



Royal Netherlands Academy of Arts and Sciences (KNAW) KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN

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

Postma, G.J.

published in

Proceedings of the Workshop on V2-Languages
2015

document version

Early version, also known as pre-print

[Link to publication in KNAW Research Portal](#)

citation for published version (APA)

Postma, G. J. (in press). The rise and fall of the passive auxiliary *weorðan* and strict Verb-Second in the history of English. In B. Los, & P. de Haan (Eds.), *Proceedings of the Workshop on V2-Languages: A Festschrift for Ans van Kemenade* Benjamins.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the KNAW public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain.
- You may freely distribute the URL identifying the publication in the KNAW public portal.

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

pure@knaw.nl

The rise and fall of the passive auxiliary *weorðan* in the history of English

Gertjan Postma
Meertens Institute Amsterdam

Abstract

This paper investigates the decline of the passive auxiliary *weorðan* in the history of English. We provide a new structural analysis of why and in what languages the passive diathesis can or cannot use the copula BE as an auxiliary. We will do so in a comparative perspective within Germanic and Romance. Our point of departure is not why *weorðan* WERDEN declines, but why the copular verb BE is incapable of functioning as a passive auxiliary in some languages, incidentally in some tenses, while it can be used in other languages/tenses. We provide 1. language internal structural variation in BE and WERDEN, 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 (V2) 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*, and these developments can be related because they comply with 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. The interpretation of tense (past, present and perfect) makes use of indexical heads in the extended domain of VP. In V2 languages, the C head participates in the Reichenbachian calculus of tenses, while this is not the case in non-V2 languages. The (in)equality of the Reichenbachian indexes S, E, R are subject to the binding domains of the Binding Theory. The passive diathesis interacts with binding domains, because subject absorption lifts a domain border, and gives rise to the obviation of E and S.

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** complètement 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 put to bed by their parents before 8 o'clock

- (4) a. Die Kinder **sind** ganz und gar von den Eltern abhängig
b. Die Kinder **werden** immer vor 08.00 Uhr von einem der Eltern ins Bett gebracht

THE DECLINE OF PASSIVE *WEORÐAN* IN ENGLISH

- (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** þes biscepes nefe of Searesbyrig CMPETERB,44.91.
 he was the.GEN bishop cousin of Salisbury
 'He was the cousin of the bishop of Salisbury'
- b. Þa **wurdon** hig mid unwisdome gefyllede (c 1025. Lk (WSCp))
 then were they with fury filled
 'Then they were filled with fury'

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* start to decline from 1100 onward, and is absent at the middle 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 there 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 no attested "pure stage" of *weorðan*. Both auxiliaries were usually mixed, as illustrated in (8) taken from one and the same 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.]'
(c891. ChronA: 651 & 654)

Did they have different semantics (Petré 2014)? Or did *wesan* simply outcompete *weorðan* because of its higher frequency, (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 a 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's (2010) 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 we 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 internal competition: the more frequent verb BE was a competitor. Neither of them consider 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 have attested impact on 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 through the syntax: the correlation with the syntactic phenomenon of V2 is significant, while it is weak and derived with the discourse properties, indicated with the curly arrow.

- (9) Petré 2010: Decline of *weorðan*  changes in discourse properties
 This study: Decline of *weorðan* ↔ changes in V2  changes in 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 fewer 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 of the choice between WERDEN and BE as a passive auxiliary to the fall of V2. We carry out a corpus study on the parsed corpora YCOE and PPCME2, re-ordered according the Petré's LEON periodisation. It turns out that the fall of WERDEN (around 1100) is not related to the fall of V2 (around 1450), but rather to 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, the type of 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 Constant 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, confirms 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, Rhaeto-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 *worden* 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
Mary WERDEN.pres by John kissed
'Mary is kissed/being kissed by John' | present, passive |
| (11) | a. | Jan kuste Marie
John kissed Mary
'John kissed/was kissing Mary' | past, active |
| | b. | Marie werd door Jan gekust
Mary WERDEN.past by John kissed
'Mary was (bing) kissed by John' | past, passive |

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
Mary AUX.perf.pass by John kissed
'Mary has been kissed by John' | perfect, passive (Standard) |
| | b. | Marie is gisteren door Jan gekust geworden
Mary AUX.perf yesterday by John kissed AUX.pass
'Mary was kissed by John yesterday' | perfect, passive (dialectal) |

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
Mary AUX.pass.perf to Amsterdam gone | perfect |

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.passive.perf. This has apparently be generalized in the standard language to agentive passive constructions.

Notice that the Dutch AUX + ptc cannot 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 synthetic tenses (present and past), and BE in analytic tenses (perfect), whatever its reading is, past or perfect. As we will see in section ..., it is the analyticity in perfect tenses that allows for BE, while the synthetic nature of imperfect tenses that requires WERDEN.

2.1.2 Passives of causative constructions in Dutch and Middle Dutch

Similar sensitivity to the analyticity 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 or past tense, i.e. if we select *worden* instead of BE, as (16) shows.

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

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

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(<i>convolute</i>)
8. Dutch	yes	WERDEN	BE(<i>convolute</i>)
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/synthetic tenses. If we collapse all non-BE verbal strategies under the label WERDEN, we may summarize the pattern as an absolute block on BE in simplex tenses in V2-languages.

- (25) *V2-WERDEN correlation*
 V2 \Leftrightarrow *BE in simplex tenses

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

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.³ 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 checked the main/embedded clause effect

³ LEON Periods: <950, 951-1050, 1051-1150, 1151-1250, 1251-1350, 1351-1420, 1421-1500.

because such a main clause bias has been reported in the literature. Petré (2013) writes, referring to Frary (1919:17):

Approximately four fifths of the instances of *wearþ* 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 *wearþ* 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.⁴ 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 in (26).

(26) Relative use of *be/be+weoþan* passives

<i>LEON period</i>	900±50	1000±50	1100±50	1200±50
<i>context</i>				
matrix				
BE	-	1145 (85%)	2721 (75%)	6 (75%)
WERDEN	-	200	873	2
Total	-	1345	3594	8
embedded				
BE	3 (100%)	1862 (92%)	2621 (90%)	20 (100%)
WERDEN	-	158	267	0
Total	3	2020	2888	20

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. This is probably 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 also see that in embedded clauses the rate of *weorðan* continues to be rather low. WERDEN never exceeds 10%. In root clauses, on the other hand, the number of WERDEN grows to 25%, i.e. BE also remains the dominant type here. The higher occurrence of WERDEN in root clauses than in embedded clauses over period 2, 3, and 4 is significant.⁵ Before we can understand what it means, we must first elaborate on the interaction between *weorðan* and V2. We postpone this discussion to section 5.

⁴ query: ((IP-MAT* idominates VBN*|VAN*) AND (IP_MAT* idominates BEP*) AND (BEP* idominates wesam)) ((IP-MAT* idominates VBN*|VAN*) AND (IP_MAT* idominates BEP*) AND (BEP* idominates weorþan)), where 'wesam' and 'weorþan' are definition files with all morphological forms of BE and WERDEN respectively, to be found in Petré (2010:83).

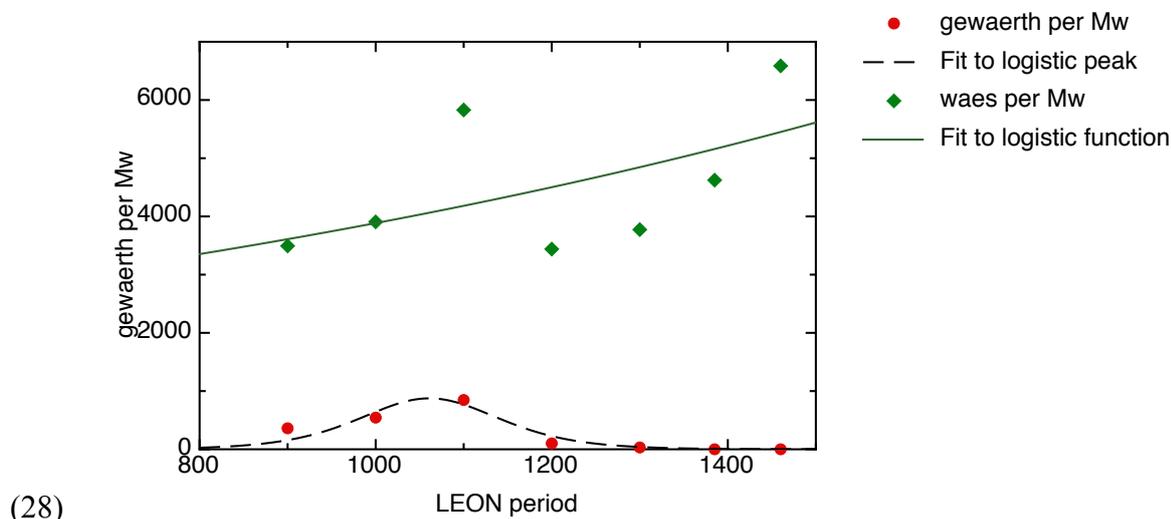
⁵ χ^2 test, p-value <0.0001. We did a chi-square test with the null hypothesis that the percentage of BE versus WERDEN was equal in main clauses and embedded clauses. For instance, on the basis of 85% BE in main clauses, we expect 17171 BE and 303 WERDEN in embedded clauses, but observed 1862 BE and 158 WERDEN. The small (two sided) p-value of 0.0001 produced by the χ^2 -test shows that the embedded data are not sampled from the main clause distribution. Similar p-values for the other periods, as well as for the periods altogether.

4.2 Diachrony of *weorðan*

In this section we study the diachronic development of *weorðan*, irrespective of the type of clause. We base ourselves entirely on Petr 's data sheets⁶ of *w es* + Ptc and *(ge)wearð* + Ptc, which classify these AUX-constructions with respect to their use and form. We only count the eventive passive ("Vorgangspassiv"), that may be accompanied with some type of by-phrase (genitive or dative NP, *for, from, mid, by, in, at, through*) or not. The results are in (27).

(27) LEON period	w�es ⁷	(ge)-wearð	total	corpus size in Mw	total/Mw	w�es/Mw	gewearð/Mw	% ge wearð
900±50	980	101	1081	0.28054	3853	3493	360	9
1000±50	1220	170	1390	0.31229	4451	3907	544	12
1100±50	840	122	962	0.14410	6676	5829	847	13
1200±50	1290	38	1328	0.37502	3541	3440	101	3
1300±50	970	8	978	0.25705	3805	3774	31	1
1385±35	1960	0	1960	0.42390	4624	4624	0	0
1460±40	2640	0	2640	0.40086	6586	6586	0	0

Both in absolute sense (with respect to the number of words, penultimate column of 27) and in relative sense (with respect to passive BE, last column of 27), WERDEN displays a peak in its occurrence around 1100. In the diagram in (28) we present the occurrence rates of BE and WERDEN graphically (dots and diamonds respectively). It shows that the use of *weorðan* does not display a gradual decay, but first emerges and then disappears again.

Dynamics of AUX+Ptc: *w es* versus *wearth* in Old & Middle English

We fitted these empirical data (the dots) to a logistic peak, as defined in Postma (2010).⁸ We may consider it a failed change, which peaks just before 1100. The logistic peak is a good fit

⁶ Cf. the appendices in Petr ' (2014). Also digitally available from the author.

⁷ Petr 's *w es*-datasheet represents 10% of the total corpus. The values have been scaled up accordingly. The period 900±50 was left unanalyzed in Petr 's datasheet and was analyzed by me.

⁸ 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). The formula used in

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

Fitted parameters⁹

actuation time = 1061 ± 15 years

slope parameter = 54 ± 12 years

The empirical data points of this emerging BE-passive construction are drawn in the figure as well (the green diamonds). Their fit to the logistic curve is rather poor, though, as the data points fluctuate considerably. But it is quite clear that the *weorðan* peak is disconnected from the rise of periphrastic passive constructions as such. In this study, we do not pursue this line of research and concentrate on the relation with V2 as the synchronic and comparative data presented in section 2-3 suggest.

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 an S-curve, while *weorðan* follows a peak. Finally, it is a problem 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 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
their weakness he shall atone in his heart | NP-pron-Vfin |
| | b. | [þin agen geleafa] the hæfþ gehæledne
thy own faith thee has healed | NP-pron-Vfin |

So, the question that arises is whether the use of *weorðan* is tied to a stricter version of V2. If so, it must be a thus far unnoticed type of V2 that is underlyingly present in Old-English. In the remainder of this paper we will go into this hypothetical 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,

the three-parameter fitting process is: $f(x)=a[3] * (1 / (1 + \exp ((x-a[1])/a[2]))) * (1 / (1 + \exp ((a[1]-x)/a[2])))$, with a[1] the actuation time, a[2] the slope, a[3] the saturation level.

⁹ The actuation time and the slope parameter are given in years, since these is directly interpretable. As to the slope parameter: the smaller it is, the shorter the transition time, i.e. the steeper the change of the S-curve or the sharper the peak. The error is the standard deviation.

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).

(31)	<u>Old English "V2"</u>	<u>Strict V2</u>
a.	QP + V_{fin} + SU	QP + V_{fin} + SU
b.	XP + V_{fin} + ... + SU	XP + V_{fin} + ... + SU
c.	QP + V_{fin} + SU _{pron}	QP + V_{fin} + SU _{pron}
d.	XP + SU _{pron} + V_{fin} ← ≠ →	XP + V_{fin} + SU _{pron}

So, we focus on (31d), i.e. strict V2 without a quantificational trigger. So, we have to split the fronted XP/QP in (31cd) in the second column of 31 into those with quantification and those without. A complicating factor is that the set of what counts as quantifier changes in the course of time. In Modern English only some monotone decreasing quantifiers, such as negative elements (e.g. *little, only*) and WH-items, trigger quantificational V2. But in Older English also the discourse particle *tha* functioned as a quantificational element, and triggered strict V2. The loss of the d-set as quantifiers is presumably related to a change in discourse sensitivity, as observed by Petré, which 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 studied the occurrence of the context of (31d): to what extent does XP+V_{fin}+SU_{pron} occur? As we had to make the section by hand, we chose fronted PPs, exemplified in (32ab). The V-pron sequences are highlighted.

- (32) a. þurh mare lastunge **wrencheð hit** to wurse (cmancriw-1,II.157.2148)
 By more burden twists it to worse
- b. Ða æfter þon **gesawon we** betweoh þa wudubearwas & þa treo
 healfhundinga micle mængeo, (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 words'

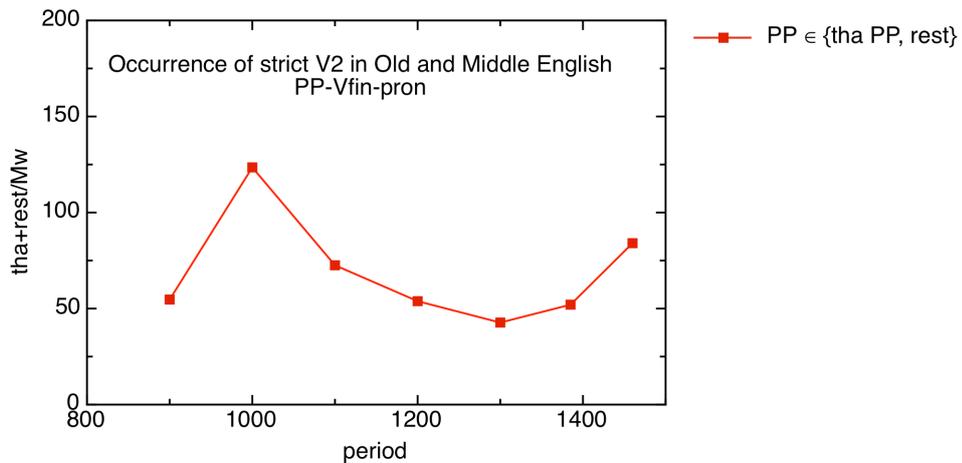
We executed this study on the parsed part of the LEON corpus. The results is given in (33), with a breakdown with its triggers, non-quantificational and quantificational.

(33)	triggers of PP-V _{fin} -S _{pron}	non quantificational				quantificational, etc					
period	<i>tha</i>	rest class	d-	total	NEG	▼	Q	2nd person	sub- junctive	<i>say</i>	Total
900±50	11	4		15	2						17
1000±50	20	8		28	3	3					34
1100±50	5	5		10	2						12
1200±50		14	4	18	15	1		25			59
1300±50		4	7	11		1	1	3			16
1385±35		21	29	50	6	1	1	3	5	5	71
1460±40	1?	34	28	62	5	3	1	5	1	2	78

We observe a dramatic change of these V2-triggers if we compare the Old-English period (first three intervals) with the Middle English period (4-7). The *tha* adjunct (to PP in the cases considered here) was replaced by constituent-internal d-words in Middle English. Moreover,

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH

various new triggers emerge, such as the presence of a 2nd person (which has quantificational status, cf. Postma 2012), but also the verb *say* (quotative inversion) and subjunctive inversion (of the type *albeit*) emerges. As to the constituent that precede the inverted inflectional verb, we are only interested in the non-quantificational PPs (topic/focus, etc) , as these are the cases that distinguishes strict V2 from Old English "V2". We therefore ignored WH, universal quantifiers, quantifiers such as *much* and *little* (Q).¹⁰ We also excluded negation, be it present on the fronted PP or on the finite verb, being cases where the NEG criterion is active. Finally, we excluded *say*, subjunctive, and 2p as a triggers of another type. In (34) we have drawn the *tha* occurrences together with the d- words, and the rest class, of all LEON-periods, relative to the number of words of the period.



(34)

We observe a 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 LEON period 1460±40:

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

¹⁰ The query is:

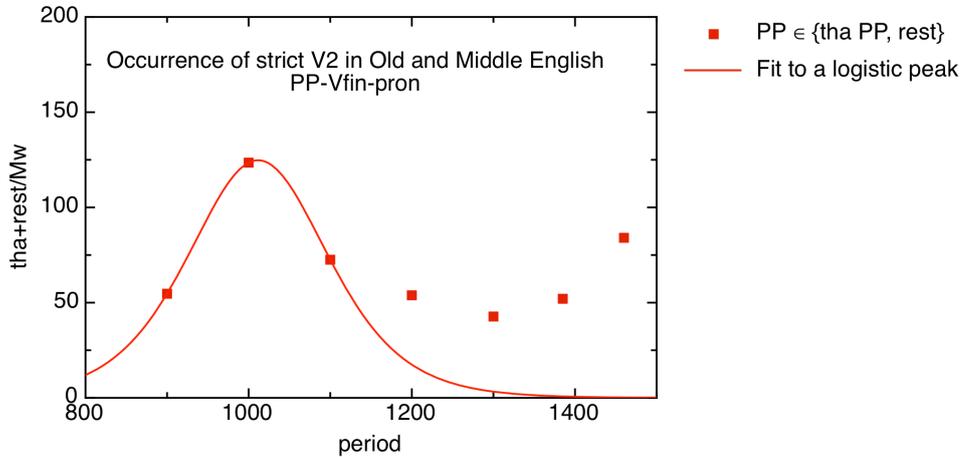
define: finite.def

print_complement: f

node: IP-MAT*

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))

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).



(36)

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. 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 uncertainties, but other sources of error have not been taken into account, such as uncertainty in dating, etc.

(37)

```
=====
Logistic peak fit of strict V2
Fitted parameters:
actuation time = 1011.6 ± 0
slope parameter = 57.4 ± 0
=====
```

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 of *weorðan* and strict V2 in the table under (38).

(38)

	Peak of strict V2	Peak of <i>weorðan</i>
Actuation time (in years)	1011 ± 0	1061 ± 15
Slope parameter (in years)	57 ± 0	54 ± 12

The curves are not identical: the actuation times of V2 and *weorðan* (1011 and 1061, respectively) differ 50 years, which make them unequal (outside the error range), while their slopes (57 and 54 years, respectively) are equal (inside the error range).

The actuation framework of Weinreich *et al.* (1968) can explain this. According to them, a grammatical change may manifest itself in different contexts at different times, i.e. with different actuation times. However, the changes share all their other properties. 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 S-curves), 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. This is worked out in Postma (2010, 2015). We conclude that the synchronic linguistic evidence of the relation between WERDEN en V2 in comparative respect gets a diachronic reflex in the history of English. We will 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 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 Normand-French, which were both V2.

There are two additional pieces of evidence that passive *weorðan* is more than a free variant of passive *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 such a meaning could possibly be stored in the auxiliary). 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, versus a traditional world and style with more traditional Old-English V2.

The second possible piece of evidence is a taken from Visser (1973:2091). Visser expresses doubts about attempts to tie 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. They are 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: <i>wæs</i>	Ms H: <i>wearð</i>
26,31	he wæs gebælded of ðæs ælmihtigen godes fultume to þam ¹¹ swyðe, þæt...	he wearð þa þurh godes ælmihtiges fultum <u>mid þam mægene</u> gestranged to þam swiðe, þæt ...

Apparently the scribe of H changes *wæs* into *wearð*. Visser, therefore, considers *wæs* and *wearð* to be "in free variation". Semantically, Visser seems to be right, 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 *wearð*, 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 ms C. 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 shifted the initial PP into the middle field and changes *wæs* into *wearð*. He thus changed the Old English V3 with a pronoun into a strict-V2

¹¹ Hecht (1900) has *þon*.

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 always feel the need or the courage to change the text to V2.¹² The scribe of ms H 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. On the grammatical connection between WERDEN and strict V2

Thus far, we have 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 on BE as a passive present tense auxiliary in simplex tenses. However, even statistics -- however convincing these may be -- remain circumstantial as long we cannot pinpoint a mechanism for this interaction. How does strict-V2 cause the need for WERDEN 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. the featural or 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 straightforward in their overt realization. So, let us proceed from the known to the unknown, i.e. from Romance (without WERDEN or V2) to Germanic (with both WERDEN and V2). Let us start with the two French sentences in (40) with auxiliary BE.

- (40) a. Les enfants **sont** tombés ergative
 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 more challenging 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

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.

between the two structures is that (41b) projects an agentive subject in the VP, while (41a) lacks such a subject. Apparently, the presence of an underlying agentive subject changes the eventive nature from perfect to present tense. How is this possible? Now, it is crucial to 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 Davidsonian 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.

- | | | | | | |
|------|----|--|-----|-----|-----------|
| (42) | a. | X _iY _j | i≠j | R≠E | perfect |
| | b. | X _i[.....Y _j] | i=j | R=E | imperfect |

If we now apply the binding theory on these eventive indexes, we predict that i≠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≠i}*, and the absence of obviation 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 & Piansesi 1997), i.e., R ↔ X and E ↔ Y in (42), we predict interactions of syntactic structure (the presence of an agentive subject) and tense composition. In other words, the Reichenbachian obviation symbol ('_' 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).

- | | | |
|------|----|----------------|
| (43) | a. | S [CP.....R] |
| | b. | [CP S R] |

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).

- | | | | | |
|------|----|--|-----|-----|
| (44) | a. | X _i[.....Y _j] | i=j | S=R |
| | b. | X _iY _j | i≠j | S≠R |

Now, according to Reichenbach, it holds for present tense 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

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

¹⁴ Giorgi & Piansesi locate the interaction between E and R in one head (their "T2") with values E=R and E≠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≠R.

sentences there is no such agentive subject. This means that BE cannot be used unless this extra opacity factor is inserted. So let us, therefore, define WERDEN as in (45).

(45) Definition

WERDEN = BE + opacity factor F (a head intervening between C and T)

$X_i \dots F \dots BE_{j=i}$

We assume that WERDEN comes about by BE that has incorporated morphosyntactically into this opacity factor, which is jointly 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 and 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.

References

- Biberauer, Theresa and Ian Roberts (2014). Cascading parameter changes: Internally-driven change in Middle and Early Modern English. In: *Grammatical Change and Linguistic Theory*. The Rosendal papers. Benjamins. 79 – 113.
- Borer, Hagit. 1989. Anaphoric AGR. In: *The Null Subject Parameter*. *Studies in Natural Language and Linguistic Theory*. Volume 15. 69-109.
- Buridant, Claude. (2000). *Grammaire nouvelle de l'ancien français*. SEDES.
- Burzio, L. (1986). *Italian Syntax - A Government-Binding Approach*. Kluwer.
- Comrie, B., 1985. *Tense*. Cambridge University Press, Cambridge.
- Einhorn, E. (1974). *Old French: A Concise Handbook*. Cambridge University Press.
- Fuss, Eric. (2003). On the historical core of V2 in Germanic. *Nordic Journal of Linguistics* 26.195-231.
- Fuss, E. & C. Trips (2002). Variation and change in Old and Middle English. On the validity of the Double Base Hypothesis. *Journal of Comparative Germanic Linguistics* 4: 171-224.
- Giorgi, Alessandra. (1997). *Tense and Aspect : From Semantics to Morphosyntax*. Oxford University Press.
- Haiman John & Paola Benincà. (1992). *The Rhaeto-Romance Languages*. Taylor & Francis.

- Hecht, Hans (1900). *Bishop Waerferth von Worcester - Uebersetzung der Dialoge Gregors den Grossen*. Leipzig : Wigand's Verlag.
- Hornstein, Norbert (1990). *As Time Goes By*. MIT Press. Cambridge (MA).
- Jensen, Frede (1990). *Old French and Comparative Gallo-Romance Syntax*. Beihefte zur Zeitschrift für Romanische Philologie. Berlin : De Gruyter.
- Kemenade, Ans. (1987). *Syntactic Case and Morphological Case in the History of English*. Foris, Dordrecht. PhD Dissertation.
- Kemenade, Ans & Marit Westergaard. (2014). Syntax and Information Structure: Verb Second variation in Middle English. In: Bettelou Los, Anneli Meurman-Solin, Maria Jose Lopez-Couso (eds). *Information Structure and Syntactic Change*. University Press. 87-118.
- Klingebiel, Josef. 1937. *Die Passivumschreibungen im Altenglischen*. Bottrop: Postberg.
- Kroch, Anthony & Ann Taylor (1997). Verb movement in Old and Middle English; dialect variation and language contact. In: Ans van Kemenade & Nigel Vincent. (eds). *Parameters of Morphosyntactic Change*. Cambridge University Press. 297-325.
- Los, Bettelou. (2009). The consequences of the loss of verb-second in English: information structure and syntax in interaction. *English Language and Linguistics* 13, 97-125.
- Moignet, Gérard. (1976) *Grammaire de l'ancien français : morphologie, syntaxe*. Éditions Klincksieck : Paris.
- Petré, Peter. (2010). *On the interaction between constructional & lexical change Copular, Passive and related Constructions in Old and Middle English*. PhD dissertation Leuven University.
- Petré, Peter. (2014). What grammar reveals about sex and death: interdisciplinary applications of corpus-based linguistics. *Lit Linguist Computing* (2014) doi: 10.1093/lit/fqu011
- Petré, Peter (2014). *Constructions and Environments - Copular, Passive, and Related Constructions in Old and Middle English*. Oxford Studies in the History of English. OUP.
- Postma, Gertjan. (1993). The syntax of the morphological defectivity of BE. *HIL Manuscripts* 1, 31-67.
- Postma, Gertjan. (2010). The impact of failed changes. In: C. Lucas, S. Watts, A. Breitbarth, & D. Willis (eds.), *Continuity and Change in Grammar*. 269-302.
- Postma, Gertjan (2013). Clause-typing by [2] – the loss of the 2nd person pronoun du 'you' in Dutch, Frisian and Limburgian dialects. In: V Camacho-Taboada (ed.), Camacho-Taboada, Victoria, Ángel L. Jiménez-Fernández, Javier Martín-González and Mariano Reyes-Tejedor (eds.), *Information Structure and Agreement*. Benjamins, Amsterdam, pp. 217-254.
- Reichenbach, H. (1947). *Elements of Symbolic Logic*. MacMillan, New York.
- Russ, Charles V.J. (2002): *Die Mundart von Bosco Gurin. Eine synchronische und diachronische Untersuchung*. Stuttgart. (= Zeitschrift für Dialektologie und Linguistik, Beiheft 120).
- SAND: Barbiers, S. et al (2006). *Dynamische Syntactische Atlas van de Nederlandse Dialecten (DynaSAND)*. Amsterdam, Meertens Instituut.
- Strang, Barbara (1970). *A History of English*. London: Methuen & Co.
- Trips, Carola (2002). *From OV to VO in Early Middle English*. Benjamins.
- Verdam, J. (1911). *Middelnederlandsch Woordenboek*. Martinus Nijhoff. The Hague.
- Visser, F.Th (1973). *A Historical Syntax of the English Language*. Vol 3. Fisher Unwin : London.
- Weinreich, Uriel, William Labov & M. I. Herzog. (1968). Empirical Foundations for a Theory of Language Change. In: W. P. Lehmann (ed.). *Directions for Historical Linguistics: A Symposium*. Austin: University of Texas Press. 95-195.

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

These files are available at the CD-ROM that accompanies Petree's 2014 book.

Corpora used

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

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

Glossar und einem Facsimile zum erstenmale. 1888. St. Benedict, Arnold Schröer, ed.

Halle: M. Niemeyer. (Electronic edition from the University of Michigan Library, url: <http://name.umdl.umich.edu/AGV8488.0001.001> [06.07.2007]).

HC: Helsinki Corpus of English Texts: Diachronic Part (ICAME, version 2). 1999. Matti Rissanen et al. Helsinki: Department of English.

The Paris psalter and the Meters of Boethius (The Anglo-Saxon poetic records, 5). 1961. George Ph. Krapp, ed. New York: Columbia University Press.

PPCME2: Penn-Helsinki Parsed Corpus of Middle English, 2nd edition. Anthony Kroch. Pennsylvania: <http://www.ling.upenn.edu/hist-corpora/> [06.07.2007].

The Middle English Genesis and Exodus (Lund Studies in English, 36). Olof Arngart, ed. 1968. Lund: Gleerup.

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 minus YPC.

(*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|colaece@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|cogenesiC@2.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|

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|colsigewZ@3.o34.psd|comargaC@3.o34.psd|comart2@3.psd|coneot@3.psd|conicodA@3.p

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH

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|

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|

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+as|w+are|w+aron|sy|sie|beo|sien|beon|w+are|w+aren|wes|beo|wesa+t|beo+t|wesan|beon|beonne

werden:

+geweor+de|gewur+da+t|iwurden|wharr+t|wur+dæ|+geworden|gewur+d+d|iwur+den|wier+d|wur+dæp|+gewordene|gewurde|i-wur+den|wior+d|wur+dæ+t|+gewur+d|gewur+de|iwur+dest|wior+da+d|wurdan|+gewur+de|gewur+de+d|i-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|geuar+d|gewurdon|iwur+ten|wior+dest|wurde|geuar+d|gewur+te|uerden|wir+d|wur+de|geuor+da|gewyr+d|uuard|woor+t|wurde+d|geuorden|gewyr+dan|ueorthæ|word|wur+de+d|geuordeno|gewyr+de|uuiurthit|wor+d|wur+dede|geuor+des|gewyr+de+d|wærd|worde|wur+deden|gewar+d|gewyr+tan|wær+d|wor+de|wurden|gewarden|i-ver+t|war|worden|wur+den|geweard|iwærd|ward|wor+den|wur+dest|gewear+d|iwær+d|war+d|wordene|wur+do+d|gewear+t|i-wær+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|war+t|worst|wurh|geweor+de|i-war+d|weard|wort|wurdenn|geweor+de+d|war+d|iwar+de|wear+d|worth|wurr+t|geweor+dest|wear+d|iwear+d|wear+t|wor+t|wurr+te|geweor+de+t|iwear+t|weor+d|wor+te|wurr+tenn|geweor+rdon|iweorden|weor+da+d|worthe|wurr+te+t+t|geweor+t|iwera+d|weor+dam|wor+te|wurstu|geweor+tan|iwerd|weor+dan|worthed|wurten|geweor+ta+t|iwer+d|weor+da+t|wor+ten|wur+t|geweor+te|i-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|iwordene|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|weorþan|worthyn|wyrðeð|gewordenan|iworþen|weorþap|wourthit|wyrden|gewordene|i-wrað|weorþe|wrht|wyrðen|gewordenre|iwræð|weorþeð|wrð|wyrdon|gewordenu|iwrð|weorþeþ|wrðe|wyrst|gewordenum|iwrt|weorþon|wrðen|wyrþ|geworðes|iwurð|werð|wrope|wyrþan|gewordne|i-wurðæn|werde|wrt|y-worþ|geworþan|i-wurðæst|wert|wrþ|y-worþe|gewurð|i-wurðæþ|werþ|wrþan|y-worthe|gewurðað|i-wurðan|werth|wrþe|y-worþe|gewurðæ|i-wurðe|werþe|wurd|y-worþen|gewurdan|i-wurðe|werthit|wurð|y-worþþe|gewurðan|i-wurdeð|wharð|wurðað|y-wourthe

GERTJAN POSTMA

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH

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)	-
11	+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)	-
14	mid swelce hr+agle he ineode, mid swelce gange he ut. (colawafint,LawAfEl:11.22)	such
15	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)	-
16	Eac buton +t+am yfele nahton hie na+ter ne +t+arinne mete ne +t+arute freond. (coorosiu,Or_2:8.52.21.1005)	neg
12	& for +dyllecum n+as he nanwuht geunrotsod, (coboeth,Bo:16.39.21.720)	neg
1	+ Da on +d+are unstilnyse onsendon hi +arendwreca to Rome mid gewritum & wependre bene: (cobede,Bede_1:9.44.11.370)	tha
2	Mid +ty heo oft & geornlice from him monode w+aron, +t+at +t+at n+anige +tinga beon meahte, +t+at hy 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)	tha
3	Mid +ty he +ta se biscop Paulinus geseah, +t+at he unea+delice meahte +da heannesse +t+as cynelican modes to ea+dmodnesse gecerran, \$+t+at he onfon wolde his ecre h+alo & +t+am geryne +t+are liff+astan 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)	tha
4	For+don mid +ty he micelre tide +after lifde & georne halig gewreotu leornade & smeade, + ta +at nyhstan 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)	tha
5	+ Da +at nehstan cw+a+d heo : Ic wat +t+at ge wena+d, +t+at ic ungewitge mode sprece. (cobede,Bede_4:10.286.15.2891)	tha
6	Mid +ty he +ta +ty d+age ond +t+are +afterfylgendan nihte betweoh +tara o+derra ofslegendra lic geliic deadum l+ag, + da +at nyhstan onfeng he gaste (cobede,Bede_4:23.326.5.3262)	tha
7	+ta he in +aghw+a+derum mynstre Hilde +t+are abbudissan geornlice his leornunge \$+atfealh & geh+alde haligra gewreota, + ta +at nyhstan wilnade he on his mode +ta fulfremedan +ting. (cobede,Bede_4:24.334.30.3363)	tha
8	Mid +dy we +da swi+de longe wi+d +d+am winde & wi+d +d+am sae holonga compadon & wunnun, + da +at nestan locadon we on b+a+cling, hw+a+der woen ware, +d+at we +anige +dinga fur+dum +d+at ealond gesecan meahton, +d+at we +ar ut of gongende w+aron. (cobede,Bede_5:1.384.23.3834)	tha
10	+ Ta betwih +das +ding w+as he gehrinen & gestonden s+amninga mid untrumnesse: (cobede,Bede_5:14.438.3.4384)	tha
13	& eft ongean +da godan & + da wellibbandan forsio he his ealdordom su+a sui+de +d+at he on allum +dingum +da +de him under+diedde sien l+ate him gelice, (cocura,CP:17.107.13.706)	tha
17	+ Ta on +d+am d+age plegedon hie of horsum, +ag+ter ge Philippus ge Alexander, +te he his dohtor him 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)	tha

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

2	& +tonne +at nehstan bi+t he sylfa on ecne wean bedrifan. (coblick,HomS_26 [BlHom_7]:95.210.1229)	-
6	nu for +tinre geleafleaste beo +tu dumb o+d +d+at min bodung gefylled sy. (cocathom1,+ACHom_I_25:379.22.4817)	-
18	Se deofol andwyrde; Swa swa he +t+at yfel of +dam menniscum gewunan underfeng. underfo he eac swa +t+at wite fram +dam upplican deman; (cocathom2,+ACHom_II_22:192.87.4260)	-

GERTJAN POSTMA

21	+After +dison feollon hi eft ealle +atforan +tam casere. swa swa God bebead. (cocathom2,+ACHom II, 31-32:248.225.5534)	-
24	Eft si+d+dan on +d+are feor+dan nihte clypede heo hire to +ta ylcan I+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 forgeaf, (coblick,HomU 19 [BIHom 8]:103.123.1327)	all
7	Eft on o+dre stowe mynega+d +d+at halige gewrit. On eallum +tinum weorcum beo+tu gemyndig +tines endenextan d+ages. (cocathom1,+ACHom I, 28:414.130.5540)	all
11	On eallum +tingum beo +tu gemyndig +tines endenextan d+ages. (cocathom1,+ACHom I, 32:454.94.6428)	all
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; (cocathom2,+ACHom II, 33:251.73.5602)	neg
23	For +dyssere twynunge nolde we hreppan his +drowunge; (cocathom2,+ACHom II, 39.2:298.15.6795)	neg
1	+ Ta +after +ton gesawon we betweoh +ta wudubearwas & +ta treo healfhundinga micle m+angeo, +da cwoman to +ton +t+at hie woldon us wundigan. (coalex,Alex:29.8.356)	tha
4	& + ta +turh his unsce+d+dian dea+de wurdon we alysed: fram +tam ecan dea+de. gif we us sylfe ne forp+ara+d. (cocathom1,+ACHom I, 14.1:296.170.2693)	tha
5	+ Ta mid +t+are bletsunge ferde he to heofenum him onlocigendum: (cocathom1,+ACHom I, 21:345.17.4113)	tha
8	+ Da +at sumon cyrre tengde he to fyrde ongean perscissum leodscipe. (cocathom1,+ACHom I, 30:436.206.6007)	tha
9	+ Da ymbe tyn geara fyrst wear+d he ascofen of his cynesetle. for +tan +de+t+at iudeisce folc wrehton his modignysse to +tam casere. & he +ta hine on wr+acsi+de asende. (cocathom1,+ACHom I, 32:452.43.6385)	tha
10	+ Da +after sumum fyrste wurdon hi ungesome. Philippus & Arethe(cocathom1,+ACHom I, 32:452.50.6390)	tha
12	+ Da mid +tyssere bene beseah heo to +t+are stowe +t+ar heo +t+at cild +ar forlet: (cocathom1,+ACHom I, 37:501.137.7409)	tha
13	+ Ta on +dam Easterd+age eodon hi swa hi gewunode w+aron to +t+are cyrcan. (cocathom2,+ACHom II, 2:15.131.363)	tha
15	+ da for unwedre gecyrde he to sumes hyrdes cytan. +te stod weste on +dam westene +de he oferferde. (cocathom2,+ACHom II, 10:82.51.1646)	tha
16	+ Ta betwux heora spr+ace begann heo to halsigenne +done halgan wer. +t+at he sceolde hire secgan hu lange hire bro+dor Ecgfridus moste his rices brucan; (cocathom2,+ACHom II, 10:87.215.1769)	tha
17	ac +da +da hi anr+adlice on +d+are bene +turhwunodon. + ta +at nextan geti+dode he him. (cocathom2,+ACHom II, 11:94.64.1915)	tha
19	+ Ta +after lytilum 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. (cocathom2,+ACHom II, 23:203.117.4497)	tha
25	+ Da betweonan +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 d+ag. (codocu3,Ch 1458 [Rob 41]:11.26)	tha
29	+ Ta on niht bescear heo hire feax swa was (comart1,Mart 1 [Herzfeld-Kotzor]:De25,C.9.41)	tha
30	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 he sceolde +t+as on mergen leoran on +da ecean reste. (comart3,Mart 5 [Kotzor]:Ap25,B.21.625)	tha
32	+ Ta +after +tam ahengon hie hine on +tam clife +te hie heton Golgo+d+da, & twegen scea+dan him on +ta twa healfa (coverhom,HomS 24 [ScraggVerc 1]:203.213)	tha
34	+ Ta +after +tam eode he to +dam his discipulum, +t+ar hi ealle w+aron, (coverhomE,HomS 24.1 [Scragg]:76.43)	tha

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH

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)	-
11	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+teht, +t+at ge magon eow sylfe alysan of eowre feonda gewealde, +ta eow wylla+d myd eallon forspyllan and eowre ryce towurpan. (covinsal,VSa1_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 +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 +tearfian, +te man sceal for Cristes lufon neade fedan. (cochdrul,ChrodR_1:4.11.138)	neg
8	& cw+a+d: for nanum o+trum +tinge n+as ic geteohhod in +tas witelican stowe, buton for+ton +te ic \$gefealh & gewunode in Laurenties worde & w+as wi+d Simmache. (cogregdC,GDPref and 4 [C]:42.330.6.4975)	neg
5	+ Ta +at nexstan funde he , hw+ar se +teof gewunode, +t+at he ofer +tone geard steah, (cogregdC,GD_1 [C]:3.23.35.240)	tha
6	& + ta eac on +da ylcan tid w+as ic sylfa +tider ons+anded to +tam ealdormen for +tearfe & for spr+ace +tyssere cyrcan. (cogregdC,GDPref and 3 [C]:32.241.3.3390)	tha
7	& + ta +turh +t+at ong+aton hi openlice, +t+at +ta sawle +ta englas underfengon, & hi +ta gel+addon mid lofsangum to heofonum. (cogregdC,GDPref and 4 [C]:15.282.21.4163)	tha
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 edon 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

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 +geueneesse. (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 + gerndesst tu +tatt icc +Tiss werre +te sholde wirrkenn; (CMORM,DED.L23.7)	-
27	& o +tatt allterr haffdenn +te+g+g Glowennde gledess +garrkedd. (CMORM,I,34.381)	-
38	+Turh 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 Laferred 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+gherlike ledesst te & daffelike & fa+g+gre, & ummbe+tennesst a+g+g occ a+g+g Hu +tu mihht Drihtin cwemenn, & lufenn himm & dredenn himm & hise la+ghess	2

GERTJAN POSTMA

	haldenn, Wi+t+t ox 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)	
30	& +giff +tu firr+trestt 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, & murrnesst i +tin heorrt, +Tatt tu swa lanng 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 turttle lakesst tu +tin Godd Gastlike i +tine +t+awess, Swa +tatt it ma+g+g wel hellpenn +te To winnenn Godess are. (CMORM,I,42.432)	2
32	& +giff +tu cwennkesst i +te sellf All +twerrt ut modi+gnesse, & l+aresst o+tre all swa to don +Turrh 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)	2
33	& forr+ti wass +gho till Jos+ap Wi+t+t Godess la+ghe weddedd, +Tatt +gho ne w+are shamedd her, Ne shennd off unnc+l+annesse. (CMORM,I,67.606)	2
34	& forr+ti wass +gho wurr+t full wel Utnumennli+g to wurr+tenn +Turrh Drihhtin blettcedd, & to ben Allw+aldennd Godess moderr. (CMORM,I,77.688)	2
35	& t+ar+turrh, & +turrh all +tatt god +Tatt wass inn hire fundenn, Inn hire lif +tatt all +twerrt ut Wass Drihhtin lef & dere, +T+ar+turrh wass +gho wel wurr+t to ben Swa wurr+tedd her onn er+te, +Tatt Godess Sune sholde mann Inn hire wambe wurr+tenn, Off hire fl+ash, off hire blod, Off hire streness kinde. (CMORM,I,80.704)	2
36	+T+arfore se+g+gde +gho +tiss word Till Gabri+al hehengell, (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, & 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)	2
12	ach +toa hit flech from him. +toa wi+d al his streng+de wende he +ter efter. (CMANCRIW-2,II.275.484)	all
25	& t+arfore hafe icc turnned itt Inntill Ennglisshe sp+ache, Forr +tatt I wolde bli+тели+g +Tatt all Ennglisshe lede Wi+t+t +are sholde listenn itt, Wi+t+t herrte sholde itt trowwenn, Wi+t+t tunge sholde spellenn itt, Wi+t+t dede sholde itt foll+ghenn, To winnenn unnderr Crisstenndom Att Godd so+t sawle berrhless. (CMORM,DED.L113.33)	d
26	& t+arfore hafe icc turnned itt Inntill Ennglisshe sp+ache, Forr +tatt I wolde bli+тели+g +Tatt all Ennglisshe lede Wi+t+t +are sholde listenn itt, Wi+t+t herrte sholde itt trowwenn, Wi+t+t tunge sholde spellenn itt, Wi+t+t dede sholde itt foll+ghenn, To winnenn unnderr Crisstenndom Att Crist so+t sawle berrhless. (CMORM,DED.L285.57)	d
42	& +turrh +tatt Godd wass wurr+tenn mann Forr ure miccle nede, +Turrh +tatt wass he , +tatt witt tu wel, All wi+t+t hiss lefe wille Ni+t+t+tredd & wannsedd wunnderrli+g, & la+ghedd inn himm sellfenn, (CMORM,I,128.1096)	d
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 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)	d
1	Ach na mare +ten aschep ase sei+d hali writ quic ne que+d he neauer anword. (CMANCRIW-1,II.99.1188)	neg
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 (CMANCRIW-1,II.171.2384)	neg
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 heued. (CMANCRIW-1,II.190.2701)	neg
11	hwil eauer iraeles folcwes inegypte under pharaones hond. neledde he \$neauer ferd +tron. (CMANCRIW-2,II.275.483)	neg
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. (CMANCRIW-2,II.296.848)	neg
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

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH

21	+Det is to seggane. Gif +ta hefdmen of +tissere worlde hefden icnawen crist; nefden heo nefre ifestned hine on rode for ure hele. (CMLAMBX1,123.1204)	neg
51	\$Ne \$off nan +ting narrt tu +ta forrdredd Butt off +tatt an +ting ane, Off +tatt tu shule wra+t+tenn himm O sume kinne wise. (CMORM,I,277.2266)	neg
58	+Giet, +teih +dis mann swa do, nis he nauht innocens, bute +gif he biete +dat he harrer hafde tobroken. (CMVICES1,133.1653)	neg
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 hemm Amang Goddspelless wordess. (CMORM,DED.L53.15)	thi
28	& forr+ti tacne+t+t itt full wel Galnessess hate stinnchess. (CMORM,I,39.418)	thi
41	& forr +tatt he wass wurr+tenn mann To +gifenn menn onn eor+te Hiss a+ghenn hall+ghe fl+ash & 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)	thi
43	& forr+ti wass itt upponn himm +Turrh Drihhtin firrst bigunnenn, Forr +tatt itt sholde ben onn himm Till himm full witerr takenn, +Tatt he wass Drihhtin swi+te lef +Turrh throw+tess rihhtwisnesse. (CMORM,I,138.1155)	thi
44	& forr+ti sindenn +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 off twe+g+genn hundredd. (CMORM,I,177.1459)	thi
47	& forr+ti wass he full wel +turrh Amminadab bitacnedd, +Tatt tacne+t+t uss +tatt mann +tatt do+t God werre wi+t+t innwardd herrte, Wi+t+t all hiss mahht, wi+t+t mikell lusst, Wi+t+t all hiss fulle wille. (CMORM,I,206.1681)	thi
48	& forr+ti comenn +te+g+g himm firrst To sekenn i +tatt ende, Forr +tatt te+g+g haffdenn herrd tatt he +T+ar sholde borenn wurr+tenn; (CMORM,I,238.1960)	thi
49	& forr+ti cume we nu for+t To lakenn himm wi+t+t maddmess, & forr to lefenn upponn himm & bu+ghenn himm o cnewwess. (CMORM,I,247.2012)	thi
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 sholde mu+ghenn himm O nane wise attwindenn. (CMORM,I,278.2271)	thi
53	& forr +tatt he trowwede wel, Swa summ himm self itt se+g+gde, +Tatt Crist wass cumenn all +turrh 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 folc +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+awwess & i dedess, & m+ale+t+t wi+t+t +te Laferrd Crist & herrcne+t+t whatt he m+ale+t+t, +Turrh +tatt te+g+g lefenn rihht o Crist & herrcnenn Cristess lare. (CMORM,II,235.2471)	thi
54	& forr+ti +tatt tiss Nicodem, +Tatt we nu m+alenn ummbe, Himm haffde takenn mikell gom Off 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 Cristenndom & off +te rihhte l+afe. (CMORM,II,238.2487)	thi
55	& forr+ti +tatt te Laferrd sahh +Tatt he wass fus to lernenn, Forr+ti wass he rihht r+adi+g till To wissenn himm & l+arenn, (CMORM,II,238.2488)	thi
56	& forr+ti toc he sone anan To sh+awenn himm whatt wise Fl+ashlike mann ma+g+g wurr+tenn gast +Turrh Hali+g Gastess bisne, (CMORM,II,247.2517)	thi

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 +turch 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)	-

GERTJAN POSTMA

1	And huo +tet nim+t wel yeme ine alle +tise guodes of kende +tet ich hadde ssortliche y-tald: by hit 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)	all
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 ontrewē. (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. (CMAYENBI,116.2236)	d
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. (CMAYENBI,258.2409)	Q
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
14	For-+ti was ich dresced to +ti comaundement, (CMEARLPS,153.6787)	thi

Period 6 - 0 tha, 6 neg, 1 all, 29 -d , 3 2pers, 21 rest.

7	til a god haue we tan. (CMBENRUL,6.160)	-
18	Na-for-+ti, for +te febilnes of +ta +tat may noht for-bere, hauis he for-lokid til ilkain a mesur of wyne of +te day, Ou+tir suilke als tabbesse may furde; (CMBENRUL,28.948)	-
19	When sho hauis musterd hir firmite, yef +te cumandement of +tabbes haldis for+ge, witte sho wele +tat it es hir prowē 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 greuously also, (CMCTPARS,317.C2.1259)	-
43	And for god sei+t in +te Ewangelie: "Al +tat +ge preyen in 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, filium 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)	-/ subj
44	bi-foren an Oxe and an Asse was She leid in a Cracche. (CMEDVERN,254.623)	-
49	And on the scherethorsday make +tei here therf bred in tokene of the mawndee (CMMANDEV,12.236)	-
53	and of +to .ij. welles hath it the name (CMMANDEV,69.1720)	-
66	And so by +tis bodily werke of mercy of Crist been we tawte to wiche men we schulde do syche almys. (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)	-

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH

65	Si+t God almi+gty, al witty and al goodly, kan not worche but +gif he worche by mercy, be we +tanne merciful for goodnesse of God. (CMWYCSE,237.244)	- subj
70	For, as +tow trowedust by my grace, be hit doon vnto +te. ' (CMWYCSE,366.2505)	- subj
62	and seide, If ony man thirstith, come he to me, (CMNTEST,7,20J.666)	-, 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)	-, subj
64	and he seide, "If eny man seekith not the Lord God of Israel, di+ge he, fro the leeste til to the meeste, fro 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, wel ny alle atones bigonne they to rise for to breken his tale, and beden hym ful ofte his wordes for to abregge. (CMCTMELI,219.C2.91)	all
1	Than for as mochel as a filosofre saith, "he wrappith him in his frend, that condescendith to the rightfule praier 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 certain nombre of conclusions aperteynyng to the same instrument. (CMASTRO,662.C1.7)	d
2	And in this wise had I the experience for evermo in which manere I shulde knowe the tyde of the day and eke myn ascendent. (CMASTRO,670.C2.237)	d
22	& +terfore haue we gode trust in God; (CMBRUT3,86.2607)	d
26	and therfore han they rather conseilled yow to youre talent than to youre profit. (CMCTMELI,225.C2.333)	d
28	And therfore seye I that it is good as now that ye suffre and be pacient. (CMCTMELI,231.C1.536)	d
30	And therfore han they lorn al hire hope, for sevene causes. (CMCTPARS,293.C1.213)	d
31	And therfore thanne, for as muche as the resoun of man ne wol nat be subget ne obeisant to God, that is 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)	d
32	And forther over, for as muchel thanne as the caytyf body of man is rebel bothe to resoun and to sensualitee, therfore is it worthy the deeth. (CMCTPARS,294.C2.269)	d
33	and after that was he bounde, that cam for to unbynden us of synne and peyne. (CMCTPARS,295.C1.281)	d
35	And therfore be we alle born sones of wratthe and of dampnacioun perdurable, if it nere baptesme that we receyven, which bynymeth us the culpe. (CMCTPARS,297.C1.376)	d
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
40	for therby wynneth he the mooste partie of this world. (CMCTPARS,318.C1.1268)	d
41	ffor +tou art feir, +terfore are +tei feir; (CMEDVERN,245.225)	d
42	ffor +tou art good, +terfore are +tei goode. (CMEDVERN,245.226)	d
46	& fro thennes is she meridional assending til she come agayn at capud </slash> (CMEQUATO,42.299)	d
47	& +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 of palme. (CMMANDEV,7.107)	d
50	And fro +tens was he translated into paradys of delytes, as +tei seyn. (CMMANDEV,44.1094)	d
51	And fro +tens was sche born of the Apostles vnto the vale of Iosaphath. (CMMANDEV,60.1483)	d
52	& fro +tat tyme was sche a worthi womman (CMMANDEV,65.1635)	d
55	& +terfore allegge +tei so the letre (CMMANDEV,79.2009)	d
57	& +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 is the most noble creature in erthe & also for he hath lordschipe abouen all bestes; (CMMANDEV,110.2688)	d
60	+terfore make +tei the halfondel of ydole of a man vpwardes & the to+ter half of an ox downwardes. (CMMANDEV,110.2689)	d
61	And +terfore hath it befallen many tymes of o +ting +tat I haue herd cownted whan I was +gong, how a worthi man departed somtyme from oure contrees for to go serche the world, (CMMANDEV,122.2971)	d

GERTJAN POSTMA

67	and +terfore holde we couenaunt to God (CMWYCSE,278.942)	d
74	And in +tis ben we tawte to suffre meekely owre owne wrong, (CMWYCSE,400.3140)	d
76	And +terfore caste we away +te werkis of derknesses, (CMWYCSE,477.3625)	d
54	And fro +tat welle bare he water oftentye to his moder (CMMANDEV,75.1901)	d?
58	And +tus for here synnes han +tei lost all this lond +tat wee holden. (CMMANDEV,89.2230)	d?
4	In o+tir stede sais he: "In god sal man be glad and loue him in dede." (CMBENRUL,3.61)	man
3	Als sain paul sais: "Lauerd, of me haue I noht, bot +tu sende it me." (CMBENRUL,3.60)	neg
5	Als ure lauerd sais: "Of +te sinfull will I noht +te dede, bot +tat tay turne and liue." (CMBENRUL,3.71)	neg
13	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. (CMEDVERN,261.917)	neg
56	& for non o+ter +ting is it not good. (CMMANDEV,83.2102)	neg
69	but of his owne wor+tinesse affyede he not +tus, (CMWYCSE,364.2453)	neg
10	And in odyr stede sais he : "Voluntas habet &c. - (CMBENRUL,12.429)	say
12	And in odir stede sais he: "Confitemini &c. - (CMBENRUL,13.470)	say
14	Of +tes times sais he : "seuin sy+te opo day saie I louing to +te." (CMBENRUL,18.610)	say
16	And in o+tir stede sais he: "Psallite - (CMBENRUL,19.653)	say
17	And in o+tir stede sais he: "Infidelis &c. (CMBENRUL,23.778)	say
20	but thanne at erste ben thei verraye good, whan thei ben gadred togidre \$als into o forme and into oon werkynge, so that thilke thing that is suffisaunce, thilke same be power, and reverence, and noblesse, and myrthe; (CMBOETH,434.C2.248)	tha
6	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)	-
5	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)	-
7	But of homely kyn was he born, (CMCAPCHR,50.546)	-
10	In +tis tyme lyued he +tat is clepid Albinus, of Englisch nacioun, which 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)	-
14	Of +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)	-
16	and at Westminster was he crowned in Cristmesse of Aldred, bischop of +Gork. (CMCAPCHR,102.2158)	-
19	In +tat +gere mad he chaunge of his coyne, (CMCAPCHR,128.2962)	-

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH

20	but at +te last was he broute to +te castel of Berkley, (CMCAPCHR,154.3615)	-
21	and to +tese lordes gaue he mech of +te liflod of +te duke of Gloucetir, erl of Warwik, and erl of Arundel. (CMCAPCHR,209.3751)	-
24	and 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)	-
27	Off +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)	-
28	And 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)	-
29	Bot 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, (CMEDTHOR,33.436)	-
31	For of oure selfe hafe we noghte Hym for to +gelde; (CMEDTHOR,34.449)	-
36	In clowtis was He wonden, (CMEDTHOR,42.607)	-
37	and als a chylde was He bunden; (CMEDTHOR,42.608)	-
39	By resonn, commes He till +te knawyng of man one +tis manere: - (CMEDTHOR,46.703)	-
41	In +tis manere lufe +tou na thyng 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 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)	-
43	And on a tyme was he taken bi pirates in the see. & solde to Denyse y=e= grete tyraunt <slash> (CMFITZJA,B3R.144)	-
47	Hereto ere we byddyn of god and drawen and consayled and lered inwardly be the haly gaste & outwarde by haly kyrke by the same grace. (CMJULNOR,62.318)	-
57	Sche thowt in hir mende, "A, Lord, for +ti lofe cam I hedyr, (CMKEMPE,229.3751)	-
59	for in an evyll tyme com they . (CMMALORY,38.1234)	-
62	For for that cause com I hydri.' (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	atte laste cam he in lyknes of an heremyte <slash> (CMREYNAR,11.162)	-
78	With mouthe es it tane in vayne, with all athes brekyng, of new prechyng	-

GERTJAN POSTMA

	+tat es vanyte and vndevocyone; prayere, when we honour God with oure lypmys, and oure hertys erre ferre fra Hym. (CMROLLTR,11.301)	
80	and if he will, of his fre 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)	2
51	& al thorw my grace hast +tu skapyd. (CMKEMPE,51.1162)	2
55	& for +ti synne hast +tu ful lityl contricyon. (CMKEMPE,127.2946)	2
56	but in myn goodnes & in thy sorwys +tat +tu hast suffryd +terin hast +tu gret cawse to joyn, (CMKEMPE,131.3062)	2
65	In a shamefull oure were thou borne,' seyde sir Launcelot. (CMMALORY,208.3457)	2
23	before all +tese red he his resignacion (CMCAPCHR,214.3821)	all
8	and to euery region preferred he a decun, to write treuly +te lyf of holy martires. (CMCAPCHR,56.744)	all
77	bot in al his myght purge he +te vilete of syn in hym and in other. (CMROLLEP,117.944)	all
13	+terfor wanted he +te benediccion imperial. (CMCAPCHR,90.1774)	d
2	in this stondist thou, dere sustir, (CMAELR4,16.467)	d
3	afir +tat xl +gere was he kyng, first vii +gere in Hebron upon +te tribe of Juda, afir xxxiii in Jerusalem upon al Israel. (CMCAPCHR,32.14)	d
9	and +terfor was he smet with a leuene and +tundir, but not ded. (CMCAPCHR,59.809)	d
17	+terfor had he neuyr prosperite' afir +tat. (CMCAPCHR,105.2259)	d
26	be +tis vndirstund we +te knytes of Seynt Ion which begunne first at Ierusalem, (CMCAPSER,147.49)	d
32	And for-thi +tat we may noghte euer-mare do +tat perfityly whyls we ere in +tis caytifede worlde, +tare-fore pray we +tus, (CMEDTHOR,38.543)	d
33	and for-thi +tat we may noghte do +ti will whills we lyffe in +tis body, if +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)	d
34	And for-+ti +tat a lytill vs helpes to hafe forgyfnes of syn, if we may noghte kepe vs fra syn, +tare-fore pray we +tus, Et ne nos inducas in temptacionem, (CMEDTHOR,39.556)	d
35	and +tare-fore hafe I twynned the thaym by +te Seuen houres of +te daye +tat +tou saise in +te kyrke, Swa +tat nan heure passe the, +tat +tou ne sall be swetely occupyed in +ti herte. (CMEDTHOR,42.600)	d
40	And for-+ti +tat of +te fyrste persone comes +te to+ter, and oowte of thaym bathe comes +te thyrde, For-thi calles he +te firste persone Godd +te Fadire, +te to+ter Godd +te Sonne, +te thirde Godd +te Haly Gaste.	d

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH

	(CMEDTHOR,48.740)	
46	and in this was I lered that ilke saule contemplatyfe to whilke es gyffen to luke and seke god schalle se hire and passe vnto god by contemplacion. (CMJULNOR,59.255)	d
48	+Terfor wend sche +tat God had forsake hir. (CMKEMPE,15.296)	d
49	And +terfore wend sche +tat he had forsakyn hir (CMKEMPE,16.323)	d
50	"+Terfor is it no synne to +te, dowtyr, (CMKEMPE,48.1090)	d
52	& +terfor sufferyd sche mych despyte & mech reprefe. (CMKEMPE,68.1553)	d
53	& +terof cowde sche good skylle (CMKEMPE,86.1957)	d
54	& +Terof had +tei gret wondyr. (CMKEMPE,110.2547)	d
58	& +terfor was sche oftyn-tymys blamyd. (CMKEMPE,233.3848)	d
60	therefore com I affter you.' (CMMALORY,51.1690)	d
67	But, for +tys fest make+te mynde of +tes kyngys offryng, +terfor pursew we +te forme of holy chyrche, (CMMIRK,48.1364)	d
68	But for God rewardyth a good endyng, and not +te begynnyng, +terfor lese we not our mede, (CMMIRK,68.1848)	d
69	+Ten wyth +tat sayde he : 'For I wot well I am vnworthy to haue mercy; wherfor +tou wolt +geue me non mercy.' (CMMIRK,92.2469)	d
70	And +terfor pray we to Saynt George +tat he wyll be our helpe at oure nede, and saue +tys reem to +te worschyp of God and his modyr Mary and all +te company of Heuen. (CMMIRK,135.3594)	d
72	therfore haue I the lenger taryed a lytyl <slash> (CMREYNAR,13.250)	d
74	therfore ete I gladly lyght mete. (CMREYNAR,56.477)	d
81	And +ter-fore drede +tou leste he do commaunde to bynde +te honde and fote and putt +te in-to +te innere derkenesse. (CMROYAL,16.103)	d
82	and +terfore seye we, 'faire fadre, lede not vs in-to temptacioun.' (CMVICES4,116.352)	d
44	For neyther by theyr prudence ne yet theyr sapyence. ladde they or themself. or theyr folowers to the ryghte & perfyte ende naturall. or supernaturall (CMFITZJA,B3V.158)	neg
61	and at no tyme was he ovircom but yf hit were by treson other inchauntement. (CMMALORY,180.2409)	neg
63	'Whether that I lyve other dye,' seyde sir Launcelot, 'with no wordys grete gete ye hit agayne. (CMMALORY,203.3291)	neg
64	and anone an holer man in his lyff was he never. (CMMALORY,204.3331)	neg
75	of +tat maner of syngyng speke I noght, (CMROLLEP,106.709)	neg
76	bot +tarfore lufes he hym noght, (CMROLLEP,110.813)	neg

GERTJAN POSTMA

79	and for-thi be +tou noghte in dowte ne in were when +tou prayes or thynkes one Godd, or ells duse any owtwarde dedis to thyne euencristyn, whe+ter +tou desyres Hym or noghte, (CMROLLTR,37.777)	neg
73	wyth moche payne cam I of his clawes <slash> (CMREYNAR,52.307)	Q
22	To hem seid he +tat he wold resigne his regaly, and all +tat longe +terto, saue +te carectis of his soule, so +tat his lif schuld be graunted him, and sufficient liflod to him and viii persones. (CMCAPCHR,213.3810)	say
38	And to +te discyple saide He, 'Manne, lo +tare thy Modire!' (CMEDTHOR,44.647)	say
1	Natheles, though chastite be a yifte of God and may not be gote ne had with-out him, be we yit neuere so vertuous, whan we han it we shulden kepe it as vertuously as we konne with affliccyon of oure flesshe, or by othir vertuouse menes. (CMAELR4,11.294)	subj
45	Thenne of this lhu~s our sauour Cryste purpoos I to talke wyth his mercy (CMFITZJA,B6V.217)	tha?

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

THE DECLINE OF PASSIVE *WEORDAN* IN ENGLISH