

## Codebook

### Codebook for Dataset Survey wheat subset

A Collection of Variables focussing on the wheat production. The variables were collected in an online Survey on soil health practices of Swiss arable farmers. This subset only includes farms that produced bread wheat in the production season 2022/23.

<b>Dataset name:</b>	data_wheat
<b>Dataset size:</b>	344.5 Kb
<b>Column count:</b>	13
<b>Row count:</b>	2,217
<b>Updated date:</b>	2025-07-09

#### Column Attributes:

<b>1</b>	<b>Column name:</b>	<b>survey_id</b>
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Column description: Individual survey ID

Data type: Character

Unique non-missing value count: 2,217

Missing value count: 0

Categories with Smallest Values	Frequency	Categories with Largest Values	Frequency
100	1	993	1
1000	1	994	1
1001	1	995	1
1002	1	996	1
1003	1	998	1

<b>2</b>	<b>Column name:</b>	<b>milling_wheat_production_standard</b>
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Column description: Production standard of milling wheat grown on the farm during the 2022/23 growing season [Factor]

Data type: Factor

Unique non-missing value count: 4

Missing value count: 0

Categories	Frequency	Cumulative Frequency	Percent
ÖLN	749	749	33.78

IP-Suisse	1,062	1,811	47.90
Bio-Suisse	358	2,169	16.15
Demeter	48	2,217	2.17

3	Column name:		milling_wheat_area_reported		
	Column description:		Area of milling wheat grown - reported by respondent [ha]		
	Data type:		Numeric		
	Unique non-missing value count:		396		
	Missing value count:		0		
	Min	Mean	Median	Max	SD
	0.00	19.72	4.50	7000.00	187.20
4	Column name:		milling_wheat_yield		
	Column description:		Milling wheat yield in 2022/23 [kg/ha]		
	Data type:		Numeric		
	Unique non-missing value count:		134		
	Missing value count:		0		
	Min	Mean	Median	Max	SD
	10.00	60.05	60.00	160.00	13.28
5	Column name:		milling_wheat_average_yield		
	Column description:		Milling wheat yield in preceding five growing seasons [kg/ha]		
	Data type:		Numeric		
	Unique non-missing value count:		86		
	Missing value count:		0		
	Min	Mean	Median	Max	SD
	0.00	61.08	60.00	160.00	12.24
6	Column name:		milling_wheat_synthetic_fert		

Column description:		Quantity of synthetic fertiliser applied [kg N/ha]		
Data type:		Numeric		
Unique non-missing value count:		110		
Missing value count:		123		
Min	Mean	Median	Max	SD
0.00	81.27	92.00	250.00	52.67

7	Column name:	milling_wheat_organic_fert			
	Column description:	Quantity of organic fertiliser applied [kg N/ha]			
	Data type:	Numeric			
	Unique non-missing value count:	79			
	Missing value count:	123			
	Min	Mean	Median	Max	SD
	0.00	42.02	35.00	250.00	37.12

8	Column name:	milling_wheat_sowing_density			
	Column description:	Sowing density of wheat [kg seed/ha]			
	Data type:	Numeric			
	Unique non-missing value count:	62			
	Missing value count:	2			
	Min	Mean	Median	Max	SD
	50.00	182.61	180.00	280.00	26.43

9	Column name:	milling_wheat_biostimulator_treats			
	Column description:	Number of treatments with biostimulators [Average number/ha]			
	Data type:	Numeric			
	Unique non-missing value count:	6			
	Missing value count:	0			
	Min	Mean	Median	Max	SD
	0.00	0.30	0.00	5.00	0.67

<b>10</b>	<b>Column name:</b>		<b>milling_wheat_herbicide_treats</b>		
	Column description:		Number of treatments with herbicides [Average number/ha]		
	Data type:		Numeric		
	Unique non-missing value count:		5		
	Missing value count:		0		
	Min	Mean	Median	Max	SD
	0.00	0.74	1.00	4.00	0.58
<b>11</b>	<b>Column name:</b>		<b>milling_wheat_fungicide_treats</b>		
	Column description:		Number of treatments with fungicides [Average number/ha]		
	Data type:		Numeric		
	Unique non-missing value count:		6		
	Missing value count:		0		
	Min	Mean	Median	Max	SD
	0.00	0.30	0.00	6.00	0.66
<b>12</b>	<b>Column name:</b>		<b>milling_wheat_insecticide_treats</b>		
	Column description:		Number of treatments with insecticides [Average number/ha]		
	Data type:		Numeric		
	Unique non-missing value count:		3		
	Missing value count:		0		
	Categories	Frequency	Cumulative Frequency		Percent
	0	2,144	2,144		96.71
	1	65	2,209		2.93
	2	8	2,217		0.36
<b>13</b>	<b>Column name:</b>		<b>milling_wheat_pgr_treats</b>		

Column description:	Number of treatments with plant growth regulators [Average number/ha]		
Data type:	Numeric		
Unique non-missing value count:	3		
Missing value count:	0		
Categories	Frequency	Cumulative Frequency	Percent
0	1,816	1,816	81.91
1	298	2,114	13.44
2	103	2,217	4.65