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When quantifiers do not agree: three systems

URTZI ETXEBERRIA & RICARDO ETXEPARE

IKER UMR 5478-CNRS

Gaztelu Berria, Paul Bert Plaza, 15
64100 Baiona, Pays Basque, France
u.etxeberria@gmail.com / retxepare@gmail.com

Abstract

Basque weak quantifiers optionally agree with the inflected verb in number. This paper’s main aim is to study the dialectal variation shown by this phenomenon. The study will show that it is necessary to differentiate at least three systems: the western-central system, one that we will call the transition system, and the eastern system (souletin). The western-central system allows the presence of non-agreeing weak quantifiers in every case-marked position, ergative, dative or absolutive; the transition system does not allow it with ergative case arguments, and the oriental system allows it only with absolutive case arguments. In the latter system, the distribution of non-agreeing quantifiers is identical to that of bare nouns: bare nouns are only possible in those positions where absolutive case is assigned.

Keywords

Weak quantifiers, agreement alternation, plurality.
1. Introduction: the phenomenon

Basque plurality denoting nominal expressions trigger obligatory agreement in number with the inflected verb.

(1) Anek liburu-ak erosi ditu/*du

Ane.erg book-D-pl buy have.pl/have.sg

‘Ane has bought (the) books’

This rule has an exception in so called ‘vague’ weak quantifiers in Basque, which optionally agree in number with the inflected verb (2a-d) (see Rotaetxe 1979; Txillardegi 1977, 1978; EGLU 1985; Etxepare, 2000).

(2) a. Bezero asko etortzen da/dira halako egunetan

customer many come-hab is/are such days-in

‘A lot of customers come in such days’

b. Bezero gehiegik eskatu du/dute arrain zopa

customer too-many-erg asked aux-sg/aux-pl fish soup

‘Too many customers asked for fish soup’

c. Maiak lagun gutxi ikusi du/ditu gaur

Maia.erg friend few seen aux-sg/aux-pl today

‘Maia has seen few students today’

The notion of what we mean by ‘vague’ weak quantifier can be intuitively grasped by means of the following contrast:
(3) a. Mila ikasle etorri dira/*da
    thousand student come aux-pl/aux-sg
    ‘One thousand students came’

b. Milaka ikasle etorri dira/da
    thousand-suffix student come aux-pl/sg
    ‘Thousands and thousands of students came’

Whereas (3a), which involves a ‘definite’ quantity, triggers plural agreement in the inflected verb, (3b), which involves a non-definite quantity (equivalent to *thousands of* in English), only optionally triggers agreement. Cardinal quantifiers always trigger plural agreement in standard Basque. Vague quantificational expressions constructed out of them, on the other hand, may not.

This phenomenon is general in the Basque area, with some interesting and systematic dialectal variation that we will try to synthesize here. The present paper offers a descriptive account of the variation involved in optional number agreement in the Basque area, as well as some basic generalizations that provide syntactic cues for a unified analysis. A full syntactic explanation of the dialectal variation related to this phenomenon is beyond the scope of this paper. One solid conclusion that follows from our discussion is that non-agreeing quantificational expressions are not counting expressions, but rather expressions related to what Borer (2005) has called a “stuff divider”: a functional head whose semantic contribution is to portion out the denotation of count terms so that they can interact compositionally with the counting function. In that context, vague quantifiers merely measure the noun. Measures constitute the other quantificational domain in Basque that presents an agreement alternation in number.iii
We may wonder at this point what the agreement alternation is: is it an alternation between plural number features and singular ones? Or is the singular agreement form just a default, selected in the absence of any number feature? It is not easy to answer to this question by looking at the inflected forms directly. However, if we move to other syntactic contexts, the answer seems to favor the conclusion that third singular agreement, in the context of vague quantifiers in Basque, is just a default, with no correspondence with actual number features. One such context is provided by secondary predication, which requires agreement in number (see Artiagoitia, 1994). The example in (5) gives an illustrative example with a Small Clause complement.

(5) Liburuak hondatu(ak) ikusi ditut
    book-D.pl worn-out.pl seen aux.pl
    ‘I’ve seen (the) books worn-out’

The sentence (5) contains a Small Clause predicate hondatuak ‘worn-out’ which obligatorily agrees in number with the subject liburuak ‘books’. Now consider the contrast in (6).

(6) a. Liburu asko hondatuak ikusi ditut
    book many worn-out.pl seen aux.pl
‘I’ve seen many books worn-out’

b. *Liburu asko hondatua ikusi dut

book many worn-out.sg seen aux.sg

‘I’ve seen many books worn-out’

Whereas a vague quantifier that agrees in plural with the inflected verb licenses a secondary predicate with a plural suffix -k on it, a vague quantifier that does not agree in plural can not license singular agreement in the secondary predicate either. The conclusion seems to be that agreement in singular with the quantifiers that do not agree in plural with the verb is impossible, and that therefore, the relevant quantifier forms must lack number features, either plural or singular.\textsuperscript{iv} That the problem is in number agreement and not, say, in the ability of non-agreeing quantifiers to license a secondary predication is shown by the following fact: if we allow for a secondary predicate that does not have number, secondary predication with vague quantifiers becomes possible. One relevant configuration involves the [-ta] suffix, an adverbial ending that attaches to participles, which does not agree in number in Basque. When the participial substitutes for the [determiner+number] suffix, secondary predication with vague quantifiers becomes possible (7).

\begin{quote}
(7) Liburu asko hondatu-ta ikusi dut/ditut

book many worn-out.part seen aux.sg/aux.pl

‘I’ve seen many books worn-out’
\end{quote}

The paper is organized as follows: In section 2 we present the received analysis concerning the agreement alternation in Basque. Section 3 provides arguments against this view. Sections 4-7 show the properties of Basque non-agreeing quantifiers and their dialectal variation. We
distinguish three systems: (i) central, (ii) transition system (Lapurdian), (iii) eastern (Souletin). In section 8 we show the similarities between the non-use of the article in both Souletin and in some Romance languages. This section allows us to state a general syntactic condition on the non-agreeing cases. Section 9 concludes the paper.

2. A previous view: non-agreeing quantifiers are masses

The descriptive grammar of Euskaltzaindia (1985: 223-224) assimilates the absence of number agreement with weak quantifiers to the absence of number in mass terms. Take for instance the contrast in (8).

(8) a. Haragi asko jaten du
  meat much eat-hab aux.sg
  ‘He eats a lot of meat’

b. Haragi asko jaten ditu
  meat many eat-hab aux.pl
  ‘He eats many types of meat’

The presence of number agreement in (8b) triggers a count interpretation of the mass term haragi ‘meat’, which comes to denote a set of individualized meat types. The grammar of the Academy suggests that the absence of number agreement with count terms has the opposite effect: it converts count terms into mass terms. The grammar comments on the following sentences in (9).
According to the Academy’s grammar, (9a) and (9b) do not have the same interpretation: whereas “in the first case we consider a mass of books; in the other case we consider one book and then another one, and another one, and so on” (1985: 223). To make things clearer, the grammar presents the following case.

In (10a) harri ‘stone’ is taken to be non-count, as a big quantity of stone. In (10b) it refers to a big quantity of stones (as a count term). The Academy’s grammar does not go beyond the intuition above. Although we will not pursue this line of analysis, we share the intuition that (10b) offers more opportunities for an individualized treatment of the stone than (10a). For instance, (10b) would be more appropriate to describe a situation where demonstrators attack the police by throwing stones to them. This implies the existence of individualized pieces of
stone, and a multiplicity of stone-throwing events. (10a) on the other hand, would be more appropriate to describe loads of stone being dumped during some road construction. For argument's sake, if we were to reformulate the Academy’s proposal slightly, it could be stated as saying that number morphology coerces masses into counts (11), whereas absence of number morphology coerces count nouns into masses (12).

(11) Mass:
   a. Ardoa edan dut
      wine-D drunk aux
      ‘I drank wine’

   Plural count:
   b. Ardoak edan ditut
      wine-D-pl drunk aux-pl
      ‘I drank wines’

(12) Plural count:
   a. Ikasle asko ikusi ditut
      student many seen aux-pl
      ‘I have seen many students’

   Mass:
   b. Ikasle asko ikusi dut
      student many seen aux
      ‘I have seen much student’
3. Are non agreeing quantifiers mass?

It can be shown however that non-agreeing quantifiers are not mass terms. As a starting point, we consider Pelletier’s well known thought experiment (1975) to characterize mass terms. He proposes the existence of two imaginary machines, that he calls the Universal Grinder and the Universal Objectifier. For the Universal Grinder, we are to imagine a device which can grind anything, no matter how big or small. Into one end of the device “is inserted an object of which some count expression is true, and from the other end spews forth the finely-ground matter of which it is composed. So a hat is entered into the grinder and after a few minutes there is hat all over the floor” (from Pelletier and Schubert 1989:342). This is so despite the fact that we could also have said that there is felt all over the floor, using a mass expression. Examples of this type “show that many count expressions can be seen to already have within them a mass sense or a mass use” (ibidem: 343). Taking the word sagar ‘apple’ as our putative count term, we could take (13) to involve the mass coming out of the Universal Grinder.

(13) Entsaladak sagar pixkat dauka

salad-D-erg apple bit has

‘The salad has a bit of apple in it’

Take, however, something like (14), with a non-agreeing vague quantifier.

(14) Ikasle asko ikusi dut gaurko batzarrean

student a lot of seen I-have today’s meeting-D-in

‘I have seen a lot of students in today's meeting’
The sentence in (14), with a non-agreeing quantifier, does not involve a mass term, in Pelletier’s sense: what I have seen in (14) is not scattered pieces of student, but a number of students, all of them of a piece. True, the force of this argument against a mass-approach to non-agreeing quantifiers depends on the force of Pelletier’s metaphor to characterize mass terms as a whole. We know that in this sense, the metaphor is not comprehensive enough. Other mass terms appear to reflect objects that we would better locate in the entering side of the machine. This is the case of mass terms like furniture or crockery (Chierchia 1998): ground-up furniture and furniture do not mean the same, despite the mass status of the term. In any case, even with simple ambiguous nouns such as apple, the mass-approach falls short of accounting for the range of interpretations that non-agreeing cases have. Consider a sentence like (15).

(15) Plater honetan sagar asko ikusten dut

dish  this-in  apple many see  aux-sg

(i) ‘I see a lot of apple in this dish’
(ii) ‘I see a lot of apples in this dish’

As shown by the translations, non-agreeing quantifiers can be interpreted in two ways: either as mass terms, referring to a quantity of apple, or as referring to a plural set of (whole) apples. In other words: the sentence in (15) can be interpreted as making reference to, say, a dish containing a set of piled-up entire apples. The mass-approach has nothing to say about this second interpretation.

Other properties distinguishing mass terms from non-agreeing cases lead us to reject the mass approach to non-agreeing quantifiers. Lonning (1987) shows that masses cannot
entertain a predication relation with non-homogeneous predicates. Homogeneous predicates are those that are both cumulative and divisive. The examples in (16) involve a non-homogeneous predicate (to weigh more than 300 kilos). Whereas mass quantifications can not be the subject of the non-homogeneous predicate (16a), non-agreeing quantifiers with a count noun can (16b).

(16) a. *Ur askok 300 kilo baino gehiago pisatzen du
water a lot of 300 kilo than more weight-hab aux
‘*A lot of water weights more than 300 kilos’
b. Zaldi askok 300 kilo baino gehiago pisatzen du
horse a lot of 300 kilo than more weight-hab aux
‘A lot of horses weight more than 300 kilos’

Finally, we note that some of the quantifiers that give rise to the alternation just cannot quantify over mass terms. This is the case of zenbait ‘some’ and hainbat ‘a sizeable quantity’. (17) shows that even the non-agreeing cases do not support a mass interpretation.

(17) a. Zenbait ardo edan dugu
some wine drunk aux-sg
* ‘We drank some wine’
√ ‘We drank some wines’
b. Hainbat haragi ekarri dugu
some meat brought aux-sg
* ‘We brought some meat’
√ ‘We brought some meats’
Up until now, we have concentrated on showing the differences that exist between non-agreeing quantifiers and mass terms. In the sections that follow, we will mainly concentrate on the dialectal variation that non-agreeing quantifiers show, and making as thorough a description as possible of this variation. As will be made clear, there are at least three systems in Basque when it comes to the distribution of non-agreeing quantifiers: Central-western, Transitional (Lapurdian), and Eastern (Souletin).

4. Non-agreeing quantifiers: Central-western system

4.1. Syntactic distribution of non-agreeing quantifiers

In this system non-agreeing quantifiers can occur in all syntactic positions and in all grammatical functions: in subject (S) position, both with ergative or absolutive case (18a); in indirect object (IO) position, with dative case (18b); and in direct object (DO) position with absolutive case.

(18) a. Subject:

Erg.: Azkenean gazte asko-k altxatu behar izan zuen harria

finally young a lot of-erg lift must have aux-sg stone-D

‘Ultimately, many youngsters had to lift the stone’

Abs.: Ikasle asko etorri da festara

student a lot of come aux party-to

‘A lot of students came to the party’
b. Indirect object:

Dat.: Ugazabak langile asko-ri eskatu dio laguntza

boss-erg worker a lot of-dat ask aux-sg help

‘The boss asked a lot of workers to help’

c. Direct object:

Abs.: Mirenek liburu asko ikusi du liburutegian

Miren-erg book a lot of see aux library-in

‘Miren has seen a lot of books in the library’

4.2. The distributive nature of non-agreeing quantifiers

One of the characterizing properties of non-agreeing quantifiers (which further distinguishes them from mass terms) is their distributive nature (Etxepare 2000). They can only be interpreted distributively, and this sets certain restrictions on the kind of predicate they can attach to.

4.2.1. Distributive readings

Consider for instance the contrast between (19) and (20).

(19) Azkenean gazte askok altxatu behar izan zuten harria

finally young many-erg lifted must have aux-pl stone-D

‘Ultimately, many youngsters had to lift the stone’

✓ collective ✓ distributive
(20) Azkenean gazte askok altxatu behar izan zuten harria

finally young a lot of-erg lift must have aux-sg stone-D

‘Ultimately, many youngsters had to lift the stone’

* collective √ distributive

(19) involves an agreeing vague quantifier. This yields two possible readings for the predicate: a distributive one, where each of the youngsters lifts the stone, and a collective one, where the entire set of youngsters lifts the stone. (19) also allows intermediate readings, where the set of youngsters divides in small groups to lift the stone. The range of distributive readings in (19) is typical of count plural entities (see Krifka, 1992). Unlike (19), (20) only allows a strict distributive reading, where youngsters individually lift the stone, and several stone-liftings (as many as there are youngsters) occur.

4.2.2. Predicate classes

Non-agreeing quantifiers are incompatible with collective predicates (predicates that do not allow event distribution). The examples in (21)-(23) all contain a predicate that does not naturally allow atomic distribution (distribution down to the atomic entities making up a plurality). Whereas agreeing quantifiers can be combined with those predicates (a), non-agreeing ones cannot (b):

(21) a. Ikasle ohi askok festa horretan topo egin zuten

student ex many-erg party that-in meet done aux-pl

‘Many ex-students met at that party’
b. *Ikasle ohi askoko festa horretan topo egin zuen
   student ex a lot of-erg party that-in meet done aux-sg
   ‘A lot of ex-students met at that party’

(22) a. Lantegian, langile asko batzartu dira
    factory-in worker many met are
    ‘At the factory, many workers had a meeting’

b. *Lantegian, langile asko batzartu da
    factory-in worker a lot of met is
    ‘At the factory a lot of workers had a meeting’

(23) a. Jonek liburu asko ordenatu ditu
    Jon-erg book many arranged aux-pl
    ‘Jon arranged many books’

b. *Jonek liburu asko ordenatu du
    Jon-erg book a lot of arranged aux-sg
    ‘Jon arranged a lot of books’

Having a meeting or arranging books in a certain order denote relations that require more than one individual and give rise to collective readings. Predicates that denote such a relation are incompatible with non-agreeing quantifiers.

4.2.3. Reciprocals

Non-agreeing quantifiers, unlike agreeing ones, are incompatible with reciprocals:
We adopt Heim, Lasnik & May's (1991) analysis of reciprocals: in their view, reciprocals are complex quantificational expressions containing a distributive quantifier. This distributive quantifier is overt in some languages (cf. English *each other*). But if reciprocals possess a tacit distributive operator themselves, then the incompatibility between non-agreeing quantifiers and reciprocals can be easily explained: the distributive operator requires a plural set to operate on, one that can be broken into individual atoms. But if non-agreeing quantifiers are themselves distributive, there is no plural set to operate on. The incompatibility between reciprocals and non-agreeing quantifiers is thus a subcase of ‘vacuous quantification’. The effect is analogous to (29), with a strong distributive quantifier:
(26) *Ikasle bakoitzak elkar ikusi du

student each-erg reciprocal seen aux.sg

‘*Each student has seen each other’

4.3. Enumeration and anaphora

Another difference between agreeing and non-agreeing quantifiers is that the latter cannot make reference to specific individuals. Thus, non-agreeing quantifiers cannot be antecedent to anaphoras, in opposition to what happens with agreeing quantifiers, as the examples in (27) show.

(27) a. Bezero asko sartu dira gaur. _i ez dira oso pozik atera.
customer many come aux today neg aux very happy leave

‘Many customers came today. They didn’t leave very happy’

b. *Bezero asko sartu da gaur. _i ez da oso pozik atera.
customer a lot of come aux today neg aux very happy leave

‘A lot of customers came today. They didn’t leave very happy’

In (27a), we see that agreeing Basque quantifiers allow the enumeration of individuals, i.e. it is possible to make reference to the members of the set we are talking about. The enumeration of individuals denoted by the NP combined with non-agreeing quantifiers is not possible, (27b).

(28) a. Jonek ikasle asko ikusi ditu: Jon, Mikel, Pello, Martxel…
Jonek each student many see aux
‘Jon has seen many students: Jon, Mikel, Pello, Martxel…’

b. *Jonek ikasle asko ikusi du: Jon, Mikel, Pello, Martxel…

Jon-erg student a lot of see aux

‘Jon has seen a lot of students: Jon, Mikel, Pello, Martxel…’

5. Transition system: Lapurdian

5.1. Syntactic distribution of non-agreeing quantifiers

The transition system shows some differences compared to the Central-western system when it comes to the distribution of non-agreeing quantifiers. In the Central-western system non-agreeing quantifiers are grammatical in all grammatical functions, whereas in the Transition system this is not so: non-agreeing quantifiers can appear in S position, but only with absolutive case (29a), they don’t accept to appear with the ergative case (29b); they can appear in IO position, with dative case (29c); and they can also appear in DO position with absolutive case (29d). Thus, non-agreeing quantifiers appear to be unable to appear with the ergative case.

(29) a. Subject:

Erg.: *Azkenean gazte anitzek altxatu behar izan zuen harria
finally young many-erg lift must have aux-sg stone-D

‘Ultimately, many youngsters had to lift the stone’

Abs.: Ikasle anitz jin da festara
student many come aux party-to
‘A lot of students came to the party’

b. Indirect object:

Dat.: Ugazabak **langile anitzi** eskatu dio laguntza

boss-erg worker many-dat ask aux-sg help

‘The boss asked a lot of workers to help’

c. Direct object:

Abs.: Mirenek **liburu anitz ikusi du liburutegian**

Miren-erg book many see aux library-in

‘Miren has seen a lot of books in the library’

5.1. The distributive nature of non-agreeing quantifiers

5.1.1. Distributive vs. collective readings

Since non-agreeing quantifiers cannot take ergative case in this system (cf. (30a)), it is difficult to establish their distributive nature with the full set of tests we used in the previous cases. Take (30) and (31):

(30) Azkenean gazte anitzek altxatu behar izan zuten harria

finally young many-erg lift must have aux-pl stone-D

‘Ultimately, many youngsters had to lift the stone’

√ collective √ distributive

(31) *Azkenean gazte anitzek altxatu behar izan zuen harria

finally young many-erg lift must have aux-sg stone-D
‘Ultimately, many youngsters had to lift the stone’

* collective * distributive

The sentence in (30), with a agreeing weak quantifier in subject position, can obtain two interpretations, a collective one and a distributive one (just as was the case in the Central-western system). Now, the fact that non-agreeing quantifiers do not accept ergative case makes it impossible to conclude whether there are any differences in this respect between the Central-western and the Transitional system. However, the next two subsections make it clear that non-agreeing quantifiers in the transition system are also distributive.

5.1.2. Predicate classes

If non-agreeing quantifiers are really distributive, they will give an ungrammatical result when combined with collective predicates. The prediction, as shown by the examples (32-34), is borne out. Agreeing quantifiers on the other hand have no problem to combine with this kind of predicates.

(32)a. Lantegian, langile anitz bildu dira
   factory-in worker many met aux.pl
   ‘At the factory, many workers had a meeting’

b. ?*Lantegian, langile anitz bildu da
   factory-in worker many met aux.sg
   ‘At the factory, a lot of workers had a meeting’
(33) a. Jonek liburu anitz ordenatu ditu
   Jon-erg book many arranged aux.pl
   ‘Jon arranged many books’

b. ??Jonek liburu anitz ordenatu du
   Jon-erg book many arranged aux.sg
   ‘Jon arranged a lot of books’

(34) a. Mikelek ikasle anitz ikusi dita talde bakar bat osatzen
   Mikel-erg student many see aux.pl group single one forming
   ‘Mikel has seen many students forming a single group’

b. *Mikelek ikasle anitz ikusi du talde bakar bat osatzen
   Mikel-erg student many see aux.sg group single one forming
   ‘Mikel has seen many students forming a single group’

5.1.3. Reciprocals

Reciprocals come to show exactly the same thing, that is, non-agreeing quantifiers have a distributive nature in this system. As was the case in the Central-western system, non-agreeing quantifiers are incompatible with reciprocals, as the ungrammaticality of (35b) shows.

(35) a. Gazte anitz joaten dira elkarrekin (ostatu horretara)
   youngster many go aux.pl together restaurant that-to
   ‘Many youngsters go together (to that restaurant)’

b. *Gazte anitz joaten da elkarrekin (ostatu horretara)
‘Many youngsters go together (to that restaurant)’

5.2. Enumeration and anaphora

As expected, in the transition system non-agreeing quantifiers cannot make reference to specific individuals. As a consequence, non-agreeing quantifiers cannot be antecedent to anaphors (36b) and they don’t allow the enumeration of individuals, i.e. it is possible to make reference to the members of the set we are talking about, (37b).

(36) a. Bezero anitzi sartu dira gaur. _i ez dira oso pozik atera
customer many come aux.pl today neg aux.pl very happy leave
‘Many customers came today. They didn’t leave very happy’
b. *Bezero anitzi sartu da gaur. _i ez da oso pozik atera
customer many come aux.sg today neg aux.sg very happy leave
‘Many customers came today. They didn’t leave very happy’

(37) a. Jonek ikasle anitz ikusi ditu: Jon, Mikel, Pello, Martxel…
Jon-erg student many see aux.pl
‘Jon has seen many students: Jon, Mikel, Pello, Martxel…’
b. *Jonek ikasle anitz ikusi du: Jon, Mikel, Pello, Martxel…
Jon-erg student many see aux.sg
‘Jon has seen many students: Jon, Mikel, Pello, Martxel…’
Thus, the main difference between the Central-western and the Transition system is related to the possibility of non-agreeing quantifiers to appear with the ergative case. Non-agreeing quantifiers in the former system have no problem to appear with ergative case whereas in the latter system, non-agreeing quantifiers cannot take ergative case.


6.1. Syntactic distribution of non-agreeing quantifiers

For the third system, we follow the description provided by Coyos (1999) for the dialect of Arbailles. In this system, as was the case in the Transition system, non-agreeing quantifiers cannot appear in all grammatical functions. They can appear in S position, but only with absolutive case (39a), not with ergative case (38a). They cannot appear in IO position, with dative case (40). A quote by Coyos is in order here: “N avec le datif et déterminé par un quantificateur indéfini: si l’indice de datif est present dans le syntagme verbal, ce sera celui avec le pluriel”. Finally, non-agreeing quantifiers have no problem to appear in DO position; in fact, the non-agreeing case is more commonly used than the agreeing one (41).vi

(38) Subject:

Erg.: a. *Auzo anitzek jan du
       neighbour many-erg eat aux.sg

b. Auzo anitzek jan dute
       neighbour many-erg eat aux.pl
‘Many neighbours have eaten’

(39) Subject:

Abs.: a. *Auzo anitz jin da
neighbour many come aux.sg
‘Many neighbours came’

b. *Auzo anitz jin dira
neighbour many come aux.pl
‘Many neighbours came’

(40) Indirect object:

Dat. a. Ugazabak langile anitzi eskatu die laguntza
boss-erg worker many-dat ask aux-pl help
‘The boss asked many workers to help’

b. *Ugazabak langile anitzi eskatu dio laguntza
boss-erg worker many-dat ask aux-sg help
‘The boss asked many workers to help’

(41) Direct object:

Abs.: Mirenek arrultze anitz jan du
Miren-erg egg many eat aux.sg
‘Miren has eaten many eggs’

As expected, the absolutive non-agreeing vague quantifier is incompatible with the presence of a reciprocal modifier:

(42) *Ikasle ainitz jin da elgarrekin
Student many come is each-other-with
“Many students came together”

And it does not license enumeration:

(43)  *Anek pottiko zumait nahi dizü ezagutu: Jon, Peru eta Mikel

Ane-erg boy some want aux.sg know Jon, Peru and Mikel

“Ane want to meet some boys: Jon, Peru and Mikel”

7. Non-agreeing quantifiers in the three systems: summary

In the table in (44) we offer a summary of the behaviour of non-agreeing weak quantifiers and non-agreeing cardinal quantifiers in the different dialectal areas.

(44)  Non-agreeing quantifiers and cardinal numerals

<table>
<thead>
<tr>
<th></th>
<th>Central-Western</th>
<th>Transitional</th>
<th>Souletin</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
</tr>
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<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Non-agreeing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>quantifiers</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>ERG</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAT</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
As shown by the table, the possibility of optionally agreeing with a vague quantifiers progressively reduces as we go from central dialects to the eastern ones. The central dialects allow optional number agreement with vague quantifiers in all cases: ergative, dative and absolutive. The transition system, Lapurdian, allows optional agreement with dative and absolutive vague quantifiers. Finally, the easternmost variety called Souletin, only allows optional number agreement with absolutive vague quantifiers.

8. The distribution of the article

8.1. Souletin

The absolutive restriction shown by the non-agreeing weak quantifiers in Souletin resembles the syntactic distribution shown by Souletin bare nouns (BNs). BNs, i.e. nouns with no article or quantifier, are possible in Souletin, but only in DO position.\textsuperscript{vii}

(45) a. Bortüan ikusi dut \textbf{behi, ardi eta mando} (Coyos 1999: 232)

\begin{tabular}{lll}
\textit{mountain-in} & \textit{see} & \textit{aux.sg cow sheep and mule} \\
\end{tabular}

‘I have seen cows, sheeps, and mules in the mountain’

b. Marik librü emaiten dizü haurrer (\textit{Basyque}, informant from Urdiñarbe, Soule)

\begin{tabular}{lll}
\textit{Mari-erg book give.hab aux.sg child-dat} \\
\end{tabular}

“Mari gives books to children”

c. \textbf{Sagar} ebatsi dü (Manterola 2006)
apple   steal   aux.sg
‘S/he has stolen apples’

These BNs get the so-called existential (Carlson 1977) interpretation. That is, in the examples in (45) we are talking neither about a specific set of apples, cows, sheeps, and mules, nor a specific quantity of money. In order to get the specific reading Souletin speakers make use of the definite article [–ak]. So it seems that BNs in Souletin are interpreted as plurals: the set of elements denoted by the nouns in the examples in (44) must contain more than a single element.

BNs, as we mentioned above, are allowed neither in ergative subjects nor in IO position as the examples in (46-47) clearly demonstrate.

(46) Subject:
Erg. a. *Ikaslek egin du hori
   student-erg do aux.sg that
   ‘The students did that’
b. Ikasleek egin dute hori
   student-D.pl-erg do aux.pl that

(47) Indirect Object:
a. *Ikasleri eman diot liburu
   student-dat give aux.sg book
b. Ikasleei eman diet liburu
   student-D.pl-dat give aux.pl book
   ‘I gave the student books’
8.2. Rest of dialects

The rest of Basque dialects do not accept BNs and the presence of the article is necessary if the sentence is going to be grammatical (cf. Laka 1993, Artiagoitia 1997, 2002).

(48) a. *Mendian ikusi ditut behi, ardi eta mando

   mountain-in see aux.pl cow sheep and mule

b. Mendian ikusi ditut behiak, ardiak eta mandoak

   mountain-in see aux.pl cow-D.pl sheep-D.pl and mule-D.pl

   ‘I have seen cows, sheeps, and mules in the mountain’

(49) a. *Ricardok ardo edan du bazkaltzeko

   Ricardo-erg wine drink aux.sg lunch-for

b. Ricardok ardoa edan du bazkaltzeko

   Ricardo-erg wine-D.sg drink aux.sg lunch-for

   ‘Ricardo drank wine for lunch’

In these dialects (i.e. Central-western and Transitional), the [DO+D] sequences in the examples in (48b) and (49b) can get two interpretations: (i) specific (equivalent to the reading we get by using French les, Spanish los or English the); (ii) existential (talking about a non-specific set or quantity; see section 8.3)

8.3. Romance languages
The distribution of Souletin BNs reminds us of the distribution of bare nouns in Romance languages (some of them, at least). In Spanish, for example, BNs are only possible in DO position (50a,b,c) – or in postverbal S position, (49d) –; cf. Bosque (1996) for a complete description of BNs in Spanish.

(50) a. Juan ha comido patatas
   ‘Juan has eaten potatoes’

   b. Pedro ha visto leones
   ‘Pedro has seen lions’

   c. Mikel ha bebido café
   ‘Mikel has drunk coffee’

   d. Llegaron estudiantes
   ‘Students arrived’

The BNs in (50) can only get the so-called existential interpretation, as was the case in Souletin.

Now, in subjects of transitive predicates and subjects not allowing an existential reading, the presence of the determiner is necessary for the sentence to be grammatical.\textsuperscript{ix}

(51) a. *(Los) estudiantes han comido patatas
   the.pl students aux eaten potatoes
   ‘The students has eaten potatoes’

   b. *(Los) dinosaurios están extintos
   the.pl dinosaurs are extinct
‘Dinosaurs are extinct’

c. *(Las) girafas son altas

the.pl giraffes are tall

‘Giraffes are tall’

8.4. Number marking: Spanish vs. Souletin

Despite similarities, there’s a significant difference between BNs in Souletin and in Romance languages: number marking. Spanish BNs must necessarily appear with the plural marker [-s] (52), whereas Souletin BNs are real BNs with no marker at all (53).

(52) Spanish BNs:

patata-s, leone-s, estudiante-s…

potato-s, lion-s, student-s

(53) Souletin BNs:

behi, ardi, mando…

cow, sheep, mule

However, the absence of number marking in Souletin BNs does not eliminate their plurality (cf. (45)). At this stage, a question that comes to our mind is the following: do Souletin BNs possess a non-overt plural marker? In Basque, the overt number marker is [-k]. The presence of this overt number marker is closely related to the presence of the definite article [-a] (cf. Etxeberria 2005, 2011, in prep). Etxeberria & Etxepare (2008, 2009, in prep), on the other hand, propose (in line with Borer 2005) that number is represented by two distinct syntactic positions in nominal expressions: by means of a number head ([−k] in
Basque) and by means of a classifier head which portions-out count BNs to make them countable in order to interact with the counting function. In Central and Western dialects, this covert function is only available when a vague quantifier is present. In Souletin, it would seem that this covert function can apply directly on the noun. This classifier does not have phonological realization, but it is able to pluralize BNs in this dialect. Note that non-agreeing weak quantifiers show exactly the same syntactic distribution as BNs. We leave the relationship between these two phenomena for future research (cf. Etxeberria & Etxepare, in prep).

9. Conclusions

Basque weak quantifiers display a number agreement alternation with the inflected verb. This paper has investigated the dialectal variation of this phenomenon in Basque. We have seen that at least three different systems must be distinguished: central-western, transitional (Lapurdian), and eastern (Souletin). The paper has centered on the following grammatical issues and their geographical distribution: (i) syntactic contexts where the absence of agreement is allowed: in the central-western variety non-agreeing quantifiers can appear in all grammatical functions; the transitional system does not allow non-agreeing quantifiers with ergative case; and the eastern system only allows non-agreeing quantifiers in DO position; and (ii) the parallel distribution of non-agreeing quantifiers and bare nouns in Souletin: Souletin, and only Souletin, allows BNs in Basque, and the syntactic distribution of these BNs is parallel to the one shown by non-agreeing cardinal quantifiers.

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References


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in prep. *Nominal expressions in Basque*. Ms. IKER-CNRS.


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The reader is referred to Artiagoitia (2000, to appear), or Etxeberria (2005, 2010, in prep) for possible analyses of the various readings the Basque definite article can force.

The phenomenon extends to all arguments of the verb: transitive subjects (ergative case), indirect objects (dative case), and direct objects (absolutive case); cf. section 6.3 for examples.


Despite the fact that non-agreeing quantifiers lack number features and show no agreement with the verbal predicate (i.e. the inflected verb shows default third person singular agreement), we will continue using ‘aux-sg’ in the glosses for ease of exposition.

Elkarrekin is transparently formed out of the reciprocal elkar “each other” and the comitative declension suffix –kin “with”.

These sentences are created by us, based on the description provided by Coyos (1999).

We will not consider the predicative use of the Basque article in this paper (cf. Eguren 2006, to appear, Etxeberria in prep).


See Bosque (1996: 73).

Following Chierchia (1998) we assume that masses are plurals.