**Supplement Information.**

Table S1. Standardized survey for collecting main characteristics of the four community supported agricultures (in German).

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| --- | --- |
| **Allgemein:** | |
| Gründungsjahr |  |
| Rechtsform |  |
| Standort |  |
| Zugang zu Land (Eigentum, Pacht,...) |  |
| Anzahl Mitarbeiter\*innen nach Bereichen (Vorstand/Gärtner\*innen/Office, etc., FÖJ, Praktikant\*innen, Azubis) |  |
| Anzahl Ernteanteile & belieferte Haushalte (wenn bekannt) |  |
| Anzahl freier Ernteanteile |  |
| Preisspanne des Anteils |  |
| Durchschnittlicher Preis für einen Anteil |  |
| Preisfestlegung des Anteils (Bietrunde o.ä.) |  |
| **Anbau, Lagerung & Verteilung:** | |
| Ökologischer Anbau? |  |
| (Bio-) Zertifizierung? |  |
| Angebotene Produkte (ausschließlich Gemüse, oder tierische Produkte etc.) |  |
| Anzahl unterschiedlicher Gemüse-/Obstkulturen |  |
| Anbaufläche (inkl. Gründüngung etc.) |  |
| Lagermöglichkeiten (z.B. Kühlhaus, Schuppen, Keller, Miete,...) |  |
| Bewässerungssystem (z.B. händisch, Bewässerungsanlage,..) |  |
| Häufigkeit der Ausgabe an Mitglieder (z.B. Einmal pro Woche) |  |
| Feldbearbeitung (z.B. händisch, maschinell) |  |
| Anzahl und Art der eigenen Maschinen (z.B. Einachser, Kleintraktor, Traktor)  Für was werden diese eingesetzt? |  |
| Externe Maschinennutzung?  Werden z.B. Maschinen/Geräte untereinander verliehen oder von extern angemietet?  Wenn ja, welche und für was? |  |
| Anbaumethode (bedachte / unbedachte Beete)   * Freiland * Folientunnel * Gewächshäuser etc. |  |
| Zugang zu Wasser |  |
| Zugang zu Strom |  |
| Anzahl Verteilstationen |  |
| **Mitglieder:** | |
| Einstiegsdatum/-zeitraum für Mitglieder (z.B. Mindestlaufzeit, Kann man jederzeit einsteigen/aussteigen,..) |  |
| Ist die Beteiligung der Mitglieder verpflichtend oder freiwillig? |  |
| Möglichkeiten der Teilnahme (z.B. Arbeitseinsätze auf dem Feld, Ehrenamt, Teilnahme an Plena, Arbeitsgruppen,..) |  |
| Angebot an gesellschaftspolitischen oder Bildungsaktivitäten (intern/extern)? |  |
| **Besonderheiten (z.B. Verzicht auf Plastik, Verteilung mit Lastenrad etc.):** | |

Table S2. Crops, crop subcategories and type of cultivation in the community supported agriculture (CSA) and conventional yield investigation.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **CSA** | |  | **Conventional** | |
| **Crop** |  | **Crop subcategories** | **Cultivation** |  | **Crop subcategories** | **Cultivation** |
| Beetroots |  | Beetroots | Field |  | Beetroots | Field |
| Broccoli |  | Broccoli | Field |  | Broccoli | Field |
| Bush beans |  | Bush beans | Field |  | Bush beans | Field |
| Carrots |  | Carrots | Field |  | Carrots | Field |
| Courgettes |  | Courgettes | Field |  | Courgettes | Field |
| Fennel |  | Fennel | Field |  | NA | NA |
| Leeks |  | Leeks | Field |  | Leeks | Field |
| Lettuces |  | Lettuce,  endive,  Oakleaf lettuce, iceberg lettuce, romaine lettuce | Field, tunnel |  | Lettuce,  endive,  Oakleaf lettuce, iceberg lettuce, romaine lettuce | Field, tunnel |
| Onions |  | Onions | Field |  | Onions | Field |
| Potatoes |  | Potatoes | Field |  | Potatoes | Field |
| Pumpkins |  | Pumpkins | Field |  | Pumpkins | Field |
| Savoy cabbages |  | Savoy cabbages | Field |  | Savoy cabbages | Field |
| Spinach beet |  | Spinach beet | Field, tunnel |  | NA | NA |
| Tomatoes |  | Tomatoes | Field, tunnel |  | Tomatoes | Tunnel |
| Turnips |  | Turnips | Field, tunnel |  | Turnips | Field |
| White cabbages |  | White cabbages | Field |  | White cabbages | Field |

Table S3. Crops and crop subcategories in the community supported agriculture FLW investigation for all stages of the food supply chain (production/intermediate; household).

|  |  |  |
| --- | --- | --- |
|  | **Crop subcategories** | |
| **Crop** | **Production/intermediate** | **Household** |
| Beetroots | Beetroots | Beetroots |
| Broccoli | Broccoli | Broccoli |
| Bush beans | Bush beans | Bush beans, beans |
| Carrots | Carrots | Carrots |
| Courgettes | Courgettes | Courgettes |
| Fennel | Fennel | Fennel |
| Leeks | Leeks | Leeks |
| Lettuces | Lettuce,  endive,  Oakleaf lettuce, iceberg lettuce, romaine lettuce | Lettuce,  endive,  Oakleaf lettuce, iceberg lettuce, romaine lettuce, green salad, friseelettuce |
| Onions | Onions | Onions |
| Potatoes | Potatoes | Potatoes |
| Pumpkins | Pumpkins | Pumpkins |
| Savoy cabbages | Savoy cabbages | Savoy cabbages |
| Spinach beet | Spinach beet | Spinach beet |
| Tomatoes | Tomatoes | Tomatoes |
| Turnips | Turnips | Turnips |
| White cabbages | White cabbages | White cabbage, pickled cabbage |

**Table S4. Transcription rules, according to Dresing and Pehl (2015).**

|  |  |
| --- | --- |
| **Example** | **Explanation** |
| ? at the end: (example dialect word) | Literal transcription, i.e. not spoken or summarized. Dialects are only retained if no clear translation is possible. In case of doubt, the dialect word is given in brackets and accompanied by a question mark. |
| Can’t, won’t, I’d etc. | Common contractions of colloquial English are to be used. Grammar and syntax as used by the speakers are to be left unchanged, no corrections are to be made. |
| I’ve been/ What I mean to say is, that not all but most children like to play videogames. | Word and sentence break as well as stuttering are smoothed out or left out, double words are only recorded if they are used as a stylistic device for emphasis. "Whole" half-sentences, which only lack completion, are recorded and marked with the break character /. |
| My brother is younger than me. My sister, however, is older. | Punctuation is smoothed in favour of readability, i.e. a period is used rather than a comma if the voice is lowered briefly or if the emphasis is ambiguous. Units of meaning should be retained. |
| (…) | Pauses are marked by three ellipses in parentheses. |
| Uh, uhm, mhm, well, …    I: Are you coming to the cinema?  F: Uhu (affirmative)  I: Okay, see you there then… | Signals of understanding from the person not speaking are not transcribed.      The exception is when comprehension signals form the whole answer without any further execution. |
| NO means NO. | Words or utterances that are particularly emphasized are marked with capital letters. |
| I1 [00:21:07]: Could you please clarify this?    M3 [00:21:22]: Of course. | Each speaker contribution has its own paragraphs. There is a free, empty line between the speakers. Short interjections are also transcribed in a separate paragraph. Timestamps are inserted (in this study) at the beginning of a paragraph. |
| M: It was (laughs) the greatest show ever (sighs). | Emotional non-verbal expressions of the interviewee and the interviewer that support or clarify the statement are noted in brackets when used. |
| (unclear)      (unclear, background noise) | Incomprehensible words are marked. Longer incomprehensible passages should be provided with the cause as far as possible.    If a wording is suspected but is not sure, the word or phrase is put in brackets with a question mark.    In general, all incomprehensible passages are given a timestamp if no timestamp is set within one minute. |
| I1, I2 or F1, F2 etc. | The interviewer is identified by an “I:”, the interviewee by “F:” if female and by “M:” if male. If there are several interview partners (as here in the group discussion), a corresponding identification number or name is assigned to the abbreviation (c.f.  Table 3). |

Table S5. Crop-specific food losses and waste (FLW) at each stage of the food supply chain (FSC) as ratio of the amount of the FLW to the food input in the corresponding stage for community-supported agriculture and reference data. Bracketed values indicate the standard deviation (SD) of different studies (reference) of the investigated CSAs (CSA, production; CSA, distribution) or of the investigated households (CSA, consumption) (mean ± SD) with n >= 3.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **CSA** | | | **Reference** | | |
| Crop | **Production** | **Distribution** | **Household** | **Production** | **Distribution** | **Household** |
| Beetroot | 0.02 (0.01) | 0.09 (0.06) | 0.3 (0) | 0.23 (0.1) | 0.25 (0.18) | 0.27 (0.1) |
| Broccoli | 0.11 (0.18) | 0.05 (0.06) | 0.34 (0) | 0.21 (0.07) | 0.2 (0.18) | 0.28 (0.12) |
| Bush beans | 0.1 (0.1) | 0.03 (0.03) | 0.1 (0) | 0.22 (0.13) | 0.22 (0.17) | 0.25 (0.16) |
| Carrots | 0.07 (0.05) | 0.1 (0.05) | 0.18 (0) | 0.24 (0.11) | 0.25 (0.18) | 0.27 (0.1) |
| Courgettes | 0.02 (0.02) | 0.06 (0.03) | 0.08 (0) | 0.25 (0.1) | 0.23 (0.15) | 0.28 (0.12) |
| Fennel | 0.16 (0.21) | 0.11 (0.02) | 0.35 (0) | 0.25 (0.1) | 0.23 (0.15) | 0.28 (0.12) |
| Leeks | 0.07 (0.05) | 0.04 (0.02) | 0.29 (0) | 0.25 (0.1) | 0.23 (0.15) | 0.28 (0.12) |
| Lettuces | 0.18 (0.06) | 0.04 (0.02) | 0.18 (0) | 0.27 (0.12) | 0.22 (0.16) | 0.32 (0.17) |
| Onions | 0.07 (0.05) | 0.12 (0.14) | 0.14 (0) | 0.23 (0.1) | 0.25 (0.18) | 0.27 (0.1) |
| Potatoes | 0.05 (0.04) | 0.09 (0.06) | 0.16 (0) | 0.23 (0.11) | 0.35 (0.1) | 0.28 (0.15) |
| Pumpkins | 0.04 (0.02) | 0.08 (0.06) | 0.27 (0) | 0.23 (0.1) | 0.25 (0.18) | 0.2 (0.13) |
| Savoy cabbages | 0.27 (0.13) | 0.05 (0.07) | 0.41 (0) | 0.23 (0.1) | 0.25 (0.18) | 0.27 (0.1) |
| Spinach beet | 0.13 (0.06) | 0.1 (0.05) | 0.1 (0) | 0.25 (0.1) | 0.23 (0.15) | 0.28 (0.12) |
| Tomatoes | 0.31 (0.46) | 0.03 (0.03) | 0.03 (0) | 0.21 (0.11) | 0.23 (0.16) | 0.28 (0.12) |
| Turnips | 0.19 (0.07) | 0.1 (0.06) | 0.38 (0) | 0.25 (0.1) | 0.23 (0.15) | 0.28 (0.12) |
| White cabbages | 0.17 (0.08) | 0.08 (0.1) | 0.1 (0) | 0.26 (0.16) | 0.25 (0.18) | 0.27 (0.1) |

Table S6. Crop-specific yields (kg m-2) and net yields (for observed and reference FLW) for community supported agricultures (CSA). Bracketed values indicate the standard deviation (SD) of different studies (conventional) or of the investigated CSAs (mean ± SD) with n >= 3.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Crop** | **Yield** | **Net yield (CSA FLW)** | **Net yield (reference FLW)** | **Yield gap compensation potential (%)** |
| Beetroot | 3.73 (1.51) | 2.35 (0.85) | 2.06 (0.84) | 15.97 (7.63) |
| Broccoli | 0.35 (0.13) | 0.21 (0.07) | 0.2 (0.08) | 9.18 (6.43) |
| Bush beans | 1.52 (0.67) | 1.33 (0.61) | 0.9 (0.4) | 46.51 (4.36) |
| Carrots | 3.65 (1.29) | 2.75 (1.08) | 2.02 (0.71) | 34.22 (7.2) |
| Courgettes | 10.51 (7.64) | 8.94 (6.13) | 5.79 (4.21) | 57 (5.26) |
| Fennel | 1.07 (0.14) | 0.62 (0.08) | 0.59 (0.07) | 5.52 (2.3) |
| Leeks | 1.64 (0.27) | 1.11 (0.16) | 0.9 (0.15) | 23.31 (3.03) |
| Lettuces | 2.1 (0.7) | 1.64 (0.53) | 1.11 (0.37) | 48.04 (2.38) |
| Onions | 1.41 (1.14) | 1.14 (0.98) | 0.78 (0.63) | 37.27 (22.57) |
| Potatoes | 1.43 (0.71) | 1.07 (0.48) | 0.67 (0.33) | 64.48 (11.17) |
| Pumpkins | 3.1 (1.82) | 2.03 (1.07) | 1.86 (1.09) | 11.82 (7.33) |
| Savoy cabbages | 1.99 (0.44) | 1.13 (0.29) | 1.1 (0.24) | 2.27 (7.12) |
| Spinach beet | 5.77 (3.94) | 4.76 (3.37) | 3.18 (2.17) | 46.88 (8.24) |
| Tomatoes | 4.88 (4.45) | 4.5 (4.05) | 2.71 (2.48) | 50.2 (33.63) |
| Turnips | 3.17 (1.25) | 1.78 (0.73) | 1.74 (0.69) | 1.3 (7.22) |
| White cabbages | 3.03 (0.95) | 2.56 (0.95) | 1.67 (0.52) | 50.54 (16.13) |