisne, (CMORM,II,247.2517) | |
| | | |

Period 5 - 0 tha, 1 much, 1 all, 7 d-., 3 2p, 4 rest.

| | , , , , , , , , , , , , , , , , , , , , | |
|----|----------------------------------------------------------------------------------------------------------|-----|
| 10 | In which daie +tat ich had cleped to +te, here +tou me hastilich. (CMEARLPS,121.5325) | - |
| 11 | As he ys iuged, go he out condempned, (CMEARLPS,136.5967) | - |
| 15 | +Turch prede o+ter +turch anvie. o+ter +turh wre+the. o+ter +turch o+ter manere of diadliche senne | - |
| | grede we to him Merci. (CMKENTSE,220.155) | |
| 16 | Also at undren. and at midday. iherede he werkmen into is winyarde. +to ha sente be +to time +tet | - |
| | Moyses was and aaron. (CMKENTSE,221.198) | |
| 1 | And huo +tet nim+t wel yeme ine alle +tise guodes of kende +tet ich habbe ssortliche y-tald: by hit | all |
| | zenne be ydele blisse ine to uele maneres +tet ech may betere y-zy yne him-zelue yef he wyle wel | |
| | studie: +tet o+tre ne conne him zigge. (CMAYENBI,24.367) | |
| 2 | And +teruore is hy do+gter of prede. and +te zeuende bo+g he+gliche. (CMAYENBI,26.402) | d |
| 3 | and +teruore bye+t hy onnea+te uoryeue. (CMAYENBI,29.466) | d |
| 4 | and +teruore is he uals demere and ontrewe. (CMAYENBI,62.1150) | d |
| 5 | and +terby he+t he alneway: +te herte ine peyse. (CMAYENBI,85.1662) | d |
| 6 | +Teruore bit he hier to huam god his misdedes uoryef+t +tet he hine loky uram ayen-uallinge. | d |
| | (CMAYENBI,116.2236) | |
| 8 | And in +tat dy+gted he pynes of de+te, (CMEARLPS,7.250) | d |
| 9 | in +te am ich out-caste of +te wombe. (CMEARLPS,24.955) | d |
| 7 | O. moche is he fol uorzo+te and child of wytte +tet of his ssredinge is proud. | Q |
| | (CMAYENBI,258.2409) | |
| | | |

| 12 for-+ty loued ich +ty wittnesses. (CMEARLPS,152.6760) | thi |
|---------------------------------------------------------------------------|-----|
| 13 For-+ti loue ich +ti comaundement vp gold & topaz. (CMEARLPS,153.6785) | thi |
| 14For-+ti was ich dresced to +ti comaundement, (CMEARLPS,153.6787) | thi |

$\textbf{Period 6} \textbf{ - 0} \text{ tha}, \ 6 \text{ neg}, 1 \text{ all}, \ 29 \textbf{ -d} \ , \ 3 \text{ 2pers}, 21 \text{ rest}.$

| 7 til a god haue we tan. (CMBENRUL,6.160) | 1 _ 1 |
|--------------------------------------------------------------------------------------------------------------------|------------|
| 18Na-for-+ti, for +te febilnes of +ta +tat may noht for-bere, hauis he for-lokid til ilkain a mesur of wynd | e of |
| tte day, Ou+tir suilke als tabbesse may furde; (CMBENRUL,28.948) | - |
| | tat |
| 19 When sho hauis musterd hir firmite, yef +te cumandement of +tabbes haldis for+ge, witte sho wele + | tat - |
| it es hir prowe til +te saule; (CMBENRUL,45.1388) | |
| 21 and of this sentence folweth it that thanne ben schrewes constreyned at the laste with most grevous | - |
| torment, whan men wene that thei ne ben nat punyssched. "(CMBOETH,448.C1.400) | |
| 23 Loo, goostly freende! to soche wrechidnes as +tou here mayst see ben we fallen for synne. | - |
| (CMCLOUD,119.630) | |
| 24 And schortly wi+t-outyn +ti-self wil I not +tat +tou be, ne +git abouen, ne be-hynde, ne on o side, ne | on - |
| o+ter. (CMCLOUD,121.648) | |
| 27 To this sentence accordeth the prophete David, that seith, 'If God ne kepe the citee, in ydel waketh he | ; |
| that it kepeth.' (CMCTMELI,226.C2.376) | |
| 29 Agayns honour, have they in helle shame and confusioun. (CMCTPARS,291.C2.142) | - |
| 34 Of thilke Adam tooke we thilke synne original, (CMCTPARS,297.C1.372) | - |
| | /same |
| 36 and certes, in thilke dede have we remembraunce of the love of Jhesu Crist that deyde for his enemys | |
| (CMCTPARS,304.C2.677) | /same |
| 39 Unto the body anoyeth it grevously also, (CMCTPARS,317.C2.1259) | - |
| 43 And for god sei+t in +te Ewangelie: "Al +tat +ge preyen my ffader in my nome, +tat he schal don"; | -/ |
| +terfore we seyen at +te ende of eueri orison in holi chirche, Per dominum nostrum Iesum Cristum, fi | lum subj |
| tuum, Qui tecum uiuit et regnat deus, per omnia secula seculorum amen, +tat is to siggen: "+Torw vre | ; |
| lord Ihesu Crist, +ti sone, +tat wi+t +te liue+t & regne+t god, world wi+touten ende, be hit so". | |
| (CMEDVERN,253.571) | |
| 44bi-foren an Oxe and an Asse was \$he leid in a Cracche, (CMEDVERN,254.623) | - |
| 49 And on the scherethorsday make +tei here therf bred in tokene of the mawndee (CMMANDEV,12.23 | 36 - |
| 53 and of +to .ij. welles hath it the name (CMMANDEV,69.1720) | - |
| 66And so by +tis bodily werke of mercy of Crist been we tawte to wiche men we schulde do syche almy | /S |
| (CMWYCSER,249.472) | |
| 68 In +te olde lawe weren +tei wont to offren a loomb wi+towten weary, +te whiche schulde ben of oo | - |
| +ger, for +te synne of +te peple; (CMWYCSER,345.2116) | |
| 71 And herfore leue we +tis, (CMWYCSER,367.2523) | _ |
| 72 And so wi+t \$+tis vndirstondyng fi+gte we wisly wi+t +tis world; (CMWYCSER,377.2706) | _ |
| 73 And herfore worche we wisly, (CMWYCSER,377.2712) | _ |
| 75 And aftyr +tis byleue of Crist proue+t he +tat +tei schulden trowen hym, (CMWYCSER,418.3453) | _ |
| 65 Si+t God almi+gty, al witty and al goodly, kan not worche but +gif he worche by mercy, be we +tann | |
| merciful for goodnesse of God. (CMWYCSER,237.244) | subj |
| 70 For, as +tow trowedust by my grace, be hit doon vnto +te. '(CMWYCSER,366.2505) | - |
| 701 01, as 10w trowedust by my grace, be me doon viito 1tc. (CNIW 1 CSER, 500.2303) | subj |
| 62 and seide, If ony man thirstith, come he to me, (CMNTEST,7,20J.666) | |
| ozana seide, ii ony man amistra, come ne to me, (etvitvi Esi,7,203.000) | -, subj |
| 63"In hi+ge halle of hevene com he nevere +tat steli+t +tis belle out of seynt Aldelyn his seete." | |
| (CMPOLYCH,VI,185.1324) | -, |
| 64and he seide, "If eny man seekith not the Lord God of Israel, di+ge he, fro the leeste til to the meeste, | fro ? |
| | 110 / |
| man til to womman." (CMPURVEY,I,22.1045) | |
| 8 & for ty hauis +tou no mede of +tat +ting +tat tu dos gruchande; (CMBENRUL,10.343) | 2 |
| 9 for +ti ar +tai rotyn +tat folyzed wicke wylle; (CMBENRUL,12.412) | 2 |
| 11 Ouir vs hauis +tu don men, "+ti wylle at fulfille. (CMBENRUL,13.455) | 2 |
| 25 And whan this olde man wende to enforcen his tale by resons, well ny alle atones bigonne they to rise | for all |
| to breken his tale, and beden hym ful ofte his wordes for to abregge. (CMCTMELI,219.C2.91) | |
| 1 Than for as mochel as a philosofre saith, "he wrappith him in his frend, that condescendith to the | d |

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| | rightfulle praiers of his frend," therfore have I yeven the a suffisant Astrolabie as for oure orizonte, | |
|-----------|-------------------------------------------------------------------------------------------------------------------------|-----|
| | compowned after the latitude of Oxenforde; upon which, by mediacioun of this litel tretys, I purpose to | |
| | teche the a certein nombre of conclusions aperteynyng to the same instrument. (CMASTRO,662.C1.7) | |
| 2 | And in this wise had I the experience for evermo in which manere I shulde knowe the tyde of the day | d |
| | and eke myn ascendent. (CMASTRO,670.C2.237) | |
| | & +terfore haue we gode trust in God; (CMBRUT3,86.2607) | d |
| | and therfore han they rather conseilled yow to youre talent than to youre profit. | d |
| 20 | (CMCTMELI,225.C2.333) | u |
| 28 | And therfore seye I that it is good as now that ye suffre and be pacient. (CMCTMELI,231.C1.536) | d |
| | | d |
| | And therfore han they lorn al hire hope, for sevene causes. (CMCTPARS,293.C1.213) | |
| | And therfore thanne, for as muche as the resoun of man ne wol nat be subget ne obeisant to God, that is | d |
| | his lord by right, therfore leseth it the lordshipe that it sholde have over sensualitee, and eek over the | |
| | body of man. (CMCTPARS,294.C2.258) | |
| 32 | And forther over, for as muchel thanne as the caytyf body of man is rebel bothe to resoun and to | d |
| | sensualitee, therfore is it worthy the deeth. (CMCTPARS,294.C2.269) | |
| 33 | and after that was he bounde, that cam for to unbynden us of synne and peyne. | d |
| | (CMCTPARS,295.C1.281 | |
| 35 | And therfore be we alle born sones of wratthe and of dampnacioun perdurable, if it nere baptesme that | d |
| | we receyven, which bynymeth us the culpe. (CMCTPARS,297.C1.376) | |
| 37 | Therfore been they likned to the devel, that evere is aboute to maken discord. (CMCTPARS,309.C2.893) | d |
| 38 | And therfore speke I first of misericorde. (CMCTPARS,316.C1.1182) | d |
| _ | for therby wynneth he the mooste partie of this world. (CMCTPARS,318.C1.1268) | d |
| _ | ffor +tou art feir, +terfore are +tei feir; (CMEDVERN,245.225) | d |
| | ffor +tou art good, +terfore are +tei goode. (CMEDVERN,245.226) | d |
| _ | & fro thennes is she meridional assending til she come agayn at capud <slash> (CMEQUATO,42.299)</slash> | d |
| | & +terfore made +tei the foot of the cros of Cedre. (CMMANDEV,6.100) | d |
| _ | | |
| 48 | And for +tei trowed +tat thei hadden the victorye of crist Jhesus +terfore made +tei the ouerthwart pece | d |
| 50 | of palme. (CMMANDEV,7.107) | 1 |
| | And fro +tens was he translated into paradys of delytes, as +tei seyn. (CMMANDEV,44.1094) | d |
| | And fro +tens was sche born of the Apostles vnto the vale of Iosaphath. (CMMANDEV,60.1483) | d |
| | & fro +tat tyme was sche a worthi womman (CMMANDEV,65.1635) | d |
| | & +terfore allegge +tei so the lettre (CMMANDEV,79.2009) | d |
| | & +terfore ben +tei repreued of +te wise +tat gostly vnderstonden it. (CMMANDEV,88.2203) | d |
| 59 | And +terfore maken +tei here god of an ox the on part & the o+ter halfondell of a man be cause +tat man | d |
| | is the most noble creature in erthe & also for he hath lordschipe abouen all bestes; | |
| | (CMMANDEV,110.2688) | |
| 60 | +terfore make +tei the halfondel of ydole of a man vpwardes & the to+ter half of an ox dounwardes. | d |
| | (CMMANDEV,110.2689) | |
| 61 | And +terfore hath it befallen many tymes of o +ting +tat I haue herd cownted whan I was +gong, how a | d |
| | worthi man departed somtyme from oure contrees for to go serche the world, (CMMANDEV,122.2971) | |
| 67 | and +terfore holde we couenaunt to God (CMWYCSER,278.942) | d |
| | And in +tis ben we tawte to suffre meekely owre owne wrong, (CMWYCSER,400.3140) | d |
| | And +terfore caste we awey +te werkis of derknesses, (CMWYCSER,477.3625) | d |
| | And fro +tat welle bare he water oftentyme to his moder (CMMANDEV,75.1901) | d? |
| | | d? |
| | And +tus for here synnes han +tei lost all this lond +tat wee holden. (CMMANDEV,89.2230) | |
| | In o+tir stede sais he: "In god sal man be glad and loue him in dede." (CMBENRUL,3.61) | man |
| | Als sain paul sais: "Lauerd, of me haue I noht, bot +tu sende it me." (CMBENRUL,3.60) | neg |
| _ | Als ure lauerd sais: "Of +te sinfull will I noht +te dede, bot +tat tay turne and liue." (CMBENRUL,3.71) | neg |
| | Til na +ting es I made bot for to doe godis wylle. (CMBENRUL,14.484) | neg |
| 45 | In +tis manere louest tou not but bounte, si+ten +tow louest alle men for bounte. | neg |
| L | (CMEDVERN,261.917) | |
| 56 | & for non o+ter +ting is it not good. (CMMANDEV,83.2102) | neg |
| | but of his owne wor+tinesse affyede he not +tus, (CMWYCSER,364.2453) | neg |
| | And in odyr stede sais he: "Voluntas habet &c (CMBENRUL, 12.429) | say |
| | And in odir stede sais he: "Confitemini &c (CMBENRUL,13.470) | • |
| | Of +tes times sais he: "seuin sy+te opo day saie I louing to +te." (CMBENRUL,18.610) | say |
| 114 | | say |
| _ | | |
| 16 | And in o+tir stede sais he: "Psallite - (CMBENRUL,19.653) And in o+tir stede sais he: "Infidelis &c. (CMBENRUL,23.778) | say |

| 2 | 20 but thanne at erste ben thei verraye good, whan thei ben gadred togidre \$als into o forme and into oon | tha |
|---|-------------------------------------------------------------------------------------------------------------|-----|
| | werkynge, so that thilke thing that is suffisaunce, thilke same be power, and reverence, and noblesse, and | |
| | myrthe; (CMBOETH,434.C2.248) | |
| (| Bi-fore +te werld er +tai semande, (CMBENRUL, 4.107) | X |
| | 15 Til +ta +tat rysis o night and wakis Sais vre lauerd: "My frende, o niht ras I for yu (CMBENRUL, 18.611) | X |

Period 7 - 0 tha, 5 neg, 3 all, 28 d-, 5 2pers, 34 rest.

| 4 In a cart al fire was he bore up to paradise. | - |
|----------------------------------------------------------------------------------------|---|
| (CMCAPCHR,34.64) | |
| In Samary deied he, | - |
| (CMCAPCHR,34.71) | |
| 6 Of Demostenes rede we +tat whan Alisaundre cam to Attenes in purpos to | - |
| distroye +te cite', +tis man was sette withoute +te gate because he had be | |
| maistir onto +te kyng. | |
| (CMCAPCHR,41.298) | |
| But of homely kyn was he born, (CMCAPCHR,50.546) | - |
| 10In +tis tyme lyued he +tat is clepid Albinus, of Englisch nacioun, whech was | - |
| maistir onto Charles in al +te seculer sciens, | |
| (CMCAPCHR,83.1521) | |
| 11 in +te xix +gere of his regne went he to Rome, cause of deuocion, | _ |
| (CMCAPCHR,86.1645) | |
| 12 and be hir had he iiii sones: | _ |
| (CMCAPCHR,86.1650) | |
| 14Of +tis Ode haue I sey dyuers werkes, on upon +te Sauter, and a gret book of | - |
| omelies. | |
| (CMCAPCHR,91.1781) | |
| 15 Ofte in his lyf went he to Rome and hom ageyn for to se good gouernauns in +te | - |
| Cherch, | |
| (CMCAPCHR,93.1868) | |
| 16and at Westminster was he crowned in Cristmesse of Aldred, bischop of +Gork. | - |
| (CMCAPCHR,102.2158) | |
| 19In +tat +gere mad he chaunge of his coyne, | - |
| (CMCAPCHR,128.2962) | |
| 20 but at +te last was he broute to +te castel of Berkley, | - |
| (CMCAPCHR,154.3615 | |
| 21and to +tese lordes gaue he mech of +te liflod of +te duke of Gloucetir, erl | - |
| of Warwik, and erl of Arundel. | |
| (CMCAPCHR,209.3751) | |
| 24and vndir +tat ypocrisie had he a ful venemous hert. | - |
| (CMCAPCHR,243.4042) | |
| 25 For xxj +gere was he in paganite, and ix +gere in +te heresie of +te Manychees. | - |
| (CMCAPSER,145.12) | |
| 27Off +tis ordre haue I as +get no certeyn knowlech, who was her foundor, or | - |
| vndir what Pope, or kyng, +tei be-gunne. | |
| (CMCAPSER,148.67) | |
| 28And ther-fore, what houre +tat I thynke of my-selfe, one nyghte or on day, On | - |
| a syde hafe I gret Ioye, and on ano+ter syde gret sorowe: | |
| (CMEDTHOR,16.10) | |
| 29Bot vn-till vs, thurghe His awen myghte full of mercy, es He Godd and makere | - |
| and Fadyr, For +tat our saule es lelly lyke vn-till +te lyknes of +te Fadyr, | |
| and +te Son, and +te Haly Gaste, +tat ere hallyly a Godd and persons thre. | |
| (CMEDTHOR,32.423) | |
| 30 In state of thralle tuke He oure flesche to suffre +te gylteste pouerte, and | - |
| schame, and noyes, and paynnes, +tat neuer dyd ill ne na maner of syn, | |
| | |

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| SilFor of oure selfe hafe we noghte Hym for to +gelde; CMEDTHOR, 34.449 36 In clowtis was He wonden, CMEDTHOR, 34.6407 37and als a chijde was He bunden; CMEDTHOR, 42.608 39 Syresom, commes He till +te knawynge of man one +tis manere: - (CMEDTHOR, 45.703) 11 h-tis manere lufe +tou as thynge bot gudnes, sen +tat +tou lufes all thynges for gudnes; CMEDTHOR, 49.773 12 but of grettest name was he in helpynge of the people of god, to distroye his enmyes, where by he myght atteyne to the people of god promysid *slash* whiche glory and reno-mee of name he obteyned in lyfrying his hondes & scute in shotynge of sharpe & fryy arowes ayenst y== cyte of hay & c- *slash* CMETIZIA, 33.34 43 And on a tyme was he taken bi pirates in the see. & solde to Denyse y== grete typaunt *slash* CMETIZIA, B3R, 144 47 Hereto ere we byddyn of god and drawen and consayled and fered inwardlye be the haly gaste & ourwarde by haly kyrke by the same grace. CMULNOR, 62, 318 58 Sche thown in hir mende, "A, Lord, for +ti lofe cam I hedyr, CMKEMPE, 229, 3751 59 Sor hand the tause com I hydir." (CMMALORY, 189, 2758) 68 And +ten he sayde: Hereby know I now, +tat +tylke gret byschop of Caunturbury sy +ys du slayne for Goddys sake. CMMIRK, 43, 1237 73 Talte laste cause com I hydir." (CMMALORY, 189, 2758) 68 And +ten he sayde: Hereby know I now, +tat +tylke gret byschop of Caunturbury sy +ys du slayne for Goddys sake. CMMRYNAR, 11, 162) 78 With mouth es it tane in vayne, with all athes brekynge, of new prechynge +tat es vanyte and vndevocyone; prayere, when we honour God with oure lyppys, and oure herry erre ferre fire Hym. CMROLLTR, 11, 301 50 Soluti in hym grace hast +tu full lityl contrieyon. CMKEMPE, 21, 3062 50 Soluti myn goodnes & in thy sorwys +tat +tu hast suffryd +terin hast +tu gret cawse to joyn, CCMCAPCHR, 26, 7447 51 Solution of the sit face in the solution of the suffryd terin hast +tu gret cawse to joyn, CCMCAPCHR, 26, 744 | (CMEDILIOD 22 426) | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------|
| CMEDTHOR 34.449 3finc lowits was He wonden, CMEDTHOR 42.607 3find als a chylde was He bunden; CMEDTHOR 42.608 39By resonn, commes He till +te knawynge of man one +tis manere: - CMEDTHOR 42.608 39By resonn, commes He till +te knawynge of man one +tis manere: - - CCMEDTHOR 45.008 34lln +tis manere lafe +tou na thynge bot gudnes, sen +tat +tou lafes all thynges for gudnes; CCMEDTHOR 49.773 41ln +tis manere lafe +tou he helpynge of the people of god, to distroye his enmyes, where by he myght atteyne to the people of god promysid <slash> whiche glory and reno-mee of name he obteyned in lythyng his hondes & scute in shotyinge of sharpe & flyra worse ayeast year-e- cyte of hay & c - </slash> | (CMEDTHOR, 33.436) | |
| Solin clowtis was He wonden, CMEDTHOR 42.608 37 and als a chylde was He bunden; CMEDTHOR 42.608 37 and als a chylde was He bunden; CMEDTHOR 42.608 39 by reson, commes He till "te knawynge of man one "tis manere: " - (CMEDTHOR, 46.703) 41 h"tis manere lufe "tou na thynge bot gudnes, sen "tat "tou lufes all thynges for gudnes; CMEDTHOR, 49.773 42 but of grettest name was he in helpynge of the people of god, to distroye his enmyes, where by he myght atteyne to the people of god promysid "slash" whiche glovy and reno-mee of name he obteyned in lyftyng his hondes & scute in shotynge of sharpe & fry; arowes ayenst y=e= cyte of hay & c- "slash" CCMFITJA, 343-34 43 And on a tyme was he taken bi pirates in the see. & solde to Denyse y=e= grete tyraunt "slash" CCMFITZIA, B3R.144 41 And on a tyme was he taken bi pirates in the see. & solde to Denyse y=e= grete tyraunt "slash" CCMFITZIA, B3R.144 42 And on a tyme was he taken bi pirates in the see. & solde to Denyse y=e= grete tyraunt "slash" CCMFITZIA, B3R.144 43 And on a tyme was be taken bi pirates in the see. & solde to Denyse y=e= grete tyraunt "slash" CCMFITZIA, B3R.144 43 And on a tyme was be taken bi pirates in the see. & solde to Denyse y=e= grete tyraunt "slash" CCMFITZIA, B3R.144 43 And on a tyme was be taken bi pirates in the see. & solde to Denyse y=e= grete tyraunt slash" CCMENTIA, B3R.144 44 And on a tyme was be taken bi pirates in the same grace. CCMUI.NOR, 62.318 5 | | - |
| CMEDTHOR 42.6087 37 and als a chylde was He bunden; CMEDTHOR, 42.6081 41 he thou has given by the search of the search o | | - |
| 37 md als a chylde was He bunden; CMEDTHOR, 42.608 39By resonn, commes He till +te knawynge of man one +tis manere: - CCMEDTHOR, 40.703 11n +tis manere lufe +ton na thynge bot gudnes, sen +tat +tou lufes all thynges - | | |
| CMEDTHOR, 42.088 | | - |
| CMEDTHOR.46.7030 | | |
| All In +tis manere lufe +tou na thynge bot gudnes, sen +tat +tou lufes all thynges for gudnes; CMEDIHOR,49.773) | | - |
| for gudness (CMEDTHOR,49.773) 42but of grettest name was he in helpynge of the people of god. to distroye his emryes, where by he myght atteyne to the people of god promysid <slash> whiche glory and reno-mee of name he obteyned in lyftyng his hondes & scute in shotynge of sharpe & fyry arowes ayenst y=e=cyte of hay & c~ <slash> (CMFITZJA,A3V.34) 43And on a tyme was he taken bi pirates in the see. & solde to Denyse y=e= grete yraunt <slash> (CMFITZJA,B3R.144) 47Hereto ere we byddyn of god and drawen and consayled and lered inwardlye be the haly gaste & outwarde by haly kyrke by the same grace. (CMIJUNOR, 62.318) 57Sche thowt in hir mende, "A, Lord, for +ti lofe cam I hedyr, (CMKEMPE.229.3751) 50for in an evyll tyme com they. (CMMALORY, 18.1234 42Tor for that cause com I hydir.' (CMMALORY, 18.9.2758) 50fond +ten he sayde: Hereby know I now, +tat +tylke gret byschop of Caunturbury ys +tys day slayne for Goddys sake. (CMMENA, 31.257) 71atte laste cam he in lyknes of an heremyte <slash> (CMREYNAR, 11.162) 72WWith mouthe es it tane in vayne, with all athes brekynge, of new prechynge +tat es vanyte and vndevoeyone; prayere, when we honour God with oure lyppys, and oure hertys erre ferre fra Hym. (CMROLLTR, 11.301) 80and if he will, of his fre grace, ouer +tis desire, send vs of his gostely lyghe, and opyn oure gostely eghen for to se & knawe more of Hym +tan we hafe had be-fore by comon trauell, thanke we Hym +tar-of; (CMROLLTR, 13.82) 18To the kyng of Frauns hast +tou be falls, (CMCAPCHR, 11.2447) 50 kal thorw my grace hast +tu skapyd. (CMKEMPE, 13.13.062) 55 kor +ti synne hast +tu skapyd. (CMKEMPE, 13.13.062) 56 lot ni myn goodnes & in thy sorwys +tat +tu hast suffryd +terin hast +tu gret cawse to joyn, (CMKEMPE, 13.13.062) 57 lot he kyng of Frauns hast +tu borne, seyde sir Launcelot. (CMCAPCHR, 214.3821)</slash></slash></slash></slash> | | _ |
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| 62 For for that cause com I hydir.' (CMMALORY,189.2758) 66 And +ten he sayde: 'Hereby know I now, +tat +tylke gret byschop of Caunturbury ys +tys day slayne for Goddys sake. (CMMIRK,43.1257) 71 latte laste cam he in lyknes of an heremyte <slash> (CMREYNAR,11.162) 78 With mouthe es it tane in vayne, with all athes brekynge, of new prechynge +tat es vanyte and vndevoeyone; prayere, when we honour God with oure lyppys, and oure hertys erre ferre fra Hym. (CMROLLTR,11.301) 80 and if he will, of his fire grace, ouer +tis desire, send vs of his gostely lyghte, and opyn oure gostely eghen for to se & knawe more of Hym +tan we hafe had be-fore by comon trauell, thanke we Hym +tar-of; (CMROLLTR,43.882) 18 To the kyng of Frauns hast +tou be fals, (CMCAPCHR,111.2447) 51 & al thorw my grace hast +tu skapyd. (CMKEMPE,121.162) 55 & for +ti synne hast +tu ful lityl contrieyon. (CMKEMPE,121.3062) 65 In a shamefull oure were thou borne,' seyde sir Launcelot. (CMKEMPE,131.3062) 65 In a shamefull oure were thou borne,' seyde sir Launcelot. (CMCAPCHR,214.3821) 8 and to euery region preferred he a decun, to write treuly +te lyf of holy martires. (CMCAPCHR,56.744)</slash> | | - |
| CMMALORY,189.2758 | | |
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| 8 and to euery region preferred he a decun, to write treuly +te lyf of holy martires. (CMCAPCHR,56.744) | | |
| martires. (CMCAPCHR,56.744) | | 211 |
| (CMCAPCHR,56.744) | | |
| | | |
| | | all |

| (CMROLLEP,117.944) | |
|-----------------------------------------------------------------------------------------------------|-----|
| 13+terfor wanted he +te benediccion imperial. | d |
| (CMCAPCHR,90.1774) | 1 |
| 2 in this stondist thou, dere sustir, (CMAELR4,16.467) | d |
| 3 aftir +tat xl +gere was he kyng, first vii +gere in Hebron upon +te tribe of | d |
| Juda, aftir xxxiii in Jerusalem upon al Israel. | ď |
| (CMCAPCHR,32.14) | |
| 9 and +terfor was he smet with a leuene and +tundir, but not ded. | d |
| (CMCAPCHR,59.809) | l u |
| 17+terfor had he neuyr prosperite' aftir +tat. | d |
| (CMCAPCHR,105.2259) | |
| 26be +tis vndirstund we +te knytes of Seynt Ion whech begunne first at Ierusalem, (CMCAPSER,147.49) | d |
| 32And for-thi +tat we may noghte euer-mare do +tat perfitely whyls we ere in | d |
| +tis caytifede worlde, +tare-fore pray we +tus, | |
| (CMEDTHOR, 38.543) | |
| 33and for-thi +tat we may noghte do +ti will whills we lyffe in +tis body, if | d |
| +tou ne sustayne vs noghte, +tare-fore say we +tus, Panem nostrum cotidianum | |
| da nobis hodie, +tat es to say, Oure ilke day brede +tou gyffe vs to-day; | |
| (CMEDTHOR,39.548) | |
| 34And for-+ti +tat a lyttill vs helpes to hafe forgyfnes of syn, if we may | d |
| noghte kepe vs fra syn, +tare-fore pray we +tus, Et ne nos inducas in | |
| temptacionem, | |
| (CMEDTHOR,39.556) | |
| 35and +tare-fore hafe I twynnned the thaym by +te Seuen houres of +te daye +tat | d |
| +tou saise in +te kyrke, Swa +tat nan houre passe the, +tat +tou ne sall be | |
| swetely ocupyed in +ti herte. (CMEDTHOR,42.600) | |
| 40 And for-+ti +tat of +te fyrste personne commes +te to+ter, and oowte of thaym | d |
| bathe comes +te thyrde, For-thi calles he +te firste personne Godd +te Fadire, | l u |
| +te to+ter Godd +te Sonne, +te thirde Godd +te Haly Gaste. | |
| (CMEDTHOR,48.740) | |
| 46and in this was I lered that ilke saule contemplatyfe to whilke es gyffen to | d |
| luke and seke god schalle se hire and passe vnto god by contemplacion. | |
| (CMJULNOR,59.255) | |
| 48+Terfor wend sche +tat God had forsake hir. | d |
| (CMKEMPE,15.296) | |
| 49 And +terfore wend sche +tat he had forsakyn hir | d |
| (CMKEMPE,16.323) | |
| 50"+Terfor is it no synne to +te, dowtyr, (CMKEMPE,48.1090) | d |
| 52& +terfor sufferyd sche mych despyte & mech reprefe. | d |
| (CMKEMPE,68.1553) | |
| 53& +terof cowde sche good skylle | d |
| (CMKEMPE,86.1957) | |
| 54& +Terof had +tei gret wondyr. | d |
| (CMKEMPE,110.2547) | |
| 58& +terfor was sche oftyn-tymys blamyd. | d |
| (CMKEMPE,233.3848) | |
| 60 therefore com I affter you.' | d |
| (CMMALORY,51.1690) | |
| 67 But, for +tys fest make+te mynde of +tes kyngys offryng, +terfor pursew we +te | d |
| forme of holy chyrche, | |
| (CMMIRK,48.1364) | 4 |
| 68But for God rewardyth a good endyng, and not +te begynnyng, +terfor lese we | d |
| not our mede, | |
| (CMMIRK,68.1848) | 1 |
| 69+Ten wyth +tat sayde he: 'For I wot well I am vnworthy to haue mercy; wherfor | d |

| | Ltou walt Lagua ma non maray! | |
|-----|-----------------------------------------------------------------------------------------------------------------|------|
| | +tou wolt +geue me non mercy.' (CMMIRK,92.2469) | |
| 70 | And +terfor pray we to Saynt George +tat he wyll be our helpe at oure nede, | d |
| ' ` | and saue +tys reem to +te worschyp of God and his modyr Mary and all +te | u u |
| | company of Heuen. | |
| | (CMMIRK,135.3594) | |
| 72 | therfore haue I the lenger taryed a lytyl <slash></slash> | d |
| | (CMREYNAR,13.250) | |
| 74 | therfore ete I gladly lyght mete. | d |
| | (CMREYNAR,56.477) | |
| 8 | And +ter-fore drede +tou leste he do commaunde to bynde +te honde and fote and | d |
| | putt +te in-to +te innere derkenesse. | |
| | (CMROYAL,16.103) | |
| 82 | and +terfore seye we, 'faire fadre, lede not vs in-to temptacioun.' | d |
| 4 | (CMVICES4,116.352) | |
| 44 | For neyther by theyr prudence ne yet theyr sapyence. ladde they or themself. | neg |
| | or theyr folowers to the ryghte & perfyte ende naturall. or supernaturall (CMFITZJA,B3V.158) | |
| 6 | and at no tyme was he ovircom but yf hit were by treson other inchauntement. | neg |
| 0 | (CMMALORY, 180.2409) | neg |
| 6 | 'Whether that I lyve other dye,' seyde sir Launcelot, 'with no wordys grete | neg |
| 0. | gete ye hit agayne. | neg |
| | (CMMALORY,203.3291) | |
| 64 | and anone an holer man in his lyff was he never. | neg |
| | (CMMALORY,204.3331) | |
| 7: | of +tat maner of syngyng speke I noght, | neg |
| | (CMROLLEP,106.709) | |
| 70 | bot +tarfore lufes he hym noght, | neg |
| | (CMROLLEP,110.813) | |
| 79 | and for-thi be +tou noghte in dowte ne in were when +tou prayes or thynkes one | neg |
| | Godd, or ells duse any owtwarde dedis to thyne euencristyn, whe+ter +tou | |
| | desyres Hym or noghte, | |
| | (CMROLLTR,37.777) | |
| /. | wyth moche payne cam I of his clawes <slash></slash> | Q |
| 2 | (CMREYNAR,52.307) To hem seid he +tat he wold resigne his regaly, and all +tat longe +terto, | COXI |
| 2. | saue +te carectis of his soule, so +tat his lif schuld be graunted him, and | say |
| | sufficient liflod to him and viii persones. | |
| | (CMCAPCHR,213.3810) | |
| 33 | And to +te discyple saide He, 'Manne, lo +tare thy Modire!' | say |
| , | (CMEDTHOR, 44.647) | Suy |
| 1 | Natheles, though chastite be a yifte of God and may not be gote ne had with-out him, be we yit neuere so | subj |
| 1 | vertuous, whan we han it we shulden kepe it as vertuously as we konne with affliceyon of oure flesshe, or | |
| | by othir vertuouse menes. (CMAELR4,11.294) | |
| 4: | Thenne of this Ihu~s our sauyour Cryste purpoos I to talke wyth his mercy | tha? |
| L | (CMFITZJA,B6V.217) | |
| | | |

69/15588= 4.6/kToken

Appendix 4. Geographical breakdown of Strict V2 in period @7:

| Document | Occurrence V2 | Region |
|--------------------|---------------|---------------|
| cmaelr4@7.m4.upsd | 2/2/767 | East Midlands |
| emcapchr@7.m4.upsd | 22/22/4177 | East Midlands |
| cmcapser@7.m4.upsd | 3/3/91 | East Midlands |
| cmedmund@7.m4.upsd | 0/0/300 | East Midlands |

| whole search, hits/tokens/to | tal82/82/28056=1.0/kToken | |
|------------------------------|---------------------------|------------------------|
| South | 1/3029=0.3 /kToken | |
| cmroyal@7.m34.upsd | 1/1/399 | Southern |
| cmgregor@7.m4.upsd | 0/0/2630 | Southern |
| West-Midl | 12/ 9439=1.3/kToken | |
| cmsiege@7.m4.upsd | 0/0/732 | West Midlands |
| cmmirk@7.m34.upsd | 5/5/3708 | West Midlands |
| cmmalory@7.m4.upsd | 7/7/4999 | West Midlands |
| North+ EastMidlands | 69/15588=4.6/kToken | |
| cmthorn@7.mx4.upsd | 0/0/674 | Northern |
| cmrollep@7.m24.upsd | 3/3/1002 | Northern |
| cmgaytry@7.m34.upsd | 0/0/199 | Northern |
| cmedthor@7.m34.upsd | 14/14/795 | Northern |
| cmrolltr@7.m24.upsd | 3/3/957 | Northern/East Midlands |
| cmvices4@7.m34.upsd | 1/1/364 | East Midlands |
| cmreynes@7.m4.upsd | 0/0/681 | East Midlands |
| cmreynar@7.m4.upsd | 4/4/740 | East Midlands |
| cmkempe@7.m4.upsd | 11/11/3853 | East Midlands |
| cmjulnor@7.m34.upsd | 2/2/334 | East Midlands |
| cminnoce@7.m4.upsd | 0/0/208 | East Midlands |
| cmhilton@7.m34.upsd | 0/0/218 | East Midlands |
| cmfitzja@7.m4.upsd | 4/4/228 | East Midlands |