# STRICT AND LOOSE RHYMES IN TRADITIONAL CORNISH VERSE 

Dr Ken George<br>Cornish Language Board


#### Abstract

Hard rhymes in the traditional Cornish texts may be divided into strict and loose rhymes. If the poets strove to choose strict rhymes, and used loose ones only when unable to find a strict rhyme, then there would be significantly fewer loose rhymes in their works than if they indifferently mixed strict and loose rhymes. Analysis shows that this is the case, except for $C W$. The result is used to show that before CW, the reflexes of Old Cornish $/-s /$ and $/-d /$ had not fallen together.


## 1) INTRODUCTION

In 1978 I composed a poem in Cornish, in the Unified spelling then in common use, in which I rhymed man 'nothing' with tan 'fire'. My teacher, Wella Brown, criticized this as a poor rhyme, because, as he reminded me, man is pronounced ['mann] and tan is pronounced ['ta:n]. One result of this was that in due course I devised a better orthography, Kernewek Kemmyn (KK), in which the two words are spelled mann and tan respectively. In my own defence, however, I pointed out that in Bewnans Meryasek line 3712, tan is rhymed with sa ban (sa' bann) 'arise' (see George 2007). Is this exceptional? How common are rhymes of this kind in the texts?

### 1.1 Definitions

A hard rhyme is a rhyme between two stressed final syllables in an utterance. In the example above, mann and tan are both stressed monosyllables placed finally in a line of verse, so the rhyme between them is a hard rhyme. It is not a perfect rhyme, however, because the two words have different pronunciations: it is a loose rhyme. A rhyme between sa'bann and mann would also be a hard rhyme, but because they have the same final sound sequence ['ann],. it would constitute a strict rhyme.

In contrast, a soft rhyme is a rhyme between a stressed final syllable and an unstressed final syllable, e.g. tan and byghan 'small'. Both hard rhymes and soft thymes are very common in traditional Cornish verse. Much of that verse is based on orthographic principles, although underlain by phonetics. The definition of rhyme was a wide one: two words were allowed to rhyme if their final syllables were spelled the same way. All words whose final syllables have the same spelling form a rhyming ensemble (Dunbar and George 1997: 94). Typically a rhyming ensemble includes both hard and soft rhymes, and the hard rhymes comprise both strict and loose varieties. The symbol $\mathscr{R}$ is used to denote a rhyming ensemble; e.g. $\mathscr{R}$ an stands for the ensemble containing all rhyming words ending in -an in the textual spelling.

It needs to be pointed out that this paper is concerned only with rhymes between single final syllables. There are also examples of double and even triple rhymes in the traditional Cornish corpus, especially in Bewnans Ke.

### 1.2 The rhyming ensemble $\mathscr{R} a m$

Before studying the ensemble $\mathscr{R}$ an in more detail, we consider a simpler case, that of $\mathscr{R a m}$, in order to illustrate the methodology.

### 1.2.1 $\quad$ Ram in Passio Christi

Consider all the rhymes in Passio Christi which end in <-am>. The rhyming pairs are listed in Table 1:

| Table 1 |  | Ensemble Ram in Passio Christi |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| First rhyming word |  |  |  |  | Second rhyming word |  |  |  |  |
| Line no.. | Textual spelling | English meaning | Kernewek Kemmyn | Sound | Textual spelling | English meaning | Kernewek Kemmyn | Sound | Type |
| 1125 | drok lam | accident | droglamm | ['amm] | cam | rogue | kamm | ['amm] | strict |
| 1197 | cam | step | kamm | ['amm] | bram | fart | bramm | ['amm] | strict |
| 1461 | bram | fart | bramm | ['amm] | lam | leap | lamm | ['amm] | strict |
| 2247 | drok lam | accident | droglamm | ['amm] | cam | wrong | kamm | ['amm] | strict |
| 2734 | whym <br> wham | slapdash | hwymmhwamm | ['amm] | cam | rogue | kamm | ['amm] | strict |
| 2737 | blam | blame | blam | ['a:m] | scham | shame | sham | ['a:m] | strict |
| 2779 | bram | fart | bramm | ['amm] | vamm | mother | mamm | ['amm] | strict |
|  |  |  |  |  | drok lam | accident | droglamm | ['amm] | strict |
|  |  |  |  |  | cam | rogue | kamm | ['amm] | strict |
| 2780 | vamm | mother | mamm | ['amm] | drok lam | accident | droglamm | ['amm] | strict |
|  |  |  |  |  | cam | rogue | kamm | ['amm] | strict |
| 2782 | drok lam | accident | droglamm | ['amm] | cam | rogue | kamm | ['amm] | strict |
| 2913 | drok lam | accident | droglamm | ['amm] | cam | rogue | kamm | ['amm] | strict |
| 2928 | vamm | mother | mamm | ['amm] | nam | spot | namm | ['amm] | strict |
| 3034 | cam | wrong | kamm | ['amm] | adam | Adam | Adam | [am] | soft |
| 3075 | drok lam | accident | droglamm | ['amm] | bram | fart | bramm | ['amm] | strict |

Note the following in Table 1:

- In order to save space, the rhyming pairs are listed in only one direction, but in the tables below, they are counted in both directions.
- Kernewek Kemmyn (George 2020) is used as a standard orthography, distinguished by the use of bold italic.
- Words which are mutated in the text are given in the Kernewek Kemmyn columns without mutation.

Nearly all of the rhymes in Table 1 are strict rhymes between monosyllables with ['amm]. Although droglamm is now written as one word, in the texts it appeared as two words (drok lam), implying that lam was stressed ${ }^{1}$. The phrase whym wham has [-'am] in English, but it is supposed that English [-'am] was identified with Cornish [-'amm] by Cornish speakers.

The other rhymes are cam-adam, which being soft is beyond the scope of this paper, and blam $\equiv$ scham, a strict rhyme in [-'a:m]. Because Proto-Brythonic /-am/ had become /-av/, all rhymes in [-'a:m] are of loan-words from English. There are no loose rhymes in Table 1.

[^0]
### 1.2.2 $\mathscr{R a m}$ in all of the texts

Table 2 gives the numbers of rhyming pairs with various characteristics. The pairs are counted in both directions, e.g. the rhyming pair bram $\equiv l a m$ counts as 2.

| Table 2 | Numbers of hard rhyming pairs in ensemble $\mathscr{R}$ am |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Text $^{2} \rightarrow$ | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| Rhyme | Sounds | KK |  |  |  |  |  |  |  |  |  |
| strict | ['amm] $\equiv$ ['amm] | $-a m m \equiv-a m m$ | 0 | 28 | 0 | 16 | 38 | 24 | 10 | 0 | 116 |
| strict | ['a:m] $\equiv$ ['a:m] | - $-\mathrm{am} \equiv$ - $\boldsymbol{a m}$ | 0 | 2 | 2 | 0 | 10 | 10 | 6 | 0 | 30 |
| loose | ['amm] - ['a:m] | -amm - -am | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 |

Of the total of 158 rhymes, $146(92 \%)$ are strict. Rhymes in ['a:m] and rhymes in ['a:m] were kept strictly apart. If the monks of Glasney College had rules for the versification of Cornish, then "do not rhyme ['a:m] and ['amm]" appears to have been one. The exception is CW, whose unusual form of stanzas suggests that it was composed after the demise of Glasney; this idea is supported by the loose rhymes in Table 2.

### 1.3 The rhyming ensemble $\mathscr{R}$ an

$\mathscr{R} a m$ (Table 2) is far more clear-cut than other rhyming ensembles. We return to $\mathscr{R} a n$ and carry out a similar analysis:

| Table 3 | Numbers of hard rhyming pairs in ensemble $\mathscr{R}$ an |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Sounds | Kernewek Kemmyn | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | ['ann] $\equiv$ ['ann] | $-a n n \equiv-a n n$ | 10 | 4 | 12 | 10 | 20 | 10 | 2 | 0 | 68 |
| strict | ['a:n] $\equiv$ ['a:n] | $-a n \equiv-a n$ | 0 | 4 | 0 | 4 | 4 | 2 | 2 | 2 | 18 |
| loose | ['ann] - ['a:n] | -ann--an | 0 | 2 | 0 | 16 | 4 | 0 | 4 | 0 | 26 |

As with $\mathscr{R a m}$, the strict rhymes with the geminate consonant are the commonest, but here there are significantly more loose rhymes. In OM, there are more loose rhymes than strict ones. There are also more loose rhymes than strict rhymes with [-'a:n]. Were the poets favouring the strict rhymes, as with $\mathscr{R a m}$, or were they treating the available rhyming words with [-'a:n] and [-'ann] as one large mixed pool from which to select rhymes? In order to answer this question, we take the latter assumption, and see how many loose rhymes might result.

This is similar to the well-known problem of choosing two balls from a bag containing $N_{I}$ red balls and $N_{2}$ green balls, with replacement.

The chance of choosing a red ball is $N_{1} /\left(N_{1}+N_{2}\right)$, and
the chance of choosing a green ball is $N_{2} /\left(N_{1}+N_{2}\right)$.
The chance of choosing a red ball and then a green ball is the product of these two probabilities, viz. $\left(N_{1} \times N_{2}\right) /\left(N_{1}+N_{2}\right)^{2}$.
Likewise the chance of choosing a green ball and then a red ball is $\left(N_{2} \times N_{1}\right) /\left(N_{1}+N_{2}\right)^{2}$. Thus the chance of choosing two different coloured balls (equivalent to the chance of choosing a loose rhyme) is $\left(2 \times N_{1} \times N_{2}\right) /\left(N_{1}+N_{2}\right)^{2}$.

[^1]This formula is applied to the totals in Table 2.

```
\(N_{1}=\) number of rhyming words with [-'ann]
    \(=\) no. of strict rhymes ['ann] \(\equiv[' \mathrm{ann}]+1 / 2\) no. of loose rhymes ['a:n] - ['ann]
    \(=68+(1 / 2 \times 26)\)
    \(=81\)
\(N_{2}=\) number of rhyming words with [-'a:n]
    = no. of strict rhymes ['a:n] \(\equiv[' \mathrm{a}: \mathrm{n}]+1 / 2\) no. of loose rhymes ['a:n] - ['ann]
    \(=18+(1 / 2 \times 26)\)
    \(=31\)
```

So if all the potential rhyming words are mixed up in one pool, the chance of selecting a loose rhyme is $2 \times 31 \times 81 /(31+81)^{2}$

$$
=5022 / 12544
$$

$$
=0.400
$$

One would then expect the total number of loose rhymes to be $0.400 \times(31+81) \approx 45$. The actual number is only 26 , which suggests that the assumption of one large pool is false. The implication is that poets favoured strict rhymes, trying to use them wherever possible, but on occasion having to resort to loose rhymes.

## 2) ANALYSES OF RHYMING ENSEMBLES

The analyses of the two rhyming ensembles performed hitherto suggest that strict rhymes were used by poets in preference to loose ones, but to confirm this, we need to examine many more ensembles. There are about 160 different rhyming ensembles in Cornish, but only a few of them have enough attested cases to produce a statistically significant result. A rule of thumb says that one needs at least 30 cases, and because the rhyming pairs are counted in both directions, the ensembles analysed here have a total $\left(N_{1}+N_{2}\right)$ of at least 60 .

The results are presented in the form of tables with the same format. The actual numbers of loose rhymes are highlighted in green, and the expected number if the rhyming pool were fully mixed are highlighted in red. Ensembles $\mathscr{R} a m$ and $\mathscr{R} a n$ are repeated for completeness. The rhyming words used are listed; note that there may be other attested rhyming words, e.g. those making soft rhymes but not hard.

### 2.1 Results for ensemble $\mathscr{R a m}$

Cornish rhyming words in -amm:
bramm 'fart', droglamm 'accident', kamm 'wrong', lamm 'leap', mamm 'mother, namm 'spot, tamm 'piece'.

Words whose final sound-sequence was identified with Cornish [-'amm]:
from English: hwymm-hwamm 'whym-wham'; from Latin: jamm' 'never'.
Loan-words from English in -am:
blam 'blame', gam 'game', nam 'name', sham 'shame, tam 'tame'.

| Table 4 | Numbers of hard rhyming pairs in ensemble $\mathscr{R}$ am |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Sounds | KK | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | ['amm] $\equiv$ ['amm] | $-\mathrm{amm} \equiv-\mathrm{amm}$ | 0 | 28 | 0 | 16 | 38 | 24 | 10 | 0 | 116 |
| strict | ['a:m] $\equiv$ ['a:m] | $-a m \equiv-a m$ | 0 | 2 | 2 | 0 | 10 | 10 | 6 | 0 | 30 |
| loose | ['amm] - ['a:m] | -amm - -am | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 |
| $N_{1}=$ number of rhyming words with -amm |  |  | 0 | 28 | 0 | 16 | 38 | 24 | 16 | 0 | 122 |
| $N_{2}$ = number of rhyming words with -am |  |  | 0 | 2 | 2 | 0 | 10 | 10 | 12 | 0 | 36 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  |  | 0 | 30 | 2 | 16 | 48 | 34 | 28 | 0 | 158 |
| Expected no. of loose rhymes if fully mixed |  |  | 0 | 11 | 1 | 6 | 17 | 12 | 10 | 0 | 56 |

### 2.2 Results for ensemble $\mathscr{R}$ an

Cornish rhyming words in -ann:
a-vann'above', mann 'nought', gwann 'weak', pann 'cloth', rann 'part, sa' bann 'arise', splann 'brilliant', tann 'take', war-vann 'upwards', yn-bann 'upwards'.

Cornish rhyming words in -an:
bran 'raven', eghan 'alas', glan 'clean', gwlan 'wool', kan 'song, tan 'fire'

| Table 5 | Numbers of hard rhyming pairs in ensemble $\mathscr{R} a n$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Sounds | KK | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | ['ann] $\equiv$ ['ann] | -ann $\equiv$ - $a n n$ | 10 | 4 | 12 | 10 | 20 | 10 | 2 | 0 | 68 |
| strict | ['a:n] \# ['a:n] | $-a n \equiv-a n$ | 0 | 4 | 0 | 4 | 4 | 2 | 2 | 2 | 18 |
| loose | ['ann] - [': :n] | -ann--an | 0 | 2 | 0 | 16 | 4 | 0 | 4 | 0 | 26 |
| $N_{1}=$ number of rhyming words with -ann |  |  | 10 | 5 | 12 | 18 | 22 | 10 | 4 | 0 | 81 |
| $N_{2}=$ number of rhyming words with -an |  |  | 0 | 5 | 0 | 12 | 6 | 2 | 4 | 2 | 11 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  |  | 10 | 10 | 12 | 30 | 28 | 12 | 8 | 2 | 112 |
| Expected no. of loose rhymes if fully mixed |  |  |  |  | 5 | 12 | 11 |  | 3 |  |  |

### 2.3 Results for ensemble $\mathscr{R}$ en

Cornish rhyming words in -enn:
fenn 'base?', gwenn 'anus', krows-prenn 'cross', omdenn 'withdraw', penn 'head', prenn 'timber', tenn 'pull, yn-tenn 'stretched'.

Cornish rhyming words in -en:
ben 'woman', den 'man', gwren 'we do', hen 'old', hepken 'only', ken 'reason', kren 'shakes', len 'faithful', mab-den 'mankind', men 'stone', nahen 'any more', plen 'plain', pren 'buys', toeth-men 'high-speed', ren 'we give', sten 'tin', yn-fen 'strongly'.

| Table 6 | Numbers of hard rhyming pairs in ensemble Ren |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Sounds | KK | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | ['Enn] $\equiv$ ['znn] | $-e n n \equiv-e n n$ | 8 | 14 | 14 | 4 | 0 | 16 | 0 | 0 | 56 |
| strict | ['ę:n] $\equiv$ ['ę:n] | -en $\equiv$-en | 28 | 10 | 12 | 14 | 12 | 16 | 0 | 6 | 98 |
| loose | ['عnn] - ['ę:n] | -enn--en | 14 | 4 | 2 | 4 | 6 | 0 | 0 | 0 | 30 |
| $N_{1}=$ number of rhyming words with -enn |  |  | 15 | 16 | 15 | 6 | 3 | 16 | 0 | 0 | 71 |
| $N_{2}=$ number of rhyming words with -en |  |  | 35 | 12 | 13 | 16 | 15 | 16 | 0 | 6 | 113 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  |  | 50 | 28 | 28 | 22 | 18 | 32 | 0 | 6 | 184 |
| Expected no. of loose rhymes if fully mixed |  |  | 24 | 13 | 13 | 10 | 9 | 15 | 0 | 3 | 87 |

### 2.4 Results for ensemble $\mathscr{R e l}$

Cornish rhyming words in ell:
$\boldsymbol{a}$-bell 'distant', bell 'war', fell 'cruel', gwell 'better', mell 'link', nell 'strength', neppell 'some way off', pell 'far', tell 'holes'.

Words whose final sound-sequence was identified with Cornish [-'عll]:
From English: farwell 'farewell', hell; from German: snell 'quick'.
Cornish rhyming words in -el:
el 'angel', gwel 'sees', gwel 'field', hel 'generous', hwel 'work', kel 'hidden', mel 'honey'.

Loan-word from English in eel:
lel 'loyal'.

| Table 7 | Numbers of hard rhyming pairs in ensemble $\mathscr{R e l}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Sounds | KK | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | ['Ell] $\equiv$ ['Ell] | -ell $\equiv$-ell | 6 | 12 | 2 | 14 | 10 | 22 | 0 | 4 | 70 |
| strict | ['e: 1$] \equiv$ ['e: 1$]$ | $-e l \equiv-e l$ | 0 | 0 | 4 | 0 | 4 | 8 | 4 | 2 | 22 |
| loose | ['عl1]-['e: 1$]$ | -ell --el | 2 | 8 | 0 | 2 | 2 | 0 | 4 | 0 | 18 |
| $N_{1}=$ number of rhyming words with -ell |  |  | 7 | 16 | 2 | 15 | 11 | 22 | 2 | 4 | 79 |
| $N_{2}=$ number of rhyming words with -el |  |  | 1 | 4 | 4 | 1 | 5 | 8 | 6 | 2 | 31 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  |  | 8 | 20 | 6 | 16 | 16 | 30 | 8 | 6 | 110 |
|  |  |  | 3 | 8 | , | 6 | 6 | 12 | 3 | 2 | 45 |

### 2.5 Results for ensemble $\mathscr{R o l}$

Cornish rhyming words in -oll:
foll 'foolish', $\boldsymbol{k}$ oll 'loss', oll 'all', poll 'pool', toll 'hole', troll 'wheel of torture'.
Other words in -oll:
Apoll' (name of god, shortened), boll 'translucent'.
Cornish rhyming words in -ol:
ol 'trace', skol 'school'.
Loan-word from English, thought to have [-0:1]:
rol 'roll'.

| Table 8 | Numbers of hard rhyming pairs in ensemble $\mathscr{R}$ ol |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Sounds | KK | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | ['oll] 引 ['oll] | -oll $\equiv$-oll | 24 | 10 | 8 | 18 | 2 | 26 | 0 | 2 | 90 |
| strict | ['0:1] $\equiv$ ['0:1] | $-o l \equiv-o l$ | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 |
| loose | ['oll] - ['0:1] | -oll - -ol | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 6 |
| $N_{1}=$ number of rhyming words with -oll |  |  | 24 | 11 | 8 | 2 | 19 | 27 | 0 | 2 | 93 |
| $N_{2}=$ number of rhyming words with -ol |  |  | 0 | 1 | 0 | 0 | 5 | 1 | 0 | 0 | 7 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  |  | 24 | 12 | 8 | 2 | 24 | 28 | 0 | 2 | 100 |
| Expected no. of loose rhymes if fully mixed |  |  | 3 | 2 | 1 | 0 | 3 | 4 | 0 | 0 | 13 |

### 2.6 Results for ensemble $\mathscr{R} y t h$

Cornish rhyming words in $\mathbf{- y t h}$ :
byth 'ever', denvyth 'nobody', gwryth 'deeds', pyth 'thing', syth 'upright', travyth 'nothing', vyth 'at all'.

Cornish rhyming words in $\boldsymbol{- y} \boldsymbol{d} \boldsymbol{h}$ :
$\boldsymbol{a}$ ' $\boldsymbol{f y} \boldsymbol{d} \boldsymbol{h}$ 'will have', bydh 'will be', dohajydh 'afternoon', dydh 'day', $\boldsymbol{f y} \boldsymbol{y} \boldsymbol{d} \boldsymbol{h}$ 'faith', gwydh 'trees', seuladhydh 'formerly'

Note: Stressed monosyllables with [-i: $\theta$ ], such as skwith 'tired' were frequently loosely rhymed with words with [-1: $\theta$ ], because there were not enough of them to form many strict rhymes. These belong to the ensemble $\mathscr{R} y t h$, because they were spelled <-yth>, but they are excluded from this analysis.

| Table 9 | Numbers of hard rhyming pairs in ensemble $\mathscr{R} y$ th |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Sounds | KK | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | ['ı: $\theta$ ] $\equiv$ ['ı: $\theta$ ] | -yth $\equiv$-yth | 2 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 10 |
| strict | [r:ð] $\equiv$ ['ı: C$]$ | $-y d h \equiv-y d h$ | 4 | 10 | 14 | 22 | 0 | 8 | 2 | 0 | 60 |
| loose | ['ı: 0 ] [ ['ı:ð] | -yth --ydh | 0 | 4 | 2 | 0 | 0 | 4 | 4 | 0 | 14 |
| $N_{1}=$ number of rhyming words with -yth |  |  | 2 | 8 | 3 | 0 | 0 | 2 | 2 | 0 | 17 |
| $N_{2}=$ number of rhyming words with -ydh |  |  | 4 | 12 | 15 | 22 | 0 | 10 | 4 | 0 | 67 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  |  | 6 | 20 | 18 | 22 | 0 | 12 | 6 | 0 | 84 |
| Expected no. of loose rhymes if fully mixed |  |  | 2 | 6 | 6 | 7 | 0 | 4 | 2 | 0 | 27 |

### 2.7 Results for ensemble $\mathscr{R e t h}$

Ensemble $\mathscr{R}$ eth is complicated because words with -eth come from several sources.

### 2.7.1 Historic /- $\boldsymbol{\varepsilon} \boldsymbol{\theta} /$ and /- $\boldsymbol{\varepsilon} \boldsymbol{\delta} /$

The obvious ones are those with historic / $\varepsilon \theta$ /, spelled -eth:
diveth 'shameless', $\boldsymbol{e t h}$ 'went', $\boldsymbol{e t h}$ 'hearth', $\boldsymbol{f e t h}$ 'defeats', gweth 'worse', $\boldsymbol{k e t h}$ 'same',
$\boldsymbol{k}$ weth 'cloth', leth 'milk', meth 'shame', Penntreth (surname), pleth 'plait', soweth 'alas', treth 'beach'
and those with historic /-६ð/, spelled -edh:
$\boldsymbol{a}$-gledh 'to the left', bedh 'grave', edh 'thou goest', dredh 'thou bringest', fredh 'ardour', gwredh 'thou makest', $\boldsymbol{k l e d h}$ 'left', medh 'mead', ynwedh 'also'.

### 2.7.2 Lowering of /ı/ in historic /- $\mathbf{I} \mathbf{\theta}$ / and /-ı $\mathbf{I}$ /

Because historic /I/ was lowered to $/ \varepsilon /$ (George 2018), we find in this ensemble words which have historic $/-\mathrm{I} \theta /$, spelled $-\boldsymbol{y} \boldsymbol{t} \boldsymbol{h}$ in $\boldsymbol{K} \boldsymbol{K}$ but -eth in the texts, and pronounced [-'e: $\theta$ ]:
nep-pyth 'something', perfyth 'perfect', pyth 'thing', vyth 'at all'
and words with historic /-rð/, spelled $\mathbf{- y d h}$ in $\boldsymbol{K K}$, -eth in the texts, and pronounced [-'ę:ð]:
$\boldsymbol{a}$ ' $\boldsymbol{f y} \boldsymbol{d} \boldsymbol{h}$ 'will have', $\boldsymbol{b y d h}$ 'will be', $\boldsymbol{d y d} \boldsymbol{d}$ 'day', fydh 'faith'.

This sound-change $/ \mathrm{I} />/ \varepsilon /$ confounds the devisers of fixed orthographies for Cornish, because in many words, both $<\mathrm{y}>$ and $<\mathrm{e}>$ spellings are frequent in the texts, and it is not obvious which to choose. KK tends to choose $\langle\mathrm{y}>$, reflecting the historical vowel/I/. More generally, we have seen painstakingly produced editions of the plays, first in Unified, then in Kernewek Kemmyn and now in SWF, but none of these orthographies expresses the rhymes adequately, because they are fixed.

### 2.7.3 Unrounding of /œ/ giving / $\boldsymbol{\varepsilon} /$

A second sound-change which produced $/ \varepsilon /$ was the unrounding of historic /œ/. Words containing [-'ę:ð] </-œð/ are usually are spelled with <eu> in $\boldsymbol{K} \boldsymbol{K}$, but when unrounded as here, they may be spelled with $<\mathrm{e}$ '>:
dige'dh 'carefree', he'dh 'joyful', ke'dh 'sorrow'.

### 2.7.4 Others

- The word hwath 'yet' had a variant wheth implying raising of /a/ to [-' $\varepsilon: \theta]$.
- The loan-word fas 'face' had a variant fath which was sometimes similarly raised, to feth.
- In PA.225, anfueth looks like a curious variant of anfeus 'wretchedness'.
- At OM.2370, gwlas 'land' is written wleth; this seems to have raising of $/ \mathrm{a} />/ \varepsilon /$, but one would not expect the reflex of Old Cornish /-d/ to appear as <-th>, so this may be just a poor eye-rhyme.

| Table 10 | Numbers of hard rhyming pairs in ensemble Reth |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Sounds | KK | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | ['ę: $\theta$ ] $\equiv$ ['ę: $\theta$ ] | -eth $\equiv$-eth | 24 | 6 | 8 | 2 | 4 | 2 | 0 | 6 | 52 |
| strict | ['ę: $]$ ] $\equiv[$ [ę: ] $]$ | -edh $\equiv$-edh | 34 | 4 | 32 | 12 | 28 | 6 | 6 | 0 | 122 |
| loose | ['e: $\theta$ ] - ['e: $\mathrm{e}:$ ] $]$ | -eth --edh | 50 | 18 | 6 | 16 | 8 | 14 | 2 | 0 | 114 |
| $N_{1}=$ number of rhyming words with -eth |  |  | 49 | 15 | 11 | 10 | 8 | 9 | 1 | 6 | 109 |
| $N_{2}$ = number of rhyming words with -edh |  |  | 59 | 13 | 35 | 20 | 32 | 13 | 7 | 0 | 179 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  |  | 108 | 28 | 46 | 30 | 40 | 22 | 8 | 6 | 288 |
| Expected no. of loose rhymes if fully mixed |  |  | 51 | 13 | 22 | 14 | 19 | 10 | 4 | 3 | 135 |

### 2.8 Combination of all previous results

The numbers of loose rhymes (actual and expected) in Tables 4 to 10 have been summed and given in Tables 11 and 12.

| Table 11 | Numbers of loose rhymes in all analysed ensembles |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | ---: |
|  | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| Actual number of loose rhymes | 66 | 38 | 10 | 38 | 22 | 20 | 26 | 0 | 220 |
| Expected no. of loose rhymes if fully mixed | 87 | 58 | 50 | 56 | 65 | 62 | 22 | 9 | 408 |
| Ratio actual / fully mixed as a percentage | 76 | 66 | 20 | 67 | 34 | 32 | 117 | 0 | 54 |

The third line in the table is a measure of how strict the rhymes are in each text. In seven of the eight blocks of text, there are fewer actual loose rhymes than one would expect if the available rhyming words were fully mixed in a single pool. This indicates that poets gave priority to strict rhymes, and used loose rhymes when a strict rhyme could not be found.

The exception is CW, which has more loose rhymes than the fully mixed number. The unusual structure of stanzas means that there are more rhyming pairs per 1000 lines than in the other plays, which means that there are relatively more loose rhymes. This also applies to a lesser extent to PA, with its ABABABAB rhyme-scheme; this text has the second highest percentage (actual / fully mixed). The texts with the least number of loose rhymes are BM, BK and RD. See section 4 for further discussion.

If data for all of the texts are combined, the results for each rhyming ensemble may be compared (Table 12). The numbers are somewhat dominated by $\mathscr{R e t h}$, but in every ensemble the number of actual loose rhymes is less than the number expected, were no account taken of the quality of the rhymes.

| Table 12 | Numbers of loose rhymes in all analysed texts |  |  |  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | :--- | ---: | ---: | ---: | ---: |
|  | Rhyming ensemble $\mathscr{R} \rightarrow$ | am | an | en | el | ol | eth | yth | Total |
| Actual number of loose rhymes | 12 | 26 | 30 | 18 | 6 | 114 | 14 | 220 |  |
| Expected no. of loose rhymes if fully mixed | 56 | 45 | 87 | 45 | 13 | 135 | 27 | 408 |  |
| Percentage actual / fully mixed | 21 | 58 | 34 | 40 | 46 | 84 | 52 | 54 |  |

## 3) FURTHER ANALYSES TO EXAMINE A SOUND-CHANGE

We have seen that before CW, it looks as if poets strove to use strict rhymes wherever possible, and were driven to use loose ones only when unable to find a strict rhyme.

The same approach is now used to examine rhyming ensembles with $<-s>$ as the final consonant. Only the native Cornish sources of $<-s>$ are considered: the reflex of Old Cornish $/-\mathrm{d} /$, which suffered assibilation, and that of Old Cornish /-s/. ${ }^{3}$ In Late Cornish, the reflexes of both were sometimes spelled $\langle-\mathrm{z}\rangle$, indicating voicing. In Middle Cornish, they were both spelled <-s>, but this was used for both [-s] and [-z]. We cannot tell directly whether a given case was unvoiced or voiced.

It is reasonable to suppose that the reflex of Old Cornish /-d/ in hard rhymes was pronounced [-z] because upon assibilation, the final consonant would keep its voiced character. Did the reflex of Old Cornish /-s/ become voiced at an early stage; e.g. at the same time as the assibilation of /-d/, in the 13th century? Or was it voiced when $<-\mathrm{z}>$ began to appear, $c .1600$ ?

The results of the analysis in Section 2 suggest that so long as the two reflexes remained different, the authors of the texts would try to use hard rhymes using either $[-z]<$ Old Cornish $/-\mathrm{d} /$ or $[-\mathrm{s}]<$ Old Cornish $/-\mathrm{s} /$. They would not mix words from the two sources in a loose rhyme unless forced to do so. We therefore carry out another series of analyses. The tables include rhyming pairs only from the Old Cornish sources. They exclude pairs involving loanwords.

[^2]
### 3.1 Ensemble $\mathscr{R}$ as

Words in -as from Old Cornish /-as/:
$\boldsymbol{a}$-has 'hateful', blas 'taste', bras 'big', glas 'blue', glas 'maw', gnas 'nature', gwas ${ }^{4}$ 'fellow', plus tys-ha-tas 'noisily', which may not be Cornish in origin.

Words in -as from Old Cornish /-ad/:
bras 'trap', gas 'leave', gwlas 'country', has 'seed', kas 'war', las 'dram', mas 'good', pras 'meadow', ras 'grace', tas 'father'.

| Table 13 | Numbers of hard rhyming pairs in ensemble $\mathscr{R} a s$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Rhymes by origin | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | Old Cornish /-as/ 三 OldC /-as/ | 4 | 24 | 10 | 10 | 0 | 0 | 26 | 0 | 74 |
| strict | Old Cornish /-ad/ 三 OldC /-ad/ | 10 | 26 | 36 | 40 | 20 | 118 | 26 | 4 | 280 |
| loose | Old Cornish /-as/ - OldC /-ad/ | 22 | 18 | 8 | 42 | 4 | 0 | 72 | 6 | 172 |
| $\mathrm{N}_{1}=$ no. of rhyming words from OldC /-as/ |  | 15 | 33 | 14 | 31 | 2 | 0 | 62 | 3 | 160 |
| $\mathrm{N}_{2}=$ no. of rhyming words from OldC /-ad/ |  | 21 | 35 | 40 | 61 | 22 | 118 | 62 | 7 | 366 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  | 36 | 68 | 54 | 92 | 24 | 118 | 124 | 10 | 526 |
| Expected no. of loose rhymes if fully mixed |  | 15 | 29 | 23 | 39 | 10 | 50 | 52 | 4 | 222 |

Here the results from BK are truly remarkable. This play has the largest number of rhyming pairs from Old Cornish /-ad/, none from OldC /-as/, and no loose rhymes at all.

### 3.2 Ensemble $\mathscr{R o s}$

Words in -os from Old Cornish /-os/:
dros 'brought', $\boldsymbol{n o s}$ 'night', plos 'dirty', ros 'gave', ros 'rose', tros 'noise'.
Also included here is Late Cornish bros, apparently from Middle Cornish bras 'big'.
Words in -os from Old Cornish /-od/:
bos 'to be', dos 'to come', glos 'cow-dung', hos 'duck', mos 'to go', os 'thou art'.

| Table 14 | Numbers of hard rhyming pairs in ensemble $\mathscr{R}$ os |  |  |  |  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Rhyme | Rhymes by origin | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | Old Cornish /-os/ $\equiv$ OldC /-os/ | 4 | 8 | 4 | 2 | 22 | 6 | 2 | 0 | 48 |
| strict | Old Cornish /-od/ $\equiv$ OldC $/$-od $/$ | 0 | 0 | 2 | 2 | 10 | 18 | 6 | 6 | 44 |
| loose | Old Cornish /-os/ - OldC /-od/ | 4 | 2 | 0 | 0 | 2 | 0 | 12 | 12 | 32 |
| $\mathrm{~N}_{1}=$ no. of rhyming words from OldC $/-$ os/ $/$ | 6 | 9 | 4 | 2 | 23 | 6 | 8 | 6 | 64 |  |
| $\mathrm{~N}_{2}=$ no. of rhyming words from OldC $/-\mathrm{od} /$ | 2 | 1 | 2 | 2 | 11 | 18 | 12 | 12 | 60 |  |
| $N_{1}+N_{2}=$ total number of rhyming pairs | 8 | 10 | 6 | 4 | 34 | 24 | 20 | 18 | 124 |  |
| Expected no. of loose rhymes if fully mixed | 4 | 5 | 3 | 2 | 17 | 12 | 10 | 9 | 62 |  |

### 3.3 Ensemble $\mathscr{R o v s}$

Old Cornish /ui/, itself the fusion of earlier /ui/ and /oi/, became the monophthong /o/ in early Middle Cornish, but the digraph <oy> which represented it still reflected a diphthong.

Words in -oes, from Old Cornish /-uis/:
gloes 'pang', koes 'leg', moes 'table', poes 'heavy'.

[^3]Words in－oes，from Old Cornish／－uid／：
boes＇food＇，dewdroes＇feet＇，goes＇blood＇，koes＇wood＇，loes＇grey＇，oes＇age＇，skoes ＇shield＇，troes＇foot＇．

| Table 15 | Numbers of hard rhyming pairs in ensemble $\mathscr{R}$ oys |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Rhymes by origin | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | Old Cornish／－uis／三 OldC／－uis／ | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 6 |
| strict | Old Cornish／－uid／三 OldC／－uid／ | 12 | 4 | 6 | 8 | 12 | 26 | 6 | 0 | 74 |
| loose | Old Cornish／－uis／－OldC／－uid／ | 10 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 14 |
| $\mathrm{N}_{1}=$ no．of rhyming words from OldC／－uis／ |  | 5 | 0 | 2 | 0 | 5 | 1 | 0 | 0 | 13 |
| $\mathrm{N}_{2}=$ no．of rhyming words from OldC／－uid／ |  | 17 | 4 | 6 | 8 | 13 | 27 | 6 | 0 | 81 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  | 22 | 4 | 8 | 8 | 18 | 28 | 6 | 0 | 94 |
| Expected no．of loose rhymes if fully mixed |  | 5 | 1 | 2 | 2 | 4 | 7 | 1 | 0 | 22 |

## 3．4 Ensemble $\mathscr{R} e s$

Like $\mathscr{R e t h}$ ，ensemble $\mathscr{R e s}$ is complicated because the vowel has several sources，even in native Cornish words．

Words containing［－＇ę：s］as the reflex of Old Cornish／－es／：
$\boldsymbol{l e s}$＇profit＇，mes＇open field＇，nes＇near＇．
Words containing［－＇ę：s］＜Old Cornish／－œs／；usually these are spelled with $<\mathrm{eu}>$ in $\boldsymbol{K} \boldsymbol{K}$ ，but when unrounded as here，they may be spelled with＜e＇＞：
$\boldsymbol{e}$＇s＇is＇，de＇s＇come＇，tre＇s＇transverse＇．
Words containing［－＇ę：z］as the reflex of Old Cornish／－zz／：
a－les＇apart＇，kres＇belief＇，les＇width＇，res＇runs＇．
Words containing［－＇ę：z］＜Old Cornish／－œd／；usually these are spelled with＜eu＞in $\boldsymbol{K} \boldsymbol{K}$ ，but when unrounded as here，they may be spelled with $\langle\mathrm{e}$＇＞：
bre＇s＇judgment＇．
Words containing［－＇ę：z］＜Old Cornish／－Id／；the list below shows that in $\boldsymbol{K} \boldsymbol{K}$ ，these are usually spelled with $<\mathrm{y}>$ ，reflecting their etymological vowel $/ \mathrm{I} /$ ；but they were subject to the sound－ change $/ \mathrm{I} />/ \varepsilon /$（George 2018），and in the rhymes considered here，the change has taken place：
$\boldsymbol{a}$－hys＇outstretched＇，brys＇mind＇，bys＇world＇，gwrys＇made＇，drys＇brought＇，porres ＇urgently＇，prys＇occasion＇，res＇need＇．

| Table 15 | Numbers of hard rhyming pairs in ensemble $\mathscr{R}$ es |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rhyme | Rhymes by origin | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| strict | Old Cornish［－＇V：s］引 OldC［－＇V：s］ | 0 | 0 | 4 | 2 | 4 | 0 | 8 | 0 | 18 |
| strict | Old Cornish［－＇V：d］ミ OldC［－＇V：d］ | 8 | 0 | 6 | 2 | 4 | 0 | 2 | 26 | 48 |
| loose | Old Cornish［－＇V：s］－OldC［－＇V：d］ | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 6 |
| $\mathrm{N}_{1}=$ no．of rhyming words from OldC／－Vs／ |  | 0 | 1 | 4 | 2 | 4 | 0 | 8 | 2 | 21 |
| $\mathrm{N}_{2}=$ no．of rhyming words from OldC $/-\mathrm{Vd} /$ |  | 8 | 1 | 6 | 2 | 4 | 0 | 2 | 28 | 51 |
| $N_{1}+N_{2}=$ total number of rhyming pairs |  | 8 | 2 | 10 | 4 | 8 | 0 | 10 | 30 | 72 |
| Expected no．of loose rhymes if fully mixed |  | 3 | 1 | 4 | 2 | 3 | 0 | 4 | 12 | 30 |

## 4) COMPARISONS BETWEEN THE TEXTS

### 4.1 Ratio of actual number of loose pairs to the "fully mixed" number

This ratio, for the ensembles analysed in Section 3, is given in Table 16, as a percentage. The last line shows the corresponding percentages from the ensembles in Section 2, added from Table 11 for comparison.

| Table 16 | Numbers of loose rhymes in all analysed ensembles |  |  |  |  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | PA | PC | RD | OM | BM | BK | CW | LC | Total |  |
| Actual number of loose rhymes | 36 | 22 | 8 | 42 | 8 | 2 | 84 | 22 | 224 |  |
| Expected no. of loose rhymes if fully mixed | 32 | 36 | 34 | 47 | 36 | 73 | 69 | 25 | 353 |  |
| Ratio actual / fully mixed <br> as a percentage | Section 3 | 113 | 61 | 24 | 89 | 22 | 3 | 122 | 88 | 54 |
|  | Section 2 | 76 | 66 | 20 | 67 | 34 | 32 | 117 | 0 | 54 |

The closeness between the two sets of results is striking. The overall percentage (54\%) is the same in both sets, and the ranking of the texts by ratio is almost the same. In Section 2, there was no doubt about the nature of the final consonants in the rhyming sequences: the differences were geminate $v$. single and voiceless $v$. voiced. Now the fact that the results for Section 3 closely resemble the control set in Section 2 confirms the validity of the methodology. The figures in the last line show that the reflex of Old Cornish/s/had not been voiced to [z], at least for the authors of RD, BM and BK.

### 4.2 Percentage of rhyming pairs which are loose

Another way of comparing the texts is to calculate the percentage of rhyming pairs which are loose. This is done in Table 17, separately for the ensembles examined in sections 2 and 3 above. The results for each section are similar. CW, PA and OM (in that order) have the most loose rhymes, and $\mathrm{BK}, \mathrm{RD}$ and BM have the least.

| Table 17 | Percentage of loose rhyming pairs |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | PA | PC | RD | OM | BM | BK | CW | LC | Total |
| Section 2 | No. of loose pairs | 66 | 38 | 10 | 38 | 22 | 20 | 26 | 0 | 220 |
|  | Total no. of pairs ( $N_{1}+N_{2}$ ) | 206 | 148 | 120 | 138 | 174 | 170 | 58 | 22 | 1036 |
|  | \%age of loose pairs | 32 | 25 | 8 | 28 | 13 | 12 | 45 | 0 | 21 |
| Section 3 | No. of loose pairs | 36 | 22 | 8 | 42 | 8 | 2 | 84 | 22 | 224 |
|  | Total no. of pairs ( $N_{1}+N_{2}$ ) | 74 | 84 | 78 | 108 | 84 | 170 | 160 | 58 | 816 |
|  | \%age of loose pairs | 49 | 26 | 10 | 39 | 10 | 1 | 53 | 38 | 27 |

We should beware, however, of jumping to the conclusion that the author of CW was the worst rhymester, and that of BK the best. Table 17 fails to take into account the difficulty of finding rhymes to fit a particular rhyme-scheme. The high values for PA are partly attributable to the fact that the work consists almost entirely of A8 stanzas. Of the common rhyme-schemes, S 8 (ABABCDDC) and S 6 (AABCCB) both have one rhyming pair per line, but A8 (ABABABAB) has three rhyming pairs per line. It is much more difficult to compose A8 stanzas, because they require two sets of four rhymes ${ }^{6}$ : it is not easy to find four words which rhyme strictly, so there will be more recourse to loose rhymes. BK, on the other hand, has no A8 stanzas, and therefore has relatively few loose rhymes.

[^4]In order to take account of the different choice of rhyme-scheme, we use the ratio (number of rhyming pairs / number of lines) for each text. This weighting factor is given in Table 18.

| Table 18 | Calculating the weighting factor in each text |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | PA | PC | RD | OM | BM | BK | CW | LC |
| Total number of rhyming pairs | 6168 | 5646 | 3914 | 5606 | 6948 | 3922 | 6478 | 430 |
| Total number of lines |  | 2074 | 3316 | 2714 | 2894 | 4575 | 3276 | 2562 |
| (ratio (rhyming pairs / lines) | 2.97 | 1.70 | 1.44 | 1.94 | 1.52 | 1.20 | 2.53 | 1.33 |

Here PA has the greatest weighting factor, almost 3 as given by theory ${ }^{8}$. The second highest is CW, which has a different stanzaic structure from the other Middle Cornish plays. The lowest is BK . There is a correlation between the percentage of loose rhyming pairs and the weighting factor, as shown in this diagram (blue dots $=$ Section 2 data, green dots $=$ Section 3 data):


One may eliminate the effect of choice of rhyme-scheme by dividing the percentage of loose rhyming pairs (Section 2 and 3 combined) by the weighting factor:

| Table 19 | Calculating the weighting factor in each text |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :---: | :--- | :--- | :--- | :--- | :--- |
|  | PA | PC | RD | OM | BM | BK | CW | LC |
| \%age of loose pairs (average) | 36 | 26 | 9 | 33 | 12 | 6 | 50 | 28 |
| Ratio (rhyming pairs / lines) | 2.97 | 1.70 | 1.44 | 1.94 | 1.52 | 1.20 | 2.53 | 1.33 |
| Result = quotient | 12 | 15 | 6 | 17 | 8 | 5 | 20 | 21 |

The bottom line of Table 19 is a measure of how skilled the poets were at making strict rhymes. The texts fall into two clear groups: the authors of $\mathbf{B K}, \mathbf{R D}$ and $\mathbf{B M}$ are good; the others are not so good.

[^5]
## 5) CONCLUSIONS

- Poets writing in Middle Cornish favoured using strict rhymes rather than loose rhymes. (There is insufficient data to draw a conclusion for Late Cornish).
- The least successful in applying this policy were the authors of PA and CW, because they chose more difficult rhyming-schemes.
- Of the other plays, PC and OM have relatively more loose rhymes than RD, BM and BK; but all have fewer loose rhymes than one would expect if no distinction was made between strict and loose.
- When one eliminates the effect of choice of rhyme-scheme, the best poets are still the authors of BK, RD and BM.
- The reflex of Old Cornish /-s/ remained as [-s], except perhaps in CW, contrasting with the reflex of Old Cornish /-d/, which was [-z]. Orthographies based on Middle Cornish, such as $\boldsymbol{K} K$ and SWF-M ${ }^{9}$, would therefore be improved if the latter were written $<-\mathrm{z}>$.


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[^6]
[^0]:    1 Compare, however, Breton drouklamm, which is stressed on the first syllable.

[^1]:    $2 \mathrm{PA}=$ Pascon agan Arluth, $\mathrm{PC}=$ Passio Christi, RD $=$ Resurrectio Domini, $\mathrm{OM}=$ Origo Mundi,
    $\mathrm{BM}=$ Bewnans Meryasek, $\mathrm{BK}=$ Bewnans Ke, $\mathrm{CW}=$ Creacon of the World, $\mathrm{LC}=$ Late Cornish.

[^2]:    3 Other sibilants, in loan-words, are from Middle English /s/ and /z/, and Old French /ç/ (George 2024).

[^3]:    4 Including drogwas, harlotwas, kawghwas, loselwas, all low-life characters.
    $5 \quad$ Including ben'vas 'goodwife', dremas 'saint'.

[^4]:    6 The author discovered this when he composed Devedhyans Sen Pawl un Bro Leon (George 1983).

[^5]:    7 The number of lines corresponds to the number of rhymes, not to the labelled numbers in the editions. 8 It is not exactly 3 because a few stanzas have ABABCBCB rather than the usual ABABABAB .

[^6]:    9 The internal consistency of SWF-M is ruined by the inclusion of the digraph $<\mathrm{oo}>$ for ['o:], since this comes from the later "signpost spelling". $\boldsymbol{K} \boldsymbol{K}<$ oe $>$ is better.

