**Codebook**

Codebook for Linked Secondary Data

A Collection of Variables from Publicly Available and Free-to-access Sources

|  |  |
| --- | --- |
| **Dataset name:** | Linked\_Secondary\_Data |
| **Dataset size:** | 1 Mb |
| **Column count:** | 48 |
| **Row count:** | 2,728 |
| **Updated date:** | 2025-06-04 |

**Description:**

As a supplement to the data that we collected ourselves via the InBestSoil farm survey, we also extracted additional variables from publicly available sources to supplement the primary data. All data we present herewith has been reduced in granularity via a rounding procedure in order to protect the anonymity of the farmers who answered the survey as per our data protection agreement. For certain very large farms we set the maximum land area to 100 hectares to further protect the identity of these farmers as farms of such scale are rare in Switzerland.

The data can be linked to the full survey data set and the subset of data covering wheat production via the 'surveyid' variable. We include general farm structural information regarding cropped areas and the percentages of crop categories grown in rotation by a given farm. For the farms that grew milling wheat in the 2022/2023 production season we also include more detailed information relevant for wheat production aggregated across wheat plots including the average soil characteristics, geomorphology and meteorology. As all data presented within this document is secondary data that we did not collect ourselves we direct you to the original sources - which are outlined by variable below - for specific details. In using this data we also ask that you to respect and abide by the data usage regulations of the original sources.

For the variables extracted from geodienste.ch we would like to cite and thank the following cantonal administrations who have made the data publicly available via this webservice: Aargau (AG), Appenzell Ausserhoden (AR), Appenzell Innerrhoden (AI), Bern (BE), Basel-Landschaft (BL), Basel-Stadt (BS), Fribourg (FR), Genève (GE), Glarus (GL), Graubünden (GR), Jura (JU), Luzern (LU), Neuchâtel (NE), Nidwalden (NW), Obwalden (OW), St. Gallen (SG), Schaffhausen (SH), Solothurn (SO), Schwyz (SZ), Thurgau (TG), Ticino (TI), Uri (UR), Vaud (VD), Valais (VS), Zug (ZG) and Zürich (ZH). Please consult the included README file for the contact information for each cantonal geographic information system administration involved in providing the geodata via gieodienste.ch.

**Column Attributes:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **Column name:** | | | **survey\_id** | | | |
|  | Column description: | | | Individual survey ID | | | |
|  | Source information: | | | InBestSoil farm survey | | | |
|  | Column type: | | | Character | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 2,728 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 42.00 | | 1817.55 | 1804.50 | | 3601.00 | 1017.08 |

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| --- | --- | --- | --- | --- | --- | --- |
| **2** | **Column name:** | | **agricultural\_zone\_farm\_site** | | | |
|  | Column description: | | Agricultural zone of farm [Factor] | | | |
|  | Source information: | | Extracted variable from the boundaries of agricultural zones in Switzerland map provided by the Federal Office for Agriculture (FOAG) | | | |
|  | Data type: | | Factor | | | |
|  | Unique non-missing value count: | | 3 | | | |
|  | Missing value count: | | 0 | | | |
| Categories | | Frequency | | Cumulative Frequency | Percent |
| Valley | | 2,160 | | 2,160 | 79.18 |
| Hill | | 400 | | 2,560 | 14.66 |
| Mountain | | 168 | | 2,728 | 6.16 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **3** | **Column name:** | | | **total\_land\_area** | | | |
|  | Column description: | | | Total land registered to farm [ha] | | | |
|  | Source information: | | | Extracted variable from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 19 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 10.00 | | 36.80 | 35.00 | | 100.00 | 19.18 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **4** | **Column name:** | | | **total\_arable\_area** | | | |
|  | Column description: | | | Total arable land registered to farm [ha] | | | |
|  | Source information: | | | Extracted variable from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 18 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 5.00 | | 26.08 | 20.00 | | 100.00 | 16.85 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **5** | **Column name:** | | | **total\_perm\_grass\_area** | | | |
|  | Column description: | | | Total permanent grassland registered to farm [ha] | | | |
|  | Source information: | | | Extracted variable from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 14 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 13.61 | 10.00 | | 100.00 | 14.72 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **6** | **Column name:** | | | **perc\_arable\_beets** | | | |
|  | Column description: | | | Share of arable land producing beets [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 10 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 4.61 | 0.00 | | 50.00 | 7.63 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **7** | **Column name:** | | | **perc\_arable\_potatoes** | | | |
|  | Column description: | | | Share of arable land producing potatoes [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 12 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 2.52 | 0.00 | | 65.00 | 6.41 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **8** | **Column name:** | | | **perc\_arable\_maize** | | | |
|  | Column description: | | | Share of arable land producing maize [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 14 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 15.02 | 15.00 | | 75.00 | 11.39 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **9** | **Column name:** | | | **perc\_arable\_temp\_grass** | | | |
|  | Column description: | | | Share of arable land under temporary grass [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 21 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 25.78 | 20.00 | | 100.00 | 22.65 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **10** | **Column name:** | | | **perc\_arable\_bff** | | | |
|  | Column description: | | | Share of arable land under biodiversity protection [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 7 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 0.81 | 0.00 | | 30.00 | 2.58 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **11** | **Column name:** | | | **perc\_arable\_barley** | | | |
|  | Column description: | | | Share of arable land producing barley [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 11 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 7.32 | 5.00 | | 50.00 | 8.29 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **12** | **Column name:** | | | **perc\_arable\_wheat** | | | |
|  | Column description: | | | Share of arable land producing wheat [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 15 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 22.11 | 20.00 | | 80.00 | 11.52 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **13** | **Column name:** | | | **perc\_arable\_other\_cereals** | | | |
|  | Column description: | | | Share of arable land producing other cereals [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 14 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 6.51 | 0.00 | | 80.00 | 9.57 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **14** | **Column name:** | | | **perc\_arable\_osr** | | | |
|  | Column description: | | | Share of arable land producing oilseed rape [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 11 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 7.14 | 0.00 | | 60.00 | 8.61 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **15** | **Column name:** | | | **perc\_arable\_other\_oilseeds** | | | |
|  | Column description: | | | Share of arable land producing other oilseeds [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 8 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 1.96 | 0.00 | | 35.00 | 4.71 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **16** | **Column name:** | | | **perc\_arable\_legumes** | | | |
|  | Column description: | | | Share of arable land producing legumes [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 10 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 2.23 | 0.00 | | 65.00 | 5.42 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **17** | **Column name:** | | | **perc\_arable\_veg\_fruits** | | | |
|  | Column description: | | | Share of arable land producing field veg/berries [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 16 | | | |
|  | Missing value count: | | | 0 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 2.05 | 0.00 | | 90.00 | 7.09 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **18** | **Column name:** | | | **number\_wheat\_plots\_total** | | | |
|  | Column description: | | | Number of milling wheat plots registered to farm [No.] | | | |
|  | Source information: | | | Extracted variable from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Integer | | | |
|  | Unique non-missing value count: | | | 27 | | | |
|  | Missing value count: | | | 474 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 3.54 | 3.00 | | 100.00 | 3.72 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **19** | **Column name:** | | | **total\_wheat\_area** | | | |
|  | Column description: | | | Total milling wheat land registered to farm [ha] | | | |
|  | Source information: | | | Extracted variable from the nutzungsflächen map (2023) provided by geodienste.ch | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 30 | | | |
|  | Missing value count: | | | 474 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 6.17 | 5.00 | | 30.00 | 4.96 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **20** | **Column name:** | | | **avreage\_clay\_content\_wheat** | | | |
|  | Column description: | | | Average soil clay content - milling wheat fields - 5-15cm depth [%] | | | |
|  | Source information: | | | Extracted variable from the soilgrids provided by the International Soil Reference and Information Centre (ISRIC) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 9 | | | |
|  | Missing value count: | | | 474 | | | |
| Min | | Mean | Median | | Max | SD |
| 10.00 | | 24.57 | 25.00 | | 50.00 | 6.01 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **21** | **Column name:** | | | **avreage\_sand\_content\_wheat** | | | |
|  | Column description: | | | Average soil sand content - milling wheat fields - 5-15cm depth [%] | | | |
|  | Source information: | | | Extracted variable from the soilgrids provided by the International Soil Reference and Information Centre (ISRIC) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 12 | | | |
|  | Missing value count: | | | 474 | | | |
| Min | | Mean | Median | | Max | SD |
| 10.00 | | 39.84 | 40.00 | | 65.00 | 9.66 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **22** | **Column name:** | | | **avreage\_silt\_content\_wheat** | | | |
|  | Column description: | | | Average soil silt content - milling wheat fields - 5-15cm depth [%] | | | |
|  | Source information: | | | Extracted variable from the soilgrids provided by the International Soil Reference and Information Centre (ISRIC) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 9 | | | |
|  | Missing value count: | | | 474 | | | |
| Min | | Mean | Median | | Max | SD |
| 20.00 | | 35.62 | 35.00 | | 60.00 | 5.12 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **23** | **Column name:** | | | **average\_altitude\_wheat** | | | |
|  | Column description: | | | Average altitude - milling wheat fields [metre a.s.l.] | | | |
|  | Source information: | | | Extracted variable from the digital height model DHM25 provided by the Federal Office of Topography (swisstopo) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 18 | | | |
|  | Missing value count: | | | 474 | | | |
| Min | | Mean | Median | | Max | SD |
| 250.00 | | 540.42 | 500.00 | | 1100.00 | 115.24 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **24** | **Column name:** | | | **average\_slope\_angle\_wheat** | | | |
|  | Column description: | | | Average slope angle - milling wheat fields [%] | | | |
|  | Source information: | | | Calculated variable derived from information extracted from the digital height model DHM25 provided by the Federal Office of Topography (swisstopo) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 17 | | | |
|  | Missing value count: | | | 474 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 3.77 | 3.00 | | 19.00 | 2.59 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **25** | **Column name:** | | | **average\_temp\_2022\_09** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - September 2022 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 7 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 10.00 | | 14.05 | 14.00 | | 16.00 | 0.72 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **26** | **Column name:** | | | **average\_temp\_2022\_10** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - October 2022 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 5 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 11.00 | | 13.41 | 13.00 | | 15.00 | 0.63 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **27** | **Column name:** | | | **average\_temp\_2022\_11** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - November 2022 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 6 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 4.00 | | 6.99 | 7.00 | | 9.00 | 0.65 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **28** | **Column name:** | | | **average\_temp\_2022\_12** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - December 2022 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 5 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 1.00 | | 2.78 | 3.00 | | 5.00 | 0.77 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **29** | **Column name:** | | | **average\_temp\_2023\_01** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - January 2023 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 7 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| -1.00 | | 2.47 | 3.00 | | 5.00 | 0.81 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **30** | **Column name:** | | | **average\_temp\_2023\_02** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - February 2023 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 6 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| -1.00 | | 3.14 | 3.00 | | 5.00 | 0.56 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **31** | **Column name:** | | | **average\_temp\_2023\_03** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - March 2023 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 7 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 3.00 | | 6.84 | 7.00 | | 9.00 | 0.67 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **32** | **Column name:** | | | **average\_temp\_2023\_04** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - April 2023 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 7 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 4.00 | | 8.14 | 8.00 | | 10.00 | 0.76 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **33** | **Column name:** | | | **average\_temp\_2023\_05** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - May 2023 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 7 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 10.00 | | 13.87 | 14.00 | | 16.00 | 0.80 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **34** | **Column name:** | | | **average\_temp\_2023\_06** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - June 2023 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 6 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 15.00 | | 19.70 | 20.00 | | 21.00 | 0.74 |

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| **35** | **Column name:** | | | **average\_temp\_2023\_07** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - July 2023 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 8 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 16.00 | | 20.17 | 20.00 | | 23.00 | 0.76 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **36** | **Column name:** | | | **average\_temp\_2023\_08** | | | |
|  | Column description: | | | Average temperature - milling wheat fields - August 2023 [°C] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average temperature data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 7 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 16.00 | | 19.87 | 20.00 | | 22.00 | 0.76 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **37** | **Column name:** | | | **total\_prec\_2022\_09** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - September 2022 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 24 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 40.00 | | 161.58 | 160.00 | | 280.00 | 36.04 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **38** | **Column name:** | | | **total\_prec\_2022\_10** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - October 2022 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 11 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 40.00 | | 78.06 | 80.00 | | 140.00 | 12.95 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **39** | **Column name:** | | | **total\_prec\_2022\_11** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - November 2022 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 12 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 30.00 | | 77.78 | 80.00 | | 140.00 | 15.15 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **40** | **Column name:** | | | **total\_prec\_2022\_12** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - December 2022 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 13 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 40.00 | | 96.22 | 100.00 | | 160.00 | 19.83 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **41** | **Column name:** | | | **total\_prec\_2023\_01** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - January 2023 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 11 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 20.00 | | 62.15 | 60.00 | | 120.00 | 16.36 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **42** | **Column name:** | | | **total\_prec\_2023\_02** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - February 2023 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 8 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 0.00 | | 11.34 | 10.00 | | 70.00 | 8.38 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **43** | **Column name:** | | | **total\_prec\_2023\_03** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - March 2023 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 12 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 60.00 | | 99.94 | 100.00 | | 180.00 | 17.17 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **44** | **Column name:** | | | **total\_prec\_2023\_04** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - April 2023 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 16 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 50.00 | | 93.25 | 90.00 | | 220.00 | 21.48 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **45** | **Column name:** | | | **total\_prec\_2023\_05** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - May 2023 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 19 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 20.00 | | 75.23 | 70.00 | | 200.00 | 27.76 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **46** | **Column name:** | | | **total\_prec\_2023\_06** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - June 2023 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 7 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 20.00 | | 41.18 | 40.00 | | 80.00 | 10.20 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **47** | **Column name:** | | | **total\_prec\_2023\_07** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - July 2023 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 20 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 30.00 | | 104.70 | 110.00 | | 230.00 | 34.13 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **48** | **Column name:** | | | **total\_prec\_2023\_08** | | | |
|  | Column description: | | | Total precipitation - milling wheat fields - August 2023 [mm] | | | |
|  | Source information: | | | Extracted variable from the gridded monthly average precipitation data provided by the Federal Office of Meteorology and Climatology (MeteoSwiss) | | | |
|  | Data type: | | | Numeric | | | |
|  | Unique non-missing value count: | | | 24 | | | |
|  | Missing value count: | | | 477 | | | |
| Min | | Mean | Median | | Max | SD |
| 60.00 | | 106.33 | 100.00 | | 310.00 | 33.18 |