

Feature: Input page for “any” measure

1 Overview

This feature enables a user (a Living Lab (LL) participant) to input a value for “any” measure of the data collection list. Any is in quotation marks as for now, the focus is on implementing one measure per measure type. This is thought as being the way of inputting the data that always works, but to be more convenient, alternatives ways to input (i.e. enable several measures to be input at the same time) are also going to be provided. The idea is that once this is implemented for all the measures from the list, it is possible to start the data collection in the portal.

2 Terminology

This section gathers the definition of terms which are used in this document.

3 Measure types

The measures for which data can be uploaded can be divided into five types. A list of all the measures and their types can be found in Section 6. In this section, an overview of each type is given.

3.1 Type A

A measure of type A is a measure where one measurement is input, which should be in a predetermined unit. The unit showed should vary based on the measure selected but not modifiable by the user. E.g. water harvested in liters.

3.1.1 Subtype A-1

A measure of type A where the unit depends on the measure selected and on the location selected. E.g. price of pesticide in € or RON.

3.1.2 Subtype A-2

A measure of type A where there is no unit. E.g. number of gardens actively used.

3.2 Type B

A measure of type B is a measure where measurements are input for different subcategories. The subcategories are selected by the user in a predefined list. The number of subcategories selected can vary. Each measurement has a predetermined

unit (the same for all subcategories). E.g. vegetables produced in kilograms, per vegetable: kg of tomatoes, kg of onions.

3.2.1 Subtype B-2

A measure of type B where there is no unit. E.g. population per group: number of men, number of women.

3.3 Type C

A measure of type C is a list of items that the user can input. All the items are input separately and the number of items can vary. E.g. tools used.

3.3.1 Subtype C-1

A measure of type C where each item to be input has a predetermined unit depending on the measure selected and the location. E.g. price of equipment used.

3.4 Type D

A measure of type D is input using a scale. The scale is predetermined based on the measure.

3.5 Type E

A measure of type E is connected to an event. The user can either select the connected event in a list or create a new one.

4 Visual description

You first need to log in to access the page (not shown).

The page has two parts: a generic one, which is the same for all the measures and a specific one, depending on which measure is selected. This is shown in Figure 1.

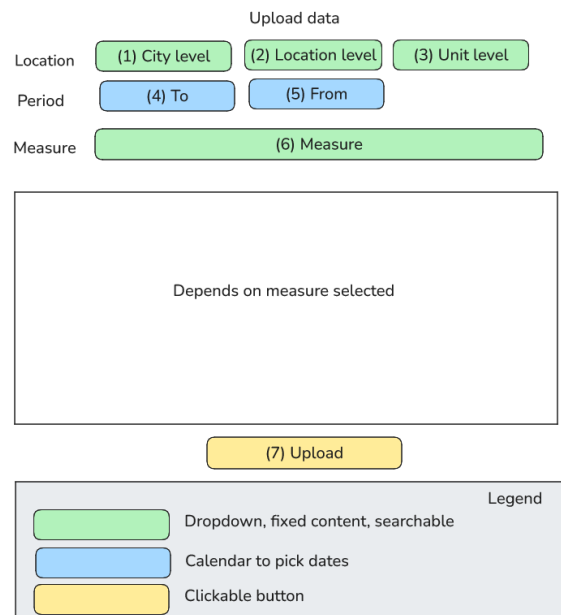


Figure 1 Overview of the input page.

The numbers in the figure are used for referencing. Details about the requirements for the different items can be found in Section 0. The measures can be of five different types as described in Section 3. The rectangle around the specific part should not be a part of the actual design, it is only to indicate on the picture the separation between the generic and the specific type.

4.1 Specific parts

The next figures shows how the specific parts should look like for all types and subtypes. The rectangles which may appear within the specific part rectangles can be a part of the design if deemed visually appropriate.

4.1.1 Type A

The visualization for measure type A is shown in Figure 2. For sub-type A-2, the “unit” part is removed.

4.1.2 Type B

The visualization for measure type B is shown in Figure 3. For sub-type B-2, the “unit” part is removed.

4.1.3 Type C

The visualization for measure type C is shown in Figure 5. Note: I realized that for e.g. MC9-2, there is a need to have two fields: one for the description of the item (text) and one for its cost (numerical).

4.1.4 Type D

The visualization for measure type D is shown in Figure 4.

4.1.5 Type E

The visualization for measure type E is shown in Figure 6.

Figure 2 Overview of the input for type A.

Figure 2 illustrates the input form for type A. The form is organized into several sections:

- Location:** Three green buttons labeled (1) City level, (2) Location level, and (3) Unit level.
- Period:** Two blue buttons labeled (4) To and (5) From.
- Measure:** A single green button labeled (6) Measure.
- Main Input Area:** A large container with a text field for "Optional explanatory text". Below this, there is a row of elements: a purple oval labeled (10) Subcategory, a green button labeled (11), the text "Value", a red button labeled (12), and a purple oval labeled (9) Unit. Below this row is a yellow button labeled (13) Add.
- Upload Section:** A yellow button labeled (7) Upload.
- Legend:** A section titled "Legend" with four entries:
 - Green button: Dropdown, fixed content, searchable
 - Blue button: Calendar to pick dates
 - Yellow button: Clickable button
 - Red button: Numerical input field
 - Purple oval: Non user-modifiable text depending on input

Figure 3 Overview of the input for type B.

Upload data

Location

(1) City level

(2) Location level

(3) Unit level

Period

(4) To

(5) From

Measure

(6) Measure

Value

(8)

(9)Unit

(7) Upload

Legend

Dropdown, fixed content, searchable

Calendar to pick dates

Clickable button

Numerical input field

Non user-modifiable text depending on input

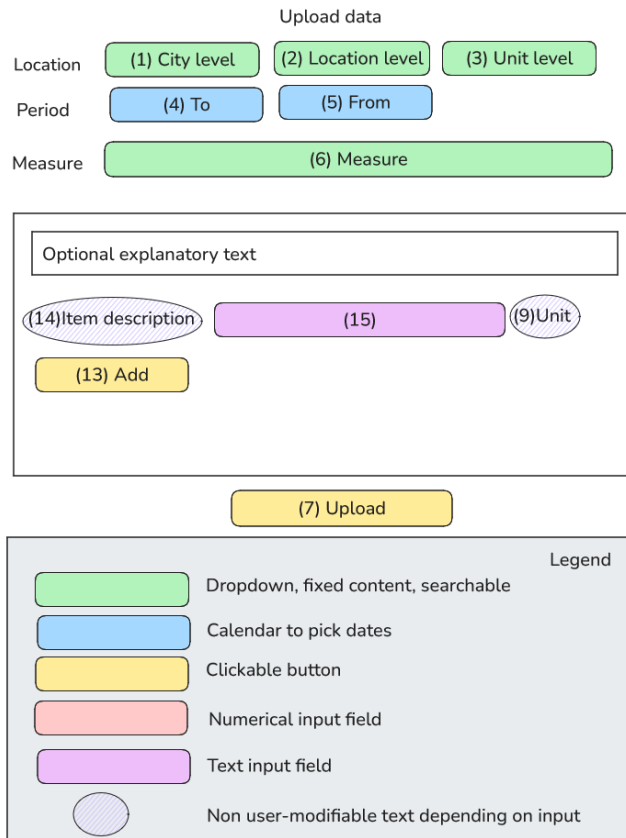


Figure 5 Overview of the input for type C.

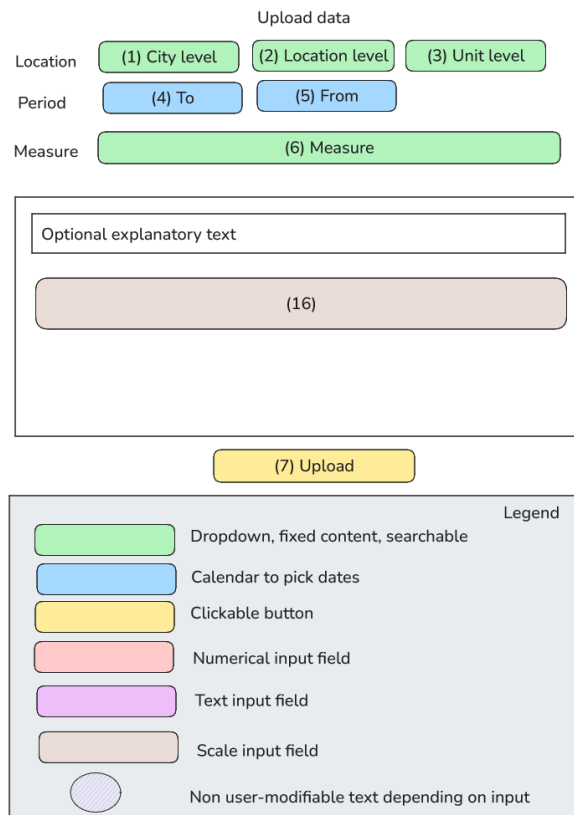


Figure 4 Overview of the input for type D.

Upload data

Location (1) City level (2) Location level (3) Unit level

Period (4) To (5) From

Measure (6) Measure

Optional explanatory text

Add for existing event (17)

Or create a new event: Name (18) Type (19)

Value (20)

(7) Upload

Legend

Dropdown, fixed content, searchable

Calendar to pick dates

Clickable button

Numerical input field

Text input field

Scale input field

Non user-modifiable text depending on input

Figure 6 Overview of the input for type E.

5 Requirements

This section details how the different items shown in Section 4 should work.

5.1 Generic part

The authorized values are found in Table 2 and Table 3. The supported column can be used to mark the current status of the development. The requirements in italic are stretch requirements which are not necessary for the first version of the feature.

Table 1 Requirements for the generic part

| ID | Requirements | Supported |
|-----|---|--------------------------|
| (1) | Dropdown list with values from authorized values | <input type="checkbox"/> |
| | Searchable | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |
| | <i>Default value is based on the user profile</i> | <input type="checkbox"/> |
| (2) | Dropdown list with values from authorized values | <input type="checkbox"/> |
| | Authorized values depend on the choice of (1) | <input type="checkbox"/> |
| | Searchable | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |
| | Can only be selected after a choice is made for (1) | <input type="checkbox"/> |
| (3) | Dropdown list with values from authorized values | <input type="checkbox"/> |

| | | |
|-----|--|--------------------------|
| | Authorized values depend on the choice of (2) | <input type="checkbox"/> |
| | The list shows the ID and the name of the measure | <input type="checkbox"/> |
| | Searchable | <input type="checkbox"/> |
| | Optional field | <input type="checkbox"/> |
| | Can only be selected after a choice is made for (1) and (2) | <input type="checkbox"/> |
| (4) | Calendar to pick dates | <input type="checkbox"/> |
| | Cannot pick a date in the future | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |
| (5) | Calendar to pick dates | <input type="checkbox"/> |
| | Cannot pick a date in the future | <input type="checkbox"/> |
| | Cannot pick a date inferior to (4), equal is ok | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |
| (6) | Dropdown list with values from authorized values | <input type="checkbox"/> |
| | Searchable | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |
| (7) | Clickable button | <input type="checkbox"/> |
| | Insert the data into the database | <input type="checkbox"/> |
| | Triggers a confirmation notification that the data has been upload or an error message if it is not the case | <input type="checkbox"/> |

Table 2 Authorized values for (1), (2), and (3).

| (1) City level | (2) Location level | (3) Unit level |
|-----------------------|--------------------|----------------|
| City1 | Holding 1 | |
| | Holding 2 | |
| | Holding 3 | |
| City2 | Location A | Plot 1 |
| | | Plot 2 |
| | Location B | Plot 1 |
| | | Plot 2 |
| City3 | Municipality | |
| | Second garden | |
| Halfhill ¹ | West | Plot 1 |
| | | Plot 2 |
| | East | Plot 1 |
| | | Plot 2 |

Table 3 Authorized values for (6).

| Type | ID | Measure name |
|------|--------|---|
| A | MC6 | Irrigation water use |
| A-1 | MCC5-1 | Price of chemical fertilizer/pesticide used |
| A-2 | MC13 | Gardens/holdings in use |

¹ Fake city for testing purposes

| | | |
|-----|--------|---|
| B | MC1 | Production per product |
| B-2 | MC12-1 | Total population per underrepresented group |
| C | MCC12 | Tasks performed by persons working in the gardens |
| C-1 | MC9-2 | Purchase-costs (and description of what is purchased) |
| D | MCC15 | Self-reported health |
| E | MC22 | Participants in an event/workshop (per event) |

5.2 Specific part

One measure of each type and subtype is selected to be implemented as a part of this feature. The idea is that the other measures from the same type/subtype should be straightforward to implement based on this first measure. The list of all the selected measures is shown in Table 3. There is no id for the optional explanatory text (this is a miss) but it should work in a similar way to the “Unit” text, i.e. changing to a fixed value based on the selected measure.

5.2.1 Type A

Table 4 Requirements for the specific part - type A.

| ID | Requirements | Supported |
|-----|---|--------------------------|
| (8) | Numerical input field | <input type="checkbox"/> |
| | In the code: Possible to choose how many decimals are allowed (default 2) | <input type="checkbox"/> |
| | Decimal separator is safely handled | <input type="checkbox"/> |
| | Can type in or select (up/down) | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |
| (9) | Text changes based on measure selected (and location for A-1 measures) | <input type="checkbox"/> |
| | Required to be visible except for A-2 measures (then empty) | <input type="checkbox"/> |

5.2.2 Type B

Table 5 Requirements for the specific part - type B.

| ID | Requirements | Supported |
|------|--|--------------------------|
| (10) | Text describing what the subcategory is. Fixed based on the selected measure | <input type="checkbox"/> |
| (11) | Dropdown list with values from authorized values | <input type="checkbox"/> |
| | Searchable | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |
| (12) | Numerical input field | <input type="checkbox"/> |
| | In the code: Possible to choose how many decimals are allowed (default 2) | <input type="checkbox"/> |
| | Decimal separator is safely handled | <input type="checkbox"/> |
| | Can type in or select (up/down) | <input type="checkbox"/> |

| | | |
|------|---|--------------------------|
| | Required field | <input type="checkbox"/> |
| (13) | Clickable button to insert a new line as the above one | <input type="checkbox"/> |
| | If a new line is added but nothing is inserted in it, ignore it for the data upload | <input type="checkbox"/> |
| (9) | Text changes based on measure selected (and location for A-1 measures) | <input type="checkbox"/> |
| | Required to be visible except for A-2 measures (then empty) | <input type="checkbox"/> |

5.2.3 Type C

Table 6 Requirements for the specific part - type C.

| ID | Requirements | Supported |
|------|---|--------------------------|
| (14) | Text describing what the item is. Fixed based on the selected measure | <input type="checkbox"/> |
| (15) | Text input field | <input type="checkbox"/> |
| | Max number of characters is 200 | <input type="checkbox"/> |
| | Supports Greek and special characters | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |
| (13) | Clickable button to insert a new line as the above one | <input type="checkbox"/> |
| | If a new line is added but nothing is inserted in it, ignore it for the data upload | <input type="checkbox"/> |
| (9) | Text changes based on measure selected (and location for A-1 measures) | <input type="checkbox"/> |
| | Required to be visible except for A-2 measures (then empty) | <input type="checkbox"/> |

Note: All the text fields should be able to support Greek and special characters to enable local languages to be used.

5.2.4 Type D

Table 7 Requirements for the specific part - type D.

| ID | Requirements | Supported |
|------|--|--------------------------|
| (16) | Scale input. The scale is depending on the selected measure. | <input type="checkbox"/> |
| | Textual explanation accompanying the steps of the scale | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |

5.2.5 Type E

Table 8 Requirements for the specific part - type E.

| ID | Requirements | Supported |
|------|--|--------------------------|
| (17) | Dropdown list with values from authorized values (existing events) | <input type="checkbox"/> |
| | Searchable | <input type="checkbox"/> |
| (18) | Text input field | <input type="checkbox"/> |
| | Max number of characters is 200 | <input type="checkbox"/> |
| | Supports Greek and special characters | <input type="checkbox"/> |

| | | |
|------|--|--------------------------|
| (19) | Dropdown list with values from authorized values (existing events) | <input type="checkbox"/> |
| | Searchable | <input type="checkbox"/> |
| | Either (17) or (18) and (19) is required | <input type="checkbox"/> |
| (20) | Numerical input field | <input type="checkbox"/> |
| | No decimals are allowed | <input type="checkbox"/> |
| | Decimal separator is safely handled | <input type="checkbox"/> |
| | Can type in or select (up/down) | <input type="checkbox"/> |
| | Required field | <input type="checkbox"/> |

6 Appendix - Data collection list

Note: this is the current working version to give an idea about the complete list of measures.

The list is split in four: the common measures (first table), the specific ones, only relevant to some LLs (second table), the control measures (third table), and the reference measures (fourth table).

| ID | Measure | Unit | Measure type |
|--------|--|--------------|--------------|
| MC1 | Production per product type (and corresponding number of plants) | Kilogram | B |
| MC1-1 | Production per native species product type | Kilogram | B |
| MC1-2 | Production per native species seedlings | Kilogram | B |
| MC2 | Quantity sold per product (and location of sale) | Kilogram | B |
| MC3 | Location of sale | Text | B |
| MC4 | Price per product | €/RON per kg | B-1 |
| MC5-1 | Quantity of chemical fertilizer/pesticide used (per fertilizer type) | Kilogram | B |
| MC6 | Irrigation water use | Liter | A |
| MC7 | Followers on social media (per media) | Number | A-2 |
| MC8 | Visitors on website | Number | A-2 |
| MC9-1 | Workforce-costs | €/RON | A-1 |
| MC9-2 | Purchase-costs and description of what is purchased) | €/RON | B-1 |
| MC9-3 | Other costs | €/RON | A-1 |
| MC10-1 | Feed4Food Funding | €/RON | A-1 |
| MC10-2 | Other funding (and for what) | €/RON | B-1 |
| MC11-1 | Production sales | €/RON | A-1 |
| MC11-2 | Sales in restaurant | €/RON | A-1 |
| MC11-3 | Revenues from events/workshops/workshop | €/RON | A-1 |
| MC11-4 | Other revenues from off-farm activities | €/RON | A-1 |
| MC12 | Total population | Number | A-2 |

| | | | |
|----------|---|---------------|-----|
| MC12-1 | Total population per underrepresented group | Number | A-2 |
| MC12-2 | Total local population | Number | A-2 |
| MC13 | Gardens/holdings in use | Number | A-2 |
| MC14 | Persons working in the gardens/holdings | Number | A-2 |
| MC14-1 | Persons from an underrepresented/vulnerable group working the gardens (per group) | Number | A-2 |
| MC15 | Persons employed to work in the gardens | Number | A-2 |
| MC15-1 | Persons from an underrepresented/vulnerable group employed to work in the gardens (per group) | Number | A-2 |
| MC16-A | Distance from house | Kilometre | A |
| MC16-B | Distance from house | Minutes | A |
| MC17 | Means of transportation from house | List | C |
| MC18-A | Surface actively cultivated per product | Square meters | A |
| MC18-A-1 | Native species surface | Square meters | A |
| MC18-B | Plants(=pied) actively cultivated per product | Number | A-2 |
| MC18-B-1 | Native species plants | Number | A-2 |
| MC19 | Articles in newspapers | Number | A-2 |
| MC19-1 | Articles in newspapers – Native species | Number | A-2 |
| MC20 | Revenue per event | €/RON | E |
| MC21 | Workshop/Event evaluation by the participants | Scale | E |
| MC21-2 | Training workshop evaluation by the participants | Scale | E |
| MC21-2-1 | Training workshop evaluation by the participants from an underrepresented group | Scale | E |
| MC22 | Participants in an event/workshop | Number | E |
| MC22-1 | Participants from an underrepresented group in an event/workshop | Number | E |

| | | | |
|----------|--|--------|-----|
| MC22-2 | Participants in a training workshop | Number | E |
| MC22-2-1 | Participants from an underrepresented group in a training workshop | Number | E |
| MC22-3 | Participants in a native species event | Number | E |
| MC22-3-1 | Participants from an underrepresented group in a native species event | Number | E |
| MC23 | Participants passing the test at the end of training workshop | Number | E |
| MC23-1 | Participants (from an underrepresented group) passing the test at the end of training workshop | Number | E |
| MC24 | Views/impressions to an event/post (7 days after post) | Number | A-2 |
| MC24-1 | Views/impressions to an event/post (7 days after post) – native species | Number | A-2 |

| ID | Measure | Unit | Measure type |
|-------|--|--------|--------------|
| MS1 | Rainwater harvested | Liter | A |
| MS2 | Water retained in soil (WHC, soil moisture) | Liter | A |
| MS3 | Accessibility self-evaluation | Scale | D |
| MS4 | Transportation self-evaluation | Scale | D |
| MS5 | Pesticide level in soil | mg/kg | A |
| MS6 | Pesticide level in water | ng/L | A |
| MS7 | Number of unemployed starting as LL participants | Number | A-2 |
| MS7-1 | Number of unemployed starting as LL participants belonging to a vulnerable group | Number | A-2 |
| MS8 | Number of previously unemployed getting inserted in | Number | A-2 |

| | | | |
|----------|--|---------------|-----|
| | the job market | | |
| MS8-1 | Number of previously unemployed getting inserted in the job market belonging to a vulnerable group | Number | A-2 |
| MS9 | Unemployed from a target group retrained in agriculture | Number | A-2 |
| MS10 | Unemployed retrained in agriculture who got a job after the training | Number | A-2 |
| MS10-2 | Unemployed from a target group retrained in agriculture who got a job after the training | Number | A-2 |
| MS11 | Trainees able to maintain an urban garden | Number | A-2 |
| MS12 | Trainees maintaining an urban garden | Number | A-2 |
| MS12-1 | Trainees cultivating native species | Number | A-2 |
| MS12-2 | Trainees (from an underrepresented group) maintaining an urban garden | Number | A-2 |
| MS12-1-2 | Trainees (from an underrepresented group) cultivating native species | Number | A-2 |
| MS13-A | Surface of cultivated area treated with chemical fertilizer/pesticides | Square meters | A |
| MS13-B | Nb of plants of cultivated area treated with chemical fertilizer/pesticides | Number | A-2 |
| MS14 | C in soil | g/m2 | A |
| MS15 | N in soil | Mg/kg | A |
| MS16 | Soil PH | Number | A-2 |
| MS17 | Flyers disseminated | Number | A-2 |
| MS18 | Funds for accessibility | €/RON | A-1 |
| MS19 | Funds for transportation | €/RON | A-1 |
| MS20 | Number of transplanted seedlings | Number | A-2 |
| MS20-1 | Number of alive transplanted seedlings | Number | A-2 |

| | | | |
|------|---|--------|---|
| MS21 | Organic material biodegraded in the soil | Gram | A |
| MS22 | Persons encouraged to come to an event/workshop | Number | E |

| ID | Measure | Unit | Measure type |
|--------|---|--------------|--------------|
| MCC1 | Temperature | °C | A |
| MCC2 | Wind | Km/h | A |
| MCC3 | Air humidity | Percentage | A |
| MCC4 | Quantity of organic fertilizer used (per fertilizer type) | Kilogram | B |
| MCC5-1 | Price of chemical fertilizer/pesticide used (per fertilizer type) | €/RON per kg | B-1 |
| MCC5-2 | Price of organic fertilizer used (per fertilizer type) | €/RON per kg | B-1 |
| MCC6 | Pluviometry | Millimeter | A |
| MCC7 | Sunlight | Hour | A |
| MCC8 | Waste produced | Kilogram | A |
| MCC9 | Waste reused | Kilogram | A |
| MCC10 | Profits or losses made overall | €/RON | A-1 |
| MCC11 | Scientific publications | Number | A |
| MCC12 | Tasks performed by persons working in the gardens | List | C |
| MCC13 | Energy use from external sources | kWh | A |
| MCC14 | Energy use from internal source | kWh | A |
| MCC15 | Self-reported health | Scale | D |
| MCC16 | Self-reported quality of life | Scale | D |
| MCC17 | Assessment of whether the needs are met | Scale | D |
| MCC18 | Tools/Machinery used in the garden | List | C |

| ID | Measure | Unit | Measure type |
|-----|---|--------|--------------|
| MR1 | Vegetable need per day for a healthy life | Gram | A |
| MR2 | Printed/sold exemplar of the newspaper (per newspaper) | Number | A |
| MR3 | Characteristics of product (per product) – native species and | List | B |

| | | | |
|--|-------------------|--|--|
| | nutrition profile | | |
|--|-------------------|--|--|