



Database Used for FLINT WP5 Activities: Description and Quality Assessment

Laure Latruffe, Yann Desjeux, Pierre Dupraz

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DATABASE USED FOR FLINT WP5 ACTIVITIES: DESCRIPTION AND QUALITY ASSESSMENT

Laure LATRUFFE¹, Yann DESJEUX¹, Pierre DUPRAZ¹

¹ INRA, SMART, 35000, Rennes, France

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ABOUT THE FLINT PROJECT

FLINT will provide an updated data-infrastructure needed by the agro-food sector and policy makers to provide up to date information on farm level indicators on sustainability and other new relevant issues. Better decision making will be facilitated by taking into account the sustainability performance of farms on a wide range of relevant topics, such as (1) market stabilization; (2) income support; (3) environmental sustainability; (4) climate change adaptation and mitigation; (5) innovation; and (6) resource efficiency. The approach will explicitly consider the heterogeneity of the farming sector in the EU and its member states. Together with the farming and agro-food sector the feasibility of these indicators will be determined.

FLINT will take into account the increasing needs for sustainability information by national and international retail and agro-food sectors. The FLINT approach is supported by the Sustainable Agriculture Initiative Platform and the Sustainability Consortium in which the agro-food sector actively participates. FLINT will establish a pilot network of at least 1000 farms (representative of farm diversity at EU level, including the different administrative environments in the different MS) that is well suited for the gathering of these data.

The lessons learned and recommendations from the empirical research conducted in 9 purposefully chosen MS will be used for estimating and discussing effects in all 28 MS. This will be very useful if the European Commission should decide to upgrade the pilot network to an operational EU-wide system.

PROJECT CONSORTIUM:

1	DLO Foundation (Stichting Dienst Landbouwkundig Onderzoek)	Netherlands
2	AKI - Agrargazdasagi Kutato Intezet	Hungary
3	MTT Agrifood Research Finland	Finland
4	IERiGZ-PIB - Instytut Ekonomiki Rolnictwa i Gospodarki Zywnosciowej-Panstwowy Instytut Badawcy	Poland
5	INTIA - Instituto Navarro De Tecnologias e Infraestructuras Agrolimentarias	Spain
6	ZALF - Leibniz Centre for Agricultural Landscape Research	Germany
7	Teagasc - The Agriculture and Food Development Authority of Ireland	Ireland
8	Demeter - Hellenic Agricultural Organization	Greece
9	INRA - Institut National de la Recherche Agronomique	France
10	CROP-R BV	Netherlands
11	University of Hohenheim	Germany

MORE INFORMATION:

Drs. Krijn Poppe (coordinator)	e-mail: krijn.poppe@wur.nl
Dr. Hans Vrolijk	e-mail: hans.vrolijk@wur.nl
LEI Wageningen UR	phone: +31 07 3358247
P.O. Box 29703	
2502 LS The Hague	www.flint-fp7.eu
The Netherlands	

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LIST OF ACRONYMS

CAP	Common Agricultural Policy
CU	(National) Currency Unit
EC	European Commission
EFA	Ecological Focus Area
EU	European Union
FADN	Farm Accountancy Data Network
GHG	Greenhouse Gases
LPIS	Land Parcel Identification System
N	Nitrogen
NUE	Nitrogen Use Efficiency
P	Phosphorus
TF	Type of Farming
UAA	Utilised Agricultural Area
VAT	Value Added Tax
WP	Workpackage

1 INTRODUCTION

The objective of the FLINT project is to provide an updated data-infrastructure needed by the agro-food sector and policy makers to have access to up to date information on farm level indicators on sustainability and other new relevant issues. Better decision making is facilitated by taking into account the sustainability performance of farms on a wide range of relevant topics. This is realised by complementing the farm-level data of the Farm Accountancy Data Network (FADN) of the European Union (EU) with information about farm sustainability. FADN data contain information on economic sustainability of farms but it is mainly limited to revenues and costs; for this reason, the FLINT project has completed the FADN data with economic information on innovations, risk and market outlets. As for environmental and social data, they are rather scarce in FADN but the FLINT project has collected a wide range of information on greening, land management, pesticides, nutrient balance, energy, water, farmers' use of extension, farmers' quality of life, etc.

Through various means (face-to-face surveys, phone interviews, postal survey, data collection from other sources, etc) additional data has therefore been collected during the FLINT project from 1,099 farmers from nine EU countries (i.e. the Netherlands, Hungary, Finland, Poland, Spain, Ireland, Greece, France and Germany).

Workpackage (WP) 5 of the FLINT project aims at analysing the value added of these newly collected data. Within this WP5, this first deliverable D5.1 aims at presenting the structure and the content of the database, as well as discussing issues of data quality and to learn from experiences in FLINT in order to improve the usability of the new data if the FLINT test is replicated in the future.

The deliverable is organised as follows. Section 2 describes the database, while section 3 explains the supporting documents. Section 4 discusses the strengths and weaknesses of the data and section 5 concludes.

2 GENERAL DESCRIPTION OF THE DATABASE

2.1 Structure of the database

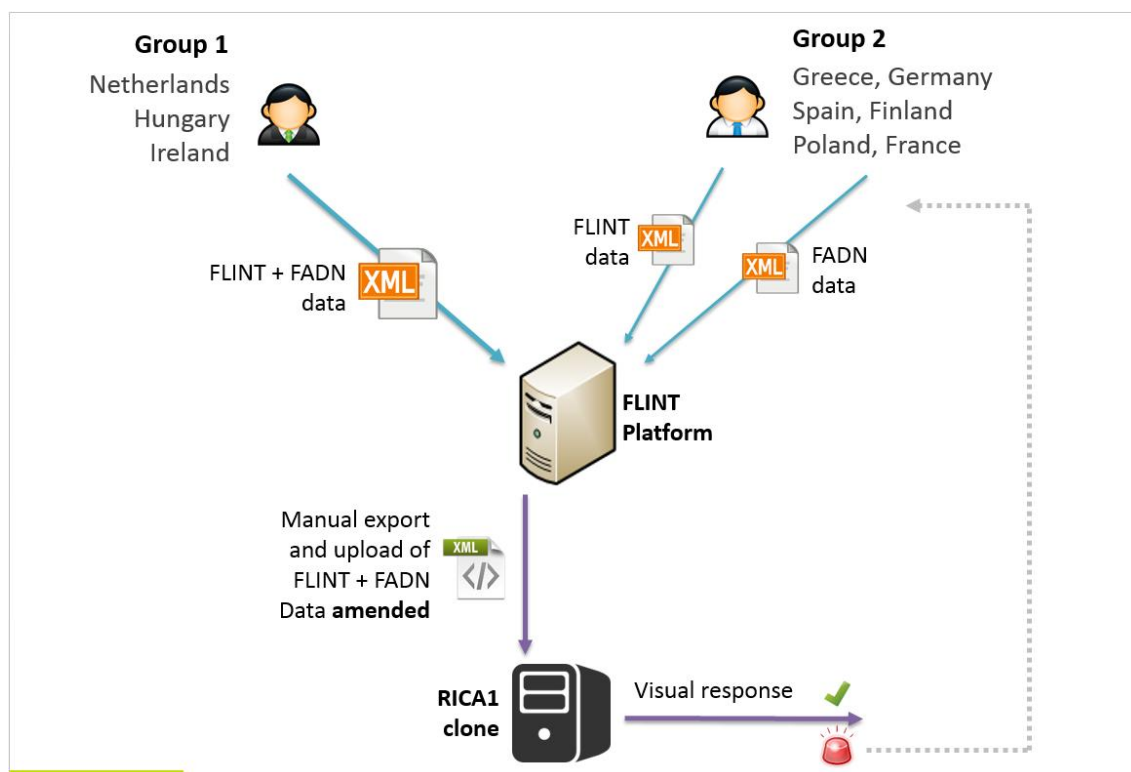
Although the data flows may vary across countries (Figure 1), the final database to be used for analyses conducted within FLINT WP5 is made of five different flat datasets that can be extracted from the FLINT Platform.

Namely:

- The 'FADN dataset', containing the (classic) FADN data
- The 'FLINT dataset', containing the additional data specifically collected within the FLINT project
- The 'Indicator dataset', containing the indicators computed with the above-mentioned FLINT data
- The 'Standard Results dataset', containing a set of standard results computed from FADN data
- The 'Typology dataset', containing a set of typology variables computed from FADN data

The whole database is then obtained by merging these 5 datasets by "FADN_ID", which is a variable providing each farm with a unique identifier number.

Figure 1: Workflow diagram per country



Source: FLINT Deliverable 3.2

The whole database contains 1,099 farms from nine EU countries (Table 1). More details on the FLINT pilot farm network and its characteristics are provided in FLINT Deliverable 2.4.

Table 1: Number of farms in the whole FLINT database, per EU country

	France	Germany	Greece	Spain	Finland	Hungary	Ireland	Netherlands	Poland	TOTAL
Number of farms concerned	280	52	124	128	49	102	63	155	146	1,099

The accountancy year considered in the database varies across countries. It is 2015 for all countries, except for Germany and France for which the accountancy year into consideration is 2014. Note that in the 'FADN dataset', the accounting year under consideration can be retrieved through 'A_AI_70_DT' variable (i.e. Date of closure of accounts).

2.2 Some important notes before using the data

As regards units, in the 'FADN dataset', 'FLINT dataset' and 'Indicator dataset', all variables related to areas (or area-based) are expressed in ares, while in the 'Standard Results dataset' all variables related to areas (or area-based) are expressed in hectares. Therefore, some conversion may be necessary before using the data.

Besides, in the 'FADN dataset', 'FLINT dataset' and 'Indicator dataset', all monetary (or monetary-based) variables are expressed in national currency units (CU), except for Hungary where they are expressed in thousands CU. As regards the 'Standard Results dataset' and 'Typology dataset', all monetary (or monetary-based) variables are expressed in Euros. Therefore, when working on data for Hungary and Poland, it may be necessary to apply some conversion rules. In such cases the following formula is to be applied:

$$\text{Variable in Euros} = \text{Variable in CU} \times \text{Conversion Rate}$$

With Conversion Rate = 0.23908 for Poland and 0.003227 for Hungary.

It is sometimes necessary to differentiate the farms by their type of farming (TF). In such cases, one may therefore be warned that the use of the FADN variable 'A_TY_90_TF' is inappropriate as it refers to the TF at the time of selection, and not to the current TF, for which the information is given by variables 'GENERAL', 'PRINCIPAL' or 'PARTICULAR' from the 'Typology dataset'.

Similarly, information on economic sizes should be retrieved from 'TOTALSO', 'SIZECLASS' or 'SIZEESU' variables from the 'Typology dataset', and not from the FADN variable 'A_TY_90_ES' as the latter refers only to the economic size at the time of selection.

Besides, since that the information on the economic size in terms of standard output cannot be retrieved from the variable 'SE005' in the 'Standard Results dataset' (as this variable is NULL for all farms), such information on standard output is to be retrieved from variables 'TOTALSO' or 'SIZEESU' from the 'Typology dataset'.

3 DESCRIPTION OF THE VARIABLES IN THE 5 DATASETS

3.1 The 'FADN dataset'

The 'FADN dataset' consists of classic FADN data, broken down into 13 thematic data tables (Table 2).

Table 2: FADN data tables ('FADN dataset')

FADN data table	Theme
Table A	General information on the holding
Table B	Type of occupation
Table C	Labour
Table D	Assets
Table E	Quotas and other rights
Table F	Debts
Table G	Value added tax (VAT)
Table H	Inputs
Table I	Crops
Table J	Livestock production
Table K	Animal products and services
Table L	Other gainful activities directly related to the farm
Table M	Subsidies

The European Commission (EC) documents RI/CC 1680 v1.2 and RI/CC 1680 v2.0 (*Farm Return Data Definitions*) provide FADN data definitions for accounting year 2014 and accounting year 2015 respectively.

3.2 The 'FLINT dataset'

The 'FLINT dataset' consists in the data specifically collected for the FLINT project and covering a wide range of information on greening, land management, pesticides, nutrient balance, energy, water, farmers' use of extension, farmers' quality of life, etc. Similarly to the case of FADN, this dataset is organised in thematic data tables (Table 3), which are further detailed in Appendix A.

Table 3: FLINT data tables ('FLINT dataset')

FLINT data table	Theme
Table Z1	Information and Knowledge
Table Z2	Working Conditions and Quality Of Life
Table Z3	Innovation
Table Z4	Economic
Table Z5	Land Management
Table Z6	Risk Reduction
Table Z7	Pesticide Usage
Table Z8	Nutrient Balance
Table Z9	Energy
Table Z10	Water

The FLINT Deliverable 4.1 (*Farm Return Data Definitions for FLINT*) provides an extensive documentation on all variables considered within the FLINT data.

3.3 The 'Indicator dataset'

The 'Indicator dataset' contains all the 214 indicators produced within the FLINT project and computed based on FADN and FLINT variables. A specific FLINT deliverable (i.e. Deliverable 2.3) is devoted to the *Final set of indicators and variables*, but this set of indicators has further been the subject of regular adjustments over the course of the project. The final list of indicators available in the 'Indicator dataset' is presented in Table 4.

Table 4: Description of FLINT indicators available in the 'Indicator dataset'

Theme	Sub-theme	Indicator ID	Indicator description	Unit
Environment	Greening: Permanent grassland	E_1_1	Share of permanent grassland under intensive management	%
		E_1_2	Share of permanent grassland that is extensively managed with semi-natural vegetation	%
		E_1_3	Share of permanent grassland that is extensively managed with semi-natural vegetation under nature protection	%
	Greening: Existing/created areas of EFA	E_2_1	Preferred EFA element on farms with arable area	
		E_2_2	Share of potential EFA area on farms with arable area	%
	Semi-natural farmland areas	E_3_1	Share of semi-natural habitat area	%
	Pesticide usage (Pesticide risk score)	E_4_1	Pesticide usage	kg/ha
	Nutrient balance (N, P) (farm-gate balance)	E_5_1	Farm Gate N-Balance	kg N
		E_5_3	Nitrogen use efficiency (NUE)	
	Farm management to reduce nitrate leaching	E_10_1	Percentage of farm UAA with early catch crop	%
		E_10_2	Percentage of farm UAA with late catch crop	%
		E_10_3	Weighted percentage of catch crop within farm UAA	%
		E_10_4	Percentage of farm UAA with nitrate risk	%
	Farm management to reduce soil erosion	E_11_1	Percentage of farm UAA associated with erosion risk	%
		E_11_2	Percentage of erosion risk area not ploughed	%
		E_11_3	Percentage of erosion risk area with catch crop incorporated before winter	%

		E_11_4	Percentage of erosion risk area with catch crop incorporated after winter	%
		E_11_5	Percentage of erosion risk area with soil cover in every second row for vineyards or orchard	%
		E_11_6	Percentage of erosion risk area with soil cover in every row for vineyards or orchard	%
		E_11_7	Weighted percentage of erosion risk area with soil cover	%
		E_11_8	Percentage of farm area with erosion mitigation	%
	GHG total emissions on the farm	E_14_1	GHG emissions, at farm level	t CO2 eq.
	Water usage and storage	E_16_1	Direct blue water footprint (kg). Water consumption /kg of product.	m3/kg
		E_16_2	Direct blue water footprint (CU). Water consumption /CU of product.	m3/CU
		E_16_3	Water consumption metering. % of measured consumption	%
		E_16_4	Water price: Water cost/water consumption	CU/m3
		E_16_5	Main source of water	integer
	Irrigation practices	E_17_1	Water governance	integer
		E_17_3	Water consumption (m3)/irrigated area (ha)	m3/ha
		E_17_4	Water irrigation system	integer
		E_17_5	Energy dependence	integer
	Crop species diversity	E_18_1	Crop species diversity	decimal
Economic	Innovation	EI_1_1	Product Innovation at farm level	dummy
		EI_1_2	Process innovation at farm level	dummy
		EI_1_3	Market and organisational innovation at farm level	dummy
		EI_1_4	Innovation at farm level	dummy
	Producing under a label or brand	EI_2_1	Farm under label	integer
		EI_2_2	Experience in label production	years
		EI_2_3	Degree of certified organic label (minimum across activities)	%
		EI_2_4	Degree of certified organic label (weighted average of activities)	%
		EI_2_5	Share of UAA under certified organic label	share
		EI_2_6	Share of UAA under EU public quality label	share
		EI_2_7	Share of UAA under other collective quality label	share
	Types of market outlet	EI_3_1_4010	Number of markets outlets for cereals (excluding straw and silage)	integer
		EI_3_1_4020	Number of markets outlets for oilseeds and protein crops	integer
		EI_3_1_4030	Number of markets outlets for fruits and vegetables (including citrus fruits, but excluding olives)	integer
		EI_3_1_4040	Number of markets outlets for olives	integer
		EI_3_1_4045	Number of markets outlets for olive oil	integer
		EI_3_1_4050	Number of markets outlets for grapes	integer
		EI_3_1_4055	Number of markets outlets for wine	integer
		EI_3_1_4060	Number of markets outlets for beef and calves	integer
		EI_3_1_4070	Number of markets outlets for cow's milk	integer
		EI_3_1_4080	Number of markets outlets for pig	integer
		EI_3_1_4090	Number of markets outlets for sheep and goats (milk, milk product and meat)	integer
		EI_3_1_4100	Number of markets outlets for poultry	integer
		EI_3_1_4110	Number of markets outlets for eggs	integer
		EI_3_1_4120	Number of markets outlets for other sector	integer
		EI_3_1_4130	Number of markets outlets for fodder (including hay, straw, silage)	integer
		EI_3_1_4140	Number of markets outlets for cow milk products	integer
		EI_3_1_4150	Number of markets outlets for piglets	integer
		EI_3_2_4010	Exclusive outlet for cereals (excluding straw and silage)	integer

		EI_3_2_4020	Exclusive outlet for oilseeds and protein crops	integer
		EI_3_2_4030	Exclusive outlet for fruits and vegetables (including citrus fruits, but excluding olives)	integer
		EI_3_2_4040	Exclusive outlet for olives	integer
		EI_3_2_4045	Exclusive outlet for olive Oil	integer
		EI_3_2_4050	Exclusive outlet for grapes	integer
		EI_3_2_4055	Exclusive outlet for wine	integer
		EI_3_2_4060	Exclusive outlet for beef and calves	integer
		EI_3_2_4070	Exclusive outlet for cow's milk	integer
		EI_3_2_4080	Exclusive outlet for pig	integer
		EI_3_2_4090	Exclusive outlet for sheep and goats (milk, milk product and meat)	integer
		EI_3_2_4100	Exclusive outlet for poultry	integer
		EI_3_2_4110	Exclusive outlet for eggs	integer
		EI_3_2_4120	Exclusive outlet for other sector	integer
		EI_3_2_4130	Exclusive outlet for fodder (including hay, straw, silage)	integer
		EI_3_2_4140	Exclusive outlet for cow milk products	integer
		EI_3_2_4150	Exclusive outlet for piglets	integer
		EI_3_3_4010	Diversified outlet for cereals (excluding straw and silage)	integer
		EI_3_3_4020	Diversified outlet for oilseeds and protein crops	integer
		EI_3_3_4030	Diversified outlet for fruits and vegetables (including citrus fruits, but excluding olives)	integer
		EI_3_3_4040	Diversified outlet for olives	integer
		EI_3_3_4045	Diversified outlet for olive oil	integer
		EI_3_3_4050	Diversified outlet for grapes	integer
		EI_3_3_4055	Diversified outlet for wine	integer
		EI_3_3_4060	Diversified outlet for beef and calves	integer
		EI_3_3_4070	Diversified outlet for cow's milk	integer
		EI_3_3_4080	Diversified outlet for pig	integer
		EI_3_3_4090	Diversified outlet for sheep and goats (milk, milk product and meat)	integer
		EI_3_3_4100	Diversified outlet for poultry	integer
		EI_3_3_4110	Diversified outlet for eggs	integer
		EI_3_3_4120	Diversified outlet for other sector	integer
		EI_3_3_4130	Diversified outlet for fodder (including hay, straw, silage)	integer
		EI_3_3_4140	Diversified outlet for cow milk products	integer
		EI_3_3_4150	Diversified outlet for piglets	integer
		EI_3_4_4010	Main outlet for cereals (excluding straw and silage)	integer
		EI_3_4_4020	Main outlet for oilseeds and protein crops	integer
		EI_3_4_4030	Main outlet for fruits and vegetables (including citrus fruits, but excluding olives)	integer
		EI_3_4_4040	Main outlet for olives	integer
		EI_3_4_4045	Main outlet for olive oil	integer
		EI_3_4_4050	Main outlet for grapes	integer
		EI_3_4_4055	Main outlet for wine	integer
		EI_3_4_4060	Main outlet for beef and calves	integer
		EI_3_4_4070	Main outlet for cow's milk	integer
		EI_3_4_4080	Main outlet for pig	integer
		EI_3_4_4090	Main outlet for Sheep and goats (milk, milk product and meat)	integer
		EI_3_4_4100	Main outlet for poultry	integer
		EI_3_4_4110	Main outlet for eggs	integer
		EI_3_4_4120	Main outlet for other sector	integer
		EI_3_4_4130	Main outlet for fodder (including hay, straw, silage)	integer
		EI_3_4_4140	Main outlet for cow milk products	integer
		EI_3_4_4150	Main outlet for piglets	integer
	Past/Future duration in farming	EI_4_1	Experience in decision making of the interviewed manager on the farm	years

	(Survival propensity)	EI_4_2	Age of starting as a decision maker, for individual farms only	years
		EI_4_3	Succession	integer
	Efficiency field parcel (LPIS)	EI_5_1	Number of reference parcels	integer
		EI_5_10	Furthest reference parcel management	integer
		EI_5_11	Stated favorability of the field pattern	integer
		EI_5_2	Average size of reference parcels	ares
		EI_5_3	Average distance of reference parcels	kilometers
		EI_5_4	Normalized average distance of reference parcels	decimal
		EI_5_5	Maximum distance of reference parcels	kilometers
		EI_5_6	Standardized maximum distance of reference parcels (Grouping index)	decimal
		EI_5_7	Normalized maximum distance of reference parcels Or Doubly-normalized maximum distance of reference parcels (Structural index)	ha-1
		EI_5_8	Minimum distance of reference parcels	kilometers
		EI_5_9	Normalized range of reference parcels distances	decimal
	Modernisation of the farm Investment	EI_6_1	Average age of machinery	Years
		EI_6_2	Average age of dairy assets	Years
		EI_6_3	Average age of sheep farm assets	Years
		EI_6_4	Average age of pig farm assets	Years
		EI_6_5	Average age of winery farm assets	Years
		EI_6_6	Average age of agricultural buildings	Years
	Insurance (events outside control of farm) Also to include personal & farm insurance	EI_7_1	Adoption of crop insurance at farm level	integer
		EI_7_2	Adoption of building insurance at farm level	integer
		EI_7_3	Adoption of livestock insurance at farm level	integer
		EI_7_4	Adoption of disability insurance at farm level	integer
		EI_7_5	Number insured categories at farm level	integer
	Share of output under contract with fixed price Delivery contracts	EI_8_1	Adoption of contracts at farm level	integer
		EI_8_14	Average share of turnover by contracts	%
		EI_8_2	Contracts with price specification at farm level	integer
		EI_8_3	Contracts with quantity specification at farm level	integer
		EI_8_4	Contracts with duration specification at farm level	integer
		EI_8_5	Contracts with delivery specification at farm level	integer
		EI_8_6	Contracts with quality specification at farm level	integer
	Risk exposure (non-agricultural activities)	EI_8_7	(Approximation of) share of turn over under contract	integer
		EI_9_1	Adoption of farm diversification	integer
		EI_9_10	Count of other income sources at farm level	integer
		EI_9_2	Adoption of farm processing / sales	integer
		EI_9_3	Adoption of off farm investments	integer
		EI_9_4	Adoption of credit avoidance	integer
		EI_9_5	Adoption of hedging	integer
		EI_9_6	Adoption of financial reserves	integer
		EI_9_7	Adoption of production contracts	integer
		EI_9_8	Off-farm employment	integer
		EI_9_9	OGA (with possible subcategories)	integer
Social	Advisory service provided to the farm	S_1_1	Advisory contacts per year per holding.	integer
		S_1_2_1	Advisory contacts per year per holding: Accountancy, bookkeeping, taxes	integer
		S_1_2_2	Advisory contacts per year per holding: Management, business planning, and marketing	integer
		S_1_2_3	Advisory contacts per year per holding: crop production	integer
		S_1_2_4	Advisory contacts per year per holding: livestock production	integer
		S_1_2_5	Advisory contacts per year per holding: animal products and services	integer
		S_1_2_6	Advisory contacts per year per holding: other gainful activities directly related to the farm	integer
		S_1_2_7	Advisory contacts per year per holding: investments	integer

		S_1_2_8	Advisory contacts per year per holding: other	integer
		S_1_4	Number of main information sources about CAP	integer
	Education and training	S_2_1	Degree of agricultural training of the manager	category (1-3)
		S_2_2	Training days for manager	category (0-4)
		S_2_3	Total days for training	category (0-4)
		S_2_4	Share of participation in training	%
		S_2_5	Number of persons participating in training events	integer
	Ownership/management	S_3_6	Financial involvement	integer
		S_3_7	Technology use	integer
	Social engagement/participation	S_4_1	Social Engagement	integer
		S_4_2	Degree of social engagement	integer
		S_4_3	Degree of agricultural engagement	integer
		S_4_4	Degree of environmental engagement	integer
		S_4_5	Degree of societal engagement	integer
	Employment and working conditions	S_5_1	Total Labour in Annual Working Units	integer
		S_5_13	Share of other gainful work in total work	%
		S_5_14	On farm annual working units for manager and family labour /Unpaid labour input in working units	integer
		S_5_15	Off farm annual working hours owner	integer
		S_5_16	Off farm annual work spouse	integer
		S_5_17	Annual working hours manager	integer
		S_5_18	Average weekly working hours of manager	integer
		S_5_19	Length peak season in days	integer
		S_5_2	Share of unpaid labour of total labour	%
		S_5_20	Annual working hours during peak season	integer
		S_5_21	Average day working hours during peak season	integer
		S_5_22	Holidays per year	integer
		S_5_23	Regular days-off per week	integer
		S_5_24	Working conditions : Replacement during illness	dummy
		S_5_25	Working conditions : Replacement other than in case of illness	dummy
		S_5_27	Length of peak season in months	integer
		S_5_28	Share of total manager working hours worked during peak season	%
		S_5_29	Workload seasonality index during peak months	integer
		S_5_3	Labour force directly employed by the holding annual working hours (A+B+C+D) Total Labour in hours	integer
		S_5_30	Workload seasonality index during non-peak months	integer
		S_5_4	Regularly employed labour force annual working hours (A+B+C)	integer
		S_5_5	Non-family labour force employed on a non-regular basis annual working hours (D)	integer
		S_5_6	Family labour force annual working hours (A+B) Unpaid labour input in hours	integer
		S_5_7	Non family regularly employed labour force annual working hours(C)	integer
		S_5_8	Holder annual working hours (A)	integer
		S_5_9	Member of the holder's family annual working hours (B)	integer
	Quality of life/Decision Making	S_6_1	Satisfaction with job	integer
		S_6_10	Overall quality of life	integer
		S_6_2	Satisfaction with work life balance	integer
		S_6_3	Satisfaction with being a farmer	integer
		S_6_4	Satisfaction with quality of life	integer
		S_6_5	Satisfaction with freedom of making decision	integer
		S_6_6	Stress perception	integer
		S_6_7	Change in freedom	category (1-5)
		S_6_8	Change in stress	category (1-5)
		S_6_9	Perception of farming	category (1-4)

	Local Participation	S_7_1	Local participation	dummy
	Social Diversification Index	S_7_2	Social diversification index (real sum)	integer

3.4 The 'Standard Results dataset'

The 'Standard Results dataset' consists of FADN Standard Results data, based on FADN data. All variables from this dataset are documented in the EC document RI/CC 1750 (formerly RI/CC 882) (*Definitions of Variables used in FADN standard results*).

3.5 The 'Typology dataset'

The 'Typology dataset' consists in variables generated by RICA1 server, from FADN data. The EC document RI/CC 1500 (*Typology Handbook*) documents all these typology variables.

4 STRENGTHS AND WEAKNESSES OF THE DATA IN THE 'FLINT DATASET' AND 'INDICATOR DATASET'

Huge efforts have been devoted all along the FLINT project to design, collect, organise, use and analyse an important set of data complementing the information that the 'FADN dataset' usually provides. Looking back at the whole database produced within FLINT helps identify strengths and shortcomings in the data generation process. Hence, this section aims at dealing with the question of how reliable the data in the 'FLINT dataset' and the indicators in the 'Indicator dataset' are to support analyses and provide trustful policy recommendations. We base this discussion on own exploration of the data, as well as on the numerous case study deliverables 5.2 that have been produced within WP5 using the whole database.

We hereafter first summarise some positive evidences of the usability of data, and we then discuss in details the limits in view of learning lessons for the future if one would be willing to duplicate or upscale the FLINT experience within another context. In such a case, issues will have to be mostly addressed based on that specific context, objectives and expectations. Usability regards data quality. The latter could be assessed in different ways. We address here the issues of missing data and outliers as this enables drawing a good picture with regard to the overall quality.

4.1 Strengths of the FLINT test project: evidence of the usability of the data

The main positive point in terms of data usability is that there were several illustrative analyses using the whole database. Indeed, out of the 15 case study FLINT 5.2 deliverables produced within WP5, 14 were performed on FLINT data and/or indicators, in combination with FADN data or alone (i.e. Brennan et al. (2016a), Brennan et al. (2016b), Eguinoa and Intxaurrendieta (2016), Herrera et al. (2016a), Herrera et al. (2016b), Kis Csati and Keszthelyi (2016), Latruffe et al. (2016a), Latruffe et al. (2016b), Lynch et al. (2016), O'Donoghue et al. (2016), Saint-Cyr et al. (2016), Uthes (2016), van Asseldonk et al. (2016), van der Meulen et al. (2016)). The diversity of analyses performed underline that the wide thematic spectrum from the FLINT data is useful.

Another point to note from these deliverables is that the analyses show numerous significant relationships, revealing that the FLINT variables and indicators used in the analyses are relevant. The list of FLINT variables and indicators used within the FLINT WP5 deliverables are reported in Appendix B, and the information is summarised in Table 5. Some salient points can be noticed from this table.

Firstly, none of the variables in FLINT tables Z7 (Pesticide Usage), Z8 (Nutrient Balance) and Z9 (Energy) were used.

Secondly, only 3 economic variables (FLINT table Z4) were used.

Thirdly, in general approximately one-fourth of the available FLINT variables have been used in the FLINT analyses. As for the FLINT indicators, they have been more widely used, namely 60% of the total FLINT

indicators (51 economic indicators, out of 122; 25 environmental indicators, out of 32; and 52 social indicators, out of 60).

This does not mean that the unused variables and indicators do not make sense: it may be that some variables have been used to produce the indicators and have not been used in the case study deliverables; also, time was too short to carry out case studies on all indicators; finally, as it will be seen below, some data have not been used due to their poor quality in this test project.

Table 5: Number of 'FLINT dataset' and 'Indicator dataset' variables directly used in WP5 analyses (case study deliverables D5.2)

	Number of variables / indicators used
Table Z1: Information and Knowledge	133
Table Z2: Working Conditions and Quality Of Life	9
Table Z3: Innovation	10
Table Z4: Economic	3
Table Z5: Land Management	28
Table Z6: Risk Reduction	60
Table Z7: Pesticide Usage	0
Table Z8: Nutrient Balance	0
Table Z9: Energy	0
Table Z10: Water	26
Economic indicators (EI)	51
Environmental indicators (E)	25
Social indicators (S)	52

As regards the usability of data, the case of the social indicators relating to working conditions and quality of life (table Z2 in Appendix A) should be underlined. This category of information contains very few missing data, as discussed in more details section 4.2.1 and in Table 6, making the data very usable in comparison to data from other tables. Also, the multiple information collected as regard quality of life is highly consistent with the question directly asked, as shown in the case study deliverable by Herrera et al. (2016a). The authors combined five indicators of perceived satisfaction on several dimensions of quality of life and found that the combined indicator mirrored the indicator of quality of life directly asked to the farmer. Hence, the authors conclude that 'it is possible to collect subjective information from quality of life either asking one single question which reflects several dimensions of quality of life, or asking several questions capturing various dimensions to construct one composite indicator of quality of life'.

4.2 Limits in the usability of the data: lessons for future replications of the FLINT test project

4.2.1 Missing data

FLINT data collection and data generation processes have generated lots of missing data. Of course, missing data is not a phenomenon that is specific to the FLINT data collection process per se as this is

intrinsically linked to surveys in general. But the extent of the presence of missing data within a dataset gives a good picture of the exploitability of the data and the adequacy of the data generation processes at stake (e.g. data structure, data storage).

This section describes the extent of missing data within the FLINT data and indicators, and presents some of the reasons that could explain this situation so that the mistakes made in this test project are not replicated if the experience is extended in the future. It is to be recalled that the WP5 analyses have been conducted on flat FLINT data and indicators, and therefore so are the analyses described hereafter.

Missing data means that a value for a variable is absent due to the fact that (i) on the hand it is non-reported by the farmer or data-collector, where in reality this farm should have reported a value, (ii) on the other hand it is generated as so by the data-generation process (flatten process). Addressing the reasons why values are missing is quite relevant in view of basing further replication or upscaling of the FLINT experience.

4.2.1.1 Missing data in the information collected ('FLINT dataset')

We have generated a set of statistics for those of the 1,173 FLINT variables that are non-boolean, as shown in Appendix D. By construction, boolean variables take the value of 1 or NA (i.e. 'non available' or missing value), while non-boolean variables are not supposed to have NA values. If they have, then this is not by construction and hence these NA values can inform on problems with the variables. Appendix D shows, among others, the number of missing data (i.e. NA), the number of valid observations, and the share of valid observations in total observations (1,099), per variable.

Table 6 summarises this information and presents basic statistics on the extent of missing observations (over total observations = 1,099) at the themes levels, i.e. the FLINT Z tables. It highlights, as mentioned above, that 'Table Z2: Working Conditions and Quality Of Life' is the FLINT data table for which the extent of missing observations is not problematic, as on average the Z2 variables contain 97% of valid observations (3% of missing observations).

It is however more problematic for all other FLINT tables, for which the variables in the tables contain on average one third, and less, of valid observations. More precisely, Z3 (Innovation), and Z8 (Nutrient Balance) variables are to be handled with special care as they contain, at the most, less than 40% of valid observations. It is also worthwhile noting that 12 variables related to 'Innovation' (Z3), 116 variables related to 'Nutrient Balance' (Z8) and 27 variables related to 'Energy' (Z9) contain no valid observations at all. This poor result questions the real need and the appropriate design of the concerned variables. Overall, as discussed in section 4.2.1.3, it questions the structure of the dataset that cannot disentangle properly 'real missing' values, from 'not relevant' values, from 'zero' values.

More generally, Figure 2, representing the density of valid observations for the 'FLINT dataset' variables (in X-axis), shows that out of these variables, less than 200 are adequately informed with non-missing observations.

Overall, these statistics (Table 6 and Appendix C) on missing/valid observations are to be kept in mind while assessing the quality of the analyses conducted on the data, and should, among other, question data design, collection and organisation processes if one would aim at replicating the FLINT experience in another context. Nevertheless, these routine statistics could help select appropriate variables, with regard to the information they contain, while designing indicators or conducting analyses.

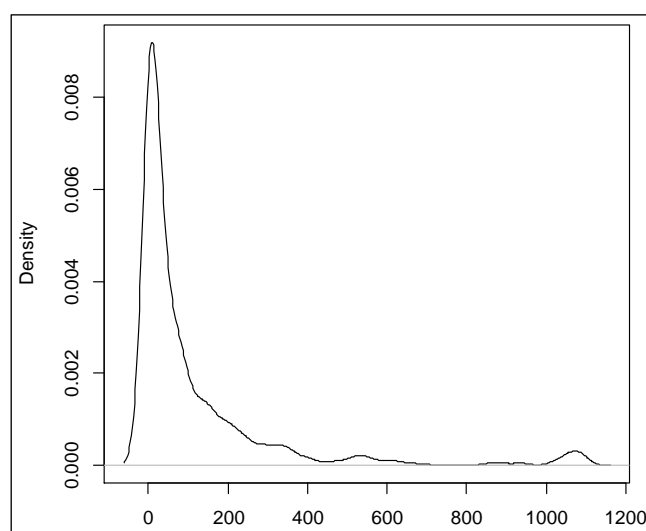
One question could be whether the extent of missing data differs across countries and whether this could be related to the way the data has been collected in the countries. Going back to the example of Z2 variables, with 97% of valid observations over the whole sample, the lowest shares of valid observations are in the Netherlands (92%) and Spain (93%) and the highest are in France (99.4%), Poland (99.8%) and Greece (99.6%). One reason explaining the low figure in the Netherlands is that in this country a large part of the FADN (EU and national extension) is collected via data transfer and not via farmers' interviews, and hence data collectors in this country may not be used to collect data through interviews. It should be also noted that Germany, where farmers self-reported the data (no data collectors) has an average share of valid observations for these variables (95%). But concluding on the reasons as to why the extent of problematic variables would differ across countries, is not possible. This could be due to differences in the

way data has been collected and to data infrastructure, or to the way data collectors have been trained by FLINT partners, or to the way FLINT partners have understood the questions, or to cultural differences across countries (some questions may be more sensitive in some countries than in others), etc.

Table 6: Statistics on the percentage of valid observations (i.e. non NA) of ‘FLINT dataset’ variables per theme

	Min.	Median	Mean	Max.
Table Z1: Information and Knowledge	0.3	6.4	12.9	85.4
Table Z2: Working Conditions and Quality Of Life	85.4	98.4	97.0	99.6
Table Z3: Innovation	0.0	2.0	4.4	37.3
Table Z4: Economic	4.4	19.0	20.9	49.0
Table Z5: Land Management	0.2	18.3	31.3	96.7
Table Z6: Risk Reduction	1.6	14.8	23.8	95.3
Table Z8: Nutrient Balance	0.0	0.5	3.8	37.7
Table Z9: Energy	0.0	0.3	9.5	98.2
Table Z10: Water	4.7	20.6	19.6	41.5

Figure 2: Density of valid observations for ‘FLINT dataset’ variables



4.2.1.2 Missing data in the indicators calculated (‘Indicator dataset’)

Similarly to what has been previously presented (section 4.2.1.1), missing observations are naturally also at stake for the FLINT indicators (i.e. the ‘Indicator dataset’).

In Appendix D, a set of basic statistics, among which the number of missing/valid observations and the share of valid over total observations (1,099), is reported for each of the 214 FLINT indicators. Table 7 summarises this information per category of indicators (economic, environmental, and social) and the extent of missing observations. It could generally be noticed that FLINT indicators (‘Indicator dataset’) contain much fewer missing observations than ‘FLINT dataset’ variables (Table 6). On average, economic indicators contain about 45% of valid observations, while the respective figures are 55% for environmental indicators and 86% for social indicators. This might sound surprising in some cases given the information provided in section 4.2.1.1 (a lot of missing observations in the ‘FLINT dataset’ used to compute the indicators). To a certain extent this reveals that some missing observations in ‘FLINT dataset’ variables have been given the value 0 during the computation of the indicators (see section 4.2.1.3). Looking back at the data and after using them for the case study deliverables 5.2, it became clear that the proper

computation would be to not compute an indicator for a farm if at least one of the indicators' component is missing for this farm.

Some indicators contain no missing data (100% valid observations). Such a situation concerns 15 economic indicators, 4 environmental indicators and 17 social indicators. Nevertheless, 74 economic indicators, 12 environmental indicators and 6 social indicators contain more than 60% of missing observations (i.e. 40% of valid observations and fewer), questioning therefore the efficiency of data model or the appropriate design of the concerned indicators along with their usability in the analyses.

Table 7: Statistics on the percentage of valid observations (i.e. non NA) for 'Indicator dataset' variables

	Min.	Median	Mean	Max.
Economic indicators (EI)	2.8	26.4	44.7	100.00
Environmental indicators (E)	0.5	63.2	55.0	100.00
Social indicators (S)	15.1	96.8	86.2	100.00

4.2.1.3 Reasons for missing data

Depending on the variables, the extent of missing observations might reveal highly problematic (e.g. Z3 variables) or acceptable (e.g. Z2 variables). Besides, the absence of information collected in the first place means that some indicators could not be calculated for numerous farms. Nevertheless, the high occurrences of missing observations within a dataset can have several origins, as explained below.

1. The information was not collected in some countries, notably because it is not relevant

Some tables were not collected in specific countries. Some reasons may be that they proved too problematic for the particular context, in terms of acceptability by farmers, cost of data collection, relevance, etc. For instance, none of the Z10 variables (water sources and usages) in the 'FLINT dataset' was collected in Finland. Similarly, this is also the case for information on pesticide use (FLINT data table Z7: Pesticide Usage), which has not been collected in Ireland.

2. The information was too complex and too long to collect from the farmers

This is particularly the case for the exhaustive data supposed to be collected to calculate the nutrient balances or pesticide use (see data table Z8 (Nutrient Balance) from 'FLINT dataset' in Appendix A) and this is reflected in the low number of valid observations shown in Table 6. Another example relates to data table Z3 (Innovation) from 'FLINT dataset' (see Appendix A) for which information on agricultural machinery and agricultural building was not always exhaustive for some cases and proved to be a real burden to fill in, and this resulted in a lot of missing values (Table 6). Of course it is obvious that each farmer may not be concerned by all categories of assets, but in such cases these missing values should be assigned 0 values instead of being considered as missing values.

Also, even if some FLINT information collection was not really time consuming, some was too difficult to provide in some countries. This is for instance the case for the estimation of water consumption (see data table Z10 from the 'FLINT dataset' in Appendix A), where estimating the quantity of water used on the farm proved to be problematic to some farmers, even more when it relates to livestock which consumption can be from watercourses and thus be unnoticed by the farmer.

3. Some questions may not have been understood properly by the farmers

This is for example the case for innovations and energy, which might explain the high percentage of missing values in the related variable, as reflected in Table 6. Regarding the questions on innovation, which necessitate a subjective judgement from farmers, respondents had trouble in some countries to fully grasp what could be understood as an innovation, or to disentangle the various types of innovations

(see Appendix A for detailed categories on data table Z3). As for energy, the questions were too complicated and embedded within each other (see Appendix A, data table Z9).

Uthes (2016) provides an additional example in her analysis of the issue of soil organic matter. According to her, the question relating to the area of ploughing in of straw (variable Z5_SO_5020_A_1) was too specific and may have caused misunderstandings. It may also have reduced the information collected that is useful to assess some environmental issues such as soil organic matter. Uthes (2016) suggests that a more general question on straw return to field should have been asked, as straw return to field is not only possible in combination with a plough, but with alternatives such as direct seeding.

Of course farmers are not responsible for their poor understanding of a question. It rather indicates the question has not been well designed (which is acceptable for a test project) or that data collectors have not been trained properly (which may not happen again if the experience is repeated over time).

4. Only a few farms concerned by the issue

This is for example the case for the share of turnover depending on marketing contracts (Z6_CO_2010_SH_*, data table Z6 in Appendix A). Within the FLINT project, it was decided not to collect this information as a global value for the farm, but, rather, the various production sectors should be distinguished in order to have meaningful information. For this reason, 17 production sectors were distinguished. However, only a few farms were concerned for some specific production sectors and in these cases only a few observations were non missing. For instance, only two farmers reported a marketing contract for of eggs.

The same applies to information on energy (Appendix A, data table Z9), where variables regarding the use of on-farm renewable energy for electricity (i.e. Z9_EU_1080_* variables) contain less than 60 valid values over the whole sample of 1,099 farms revealing that 60 farms are concerned by such information (or have understood the question –see point above– or are willing to answer –see next point).

Such situation has an impact on the magnitude of missing values reported for some indicators. Similarly to the issue on marketing contracts reported above, one example deals with market outlets where, in order to provide consistent and meaningful information, indicators were developed for each of the 17 production sectors and hence concerned only a few farms (EI_3_1_* ‘Number of markets outlets’ for each production sector; EI_3_2_* ‘Exclusive outlet’ for each production sector; EI_3_3_* ‘Diversified outlet’ for each production sector; EI_3_1_* ‘Main outlet’ for each production sector).

Therefore, in the above cases (and any similar situation) it is strongly recommended to design data-generation processes that clearly generate zeros for farms not concerned by the issues observed.

5. Use of a missing observation to capture a 0 value

This problem is related to the choice that has been made in the FLINT project to be consistent with the FADN structure.

Indeed, some well-known, but really quite problematic, feature of the FADN-like flat data tables, is that for some variables it is not possible to distinguish between a real missing value (that is to say, NA) or a value 0. This is for example the case in FADN for the area for each crop or the number of heads for each livestock: these variables have no 0 value, that is to say that the observations are available only for those farms having the specific crop or the specific livestock, while farms without this crop or livestock are assigned NA. In this case, users of FADN data attribute the value 0 to all farms with NA, assuming that when a farm has NA this means that it is because it does not have the specific crop or specific livestock. However, there may be real reasons behind the NA value. For example, farmers may not wish to give the information and in this case the NA would truly indicate that the information is not available, and hence should not be replaced by 0. Another example is that FADN data processors (at the level of the national liaison agency or the DG AGRI level) could have replaced the collected value by NA if the existing value appeared highly problematic from the coherence tests and could not be corrected. In this case, the NA value really indicate a missing observation in the data made available to data users, and should thus not be replaced by 0 by users.

To be consistent with the FADN data, the choice has been made in the FLINT project to follow the same strategy when collecting the FLINT data, that is to say it was not allowed to record 0 values in the FLINT data. However, this has highly limited many of the analyses. While in the abovementioned case of crop areas and livestock numbers in the FADN it is not highly likely that the NAs mean real NAs (since these variables are accountancy-based), this is not true for the FLINT variables that rely on farmers' memory or subjective opinions. During the FLINT collection data, farmers may not have wished to provide information that seems sensitive to them (e.g. regarding working conditions) or risky (e.g. regarding pesticide use for fear of being controlled or taxed), or may not have remembered the value for some type of information. In these cases, NA would be recorded for these farmers, and this would be realistic. These NA values should thus not be replaced by 0 in subsequent analyses.

In the FLINT analyses, missing values have been transformed into 0 values for some variables following the same strategy as the crop areas and livestock numbers mentioned above. This is for example the case of EFA elements, energy use and estimated water consumption (respectively data table Z6, Z9 and Z10 of 'FLINT dataset'). Although in the case of EFA one could imagine that it is possible that some farmers have 0 meter of some specific EFA elements, it is more difficult to see this as realistic for water consumption: all farms consume a minimal – non-zero – quantity of water, even if very small. In any case, even if it is realistic to assume that NAs may capture 0 values for some variables and some farmers (such as EFA elements), it may not be correct in reality and may lead to erroneous indicators calculated with these variables, e.g. share of EFA in farm area, greenhouse gas (GHG) emissions, or nitrogen (N) indicators. For the calculation of GHG or N indicators, NA values observed in 'FLINT dataset' Z8 variables (Nutrient Balance) concerning the quantities of livestock or crop products were considered as zeros. Of course, this is definitely not true for all cases, since the burden of filling in Z8 information probably led to many true NA values. Also, this results in lower environmental performance (i.e. high values for indicators about GHG and N) for farmers who stated accurate values for those variables, compared to farmers for which NA values really mean missing values. And this highly affects, in turns, conclusions and policy recommendations. Hence, a correct implementation of these indicators imply that these should be computed only for observations with valid values, of course providing that missing values can be clearly disentangled from zero values in the 'FLINT dataset' variables.

Related to that, one can also mention the inconsistencies across countries in recording 0 values for the 'FLINT dataset' variables. In general, similarly to the FADN case and as decided in the FLINT project, 0 values have not been recorded, and therefore NAs are generated when flattening the database. However, for some variables this was not true in some countries of the FLINT project. Table 8 shows the descriptive statistics per country for four variables in the 'FLINT dataset'. The closing quantity for other animals (Z8_LS_900_CQ) has generally been filled as an NA observation when other animals did not exist on the farm (and hence in this case Z8_LS_900_CQ in fact is a zero), similarly to the above-mentioned case of crop areas and livestock numbers in FADN. However, in Poland, not only there are NAs but there is also one farm with value 0. Similarly, the quantity of cow shed of age above 50 years old (Z3_AB_4010_Q_9) is NA or non-zero for all countries, except for Finland where one farm has the value 0 and 46 farms have the value NA. The same observation can be made from the consumption of water that is recorded from groundwater (Z10_WU_1000_WM_4): in two countries (France and the Netherlands), there are a lot of missing data, suggesting that these data capture 0 values. However, there are also 0 values, casting doubt on what is captured by NAs. Regarding the share of revenue from livestock and livestock products under certified organic label (Z4_LA_1000_LP), Table 8 shows that two countries, namely Finland and France, have not followed the strategy where a 0 value is recorded as NA but have followed a more logical and relevant strategy: some farms have missing observations and some others have a 0 value. From this, it can be understood that NAs are truly missing values, which could be for farms that have no livestock and livestock products (in which case, asking their share under certified label has no meaning), and that 0 values are true 0, reflecting a null share under certified organic label for those farms having some livestock and livestock products.

Table 8: Descriptive statistics of four variables highlighting the different strategies of FLINT partner countries with regard to 0 values

	Minimum	Mean	Number of NAs
Z8_LS_900_CQ ('Closing quantity for Other animals')			
Germany	0.7	1.9	50
Greece	NA	NA	124
Spain	NA	NA	128
Finland	NA	NA	49
France	NA	NA	280
Hungary	1736.2	1736.2	101
Ireland	NA	NA	63
Netherlands	NA	NA	155
Poland	0	0	145
Z3_AB_4010_Q_9 ('Quantity of Cow shed (places) of age: year 50 above')			
Germany	14	69.8	46
Greece	NA	NA	124
Spain	NA	NA	128
Finland	0	25.3	46
France	2	22.3	271
Hungary	30	90	99
Ireland	NA	NA	63
Netherlands	11	14.3	152
Poland	5	23.9	137
Z10_WU_1000_WM_4 ('Consumption recorded from Groundwater')			
Germany	36	4817.4	47
Greece	13500	13500	123
Spain	15	1507.6	126
Finland	NA	NA	49
France	0	15082.5	233
Hungary	600	20603.8	97
Ireland	NA	NA	63
Netherlands	0	576	95
Poland	53	165	144
Z4_LA_1000_LP ('Certified Organic Label: Share of revenue from livestock and livestock products')			
Germany	100	100	49
Greece	85	92.5	122
Spain	100	100	127
Finland	0	39.7	39
France	0	30	260
Hungary	NA	NA	102
Ireland	NA	NA	63
Netherlands	100	100	143
Poland	NA	NA	146

4.2.2 Range of observations and problematic values

Numerous tests and routines have been designed and applied to the information collected in FLINT so as to ensure the highest quality as possible. Tests have been designed in the same way as RICA1 tests (see FLINT Deliverable 4.4). Tests mainly related to cross checks with other data, and also in some cases to minimum or maximum possible values. They were designed before the collection of data and deeply revised after the data was collected.

However, once the data had been proceeded, it has become obvious that some RICA1 tests were not appropriate because some situations had not been a priori anticipated. Which is quite typical for data that are collected for the first year.

Below are a few examples of RICA1 tests to illustrate:

- With regard to Z3_IN_*_C variables on costs on product or process innovations, a null cost was not allowed by the tests, although such a situation may happen in the reality and was observed for some farms but could not be recorded.
- As regards the number of contacts with advisory services (Z1_AS_*_Q_*), it was upper bounded to 48 by the tests, although during the data collection a higher number was observed. Greater numbers are considered as suspicious by the test while in most cases they are just reflecting the true reality.
- According to the tests, the year a farmer entered into a certification process of organic production could not be before 1993 namely the start of the EU organic labelling scheme, while in some situations, mostly in France where organic labelling started earlier, farmers got certified before 1993.

The erroneous or misspecified limits imposed in some RICA1 tests of the FLINT project constrained the range of values for some variables and induced a loss of information. This should be kept in mind and improved in the FLINT test is replicated in the future.

Although RICA1 coherence tests aimed at improving the overall data quality, they did not avoid outliers (or extreme observations). We discuss here the extent of outliers in the 'FLINT dataset' and 'Indicator dataset'. Prior to any statistical analysis one of the first task to be performed on a dataset is to find, to characterise, and potentially to correct outliers. Although the presence of some outliers in a large dataset can be expected, the magnitude of the presence of outliers gives a good overview of general data quality of a dataset, as outliers can indicate faulty data or erroneous procedures in the data generation process. Different methods for detecting outlying values exist. When the amount of data or variables to inspect is reasonable, this can be done manually, by applying visual checks on graphs or running basic statistical tests. When the amount of data is large, outlier detection needs automated routines and specific statistical procedures. Although different outlier detection statistical methods exist, two categories can be distinguished: univariate methods (looking at only one variable at a time) and multivariate methods (looking simultaneously at more than one variable and their relationship). The use of either category is generally up to data users and is strongly related to the type of future analysis to be performed on the data.

4.2.2.1 Outliers detection through statistical procedures

In order to assess the overall quality of variables available in the 'FLINT dataset' and 'Indicator dataset', and to detect the presence of outliers, we have here performed univariate methods based on (i) Chauvenet's criterion; (ii) Peirce's criterion; and (iii) Grubbs' test. These tests have been applied to all variables in the 'FLINT dataset' and 'Indicator dataset', except for boolean variables, categorical variables or indicators (including dummies), and variables from the 'Indicator dataset' that are solely based on FADN variables. Moreover, considering that detecting outliers is only possible on variables with three and more observations, a total of 677 'FLINT dataset' variables and 86 'Indicator dataset' variables have been tested for the presence of outliers. Hence, for each variable/indicator the number of outliers, as well as the percentage of identified outliers within the total number of valid observations, are reported (Appendix E). Table 9 summarises the information of Appendix E. Although the results relatively diverge depending on the statistical procedure used, some global features can be derived from Table 9.

(i) Firstly, among the tested 'FLINT dataset' variables, some variables within the data tables Z3 (Innovation), Z8 (Nutrient Balance) and Z9 (Energy) are fully clear from outliers: indeed, for these three tables only, all three tests indicate a minimum percentage of outliers of 0 indicating that at least one 'FLINT dataset' variable within these tables has no outlier.

(ii) Secondly, and despite the first result above, these Z data tables of 'FLINT dataset' variables show nevertheless a substantial degree of outliers in comparison with other Z data tables. For this, one should consider in Table 9 the least pessimistic test of the three tests performed for each data table. The least pessimistic test means that the share of outliers detected with this test is lower than the shares detected with the two other tests and could thus this share of outliers could be considered as the share 'in the best

case scenario'. For example, for data table Z3, the mean share of outliers detected with the least pessimistic test is 8.5, detected with the Grubb's test. For data table Z8, the mean share of outliers detected with the least pessimistic test is 8.7, with the Chauvenet's test. For data table Z9, the respective value is 8.6 (Grubbs' test). Consider for each data table the least pessimistic test's mean share of outliers. If we compare these mean shares across tables, this reveals that variables from data tables Z3 (Innovation), Z8 (Nutrient Balance) and Z9 (Energy) are those with the highest mean share (more than 8% of outliers).

(iii) Thirdly, considering, by contrast, the most pessimistic test of the three performed, variables from data table Z4 (Economic) and Z10 (Water) as well as economic (EI) and environmental (E) indicators present the highest percentage of outliers (on average, 22, 20.9, 17.2, and 15.9% respectively). Variables with the highest maximum percentage of outliers are found from data tables Z9 (Energy), Z3 (Innovation), Z8 (Nutrient balance) and Z10 (Water), with respectively 66.7, 66.7, 60, and 48.3% of outliers among their observations.

Table 9: Summary statistics on percentages of detected outliers per 'FLINT dataset' Z variables and per 'Indicator dataset' thematic variables

		Chauvenet's criterion				Peirce's criterion				Grubb's test			
		Min.	Median	Mean	Max.	Min.	Median	Mean	Max.	Min.	Median	Mean	Max.
'FLINT dataset'	Z1	1.2	5.2	6.5	33.3	0.0	14.7	14.6	25.0	0.0	4.3	5.4	19.1
	Z2	1.0	2.0	2.2	3.5	13.0	13.5	15.5	24.1	0.1	0.3	0.6	2.0
	Z3	0.0	6.7	9.1	66.7	0.0	14.6	14.9	29.7	0.0	5.5	8.5	50.0
	Z4	0.0	1.5	2.8	9.6	9.3	19.8	22.0	36.9	0.0	0.0	1.7	10.6
	Z5	0.4	3.3	4.7	22.2	8.6	13.6	14.5	22.7	0.0	8.0	7.6	18.2
	Z6	0.0	0.3	0.3	0.7	13.2	14.0	14.0	14.7	0.0	0.3	0.3	0.7
	Z8	0.0	5.6	8.7	50.0	0.0	13.1	13.4	28.0	0.0	9.5	13.0	60.0
	Z9	0.0	3.9	13.1	66.7	0.0	12.0	11.3	25.0	0.0	5.7	8.6	33.6
	Z10	0.9	3.1	3.4	9.5	9.7	15.1	14.5	21.5	5.4	18.4	20.9	48.3
'Indicator dataset'	EI	0.0	1.8	3.0	12.9	10.2	13.3	17.2	36.1	0.0	0.3	1.8	13.8
	E	0.0	1.9	3.4	20.0	8.3	14.5	15.9	35.3	0.0	2.5	5.4	26.9
	S	0.0	2.1	2.3	4.1	9.5	14.0	14.8	24.1	0.0	1.8	2.2	12.1

4.2.2.2 Outliers detection through visual exploration

Although statistical procedures used to detect outliers rely on various assumptions that are not always fulfilled while processing real data such as FLINT data, the above information is nevertheless useful to assess the quality and the reliability of the data that was produced. Keeping in mind that outliers do not always mean erroneous data, some easy-to-detect outliers on basic statistics can help question the data generation process as a whole (Figure 1, including questioning the RICA1-like tests that were implemented in FLINT) and indicator's calculations. A few examples (therefore not exhaustive) are listed below, used as an illustration (see Appendix C and Appendix D for more details):

- Variable Z2_WC_1010_AH ('Working conditions: Peak season: average hours worked per day'): minimum value within the sample = 0 hour
- Variable Z8_AP_261_PC ('Protein content for cow's milk, in %'): maximum value = 39%
- Indicator EI_4_2 ('Age of starting as a decision maker, for individual farms only'): minimum value = -5 years old; 11 observations with values below 10 years old
- Indicator E_1_1 ('Share of permanent grassland under intensive management'): average value = -27.1%; minimum value = -28471.4%
- Indicator E_1_2 ('Share of permanent grassland that is extensively managed with semi-natural vegetation'): maximum value = 28571.4%
- Indicator E_1_3 ('Share of permanent grassland that is extensively managed with semi-natural vegetation under nature protection'): maximum value = 312.5%
- Indicator E_2_2 ('Share of potential EFA area on farms with arable area'): maximum value = 81885.7%
- Indicator E_3_1 ('Share of semi-natural habitat area'): maximum value = 1652008.2%

- Indicator E_5_3 ('Nitrogen use efficiency (NUE)': maximum value = 141817.5
- Indicator E_10_2 ('Percentage of farm UAA with late catch crop'): maximum value = 145.7%
- Indicator E_16_1 ('Direct blue water footprint (kg). Water consumption /kg of product'): minimum value = -482.1
- Indicator S_5_23 ('Regular days-off per week'): maximum value = 7 days

The above examples show some extreme values in the whole database. It can also be underlined that several FLINT indicators that are calculated as shares have values above 100% for many farms. This is for example the case of the shares of permanent grassland: extensively managed with semi-natural vegetation (E_1_2), extensively managed with semi-natural vegetation under nature protection (E_1_3). This is also the case for the share of EFA in UAA (E_2_2) or the share of arable land with late catch crop when calculated in total farm area. Of course, a share above 100% may not be an error: due to the conversion coefficients, this situation is possible. However, it is not highly probable to have many shares above 100% in a large sample. More realistically, the quantities of the various EFA categories (hedges, trees, etc.) could be problematic for farmers to precisely assess or recall. Farmers may have a vague idea only, and this lack of precision may influence the value of the indicators and the subsequent analyses. Also, some elements were not properly understood by some farmers, such as the difference between areas with catch crops or green cover (Z5_GR_1110_A) and areas with nitrogen-fixing crops (Z5_GR_1120_A). This may have resulted in double counting. Another reason for the indicator E_2_2 being high is that the share was calculated over the UAA, while some elements of EFA include non-UAA such as afforested areas (Z5_GR_1100_A) and area with native woodland (Z5_GR_1130_A).

Similarly for the share of permanent grassland depending on the management (intensive or extensive): farmers may have an unclear idea of their number of hectares in such type of pasture, and in fine the value that they provide is above the total number of hectares of grassland provided in the FADN data. This might reveal discrepancies in land categories between what is recorded in the FADN and what is stated by farmers in the FLINT data. Another explanation, suggested by Lynch et al. (2016) relates to commonage grassland, how it is accounted for in FADN data and how it was accounted for in the FLINT data.

It should also be noted that not only the FLINT variables and the FLINT indicators are affected by extreme observations or by a questionable wide range of values. This is also the case for additional indicators that can be built from the FLINT data. An example is provided in Eguinoa and Intxaurrendieta (2016) who investigate the price of water based on quantity data in the 'FLINT dataset', data table Z10, and on cost data in FADN. The authors find for all countries a similar average price, less than 0.090 Euros per cubic meter, except for Poland where the average price is 0.592.

It could be asked whether the extent of problematic values differs across countries and hence whether this depends on the way the data has been collected (infrastructure, administrative environment). However, this is not obvious. Firstly, the extent of problematic values does not always differ across countries. Taking the examples of the FLINT indicators regarding the share of grassland (E_1_1, E_1_2, E_1_3), the shares have problematic values in all countries except in Finland for which the shares are rightly between 0% and 100%. Secondly, as explained above, in case differences across countries are spotted, this may be due to other reasons than different data collection methods.

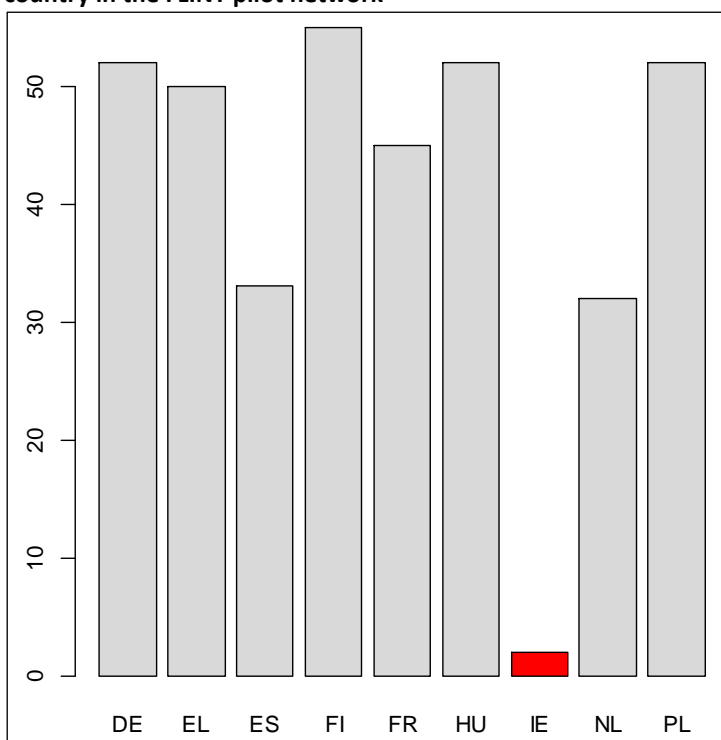
4.2.3 Comparability across and within countries

When investigating the quality of the data collected ('FLINT dataset') and of the indicators calculated ('Indicator dataset'), it became clear that some concepts had not been understood similarly by all data collectors and/or farmers, questioning the comparability of data across countries and within countries.

This is for example the case of the types of innovations, which is a subjective concept. Even if a definition was provided in the FLINT farm return (i.e. FLINT Deliverable 4.1), it was not sufficient, and feedback from data collectors indicated that farmers had trouble to conceptualise and hence answer the questions. In addition, farmers could understand differently in the Netherlands for example (where the concept of innovation has been recorded for some time already in the national extension of the FADN) than in other

countries where the concept of innovation was novel. The repetition of collection of such data over time means that data collectors are better trained and farmers who are selected for several years to be part of FADN are better aware of the concept. In one country in particular the understanding of the concept seems to have been problematic, as can be seen on Figure 3 showing, per country, the share of farms having implemented at least one innovation within the last three years. The shares are around 30-50% for all countries, except for Ireland where the share is 2%. One could think that one reason for such low share in Ireland is due to the main production of the farms within the FLINT sample, namely dairy and beef farms. However, the farms in Finland within the FLINT sample are also mainly dairy and beef farms and the share of farms having implemented innovations is not as dramatically low as in Ireland.

Figure 3: Share of farms having implemented at least one innovation within the last three years, per country in the FLINT pilot network



Note: DE-Germany, EL-Greece, ES-Spain, FI-Finland, FR-France, HU-Hungary, IE-Ireland, NL-The Netherlands, PL-Poland

Another example relates to the number of extension contacts. In some countries or for some data collectors within a country, a contact could be considered as such as soon as words are exchanged with an extension officer, while in other countries it needed a more formal interaction to be considered as one contact. Besides, overlaps may occur in the data. More precisely, if for example a farmer receives a contact from a public advisor regarding crop production and management, the data collector may have counted it within the number of contacts about crop production and within the number of contacts about management. That is to say, if we add all categories, we would conclude that the farmer has received 2 contacts in total, although in reality the farmer would have received only one contact. Hence, the question formulation was not precise enough to avoid double counting.

Another example of imprecise formulation of the questionnaire, and hence of misunderstanding by data collectors and/or by farmers, relates to the production under labels. While the certified organic label ('FLINT dataset' variables Z4_LA_1000_*) and EU public label ('FLINT dataset' variables Z4_LA_2000_*) were well understood by farmers since they have EU reference and frame, the third type of labels asked for in the survey, namely 'other collective quality labels' ('FLINT dataset' variables Z4_LA_3000_*), was less well understood. The quality of this variable is problematic as it is not sure what farmers have included (or chose not to include) in it.

Another example relates to the area for long-term reduced till options (no ploughing for more than five years) ('FLINT dataset' variable Z5_SO_5020_A_6). When cross-checking this area with the arable area and pasture area in the FADN data, it became clear that some farmers had included pastures in this area for long-term reduced till options while other farmers kept to arable area.

The comparability across countries may also be limited for information that requires a subjective answer from farmers. This is particularly the case for the social information regarding the working conditions, quality of life, stress, etc. The cultural norms may differ across countries, and some working conditions which may be considered as extremely hard in a country may be considered as medium in another country.

There are many cases where the question or concept has been understood differently by farmers, and we will not list them all here. But this highlights the need of substantial training of the data collectors, but also careful design of the question asked to the farmers. One example of a question that was not clear enough in the FLINT farm return (i.e. FLINT Deliverable 4.1) and was answered differently across the FLINT sample, relates to the number of agricultural (related) businesses the farmer is involved in ('FLINT dataset' variable Z1_OS_4010_Q). Descriptive statistics in Table 10, and more precisely the value of the minimum, reveal that some countries have interpreted this question as the 'total' number of businesses, hence, a minimum value for the sample of 1, indicating that the farm of the farmer is considered as one of the businesses concerned by the question (e.g. Greece, Hungary, Ireland, the Netherlands). By contrast, some countries have interpreted this question as the number of 'other' businesses, other than the own farm, hence a minimum value of 0, indicating no other business outside the own farm (e.g. Germany, Spain, Finland, France, Poland). Hence, a better design of questions taking into account these difficulties, should improve the data quality and usability of any replication of the FLINT test.

Table 10: Summary statistics, per country, on number of agricultural (related) businesses the farmer is involved in ('FLINT dataset' variable Z1_OS_4010_Q)

	Min.	Mean	Max.	NA's
Germany	0	1.083	3	28
Greece	1	1.000	1	121
Spain	0	1.382	5	52
Finland	0	1.750	4	33
France	0	2.411	100	15
Hungary	1	1.800	3	97
Ireland	2	2.000	2	60
Netherlands	1	1.584	4	66
Poland	0	1.149	5	25

5 CONCLUSION

This deliverable has described the data available within the FLINT project, explained some strengths of the FLINT project in terms of data usability, and discussed also the limits in the usability this additional information. Here we draw some recommendations based on what has been discussed.

A first item is the importance to disentangle missing values from 0 values. In FADN, and then in the 'FLINT dataset', 0 values are not recorded as such; instead, empty cells, and hence missing values (i.e. NAs), are recorded. For some variables it is possible to assume without too much error that all missing values of the sample can be transformed into 0 values. In the 'FADN dataset' this is for example the case of the specific crop areas or numbers of livestock heads. As these variables are accountancy-related, it is less likely that the farmers were against recording the data or that the value has been removed due to inconsistencies. This is however more problematic for information that is not related to accountancy or other related type of information (e.g. invoices). One specific example is the different EFA elements. It may have been difficult for farmers to give a precise value of some elements and they may have preferred to keep silent. In this case, attributing a value 0 to them implies that we underestimate the extent of EFA and hence of their environmental sustainability compared to similar farmers who would have provided the information. The reverse is true when considering the nutrient data used for GHG and N indicators' calculation (number of animals in each category, for example). A farmer providing no value some of these data has a record of NA. If, during the analyses and in particular the calculation of GHG and N indicators, the farmer is assigned the value of 0 to replace the NA, then his/her indicators will appear lower than a similar farmer who would have provided the information. In this case, the farmer with originally missing data is advantaged (underestimation of the indicators and hence overestimation of the sustainability). Another example relates to the quantity of liquid fuel (Z9_EU_1010_Q): in some cases, no quantity of liquid fuel is recorded as agricultural activities are subcontracted and here the value 0 should be indicated, instead of NA. Hence, a strong recommendation, whether for FADN data or for FLINT data, is to clearly distinguish 0 values and true missing values when recording the information.

A second item is to improving the design of data and indicators so as to avoid missing data or aberrant observations. Missing data, and hence a reduced farm sample or set of information, may limit the analyses. One possibility is to impute missing data with some information, such as the mean of the sample or the value of the nearest neighbour. However, as it has been shown in some case study deliverables 5.2 (Latruffe et al., 2016a and Saint-Cyr, 2016), imputation decreases the significance of the relationships investigated. Thus, efforts should be made to collect as much information as possible, for example by designing the questions in the farm return ('FLINT dataset') in a better way. Several types of information could indeed be improved before replicating the FLINT test on a wider scale or longer period. We have provided in this deliverable several examples of fuzzy concepts (e.g. innovations, number of extension contacts) and of concepts that had to be redesigned (e.g. information related to soil organic matter).

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APPENDIX A: SUMMARY LIST OF FLINT DATA COLLECTED (‘FLINT DATASET’)

Table Z1: Information and Knowledge

Advisory Services:
Consultancy of Public Advisor
Consultancy of Farmers’ cooperative
Consultancy of Other farmer based providers
Consultancy of Private Advisor
Consultancy of Companies
Consultancy of Others
CAP and Cross Compliance:
Information Sources
Education and Training:
Manager Training
Employee Training
Ownership:
Financial involvement
Management:
Technology Use
Social Engagement:
Involvement as Member
Involvement as Member of a Board
Local Participation

Table Z2: Working Conditions and Quality Of Life

Continuity: Farm duration:
Year
Quit Farming
Succession
Working Conditions: Workload:
Holidays
Days of rest
Peak Season
Length
Average Hours
Illness
Other
Quality of Life:
Satisfaction: Daily job tasks
Satisfaction: Work-life balance
Satisfaction: Being a farmer

Satisfaction: Quality of life
Satisfaction: Freedom of decision making
Satisfaction: Evolution of freedom of decision making
Job stress
Evolution of job stress
Perception of farming

Table Z3: Innovation

Innovation:
Product not new to the market: Innovation class
Product new to the market: Innovation class
Process not new to the market: Innovation class and Costs
Process new to the market: Innovation class and costs
Market and organisational
Agricultural Machinery: Age group and quantity:
Tractor < 8 kW (<11 HP)
Tractor 8–19 kW (11–26 HP)
Tractor 20–39 kW (27–53 HP)
Tractor 40–59 kW (54–80 HP)
Tractor 60–99 kW (81–134 HP)
Tractor > 99 kW (> 134 HP)
Tillage machine
Seed drill, planters
Combine harvester
Other self propelled harvester
Other trailed harvester
Other self propelled agricultural machineries
Other agricultural machinery (trailed, mounted)
Trucks < 1 ton
Trucks 1,0-3,5 tons
Trucks > 3,5 tons
Irrigation equipment (mobile)
Irrigation equipment (fixed)
Mower
Agricultural Buildings: Age group and quantity:
Cow shed (places)
Horse stable (places)
Pigsty (places)
Poultry house (m2)
Sheep fold (places)
Solid manure storage (m2)
Liquid manure storage (m3) (liquid organic manure from traditional livestock husbandry consist of urine not absorbed by litter)
Slurry (m3) (liquid organic manure from intensive livestock husbandry with no littered technology, consist of faeces, urine and water for removal of manure)
Milking parlour (places)
Crop storage (m2) (It includes feed and silage)
of which: air conditioned (m2)
Silo (m3)
Cold-winded crop dryer (tons)
Warm-winded crop dryer (tons/hour)
Fodder mixer (tons/hour)
Storage for wine (m2)
Wine storage equipment (hl)

Storage (for fertilizer, spare parts, etc.), (m2)
Other agricultural building (m2)

Table Z4: Economic

Label: % crop – % livestock – First year – UAA:
Certified Organic Label
EU public quality Label (PDO, PGI, TSG)
Other collective quality label
Market outlet: % cooperatives – % direct sales – % other:
Cereals (excluding straw and silage)
Oilseeds and protein crops
Fruits and vegetables (including citrus fruits, but excluding olives)
Olives
Olive Oil
Grapes
Wine
Beef and calves
Cow's milk
Pig
Sheep and goats (milk, milk products and meat)
Poultry
Eggs
Other sector
Fodder (including hay, straw, silage)
Cow milk products
Piglets

Table Z5: Land Management

Greening:
Permanent Grassland that receives less than 50 kg N/ha per year and it is dominated by native species without any form of nature protection
Permanent Grassland that receives less than 50 kg N/ha per year with any form of nature protection
EFA-Land laying fallow
EFA-Terraces
EFA-Landscape features
EFA-Buffer strips
EFA-Area of agro-forestry
EFA-Strips of eligible area along forest
EFA-Area with short rotation coppices
EFA-Afforested areas
EFA-Areas with catch crops or green cover
EFA-Areas with nitrogen-fixing crops
Area of native woodlands
Area of ponds and lakes
Other areas of semi-natural vegetation without any form of nature protection
Other areas that is designated for any form of nature protection
Catch crop sown in/after crop harvested before Sept. 1st
Catch crop sown in/after crop harvested after Sept. 1st
Soil Erosion:
Associated with erosion risk
Associated with erosion risk and was not ploughed
Associated with erosion risk and catch crop was grown and it was incorporated before winter
Associated with erosion risk and catch crop was grown and it was incorporated after winter

Soil cover in every row for vineyards or orchard
Soil cover in every second row for vineyards or orchard
Land Fragmentation:
All parcels: Number – Distance – Favourability of field pattern
Furthest parcel: Distance – Cultivated
Closest parcel: Distance
Soil Organic Matter:
Soil Sampling: Results – Required
Soil Practices: Type – Area

Table Z6: Risk Reduction

Insurance:
Crop insurance: Type
Building insurance: Type
Personal disability: Type
Livestock: Type
Marketing contract:
Contract: Type – Price – Quantity – Duration – Other characteristics
Alternative Methods:
Risk reduction measures
Off-farm employment: Type – Hours
Other gainful activities

Table Z7: Pesticide Usage

For each Crop:
Amount
Active substance

Table Z8: Nutrient Balance

For each Livestock:
Opening quantity
Closing quantity
Purchased quantity
Sales quantity
For each Livestock Product:
Protein content
For each Crop:
Opening quantity
Closing quantity
Purchased quantity (Raisins and Grapes only)
For each Purchased Concentrate:
Opening quantity
Purchased quantity
Closing quantity
For each Purchased Forage Feed:
Opening quantity
Purchased quantity
Closing quantity
For each Purchased Seed:
Purchased quantity

For each Manure:
Purchased quantity
Sales quantity
For each Slurry:
Purchased quantity
Sales quantity

Table Z9: Energy

Direct Use of Energy for Production: Quantity – Costs – Usage – Share of usage:
Liquid fuel
Other fossil liquid
Coal
Other fossil solid
Fossil gas
Firewood
Electricity
On-farm renewable for electricity
On-farm renewable for heat
On-farm renewable for fuel
On-farm Renewable Energy Production: Production – Sales Quantity and Value – Own capital investment – Loan – Subsidies – Share of external feedstock:
Electricity from biomass
Heat from biomass
Fuel from biomass
Electricity from geothermal
Heat from geothermal
Electricity from solar
Heat from solar
Electricity from wind

Table Z10: Water

Water Use and Storage:
Source: Type – Water meter – Consumption estimated
End use: Type – Water meter – Consumption estimated
Irrigation
Water distribution network: Energy dependence – Network Organisation
Water price: Water payment – Proportional fee

APPENDIX B: DETAILED LIST OF VARIABLES, FROM 'FLINT DATASET' AND 'INDICATOR DATASET', USED IN WP5 CASE STUDY ANALYSES

Variable	Description
Z1_AS_1011_VT_1	Consultancy of Public Advisor: Advice for Accountancy, bookkeeping, taxes
Z1_AS_1011_Q_1	Consultancy of Public Advisor: Contact quantity for Advice for Accountancy, bookkeeping, taxes
Z1_AS_1011_VT_2	Consultancy of Public Advisor: Advice for Management, business planning, and marketing
Z1_AS_1011_Q_2	Consultancy of Public Advisor: Contact quantity for Advice for Management, business planning, and marketing
Z1_AS_1011_VT_3	Consultancy of Public Advisor: Advice for Crop production
Z1_AS_1011_Q_3	Consultancy of Public Advisor: Contact quantity for Advice for Crop production
Z1_AS_1011_VT_4	Consultancy of Public Advisor: Advice for Livestock production
Z1_AS_1011_Q_4	Consultancy of Public Advisor: Contact quantity for Advice for Livestock production
Z1_AS_1011_VT_5	Consultancy of Public Advisor: Advice for Animal products and services
Z1_AS_1011_Q_5	Consultancy of Public Advisor: Contact quantity for Advice for Animal products and services
Z1_AS_1011_VT_6	Consultancy of Public Advisor: Advice for Other gainful activities directly related to the farm
Z1_AS_1011_Q_6	Consultancy of Public Advisor: Contact quantity for Advice for Other gainful activities directly related to the farm
Z1_AS_1011_VT_7	Consultancy of Public Advisor: Advice for Investments
Z1_AS_1011_Q_7	Consultancy of Public Advisor: Contact quantity for Advice for Investments
Z1_AS_1011_VT_8	Consultancy of Public Advisor: Advice for Other
Z1_AS_1011_Q_8	Consultancy of Public Advisor: Contact quantity for Advice for Other
Z1_AS_1012_VT_1	Consultancy of Farmer Cooperatives: Advice for Accountancy, bookkeeping, taxes
Z1_AS_1012_Q_1	Consultancy of Farmer Cooperatives: Contact quantity for Advice for Accountancy, bookkeeping, taxes
Z1_AS_1012_VT_2	Consultancy of Farmer Cooperatives: Advice for Management, business planning, and marketing
Z1_AS_1012_Q_2	Consultancy of Farmer Cooperatives: Contact quantity for Advice for Management, business planning, and marketing
Z1_AS_1012_VT_3	Consultancy of Farmer Cooperatives: Advice for Crop production
Z1_AS_1012_Q_3	Consultancy of Farmer Cooperatives: Contact quantity for Advice for Crop production
Z1_AS_1012_VT_4	Consultancy of Farmer Cooperatives: Advice for Livestock production
Z1_AS_1012_Q_4	Consultancy of Farmer Cooperatives: Contact quantity for Advice for Livestock production
Z1_AS_1012_VT_5	Consultancy of Farmer Cooperatives: Advice for Animal products and services
Z1_AS_1012_Q_5	Consultancy of Farmer Cooperatives: Contact quantity for Advice for Animal products and services
Z1_AS_1012_VT_6	Consultancy of Farmer Cooperatives: Advice for Other gainful activities directly related to the farm
Z1_AS_1012_Q_6	Consultancy of Farmer Cooperatives: Contact quantity for Advice for Other gainful activities directly related to the farm
Z1_AS_1012_VT_7	Consultancy of Farmer Cooperatives: Advice for Investments
Z1_AS_1012_Q_7	Consultancy of Farmer Cooperatives: Contact quantity for Advice for Investments
Z1_AS_1012_VT_8	Consultancy of Farmer Cooperatives: Advice for Other
Z1_AS_1012_Q_8	Consultancy of Farmer Cooperatives: Contact quantity for Advice for Other
Z1_AS_1013_VT_1	Consultancy of Private Advisor: Advice for Accountancy, bookkeeping, taxes
Z1_AS_1013_Q_1	Consultancy of Private Advisor: Contact quantity for Advice for Accountancy, bookkeeping, taxes
Z1_AS_1013_VT_2	Consultancy of Private Advisor: Advice for Management, business planning, and marketing

Z1_AS_1013_Q_2	Consultancy of Private Advisor: Contact quantity for Advice for Management, business planning, and marketing
Z1_AS_1013_VT_3	Consultancy of Private Advisor: Advice for Crop production
Z1_AS_1013_Q_3	Consultancy of Private Advisor: Contact quantity for Advice for Crop production
Z1_AS_1013_VT_4	Consultancy of Private Advisor: Advice for Livestock production
Z1_AS_1013_Q_4	Consultancy of Private Advisor: Contact quantity for Advice for Livestock production
Z1_AS_1013_VT_5	Consultancy of Private Advisor: Advice for Animal products and services
Z1_AS_1013_Q_5	Consultancy of Private Advisor: Contact quantity for Advice for Animal products and services
Z1_AS_1013_VT_6	Consultancy of Private Advisor: Advice for Other gainful activities directly related to the farm
Z1_AS_1013_Q_6	Consultancy of Private Advisor: Contact quantity for Advice for Other gainful activities directly related to the farm
Z1_AS_1013_VT_7	Consultancy of Private Advisor: Advice for Investments
Z1_AS_1013_Q_7	Consultancy of Private Advisor: Contact quantity for Advice for Investments
Z1_AS_1013_VT_8	Consultancy of Private Advisor: Advice for Other
Z1_AS_1013_Q_8	Consultancy of Private Advisor: Contact quantity for Advice for Other
Z1_AS_1014_VT_1	Consultancy of Companies: Advice for Accountancy, bookkeeping, taxes
Z1_AS_1014_Q_1	Consultancy of Companies: Contact quantity for Advice for Accountancy, bookkeeping, taxes
Z1_AS_1014_VT_2	Consultancy of Companies: Advice for Management, business planning, and marketing
Z1_AS_1014_Q_2	Consultancy of Companies: Contact quantity for Advice for Management, business planning, and marketing
Z1_AS_1014_VT_3	Consultancy of Companies: Advice for Crop production
Z1_AS_1014_Q_3	Consultancy of Companies: Contact quantity for Advice for Crop production
Z1_AS_1014_VT_4	Consultancy of Companies: Advice for Livestock production
Z1_AS_1014_Q_4	Consultancy of Companies: Contact quantity for Advice for Livestock production
Z1_AS_1014_VT_5	Consultancy of Companies: Advice for Animal products and services
Z1_AS_1014_Q_5	Consultancy of Companies: Contact quantity for Advice for Animal products and services
Z1_AS_1014_VT_6	Consultancy of Companies: Advice for Other gainful activities directly related to the farm
Z1_AS_1014_Q_6	Consultancy of Companies: Contact quantity for Advice for Other gainful activities directly related to the farm
Z1_AS_1014_VT_7	Consultancy of Companies: Advice for Investments
Z1_AS_1014_Q_7	Consultancy of Companies: Contact quantity for Advice for Investments
Z1_AS_1014_VT_8	Consultancy of Companies: Advice for Other
Z1_AS_1014_Q_8	Consultancy of Companies: Contact quantity for Advice for Other
Z1_AS_1015_VT_1	Consultancy of Others: Advice for Accountancy, bookkeeping, taxes
Z1_AS_1015_Q_1	Consultancy of Others: Contact quantity for Advice for Accountancy, bookkeeping, taxes
Z1_AS_1015_VT_2	Consultancy of Others: Advice for Management, business planning, and marketing
Z1_AS_1015_Q_2	Consultancy of Others: Contact quantity for Advice for Management, business planning, and marketing
Z1_AS_1015_VT_3	Consultancy of Others: Advice for Crop production
Z1_AS_1015_Q_3	Consultancy of Others: Contact quantity for Advice for Crop production
Z1_AS_1015_VT_4	Consultancy of Others: Advice for Livestock production
Z1_AS_1015_Q_4	Consultancy of Others: Contact quantity for Advice for Livestock production
Z1_AS_1015_VT_5	Consultancy of Others: Advice for Animal products and services
Z1_AS_1015_Q_5	Consultancy of Others: Contact quantity for Advice for Animal products and services
Z1_AS_1015_VT_6	Consultancy of Others: Advice for Other gainful activities directly related to the farm
Z1_AS_1015_Q_6	Consultancy of Others: Contact quantity for Advice for Other gainful activities directly related to the farm
Z1_AS_1015_VT_7	Consultancy of Others: Advice for Investments
Z1_AS_1015_Q_7	Consultancy of Others: Contact quantity for Advice for Investments
Z1_AS_1015_VT_8	Consultancy of Others: Advice for Other
Z1_AS_1015_Q_8	Consultancy of Others: Contact quantity for Advice for Other
Z1_AS_1016_VT_1	Consultancy of Other farmer based providers: Advice for Accountancy, bookkeeping, taxes
Z1_AS_1016_Q_1	Consultancy of Other farmer based providers: Contact quantity for Advice for Accountancy, bookkeeping, taxes
Z1_AS_1016_VT_2	Consultancy of Other farmer based providers: Advice for Management, business planning, and marketing
Z1_AS_1016_Q_2	Consultancy of Other farmer based providers: Contact quantity for Advice for Management, business planning, and marketing
Z1_AS_1016_VT_3	Consultancy of Other farmer based providers: Advice for Crop production
Z1_AS_1016_Q_3	Consultancy of Other farmer based providers: Contact quantity for Advice for Crop production
Z1_AS_1016_VT_4	Consultancy of Other farmer based providers: Advice for Livestock production
Z1_AS_1016_Q_4	Consultancy of Other farmer based providers: Contact quantity for Advice for Livestock production
Z1_AS_1016_VT_5	Consultancy of Other farmer based providers: Advice for Animal products and services
Z1_AS_1016_Q_5	Consultancy of Other farmer based providers: Contact quantity for Advice for Animal products and services
Z1_AS_1016_VT_6	Consultancy of Other farmer based providers: Advice for Other gainful activities directly related to the farm
Z1_AS_1016_Q_6	Consultancy of Other farmer based providers: Contact quantity for Advice for Other gainful activities directly related to the farm
Z1_AS_1016_VT_7	Consultancy of Other farmer based providers: Advice for Investments
Z1_AS_1016_Q_7	Consultancy of Other farmer based providers: Contact quantity for Advice for Investments

Z1_AS_1016_VT_8	Consultancy of Other farmer based providers: Advice for Other
Z1_AS_1016_Q_8	Consultancy of Other farmer based providers: Contact quantity for Advice for Other
Z1_CI_2010_VT_1	CAP and Cross compliance: Main information source: Farm advisor
Z1_CI_2010_VT_2	CAP and Cross compliance: Main information source: Agriculture Department offices
Z1_CI_2010_VT_3	CAP and Cross compliance: Main information source: Brochure, flyers
Z1_CI_2010_VT_4	CAP and Cross compliance: Main information source: Internet
Z1_CI_2010_VT_5	CAP and Cross compliance: Main information source: Journals
Z1_CI_2010_VT_6	CAP and Cross compliance: Main information source: Other farmers
Z1_CI_2010_VT_7	CAP and Cross compliance: Main information source: Seminars, meetings
Z1_CI_2010_VT_8	CAP and Cross compliance: Main information source: TV, radio
Z1_CI_2010_VT_9	CAP and Cross compliance: Main information source: Other
Z1_ET_3010_VT	Education and training: Number of days for the manager
Z1_ET_3020_Q	Education and training: Number of employees involved
Z1_ET_3020_VT	Education and training: Number of days for total employees
Z1_SE_6011_VT_2	Social Engagement: Social involvement as Member: Professional Organisation
Z1_SE_6011_VT_3	Social Engagement: Social involvement as Member: (Local) farmers group mainly oriented at improving agriculture
Z1_SE_6011_VT_4	Social Engagement: Social involvement as Member: (Local) farmers group mainly oriented at nature conservation and landscape management
Z1_SE_6011_VT_5	Social Engagement: Social involvement as Member: Environmental or nature association
Z1_SE_6011_VT_6	Social Engagement: Social involvement as Member: Hunting or Fishing association
Z1_SE_6011_VT_7	Social Engagement: Social involvement as Member: Civil association
Z1_SE_6011_VT_8	Social Engagement: Social involvement as Member: Local/territorial/municipal government
Z1_SE_6011_VT_9	Social Engagement: Social involvement as Member: Other
Z1_SE_6012_VT_1	Social Engagement: Social involvement as Member of a Board: Farmer's Union
Z1_SE_6012_VT_2	Social Engagement: Social involvement as Member of a Board: Professional Organisation
Z1_SE_6012_VT_3	Social Engagement: Social involvement as Member of a Board: (Local) farmers group mainly oriented at improving agriculture
Z1_SE_6012_VT_4	Social Engagement: Social involvement as Member of a Board: (Local) farmers group mainly oriented at nature conservation and landscape management
Z1_SE_6012_VT_5	Social Engagement: Social involvement as Member of a Board: Environmental or nature association
Z1_SE_6012_VT_6	Social Engagement: Social involvement as Member of a Board: Hunting or Fishing association
Z1_SE_6012_VT_7	Social Engagement: Social involvement as Member of a Board: Civil association
Z1_SE_6012_VT_8	Social Engagement: Social involvement as Member of a Board: Local/territorial/municipal government
Z1_SE_6012_VT_9	Social Engagement: Social involvement as Member of a Board: Other
Z1_SE_6020_VT_1	Farmer is connected with local community/environment for: Participation in local festivals
Z1_SE_6020_VT_2	Farmer is connected with local community/environment for: Participation in local farmers' markets
Z1_SE_6020_VT_3	Farmer is connected with local community/environment for: Participation in local farming fairs
Z1_SE_6020_VT_4	Farmer is connected with local community/environment for: Participation in local nature conservation
Z1_SE_6020_VT_5	Farmer is connected with local community/environment for: Participation in local competitions
Z1_SE_6020_VT_6	Farmer is connected with local community/environment for: Hosting open day events in the farm
Z1_SE_6020_VT_7	Farmer is connected with local community/environment for: Allowing public visit in the farm
Z1_SE_6020_VT_8	Farmer is connected with local community/environment for: Giving apprenticeships
Z2_CO_1050_QF	Continuity: Quit farm in the next 5 years
Z2_CO_1050_SU	Continuity: Successor
Z2_CO_1050_YB	Continuity: Year of start as decision maker in farm
Z2_QL_1021_SS	Quality of Life: Satisfaction on daily job tasks
Z2_QL_1022_SS	Quality of Life: Satisfaction on work-life balance
Z2_QL_1030_ST	Quality of Life: Stress Perception
Z2_WC_1010_AH	Working conditions: Peak season: average hours worked per day
Z2_WC_1010_NH	Working conditions: Number days of holidays per year
Z2_WC_1010_W1	Working conditions: Days of rest
Z3_AB_4050_Q_1	Modernisation of agricultural buildings: Quantity of Sheep fold (places) of age: year 0-5
Z3_IN_1011_IC	Product innovations not new to the market: who developed innovative products
Z3_IN_1012_IC	Product innovations new to the market: who developed innovative products
Z3_IN_1021_IC	Process innovations not new to the market: who developed innovative process
Z3_IN_1022_IC	Process innovations new to the market: who developed innovative process
Z3_IN_1030_IC_1	Farmer has developed innovation in: Business organisation and management
Z3_IN_1030_IC_2	Farmer has developed innovation in: Marketing
Z3_IN_1030_IC_3	Farmer has developed innovation in: New partnerships
Z3_IN_1030_IC_4	Farmer has developed innovation in: Quality Assurance
Z3_IN_1030_IC_5	Farmer has developed innovation in: Other market and organization innovation
Z4_MO_4090_CS	Market outlet: Sales to cooperatives: Sheep and goats (milk, milk products and meat)
Z4_MO_4090_DS	Market outlet: Direct sales to final Customers: Sheep and goats (milk, milk products and meat)
Z4_MO_4090_OS	Market outlet: Other sales: Sheep and goats (milk, milk products and meat)
Z5_GR_1010_A	Greening: Permanent Grassland less than 50 kg N/ha per year and without any form of nature protection: Area

Z5_GR_1020_A	Greening: Permanent Grassland less than 50 kg N/ha per year and with any form of nature protection: Area
Z5_GR_1030_A	Greening: EFA-Land laying fallow
Z5_GR_1040_A	Greening: EFA-Terraces
Z5_GR_1050_A	Greening: EFA-Landscape features
Z5_GR_1060_A	Greening: EFA-Buffer strips
Z5_GR_1070_A	Greening: EFA-Area of agro-forestry
Z5_GR_1080_A	Greening: EFA-Strips of eligible hectares along forest
Z5_GR_1090_A	Greening: EFA-Area with short rotation coppices
Z5_GR_1100_A	Greening: EFA-Afforested areas
Z5_GR_1110_A	Greening: EFA-Areas with catch crops or green cover
Z5_GR_1120_A	Greening: EFA-Areas with nitrogen-fixing crops
Z5_GR_1130_A	Greening: Area of native woodlands
Z5_GR_1140_A	Greening: Area of ponds and lakes
Z5_GR_1150_A	Greening: Other areas of semi-natural vegetation without any form of nature protection
Z5_LF_4010_D	Land Fragmentation: Average distance of reference parcels
Z5_LF_4010_F	Land Fragmentation: Favourability of farming activities management
Z5_LF_4010_Q	Land Fragmentation: Number of Reference Parcels
Z5_LF_4020_C	Land Fragmentation: Furthest parcel: Cultivation
Z5_LF_4020_D	Land Fragmentation: Distance of furthest parcel to farming operation centre
Z5_LF_4030_D	Land Fragmentation: Distance of closest parcel to farming operation centre
Z5_SO_5020_A_1	Soil Organic Matter: Area for Ploughing in of straw
Z5_SO_5020_A_2	Soil Organic Matter: Area for Application of farmyard manures or compost
Z5_SO_5020_A_3	Soil Organic Matter: Area for Application of other organic fertilizer
Z5_SO_5020_A_4	Soil Organic Matter: Area for Use of cover crops
Z5_SO_5020_A_5	Soil Organic Matter: Area for Crop rotation
Z5_SO_5020_A_6	Soil Organic Matter: Area for Long-term reduced till options (no ploughing for more than five years)
Z5_SO_5020_A_7	Soil Organic Matter: Area for Use of a grass-based crop as part of the arable system/crop rotation
Z6_AM_3010_IT_1	Measure in place to limit agricultural risks: Diversification
Z6_AM_3010_IT_2	Measure in place to limit agricultural risks: On farm processing / sales
Z6_AM_3010_IT_3	Measure in place to limit agricultural risks: On farm investment
Z6_AM_3010_IT_4	Measure in place to limit agricultural risks: Avoiding use of credit
Z6_AM_3010_IT_5	Measure in place to limit agricultural risks: Hedging (futures and options)
Z6_AM_3010_IT_6	Measure in place to limit agricultural risks: Holding financial reserves
Z6_AM_3010_IT_7	Measure in place to limit agricultural risks: Production contracts
Z6_AM_3010_IT_8	Measure in place to limit agricultural risks: Other
Z6_AM_3020_H1	Off-farm Employment - Hours of work: Owner
Z6_AM_3020_H2	Off-farm Employment - Hours of work: Spouse
Z6_AM_3020_ST1	Farmer work off-farm
Z6_AM_3020_ST2	Spouse work off-farm
Z6_AM_3030_IT_1	Other gainful activities: Farm tourism
Z6_AM_3030_IT_2	Other gainful activities: Processing of agricultural products
Z6_AM_3030_IT_3	Other gainful activities: Child / health care
Z6_AM_3030_IT_4	Other gainful activities: Nature management
Z6_AM_3030_IT_5	Other gainful activities: Production of renewable energy
Z6_AM_3030_IT_6	Other gainful activities: Contract work for others
Z6_AM_3030_IT_7	Other gainful activities: Other
Z6_CO_2010_CT_1	Contract #1 - Contract type
Z6_CO_2010_DT_1	Contract #1 - Duration type
Z6_CO_2010_PT_1	Contract #1 - Price type
Z6_CO_2010_QT_1	Contract #1 - Quantity type
Z6_CO_2010_SH_1	Contract #1 - Share in Turnover
Z6_CO_2010_OTO_1	Contract #1 - Other characteristic: Time of delivery
Z6_CO_2010_OTQ_1	Contract #1 - Other characteristic: Quality
Z6_CO_2010_OTT_1	Contract #1 - Other characteristic: Other
Z6_CO_2010_CT_2	Contract #2 - Contract type
Z6_CO_2010_DT_2	Contract #2 - Duration type
Z6_CO_2010_PT_2	Contract #2 - Price type
Z6_CO_2010_QT_2	Contract #2 - Quantity type
Z6_CO_2010_SH_2	Contract #2 - Share in Turnover
Z6_CO_2010_OTO_2	Contract #2 - Other characteristic: Time of delivery
Z6_CO_2010_OTQ_2	Contract #2 - Other characteristic: Quality
Z6_CO_2010_OTT_2	Contract #2 - Other characteristic: Other
Z6_CO_2010_CT_3	Contract #3 - Contract type
Z6_CO_2010_DT_3	Contract #3 - Duration type
Z6_CO_2010_PT_3	Contract #3 - Price type
Z6_CO_2010_QT_3	Contract #3 - Quantity type
Z6_CO_2010_SH_3	Contract #3 - Share in Turnover

Z6_CO_2010_OTQ_3	Contract #3 - Other characteristic: Quality
Z6_CO_2010_OTT_3	Contract #3 - Other characteristic: Other
Z6_CO_2010_CT_4	Contract #4 - Contract type
Z6_CO_2010_DT_4	Contract #4 - Duration type
Z6_CO_2010_PT_4	Contract #4 - Price type
Z6_CO_2010_QT_4	Contract #4 - Quantity type
Z6_CO_2010_SH_4	Contract #4 - Share in Turnover
Z6_CO_2010_OTQ_4	Contract #4 - Other characteristic: Quality
Z6_CO_2010_OTT_4	Contract #4 - Other characteristic: Other
Z6_IN_1010_ST_1	Crops, Damage of type: Hail damage
Z6_IN_1010_ST_2	Crops, Damage of type: Storm damage
Z6_IN_1010_ST_3	Crops, Damage of type: Rain damage
Z6_IN_1010_ST_4	Crops, Damage of type: Draught damage
Z6_IN_1010_ST_5	Crops, Damage of type: Frost
Z6_IN_1010_ST_6	Crops, Damage of type: Other
Z6_IN_1020_ST_1	Building, Damage of type: Hail damage
Z6_IN_1020_ST_2	Building, Damage of type: Storm damage
Z6_IN_1040_ST	Livestock, Type of Damage
Z10_IR_3000_ED	Irrigation: Energy dependence
Z10_IR_3000_NO	Irrigation: Managed by public organization
Z10_IR_4000_PF	Irrigation: Proportional fees
Z10_IR_4000_WP	Irrigation: Water payment
Z10_WU_1000_WM_1	Water source: Consumption recorded for Rainfall storage
Z10_WU_1000_CE_1	Water source: Estimation of real water consumption for Rainfall storage
Z10_WU_1000_WM_2	Water source: Consumption recorded for Natural surface watercourses
Z10_WU_1000_CE_2	Water source: Estimation of real water consumption for Natural surface watercourses
Z10_WU_1000_WM_3	Water source: Consumption recorded for Artificial surface watercourses
Z10_WU_1000_CE_3	Water source: Estimation of real water consumption for Artificial surface watercourses
Z10_WU_1000_WM_4	Water source: Consumption recorded for Groundwater
Z10_WU_1000_CE_4	Water source: Estimation of real water consumption for Groundwater
Z10_WU_1000_WM_5	Water source: Consumption recorded for Main water supply
Z10_WU_1000_CE_5	Water source: Estimation of real water consumption for Main water supply
Z10_WU_1000_WM_6	Water source: Consumption recorded for Other
Z10_WU_1000_CE_6	Water source: Estimation of real water consumption for Other
Z10_WU_1000_WM_7	Water source: Consumption recorded: Don't want to specify
Z10_WU_1000_CE_7	Water source: Estimation of real water consumption: Don't want to specify
Z10_WU_2000_WM_1	Water end use: Consumption recorded for Livestock
Z10_WU_2000_CE_1	Water end use: Estimation of real water consumption for Livestock
Z10_WU_2000_WM_2	Water end use: Consumption recorded for Irrigation
Z10_WU_2000_CE_2	Water end use: Estimation of real water consumption for Irrigation
Z10_WU_2000_WM_3	Water end use: Consumption recorded for Other
Z10_WU_2000_CE_3	Water end use: Estimation of real water consumption for Other
Z10_WU_2000_WM_4	Water end use: Consumption recorded: Don't want to specify
Z10_WU_2000_CE_4	Water end use: Estimation of real water consumption: Don't want to specify
EI_1_1	Product Innovation at farm level (0/1)
EI_1_2	Process innovation at farm level (0/1)
EI_1_3	Market and organisational innovation at farm level (0/1)
EI_1_4	Innovation at farm level (0/1)
EI_2_1	Farm under label
EI_2_5	Share of UAA under certified organic label
EI_2_7	Share of UAA under other collective quality label
EI_3_1_4010	Number of markets outlets for Cereals (excluding straw and silage)
EI_3_1_4020	Number of markets outlets for Oilseeds and protein crops
EI_3_1_4030	Number of markets outlets for Fruits and vegetables (including citrus fruits, but excluding olives)
EI_3_1_4040	Number of markets outlets for Olives
EI_3_1_4045	Number of markets outlets for Olive Oil
EI_3_1_4090	Number of markets outlets for Sheep and goats (milk, milk product and meat)
EI_3_2_4040	Exclusive outlet for Olives
EI_3_2_4045	Exclusive outlet for Olive Oil
EI_3_2_4090	Exclusive outlet for Sheep and goats (milk, milk product and meat)
EI_3_3_4040	Diversified outlet for Olives
EI_3_3_4045	Diversified outlet for Olive Oil
EI_3_3_4090	Diversified outlet for Sheep and goats (milk, milk product and meat)
EI_3_4_4030	Main outlet for Fruits and vegetables (including citrus fruits, but excluding olives)
EI_3_4_4040	Main outlet for Olives
EI_3_4_4045	Main outlet for Olive Oil

EI_3_4_4090	Main outlet for Sheep and goats (milk, milk product and meat)
EI_4_1	Experience in decision making of the interviewed manager on the farm
EI_4_2	Age of starting as a decision maker, for individual farms only
EI_4_3	Succession
EI_6_1	Average age of machinery
EI_6_6	Average age of agricultural buildings
EI_7_1	Adoption of crop insurance at farm level
EI_7_2	Adoption of building insurance at farm level
EI_7_3	Adoption of livestock insurance at farm level
EI_7_4	Adoption of disability insurance at farm level
EI_7_5	Number insured categories at farm level
EI_8_1	Adoption of contracts at farm level
EI_8_2	Contracts with price specification at farm level
EI_8_3	Contracts with quantity specification at farm level
EI_8_4	Contracts with duration specification at farm level
EI_8_5	Contracts with delivery specification at farm level
EI_8_6	Contracts with quality specification at farm level
EI_8_7	(Approximation of) share of turn over under contract
EI_8_14	Average share of turnover by contracts
EI_9_1	Adoption of farm diversification
EI_9_2	Adoption of farm processing / sales
EI_9_3	Adoption of off farm investments
EI_9_4	Adoption of credit avoidance
EI_9_5	Adoption of hedging
EI_9_6	Adoption of financial reserves
EI_9_7	Adoption of production contracts
EI_9_8	Off-farm employment
EI_9_9	OGA (with possible subcategories)
EI_9_10	Count of other income sources at farm level
E_1_1	Share of permanent grassland under intensive management
E_1_2	Share of permanent grassland that is extensively managed with semi-natural vegetation
E_1_3	Share of permanent grassland that is extensively managed with semi-natural vegetation under nature protection
E_2_1	Preferred EFA element on farms with arable area
E_2_2	Share of potential EFA area on farms with arable area
E_3_1	Share of semi-natural habitat area
E_4_1	Pesticide Usage
E_5_1	Farm Gate N-Balance
E_5_3	Nitrogen use efficiency (NUE)
E_10_1	Percentage of farm UAA with early catch crop
E_10_2	Percentage of farm UAA with late catch crop
E_10_4	Percentage of farm UAA with nitrate risk
E_11_1	Percentage of farm UAA associated with erosion risk
E_11_8	Percentage of farm area with erosion mitigation
E_14_1	GHG emissions, at farm level
E_16_1	Direct blue water footprint (kg). Water consumption /kg of product.
E_16_2	Direct blue water footprint (CU). Water consumption /CU of product.
E_16_3	Water consumption metering. % of measured consumption
E_16_4	Water price: Water cost/water consumption
E_16_5	Main source of water
E_17_1	Water governance
E_17_3	Water consumption (m3)/irrigated area (ha)
E_17_4	Water irrigation system
E_17_5	Energy dependence
E_18_1	Crop species diversity
S_1_1	Advisory contacts per year per holding.
S_1_2_1	Advisory contacts per year per holding: Accountancy, bookkeeping, taxes
S_1_2_2	Advisory contacts per year per holding: Management, business planning, and marketing
S_1_2_3	Advisory contacts per year per holding: Crop production
S_1_2_4	Advisory contacts per year per holding: Livestock production
S_1_2_5	Advisory contacts per year per holding: Animal products and services
S_1_2_6	Advisory contacts per year per holding: Other gainful activities directly related to the farm
S_1_2_7	Advisory contacts per year per holding: Investments
S_1_2_8	Advisory contacts per year per holding: Other
S_1_4	Number of main information sources about CAP
S_2_1	Degree of agricultural training of the manager
S_2_2	Training days for manager
S_2_3	Total days for training

S_2_5	Number of persons participating in training events
S_3_7	Technology use
S_4_1	Social Engagement
S_4_2	Degree of social engagement
S_4_3	Degree of agricultural engagement
S_4_4	Degree of environmental engagement
S_4_5	Degree of societal engagement
S_5_1	Total Labour in Annual Working Units
S_5_2	Share of unpaid labour of total labour
S_5_3	Labour force directly employed by the holding annual working hours (A+B+C+D) Total Labour in hours
S_5_4	Regularly employed labour force annual working hours (A+B+C)
S_5_14	On farm annual working units for manager and family labour /Unpaid labour input in working units
S_5_15	Off farm annual working hours owner
S_5_16	Off farm annual work spouse
S_5_17	Annual working hours manager
S_5_18	Average weekly working hours of manager
S_5_19	Length peak season in days
S_5_20	Annual working hours during peak season
S_5_21	Average day working hours during peak season
S_5_22	Holidays per year
S_5_23	Regular days-off per week
S_5_24	Working conditions: Replacement during illness
S_5_25	Working conditions: Replacement other than in case of illness
S_5_27	Length of peak season in months
S_5_28	Share of total manager working hours worked during peak season
S_5_29	Workload seasonality index during peak months
S_5_30	Workload seasonality index during non-peak months
S_6_1	Satisfaction with job
S_6_2	Satisfaction with work life balance
S_6_3	Satisfaction with being a farmer
S_6_4	Satisfaction with quality of life
S_6_5	Satisfaction with freedom of making decision
S_6_6	Stress perception
S_6_7	Change in freedom
S_6_8	Change in stress
S_6_9	Perception of farming
S_6_10	Overall quality of life
S_7_1	Local Participation
S_7_2	Social Diversification Index (real sum)

APPENDIX C: BASIC STATISTICS FOR NON- BOOLEAN 'FLINT DATASET' VARIABLES

Variable	No. of NAs	No. of valid observations	Percentage of valid observations	Mean	Min	Max	Std. Dev.
Z1_AS_1011_Q_1	729	370	33.7	6.48	1	50	5.83
Z1_AS_1011_Q_2	905	194	17.7	3.89	1	30	4.09
Z1_AS_1011_Q_3	758	341	31	6.09	1	48	6.76
Z1_AS_1011_Q_4	896	203	18.5	5.97	1	60	6.8
Z1_AS_1011_Q_5	1028	71	6.5	6.9	0	24	4.22
Z1_AS_1011_Q_6	1063	36	3.3	4.83	0	24	5.31
Z1_AS_1011_Q_7	977	122	11.1	3.7	1	20	3.85
Z1_AS_1011_Q_8	1018	81	7.4	3.85	0	25	4.74
Z1_AS_1012_Q_1	1068	31	2.8	5.26	1	35	6.6
Z1_AS_1012_Q_2	1039	60	5.5	3.8	1	24	4.44
Z1_AS_1012_Q_3	853	246	22.4	8.1	1	48	9.24
Z1_AS_1012_Q_4	987	112	10.2	7.23	1	48	9
Z1_AS_1012_Q_5	980	119	10.8	5.65	1	48	7.75
Z1_AS_1012_Q_6	1091	8	0.7	2.38	1	6	2
Z1_AS_1012_Q_7	1078	21	1.9	5.1	1	48	10.42
Z1_AS_1012_Q_8	1067	32	2.9	3.19	1	10	2.68
Z1_AS_1013_Q_1	557	542	49.3	7.23	1	365	17.14
Z1_AS_1013_Q_2	955	144	13.1	4.1	1	36	4.53
Z1_AS_1013_Q_3	859	240	21.8	11.73	1	300	22.86
Z1_AS_1013_Q_4	824	275	25	8.97	1	54	9.51
Z1_AS_1013_Q_5	1025	74	6.7	8.5	1	50	9.39
Z1_AS_1013_Q_6	1069	30	2.7	4.1	1	12	2.71
Z1_AS_1013_Q_7	1021	78	7.1	4.51	1	25	5.21
Z1_AS_1013_Q_8	1044	55	5	4.73	1	20	4.82
Z1_AS_1014_Q_1	1017	82	7.5	4.01	1	30	4.52
Z1_AS_1014_Q_2	1011	88	8	3.77	1	40	5.07
Z1_AS_1014_Q_3	809	290	26.4	7.99	1	102	10.34
Z1_AS_1014_Q_4	940	159	14.5	8.77	1	48	9.25
Z1_AS_1014_Q_5	1045	54	4.9	4.26	1	20	3.84
Z1_AS_1014_Q_6	1085	14	1.3	3.29	1	10	2.33
Z1_AS_1014_Q_7	995	104	9.5	3.68	1	20	3.92
Z1_AS_1014_Q_8	1069	30	2.7	4.23	1	12	3.55
Z1_AS_1015_Q_1	1074	25	2.3	3.4	1	12	2.92
Z1_AS_1015_Q_2	1077	22	2	2.73	1	12	3.12
Z1_AS_1015_Q_3	1058	41	3.7	7.49	1	40	8.96
Z1_AS_1015_Q_4	1081	18	1.6	5.67	1	33	8.38
Z1_AS_1015_Q_5	1096	3	0.3	10	1	26	13.89
Z1_AS_1015_Q_6	1093	6	0.5	4.17	1	10	3.37
Z1_AS_1015_Q_7	1084	15	1.4	4.4	1	15	4.1
Z1_AS_1015_Q_8	1083	16	1.5	8.81	1	48	12.16
Z1_AS_1016_Q_1	1030	69	6.3	4.45	1	24	5.21
Z1_AS_1016_Q_2	1053	46	4.2	6.41	1	48	8.86
Z1_AS_1016_Q_3	1017	82	7.5	7.51	1	48	10.52
Z1_AS_1016_Q_4	1054	45	4.1	6.02	1	48	8.1
Z1_AS_1016_Q_5	1077	22	2	7.55	1	48	11.3

Z1_AS_1016_Q_6	1065	34	3.1	4.26	1	14	3.31
Z1_AS_1016_Q_7	1080	19	1.7	7.21	1	48	11.54
Z1_AS_1016_Q_8	1064	35	3.2	6.94	1	40	9.12
Z1_ET_3010_VT	160	939	85.4				
Z1_ET_3020_Q	758	341	31	1.51	0	32	3.29
Z1_ET_3020_VT	418	681	62				
Z1_OS_4010_Q	497	602	54.8	1.82	0	100	4.71
Z2_CO_1050_QF	13	1086	98.8				
Z2_CO_1050_SU	32	1067	97.1				
Z2_CO_1050_YB	13	1086	98.8	1992.91	1950	2015	10.95
Z2_QL_1021_SS	4	1095	99.6				
Z2_QL_1022_SS	7	1092	99.4				
Z2_QL_1023_SS	5	1094	99.5				
Z2_QL_1024_SS	31	1068	97.2				
Z2_QL_1025_EV	14	1085	98.7				
Z2_QL_1025_SS	9	1090	99.2				
Z2_QL_1030_EV	11	1088	99				
Z2_QL_1030_ST	18	1081	98.4				
Z2_QL_1040_FA	18	1081	98.4				
Z2_WC_1010_AH	37	1062	96.6	11.64	0	20	2.72
Z2_WC_1010_LP	39	1060	96.5	74.14	0	365	74.18
Z2_WC_1010_NH	85	1014	92.3	19.01	0	350	32.39
Z2_WC_1010_R1	47	1052	95.7				
Z2_WC_1010_R2	43	1056	96.1				
Z2_WC_1010_W1	161	938	85.4	0.82	0	7	0.81
Z3_AB_4010_Q_1	1065	34	3.1	27.38	1	220	50.19
Z3_AB_4010_Q_2	1053	46	4.2	55.85	1	608	107.69
Z3_AB_4010_Q_3	1038	61	5.6	58.13	1	416	86.36
Z3_AB_4010_Q_4	981	118	10.7	59.99	1	330	71.92
Z3_AB_4010_Q_5	983	116	10.6	66.54	1	360	69.65
Z3_AB_4010_Q_6	963	136	12.4	54.07	1	400	71.05
Z3_AB_4010_Q_7	955	144	13.1	55.63	1	960	100.33
Z3_AB_4010_Q_8	939	160	14.6	67.04	1	760	99.28
Z3_AB_4010_Q_9	1066	33	3	37.09	0	250	50.89
Z3_AB_4020_Q_1	1099	0	0				
Z3_AB_4020_Q_2	1097	2	0.2	526	2	1050	741.05
Z3_AB_4020_Q_3	1098	1	0.1	23	23	23	
Z3_AB_4020_Q_4	1094	5	0.5	10.2	2	25	9.44
Z3_AB_4020_Q_5	1093	6	0.5	31.33	4	110	41.63
Z3_AB_4020_Q_6	1096	3	0.3	13	2	32	16.52
Z3_AB_4020_Q_7	1094	5	0.5	20.6	2	30	11.44
Z3_AB_4020_Q_8	1092	7	0.6	46.71	28	107	28.14
Z3_AB_4020_Q_9	1090	9	0.8	20.78	2	45	12.6
Z3_AB_4030_Q_1	1093	6	0.5	2120.67	70	11904	4793.51
Z3_AB_4030_Q_2	1086	13	1.2	1829.15	8	15000	4064.17
Z3_AB_4030_Q_3	1077	22	2	1550.05	7	8842	2304.81
Z3_AB_4030_Q_4	1066	33	3	1177.85	8	17586	3041.83
Z3_AB_4030_Q_5	1059	40	3.6	649.6	8	5912	1184.89
Z3_AB_4030_Q_6	1069	30	2.7	766.6	8	3460	932.05
Z3_AB_4030_Q_7	1057	42	3.8	565.29	6	5000	920.86
Z3_AB_4030_Q_8	1065	34	3.1	1570.35	1	25000	4434.06
Z3_AB_4030_Q_9	1081	18	1.6	165.44	1	670	195.28
Z3_AB_4040_Q_1	1099	0	0				
Z3_AB_4040_Q_2	1098	1	0.1	50	50	50	
Z3_AB_4040_Q_3	1096	3	0.3	553.33	80	1400	734.94
Z3_AB_4040_Q_4	1096	3	0.3	96.33	9	240	125.38
Z3_AB_4040_Q_5	1096	3	0.3	826.67	780	900	64.29
Z3_AB_4040_Q_6	1094	5	0.5	406	120	960	337.02
Z3_AB_4040_Q_7	1093	6	0.5	1062.67	6	3240	1190.04
Z3_AB_4040_Q_8	1089	10	0.9	3627.65	3	29700	9230.66
Z3_AB_4040_Q_9	1095	4	0.4	1009.5	7	3819	1875.15
Z3_AB_4050_Q_1	1097	2	0.2	310	20	600	410.12
Z3_AB_4050_Q_2	1095	4	0.4	168.75	95	300	95.78
Z3_AB_4050_Q_3	1093	6	0.5	320	160	420	111
Z3_AB_4050_Q_4	1085	14	1.3	1069.43	16	10000	2621.25
Z3_AB_4050_Q_5	1086	13	1.2	337	1	940	283.2
Z3_AB_4050_Q_6	1082	17	1.5	271.76	1	800	269.16
Z3_AB_4050_Q_7	1073	26	2.4	263.42	1	600	193.83

Z3_AB_4050_Q_8	1080	19	1.7	248.47	6	800	219.65
Z3_AB_4050_Q_9	1089	10	0.9	253	30	800	249.36
Z3_AB_4060_Q_1	1092	7	0.6	242.86	50	600	183.55
Z3_AB_4060_Q_2	1085	14	1.3	346.86	16	1600	450.36
Z3_AB_4060_Q_3	1063	36	3.3	360.71	10	1200	343.22
Z3_AB_4060_Q_4	1021	78	7.1	310.18	1	4800	639.37
Z3_AB_4060_Q_5	1050	49	4.5	286.01	1	1450	330.88
Z3_AB_4060_Q_6	1059	40	3.6	514.14	1	12328	1927.79
Z3_AB_4060_Q_7	1065	34	3.1	449.88	1	5000	1063.36
Z3_AB_4060_Q_8	1062	37	3.4	147.59	1	1000	181.49
Z3_AB_4060_Q_9	1091	8	0.7	68.62	24	120	36.5
Z3_AB_4070_Q_1	1098	1	0.1	390	390	390	
Z3_AB_4070_Q_2	1095	4	0.4	2806.75	77	10000	4813.77
Z3_AB_4070_Q_3	1089	10	0.9	1250.5	30	10000	3079.94
Z3_AB_4070_Q_4	1071	28	2.5	118.25	0	735	162.7
Z3_AB_4070_Q_5	1078	21	1.9	616.95	5	2500	706.08
Z3_AB_4070_Q_6	1077	22	2	8106.64	1	170000	36160.81
Z3_AB_4070_Q_7	1075	24	2.2	277.06	1	2000	428.98
Z3_AB_4070_Q_8	1081	18	1.6	241.94	10	1553	349.23
Z3_AB_4070_Q_9	1093	6	0.5	40.33	20	70	22.46
Z3_AB_4080_Q_1	1084	15	1.4	1902.47	1	6000	1872.9
Z3_AB_4080_Q_2	1079	20	1.8	2958.4	1	22100	5048.59
Z3_AB_4080_Q_3	1062	37	3.4	1758.14	1	12000	2277.52
Z3_AB_4080_Q_4	1015	84	7.6	932.2	1	12400	1620.54
Z3_AB_4080_Q_5	1040	59	5.4	884.68	1	5000	972.32
Z3_AB_4080_Q_6	1031	68	6.2	634.46	1	3700	682.16
Z3_AB_4080_Q_7	1010	89	8.1	766.12	1	5400	853.75
Z3_AB_4080_Q_8	1030	69	6.3	432.16	1	2200	495.18
Z3_AB_4080_Q_9	1088	11	1	94.09	10	450	131.16
Z3_AB_4090_Q_1	1091	8	0.7	8.75	1	32	11.54
Z3_AB_4090_Q_2	1084	15	1.4	12.67	1	40	12.19
Z3_AB_4090_Q_3	1074	25	2.3	22.88	1	182	36.57
Z3_AB_4090_Q_4	1048	51	4.6	11.96	1	48	10.26
Z3_AB_4090_Q_5	1057	42	3.8	20.64	1	208	32.14
Z3_AB_4090_Q_6	1062	37	3.4	12.46	1	48	11.33
Z3_AB_4090_Q_7	1057	42	3.8	13.9	1	80	15.92
Z3_AB_4090_Q_8	1078	21	1.9	8.95	1	40	10.05
Z3_AB_4090_Q_9	1098	1	0.1	274	274	274	
Z3_AB_4100_Q_1	1080	19	1.7	469.53	40	1400	385.21
Z3_AB_4100_Q_2	1068	31	2.8	577.87	30	4000	762.53
Z3_AB_4100_Q_3	1051	48	4.4	572.9	4	2100	538.12
Z3_AB_4100_Q_4	1032	67	6.1	662.67	50	5000	940.16
Z3_AB_4100_Q_5	1009	90	8.2	547.97	6	6000	738.61
Z3_AB_4100_Q_6	1017	82	7.5	467.24	9	4300	631.65
Z3_AB_4100_Q_7	984	115	10.5	513.29	10	6000	848.22
Z3_AB_4100_Q_8	975	124	11.3	895.56	8	19700	2309.03
Z3_AB_4100_Q_9	1053	46	4.2	415.33	20	4582	750.94
Z3_AB_4101_Q_1	1097	2	0.2	240	130	350	155.56
Z3_AB_4101_Q_2	1094	5	0.5	134.2	0	550	233.62
Z3_AB_4101_Q_3	1089	10	0.9	492.1	2	2000	646.25
Z3_AB_4101_Q_4	1085	14	1.3	392.3	4	1800	607.67
Z3_AB_4101_Q_5	1083	16	1.5	447.12	1	1500	489.54
Z3_AB_4101_Q_6	1091	8	0.7	881.88	0	4300	1422.8
Z3_AB_4101_Q_7	1089	10	0.9	548	30	2500	731.4
Z3_AB_4101_Q_8	1089	10	0.9	242.95	0	894	280.14
Z3_AB_4101_Q_9	1095	4	0.4	258	0	432	200.31
Z3_AB_4102_Q_1	1085	14	1.3	452.86	10	1800	642.21
Z3_AB_4102_Q_2	1064	35	3.2	564.62	0	3960	915.83
Z3_AB_4102_Q_3	1059	40	3.6	204.29	4	1500	362.29
Z3_AB_4102_Q_4	1020	79	7.2	447.81	0	12000	1455.93
Z3_AB_4102_Q_5	1004	95	8.6	418.99	1.06	9780	1313.3
Z3_AB_4102_Q_6	1024	75	6.8	339.9	1	13500	1584.44
Z3_AB_4102_Q_7	1016	83	7.6	298.71	1	10000	1144.32
Z3_AB_4102_Q_8	1043	56	5.1	796.65	2.06	28000	3777.16
Z3_AB_4102_Q_9	1095	4	0.4	372	150	600	207.85
Z3_AB_4110_Q_1	1097	2	0.2	475	50	900	601.04
Z3_AB_4110_Q_2	1097	2	0.2	136	32	240	147.08
Z3_AB_4110_Q_3	1086	13	1.2	586.77	5	2250	738

Z3_AB_4110_Q_4	1091	8	0.7	658.88	1	4000	1369.57
Z3_AB_4110_Q_5	1087	12	1.1	510.75	34	1500	486.13
Z3_AB_4110_Q_6	1088	11	1	532.73	10	2500	724.41
Z3_AB_4110_Q_7	1089	10	0.9	606.6	1	4000	1214.18
Z3_AB_4110_Q_8	1090	9	0.8	310.56	30	1300	405.03
Z3_AB_4110_Q_9	1099	0	0				
Z3_AB_4120_Q_1	1095	4	0.4	18.75	1	50	22.44
Z3_AB_4120_Q_2	1094	5	0.5	87	1	200	86.58
Z3_AB_4120_Q_3	1089	10	0.9	144.2	1.5	600	190.85
Z3_AB_4120_Q_4	1083	16	1.5	144.82	0.1	800	248.73
Z3_AB_4120_Q_5	1090	9	0.8	760.11	1	3000	1273.59
Z3_AB_4120_Q_6	1084	15	1.4	336.7	0.5	1500	543.34
Z3_AB_4120_Q_7	1084	15	1.4	194.31	0.2	1636	473.42
Z3_AB_4120_Q_8	1090	9	0.8	13.33	1	20	7.3
Z3_AB_4120_Q_9	1099	0	0				
Z3_AB_4130_Q_1	1092	7	0.6	14.5	3	24	8.29
Z3_AB_4130_Q_2	1093	6	0.5	6.83	1	17	7.28
Z3_AB_4130_Q_3	1080	19	1.7	5.76	0.3	24	6.91
Z3_AB_4130_Q_4	1074	25	2.3	4.92	0.3	24	6.46
Z3_AB_4130_Q_5	1079	20	1.8	4.75	0.06	20	6.43
Z3_AB_4130_Q_6	1079	20	1.8	2.59	0.5	12	3.44
Z3_AB_4130_Q_7	1086	13	1.2	6.38	0.2	40	11.36
Z3_AB_4130_Q_8	1096	3	0.3	3	1	5	2
Z3_AB_4130_Q_9	1099	0	0				
Z3_AB_4140_Q_1	1094	5	0.5	410	130	1050	365.31
Z3_AB_4140_Q_2	1099	0	0				
Z3_AB_4140_Q_3	1094	5	0.5	308	140	550	150.23
Z3_AB_4140_Q_4	1096	3	0.3	370	110	700	301.16
Z3_AB_4140_Q_5	1094	5	0.5	174.4	2	500	196.74
Z3_AB_4140_Q_6	1093	6	0.5	162	50	455	148.3
Z3_AB_4140_Q_7	1090	9	0.8	514.44	110	800	212.84
Z3_AB_4140_Q_8	1091	8	0.7	334.25	1	683	246.35
Z3_AB_4140_Q_9	1085	14	1.3	276.29	30	700	170.24
Z3_AB_4150_Q_1	1097	2	0.2	1180	360	2000	1159.66
Z3_AB_4150_Q_2	1092	7	0.6	448.57	50	1500	579.67
Z3_AB_4150_Q_3	1092	7	0.6	328.93	0.5	1000	354.18
Z3_AB_4150_Q_4	1087	12	1.1	1254.42	10	9500	2633.12
Z3_AB_4150_Q_5	1084	15	1.4	1185.13	80	7000	1706.16
Z3_AB_4150_Q_6	1084	15	1.4	1705.87	35	15250	3833.65
Z3_AB_4150_Q_7	1082	17	1.5	1457.94	35	5400	1375.91
Z3_AB_4150_Q_8	1089	10	0.9	2238.1	1	12200	3700.7
Z3_AB_4150_Q_9	1094	5	0.5	3870	500	15900	6729.56
Z3_AB_4160_Q_1	1067	32	2.9	217.22	1	1000	285.15
Z3_AB_4160_Q_2	1072	27	2.5	140.67	1	1000	221.58
Z3_AB_4160_Q_3	1040	59	5.4	170.92	1	1200	257.39
Z3_AB_4160_Q_4	1021	78	7.1	257.52	0.5	5000	616.01
Z3_AB_4160_Q_5	1012	87	7.9	179.78	1	900	202.28
Z3_AB_4160_Q_6	1016	83	7.6	233.13	1	2000	302.92
Z3_AB_4160_Q_7	968	131	11.9	217.64	0	2000	279.61
Z3_AB_4160_Q_8	952	147	13.4	217.09	1	1157	239.41
Z3_AB_4160_Q_9	1030	69	6.3	230.48	20	1080	265.15
Z3_AB_4170_Q_1	1087	12	1.1	228.67	10	700	193.72
Z3_AB_4170_Q_2	1064	35	3.2	1733.26	30	50893	8558.25
Z3_AB_4170_Q_3	1051	48	4.4	261.27	20	2600	388.01
Z3_AB_4170_Q_4	1031	68	6.2	1908.07	1	31100	5994.38
Z3_AB_4170_Q_5	1008	91	8.3	1387.49	1	31658	5137.84
Z3_AB_4170_Q_6	1020	79	7.2	1308.13	18	36960	4877.8
Z3_AB_4170_Q_7	958	141	12.8	1186.54	1	40079	4685.3
Z3_AB_4170_Q_8	940	159	14.5	473.13	1	11603	1133.63
Z3_AB_4170_Q_9	1020	79	7.2	379.53	2	4546	628.82
Z3_AM_3010_Q_1	1098	1	0.1	1	1	1	
Z3_AM_3010_Q_2	1097	2	0.2	1	1	1	0
Z3_AM_3010_Q_3	1095	4	0.4	1	1	1	0
Z3_AM_3010_Q_4	1094	5	0.5	1.2	1	2	0.45
Z3_AM_3010_Q_5	1096	3	0.3	4.67	1	12	6.35
Z3_AM_3010_Q_6	1098	1	0.1	1	1	1	
Z3_AM_3010_Q_7	1096	3	0.3	1.33	1	2	0.58
Z3_AM_3010_Q_8	1091	8	0.7	6	1	40	13.74

Z3_AM_3010_Q_9	1096	3	0.3	1	1	1	0
Z3_AM_3020_Q_1	1097	2	0.2	1	1	1	0
Z3_AM_3020_Q_2	1096	3	0.3	1	1	1	0
Z3_AM_3020_Q_3	1095	4	0.4	1	1	1	0
Z3_AM_3020_Q_4	1093	6	0.5	1	1	1	0
Z3_AM_3020_Q_5	1092	7	0.6	1	1	1	0
Z3_AM_3020_Q_6	1092	7	0.6	1.29	1	3	0.76
Z3_AM_3020_Q_7	1087	12	1.1	1	1	1	0
Z3_AM_3020_Q_8	1088	11	1	1.18	1	2	0.4
Z3_AM_3020_Q_9	1089	10	0.9	1	1	1	0
Z3_AM_3030_Q_1	1093	6	0.5	1	1	1	0
Z3_AM_3030_Q_2	1081	18	1.6	1.11	1	2	0.32
Z3_AM_3030_Q_3	1073	26	2.4	1.12	1	2	0.33
Z3_AM_3030_Q_4	1072	27	2.5	1.3	1	8	1.35
Z3_AM_3030_Q_5	1069	30	2.7	1.07	1	2	0.25
Z3_AM_3030_Q_6	1065	34	3.1	1.09	1	3	0.38
Z3_AM_3030_Q_7	1042	57	5.2	1.07	1	3	0.32
Z3_AM_3030_Q_8	987	112	10.2	1.21	1	7	0.68
Z3_AM_3030_Q_9	1083	16	1.5	1.06	1	2	0.25
Z3_AM_3040_Q_1	1077	22	2	1.05	1	2	0.21
Z3_AM_3040_Q_2	1078	21	1.9	1.05	1	2	0.22
Z3_AM_3040_Q_3	1050	49	4.5	1.18	1	5	0.67
Z3_AM_3040_Q_4	1027	72	6.6	1.1	1	2	0.3
Z3_AM_3040_Q_5	1026	73	6.6	1.14	1	4	0.48
Z3_AM_3040_Q_6	997	102	9.3	1.27	1	6	0.77
Z3_AM_3040_Q_7	919	180	16.4	1.49	1	16	1.82
Z3_AM_3040_Q_8	962	137	12.5	1.22	1	3	0.47
Z3_AM_3040_Q_9	1093	6	0.5	1.17	1	2	0.41
Z3_AM_3050_Q_1	1045	54	4.9	1.04	1	2	0.19
Z3_AM_3050_Q_2	1010	89	8.1	1.15	1	6	0.59
Z3_AM_3050_Q_3	955	144	13.1	1.21	1	11	0.91
Z3_AM_3050_Q_4	922	177	16.1	1.28	1	10	0.88
Z3_AM_3050_Q_5	906	193	17.6	1.25	1	6	0.69
Z3_AM_3050_Q_6	965	134	12.2	1.21	1	6	0.63
Z3_AM_3050_Q_7	988	111	10.1	1.6	1	29	2.86
Z3_AM_3050_Q_8	1056	43	3.9	1.3	1	7	1.04
Z3_AM_3050_Q_9	1097	2	0.2	1	1	1	0
Z3_AM_3060_Q_1	1043	56	5.1	1.18	1	4	0.64
Z3_AM_3060_Q_2	1005	94	8.6	1.12	1	5	0.48
Z3_AM_3060_Q_3	981	118	10.7	1.17	1	3	0.46
Z3_AM_3060_Q_4	966	133	12.1	1.29	1	10	1.02
Z3_AM_3060_Q_5	1006	93	8.5	1.4	1	14	1.62
Z3_AM_3060_Q_6	1045	54	4.9	1.07	1	2	0.26
Z3_AM_3060_Q_7	1052	47	4.3	1.34	1	6	0.89
Z3_AM_3060_Q_8	1069	30	2.7	1.4	1	5	0.89
Z3_AM_3060_Q_9	1098	1	0.1	1	1	1	
Z3_AM_3070_Q_1	1024	75	6.8	1.2	1	4	0.52
Z3_AM_3070_Q_2	926	173	15.7	1.57	1	6	0.88
Z3_AM_3070_Q_3	874	225	20.5	2.04	1	20	1.88
Z3_AM_3070_Q_4	808	291	26.5	2.12	1	17	1.82
Z3_AM_3070_Q_5	802	297	27	2.06	1	19	1.99
Z3_AM_3070_Q_6	855	244	22.2	1.78	1	10	1.25
Z3_AM_3070_Q_7	874	225	20.5	2.05	1	16	1.74
Z3_AM_3070_Q_8	974	125	11.4	2.19	1	40	3.66
Z3_AM_3070_Q_9	1091	8	0.7	1.12	1	2	0.35
Z3_AM_3080_Q_1	1060	39	3.5	1.13	1	2	0.34
Z3_AM_3080_Q_2	1017	82	7.5	1.11	1	3	0.39
Z3_AM_3080_Q_3	984	115	10.5	1.14	1	2	0.35
Z3_AM_3080_Q_4	954	145	13.2	1.26	1	10	0.92
Z3_AM_3080_Q_5	953	146	13.3	1.27	1	13	1.13
Z3_AM_3080_Q_6	998	101	9.2	1.21	1	4	0.54
Z3_AM_3080_Q_7	972	127	11.6	1.24	1	5	0.56
Z3_AM_3080_Q_8	1053	46	4.2	1.48	1	5	0.89
Z3_AM_3080_Q_9	1097	2	0.2	1	1	1	0
Z3_AM_3090_Q_1	1078	21	1.9	1.05	1	2	0.22
Z3_AM_3090_Q_2	1067	32	2.9	1.09	1	3	0.39
Z3_AM_3090_Q_3	1053	46	4.2	1.09	1	2	0.28
Z3_AM_3090_Q_4	1059	40	3.6	1.4	1	11	1.61

Z3_AM_3090_Q_5	1062	37	3.4	1.27	1	6	0.87
Z3_AM_3090_Q_6	1064	35	3.2	1.09	1	3	0.37
Z3_AM_3090_Q_7	1053	46	4.2	1.11	1	3	0.38
Z3_AM_3090_Q_8	1076	23	2.1	1.13	1	3	0.46
Z3_AM_3090_Q_9	1098	1	0.1	1	1	1	
Z3_AM_3100_Q_1	1093	6	0.5	1	1	1	0
Z3_AM_3100_Q_2	1084	15	1.4	1.13	1	3	0.52
Z3_AM_3100_Q_3	1076	23	2.1	1.22	1	4	0.67
Z3_AM_3100_Q_4	1064	35	3.2	1.23	1	4	0.73
Z3_AM_3100_Q_5	1062	37	3.4	1.24	1	2	0.43
Z3_AM_3100_Q_6	1069	30	2.7	1.07	1	2	0.25
Z3_AM_3100_Q_7	1084	15	1.4	1.07	1	2	0.26
Z3_AM_3100_Q_8	1093	6	0.5	1.17	1	2	0.41
Z3_AM_3100_Q_9	1098	1	0.1	1	1	1	
Z3_AM_3110_Q_1	1072	27	2.5	1	1	1	0
Z3_AM_3110_Q_2	1058	41	3.7	1.15	1	2	0.36
Z3_AM_3110_Q_3	1028	71	6.5	1.27	1	4	0.58
Z3_AM_3110_Q_4	1000	99	9	1.43	0	8	1.01
Z3_AM_3110_Q_5	1008	91	8.3	1.38	1	10	1.32
Z3_AM_3110_Q_6	1037	62	5.6	1.31	1	6	0.86
Z3_AM_3110_Q_7	1039	60	5.5	1.7	1	14	2.11
Z3_AM_3110_Q_8	1074	25	2.3	1.2	1	2	0.41
Z3_AM_3110_Q_9	1097	2	0.2	30.5	1	60	41.72
Z3_AM_3120_Q_1	1065	34	3.1	1.18	1	2	0.39
Z3_AM_3120_Q_2	1047	52	4.7	1.5	1	6	1.13
Z3_AM_3120_Q_3	1020	79	7.2	1.47	1	6	1.08
Z3_AM_3120_Q_4	1014	85	7.7	1.44	0	7	1.07
Z3_AM_3120_Q_5	1032	67	6.1	1.78	1	15	2.31
Z3_AM_3120_Q_6	1044	55	5	1.58	1	11	1.57
Z3_AM_3120_Q_7	1060	39	3.5	2	1	24	3.86
Z3_AM_3120_Q_8	1083	16	1.5	4.19	1	40	9.79
Z3_AM_3120_Q_9	1097	2	0.2	1	1	1	0
Z3_AM_3130_Q_1	945	154	14	1.79	1	9	1.44
Z3_AM_3130_Q_2	855	244	22.2	2.07	1	11	1.63
Z3_AM_3130_Q_3	754	345	31.4	2.5	1	12	1.87
Z3_AM_3130_Q_4	689	410	37.3	2.78	1	40	2.79
Z3_AM_3130_Q_5	706	393	35.8	2.46	1	19	2.16
Z3_AM_3130_Q_6	790	309	28.1	2.29	1	11	1.77
Z3_AM_3130_Q_7	764	335	30.5	2.92	1	34	2.67
Z3_AM_3130_Q_8	918	181	16.5	2.36	1	26	2.42
Z3_AM_3130_Q_9	1091	8	0.7	1.38	1	2	0.52
Z3_AM_3140_Q_1	1093	6	0.5	1	1	1	0
Z3_AM_3140_Q_2	1084	15	1.4	1.13	1	2	0.35
Z3_AM_3140_Q_3	1074	25	2.3	1.12	1	4	0.6
Z3_AM_3140_Q_4	1076	23	2.1	1.13	1	2	0.34
Z3_AM_3140_Q_5	1087	12	1.1	1.08	1	2	0.29
Z3_AM_3140_Q_6	1091	8	0.7	1	1	1	0
Z3_AM_3140_Q_7	1092	7	0.6	1.57	1	5	1.51
Z3_AM_3140_Q_8	1094	5	0.5	1	1	1	0
Z3_AM_3140_Q_9	1099	0	0				
Z3_AM_3150_Q_1	1095	4	0.4	1	1	1	0
Z3_AM_3150_Q_2	1088	11	1	1	1	1	0
Z3_AM_3150_Q_3	1078	21	1.9	1.1	1	3	0.44
Z3_AM_3150_Q_4	1075	24	2.2	1.08	1	2	0.28
Z3_AM_3150_Q_5	1053	46	4.2	1.07	1	2	0.25
Z3_AM_3150_Q_6	1074	25	2.3	1	1	1	0
Z3_AM_3150_Q_7	1074	25	2.3	1.92	1	21	3.99
Z3_AM_3150_Q_8	1086	13	1.2	1	1	1	0
Z3_AM_3150_Q_9	1099	0	0				
Z3_AM_3160_Q_1	1096	3	0.3	1.67	1	3	1.15
Z3_AM_3160_Q_2	1095	4	0.4	1	1	1	0
Z3_AM_3160_Q_3	1094	5	0.5	1	1	1	0
Z3_AM_3160_Q_4	1087	12	1.1	1.17	1	2	0.39
Z3_AM_3160_Q_5	1093	6	0.5	1	1	1	0
Z3_AM_3160_Q_6	1090	9	0.8	1.33	1	3	0.71
Z3_AM_3160_Q_7	1087	12	1.1	1.92	1	5	1.24
Z3_AM_3160_Q_8	1094	5	0.5	1.2	1	2	0.45
Z3_AM_3160_Q_9	1099	0	0				

Z3_AM_3170_Q_1	1084	15	1.4	1.2	1	3	0.56
Z3_AM_3170_Q_2	1075	24	2.2	1	1	1	0
Z3_AM_3170_Q_3	1056	43	3.9	1.49	1	7	1.28
Z3_AM_3170_Q_4	1043	56	5.1	1.39	1	5	0.85
Z3_AM_3170_Q_5	1070	29	2.6	1.62	1	10	1.88
Z3_AM_3170_Q_6	1043	56	5.1	1.64	1	6	1.23
Z3_AM_3170_Q_7	1063	36	3.3	1.25	1	3	0.55
Z3_AM_3170_Q_8	1085	14	1.3	1.57	1	8	1.87
Z3_AM_3170_Q_9	1099	0	0				
Z3_AM_3180_Q_1	1087	12	1.1	2.33	1	7	1.87
Z3_AM_3180_Q_2	1076	23	2.1	2	1	5	1.38
Z3_AM_3180_Q_3	1068	31	2.8	2.55	1	20	3.74
Z3_AM_3180_Q_4	1065	34	3.1	1.94	1	20	3.27
Z3_AM_3180_Q_5	1066	33	3	1.58	1	9	1.6
Z3_AM_3180_Q_6	1077	22	2	1.5	1	5	0.96
Z3_AM_3180_Q_7	1071	28	2.5	1.32	1	3	0.55
Z3_AM_3180_Q_8	1087	12	1.1	1.33	1	4	0.89
Z3_AM_3180_Q_9	1099	0	0				
Z3_AM_3190_Q_1	1044	55	5	1.16	1	3	0.42
Z3_AM_3190_Q_2	1008	91	8.3	1.25	1	4	0.55
Z3_AM_3190_Q_3	945	154	14	1.21	1	5	0.54
Z3_AM_3190_Q_4	924	175	15.9	1.2	1	4	0.45
Z3_AM_3190_Q_5	960	139	12.6	1.23	1	5	0.61
Z3_AM_3190_Q_6	1010	89	8.1	1.16	1	3	0.45
Z3_AM_3190_Q_7	1019	80	7.3	1.29	1	10	1.08
Z3_AM_3190_Q_8	1084	15	1.4	1.27	1	5	1.03
Z3_AM_3190_Q_9	1099	0	0				
Z3_IN_1011_IC	944	155	14.1				
Z3_IN_1012_IC	1073	26	2.4				
Z3_IN_1021_C	805	294	26.8	112017.65	0	1500000	206997.43
Z3_IN_1021_IC	782	317	28.8				
Z3_IN_1022_C	1082	17	1.5	47950.24	0	160000	56213.36
Z3_IN_1022_IC	1079	20	1.8				
Z4_LA_1000_CP	1016	83	7.6	69.67	0	100	42.7
Z4_LA_1000_FY	1015	84	7.6	2002.9	1964	2016	9
Z4_LA_1000_LP	1051	48	4.4	57.96	0	100	49.55
Z4_LA_1000_UL	1015	84	7.6	4846.21	91	25362	5308.1
Z4_LA_2000_CP	996	103	9.4	59.09	0	100	41.06
Z4_LA_2000_FY	977	122	11.1	1992.83	1956	2013	12.63
Z4_LA_2000_LP	1030	69	6.3	62.91	0	100	41.15
Z4_LA_2000_UL	995	104	9.5	2607.72	1	16500	3352.15
Z4_LA_3000_CP	1017	82	7.5	62.84	0	100	42.61
Z4_LA_3000_FY	901	198	18	2004.1	1976	2016	8.51
Z4_LA_3000_LP	932	167	15.2	79.99	0	100	34.28
Z4_LA_3000_UL	937	162	14.7	6756.54	0	220100	17764.72
Z4_MO_4010_CS	589	510	46.4				
Z4_MO_4010_DS	560	539	49				
Z4_MO_4010_OS	600	499	45.4				
Z4_MO_4020_CS	750	349	31.8				
Z4_MO_4020_DS	730	369	33.6				
Z4_MO_4020_OS	754	345	31.4				
Z4_MO_4030_CS	810	289	26.3				
Z4_MO_4030_DS	811	288	26.2				
Z4_MO_4030_OS	813	286	26				
Z4_MO_4040_CS	908	191	17.4				
Z4_MO_4040_DS	908	191	17.4				
Z4_MO_4040_OS	908	191	17.4				
Z4_MO_4045_CS	862	237	21.6				
Z4_MO_4045_DS	862	237	21.6				
Z4_MO_4045_OS	862	237	21.6				
Z4_MO_4050_CS	890	209	19				
Z4_MO_4050_DS	890	209	19				
Z4_MO_4050_OS	890	209	19				
Z4_MO_4055_CS	889	210	19.1				
Z4_MO_4055_DS	889	210	19.1				
Z4_MO_4055_OS	889	210	19.1				
Z4_MO_4060_CS	644	455	41.4				
Z4_MO_4060_DS	619	480	43.7				

Z4_MO_4060_OS	580	519	47.2				
Z4_MO_4070_CS	740	359	32.7				
Z4_MO_4070_DS	770	329	29.9				
Z4_MO_4070_OS	777	322	29.3				
Z4_MO_4080_CS	860	239	21.7				
Z4_MO_4080_DS	850	249	22.7				
Z4_MO_4080_OS	861	238	21.7				
Z4_MO_4090_CS	870	229	20.8				
Z4_MO_4090_DS	854	245	22.3				
Z4_MO_4090_OS	865	234	21.3				
Z4_MO_4100_CS	934	165	15				
Z4_MO_4100_DS	930	169	15.4				
Z4_MO_4100_OS	933	166	15.1				
Z4_MO_4110_CS	939	160	14.6				
Z4_MO_4110_DS	939	160	14.6				
Z4_MO_4110_OS	938	161	14.6				
Z4_MO_4120_CS	880	219	19.9				
Z4_MO_4120_DS	869	230	20.9				
Z4_MO_4120_OS	881	218	19.8				
Z4_MO_4130_CS	908	191	17.4				
Z4_MO_4130_DS	900	199	18.1				
Z4_MO_4130_OS	909	190	17.3				
Z4_MO_4140_CS	927	172	15.7				
Z4_MO_4140_DS	924	175	15.9				
Z4_MO_4140_OS	927	172	15.7				
Z4_MO_4150_CS	941	158	14.4				
Z4_MO_4150_DS	934	165	15				
Z4_MO_4150_OS	941	158	14.4				
Z5_GR_1010_A	688	411	37.4	2613.57	0	44381	4261.71
Z5_GR_1020_A	988	111	10.1	4048.85	9	73000	8160.4
Z5_GR_1030_A	898	201	18.3	1406.66	3	24126.95	3269.66
Z5_GR_1040_A	1097	2	0.2	7.5	4	11	4.95
Z5_GR_1050_A	861	238	21.7	39459.55	0.03	9222500	597763.73
Z5_GR_1060_A	959	140	12.7	187.24	1	4500	432.73
Z5_GR_1070_A	1090	9	0.8	205.22	4	400	122.53
Z5_GR_1080_A	1056	43	3.9	91.48	1	900	169.56
Z5_GR_1090_A	1094	5	0.5	66.6	6	102	37.37
Z5_GR_1100_A	1030	69	6.3	772.4	0.8	11000	1586.44
Z5_GR_1110_A	846	253	23	755.52	9	17580	1562.58
Z5_GR_1120_A	888	211	19.2	1302.36	0.01	20478.5	2551.63
Z5_GR_1130_A	958	141	12.8	1428545.21	0.27	201318900	16954046.1
Z5_GR_1140_A	1055	44	4	15.64	1	113	26.4
Z5_GR_1150_A	1065	34	3.1	1875.5	15	19000	3577.32
Z5_GR_1160_A	1066	33	3	7902.39	20	73000	14879.61
Z5_LF_4010_D	73	1026	93.4	3.85	0	114.8	7.23
Z5_LF_4010_F	41	1058	96.3				
Z5_LF_4010_Q	36	1063	96.7	24.33	1	333	32.13
Z5_LF_4020_C	66	1033	94				
Z5_LF_4020_D	63	1036	94.3	9.2	0	400	18.49
Z5_LF_4030_D	204	895	81.4	1.22	0	110.3	6.73
Z5_NL_2010_A	920	179	16.3	2651.53	5	60369	5376.01
Z5_NL_2020_A	931	168	15.3	2433.11	2	44500	5358.67
Z5_SE_3010_A	899	200	18.2	3350.57	1	48000	6775.14
Z5_SE_3020_A	991	108	9.8	2465.27	2	25000	4609.81
Z5_SE_3030_A	1049	50	4.5	2555.4	4	22000	4630.83
Z5_SE_3040_A	1068	31	2.8	2415.58	3	16000	3557.28
Z5_SE_3050_A	1051	48	4.4	1054.4	2	4700	1108.56
Z5_SE_3060_A	1076	23	2.1	2807.39	130	11000	2690.24
Z5_SO_5010_R	164	935	85.1				
Z5_SO_5010_SR	36	1063	96.7				
Z5_SO_5020_A_1	752	347	31.6	8790.67	20	234768	24421.24
Z5_SO_5020_A_2	562	537	48.9	3421.47	20	191269	9781.28
Z5_SO_5020_A_3	724	375	34.1	4030.73	22.65	120000	8489.01
Z5_SO_5020_A_4	784	315	28.7	2308.05	12	45319	4277.06
Z5_SO_5020_A_5	586	513	46.7	9824.4	20	428010	27172.62
Z5_SO_5020_A_6	858	241	21.9	10007.64	10	766940	50219.99
Z5_SO_5020_A_7	858	241	21.9	2899.9	8	28000	4206.31
Z6_AM_3020_H1	933	166	15.1	898.73	0	2300	706.13

Z6_AM_3020_H2	807	292	26.6	1351.14	0	4200	678.9
Z6_CO_2010_CT_1	440	659	60				
Z6_CO_2010_CT_2	841	258	23.5				
Z6_CO_2010_CT_3	993	106	9.6				
Z6_CO_2010_CT_4	1066	33	3				
Z6_CO_2010_DT_1	516	583	53				
Z6_CO_2010_DT_2	938	161	14.6				
Z6_CO_2010_DT_3	1046	53	4.8				
Z6_CO_2010_DT_4	1081	18	1.6				
Z6_CO_2010_PT_1	472	627	57.1				
Z6_CO_2010_PT_2	875	224	20.4				
Z6_CO_2010_PT_3	1016	83	7.6				
Z6_CO_2010_PT_4	1078	21	1.9				
Z6_CO_2010_QT_1	550	549	50				
Z6_CO_2010_QT_2	952	147	13.4				
Z6_CO_2010_QT_3	1050	49	4.5				
Z6_CO_2010_QT_4	1081	18	1.6				
Z6_CO_2010_SH_1	478	621	56.5				
Z6_CO_2010_SH_2	920	179	16.3				
Z6_CO_2010_SH_3	1037	62	5.6				
Z6_CO_2010_SH_4	1077	22	2				
Z6_IN_1030_ST	52	1047	95.3				
Z6_IN_1040_ST	807	292	26.6				
Z8_AN_40010_P	1072	27	2.5	96460.13	0	2.00E+06	392261.92
Z8_AN_40010_S	1070	29	2.6	7498.76	0	139100	26036.58
Z8_AN_40020_P	1090	9	0.8	223146.56	0	2.00E+06	666325.61
Z8_AN_40020_S	1085	14	1.3	1946.79	0	7494.25	2830.21
Z8_AN_40030_P	1085	14	1.3	400.29	0	2400	681.18
Z8_AN_40030_S	1095	4	0.4	1038.75	0	4000	1975.52
Z8_AN_40040_P	1076	23	2.1	1071.22	0	10000	2345.08
Z8_AN_40040_S	1085	14	1.3	71.43	0	500	157.77
Z8_AP_261_PC	881	218	19.8	10.41	3	39	12.58
Z8_AP_262_PC	1099	0	0				
Z8_AP_311_PC	1043	56	5.1	5.46	3.2	5.85	0.37
Z8_AP_321_PC	1092	7	0.6	3.39	3.28	3.53	0.1
Z8_CR_10110_CQ	910	189	17.2	1916.13	0	69333.7	7196.05
Z8_CR_10110_OQ	902	197	17.9	1518.48	0	61119	5886.77
Z8_CR_10120_CQ	1097	2	0.2	350	250	450	141.42
Z8_CR_10120_OQ	1095	4	0.4	327.5	0	630	288.83
Z8_CR_10130_CQ	1063	36	3.3	757.18	0	11908.63	2744.12
Z8_CR_10130_OQ	1066	33	3	933.47	4	12861.4	2731.7
Z8_CR_10140_CQ	918	181	16.5	696.13	0	40422.5	3331.74
Z8_CR_10140_OQ	918	181	16.5	619.43	0	24322.5	2303.25
Z8_CR_10150_CQ	1034	65	5.9	234.28	0	2588.9	386.33
Z8_CR_10150_OQ	1031	68	6.2	246.71	0	2405.7	409.5
Z8_CR_10160_CQ	1006	93	8.5	5620.76	0	205119.7	24346.42
Z8_CR_10160_OQ	1017	82	7.5	8170.1	0	245998.4	30541.13
Z8_CR_10170_CQ	1095	4	0.4	604.75	264	945	347.34
Z8_CR_10170_OQ	1098	1	0.1	1350	1350	1350	
Z8_CR_10190_CQ	963	136	12.4	460.8	0	10037.8	1160.64
Z8_CR_10190_OQ	969	130	11.8	444.47	0	5922.8	747.99
Z8_CR_10210_CQ	1066	33	3	93.36	0	1466.1	253.21
Z8_CR_10210_OQ	1064	35	3.2	62.89	0	1006.8	195.99
Z8_CR_10220_CQ	1094	5	0.5	45.34	0.3	200	86.54
Z8_CR_10220_OQ	1096	3	0.3	0	0	0	0
Z8_CR_10290_CQ	1083	16	1.5	93.07	0	558	151.98
Z8_CR_10290_OQ	1084	15	1.4	124.27	0	333	125.69
Z8_CR_10300_CQ	1020	79	7.2	4296.95	0	49116	8479.4
Z8_CR_10300_OQ	1019	80	7.3	4264.6	0	35883	7701.75
Z8_CR_10310_CQ	1098	1	0.1	45166	45166	45166	
Z8_CR_10310_OQ	1098	1	0.1	29097	29097	29097	
Z8_CR_10390_CQ	1063	36	3.3	8064.14	0	38693	8153.29
Z8_CR_10390_OQ	1063	36	3.3	8475.53	0	35883	8449.72
Z8_CR_10400_CQ	1098	1	0.1	1274.5	1274.5	1274.5	
Z8_CR_10400_OQ	1099	0	0				
Z8_CR_10500_CQ	1094	5	0.5	144	0	600	255.89
Z8_CR_10500_OQ	1094	5	0.5	51	0	95	38.96
Z8_CR_10601_CQ	1099	0	0				

Z8_CR_10601_OQ	1099	0	0				
Z8_CR_10602_CQ	1098	1	0.1	0	0	0	
Z8_CR_10602_OQ	1098	1	0.1	20	20	20	
Z8_CR_10603_CQ	1098	1	0.1	75	75	75	
Z8_CR_10603_OQ	1099	0	0				
Z8_CR_10604_CQ	1072	27	2.5	464.08	0	3750	788.74
Z8_CR_10604_OQ	1073	26	2.4	1055.83	0	14492.2	2816.32
Z8_CR_10605_CQ	1083	16	1.5	2090.91	0	18560.6	4740.71
Z8_CR_10605_OQ	1082	17	1.5	2468.14	0	18762.6	4822.07
Z8_CR_10606_CQ	1091	8	0.7	2799.11	0	7759.9	2898.62
Z8_CR_10606_OQ	1093	6	0.5	1919.92	0	5564.7	2267.41
Z8_CR_10607_CQ	1098	1	0.1	50	50	50	
Z8_CR_10607_OQ	1098	1	0.1	0	0	0	
Z8_CR_10608_CQ	1094	5	0.5	14.08	0	64	27.97
Z8_CR_10608_OQ	1094	5	0.5	13.42	0	64	28.3
Z8_CR_10609_CQ	1099	0	0				
Z8_CR_10609_OQ	1099	0	0				
Z8_CR_10610_CQ	1098	1	0.1	656	656	656	
Z8_CR_10610_OQ	1098	1	0.1	0	0	0	
Z8_CR_10611_CQ	1099	0	0				
Z8_CR_10611_OQ	1099	0	0				
Z8_CR_10612_CQ	1099	0	0				
Z8_CR_10612_OQ	1099	0	0				
Z8_CR_10613_CQ	1099	0	0				
Z8_CR_10613_OQ	1099	0	0				
Z8_CR_10690_CQ	1098	1	0.1	2.5	2.5	2.5	
Z8_CR_10690_OQ	1098	1	0.1	2.5	2.5	2.5	
Z8_CR_10731_CQ	1099	0	0				
Z8_CR_10731_OQ	1099	0	0				
Z8_CR_10732_CQ	1099	0	0				
Z8_CR_10732_OQ	1099	0	0				
Z8_CR_10733_CQ	1098	1	0.1	0	0	0	
Z8_CR_10733_OQ	1098	1	0.1	640	640	640	
Z8_CR_10734_CQ	1098	1	0.1	720	720	720	
Z8_CR_10734_OQ	1099	0	0				
Z8_CR_10735_CQ	1074	25	2.3	2976.4	0	20663	4316.96
Z8_CR_10735_OQ	1075	24	2.2	2972	0	16674	3723.63
Z8_CR_10736_CQ	1099	0	0				
Z8_CR_10736_OQ	1099	0	0				
Z8_CR_10737_CQ	1091	8	0.7	2491.25	0	10285	3911.36
Z8_CR_10737_OQ	1092	7	0.6	4264.43	17	11541	3713.92
Z8_CR_10738_CQ	1099	0	0				
Z8_CR_10738_OQ	1099	0	0				
Z8_CR_10739_CQ	1099	0	0				
Z8_CR_10739_OQ	1099	0	0				
Z8_CR_10790_CQ	1087	12	1.1	1340.08	0	11189	3170.02
Z8_CR_10790_OQ	1087	12	1.1	2044.06	0	17679	4985.5
Z8_CR_10830_CQ	1099	0	0				
Z8_CR_10830_OQ	1099	0	0				
Z8_CR_10840_CQ	1099	0	0				
Z8_CR_10840_OQ	1099	0	0				
Z8_CR_10850_CQ	1099	0	0				
Z8_CR_10850_OQ	1099	0	0				
Z8_CR_10910_CQ	1048	51	4.6	5823.85	0	33525	5701.59
Z8_CR_10910_OQ	1046	53	4.8	5511.38	0	18000	4617.37
Z8_CR_10921_CQ	1010	89	8.1	6898.05	0	67456.6	13091.91
Z8_CR_10921_OQ	1014	85	7.7	7630.42	0	165841	20772.68
Z8_CR_10922_CQ	1079	20	1.8	1242.35	26.1	8371.8	1828.33
Z8_CR_10922_OQ	1077	22	2	1644.16	17.6	12466.2	2846.26
Z8_CR_10923_CQ	1067	32	2.9	1627.36	0	9770	2629.93
Z8_CR_10923_OQ	1070	29	2.6	1644.27	0	6600	2151.45
Z8_CR_11000_CQ	1094	5	0.5	601.32	0	1984	890.02
Z8_CR_11000_OQ	1094	5	0.5	712	0	2998.8	1286.54
Z8_CR_11100_CQ	1098	1	0.1	2165.4	2165.4	2165.4	
Z8_CR_11100_OQ	1098	1	0.1	374.7	374.7	374.7	
Z8_CR_40111_CQ	1075	24	2.2	1757.06	66	12000	2423.01
Z8_CR_40111_OQ	1076	23	2.1	1345.28	8	4167	1148.35
Z8_CR_40112_CQ	1095	4	0.4	58	2	150	63.9

Z8_CR_40112_OQ	1095	4	0.4	32.5	0	50	23.63
Z8_CR_40113_CQ	1099	0	0				
Z8_CR_40113_OQ	1099	0	0				
Z8_CR_40114_CQ	1099	0	0				
Z8_CR_40114_OQ	1099	0	0				
Z8_CR_40115_CQ	1099	0	0				
Z8_CR_40115_OQ	1099	0	0				
Z8_CR_40120_CQ	1099	0	0				
Z8_CR_40120_OQ	1099	0	0				
Z8_CR_40130_CQ	1099	0	0				
Z8_CR_40130_OQ	1099	0	0				
Z8_CR_40210_CQ	1099	0	0				
Z8_CR_40210_OQ	1098	1	0.1	0.5	0.5	0.5	
Z8_CR_40220_CQ	1099	0	0				
Z8_CR_40220_OQ	1099	0	0				
Z8_CR_40230_CQ	1098	1	0.1	10	10	10	
Z8_CR_40230_OQ	1099	0	0				
Z8_CR_40290_CQ	1099	0	0				
Z8_CR_40290_OQ	1099	0	0				
Z8_CR_40310_CQ	1091	8	0.7	67.22	1.3	180.4	71.97
Z8_CR_40310_OQ	1093	6	0.5	31.02	0.75	110	47.99
Z8_CR_40320_CQ	1099	0	0				
Z8_CR_40320_OQ	1099	0	0				
Z8_CR_40330_CQ	1077	22	2	87.1	0.1	392.73	95.86
Z8_CR_40330_OQ	1080	19	1.7	10.36	1	69.87	17.19
Z8_CR_40411_CQ	1095	4	0.4	1971.5	350	4616	2025.6
Z8_CR_40411_OQ	1094	5	0.5	1213.8	50	4349	1788.06
Z8_CR_40412_CQ	1099	0	0				
Z8_CR_40412_OQ	1098	1	0.1	50	50	50	
Z8_CR_40420_CQ	1099	0	0				
Z8_CR_40420_OQ	1099	0	0				
Z8_CR_40430_CQ	1099	0	0				
Z8_CR_40430_OQ	1099	0	0				
Z8_CR_40440_CQ	1099	0	0				
Z8_CR_40440_OQ	1099	0	0				
Z8_CR_40440_PQ	1099	0	0				
Z8_CR_40451_CQ	1098	1	0.1	50	50	50	
Z8_CR_40451_OQ	1098	1	0.1	400	400	400	
Z8_CR_40451_PQ	1099	0	0				
Z8_CR_40452_CQ	1099	0	0				
Z8_CR_40452_OQ	1099	0	0				
Z8_CR_40452_PQ	1099	0	0				
Z8_CR_40460_CQ	1099	0	0				
Z8_CR_40460_OQ	1099	0	0				
Z8_CR_40460_PQ	1099	0	0				
Z8_CR_40500_CQ	1099	0	0				
Z8_CR_40500_OQ	1099	0	0				
Z8_CR_40600_CQ	1099	0	0				
Z8_CR_40600_OQ	1099	0	0				
Z8_CR_40610_CQ	1099	0	0				
Z8_CR_40610_OQ	1099	0	0				
Z8_CR_40700_CQ	1099	0	0				
Z8_CR_40700_OQ	1099	0	0				
Z8_CR_60000_CQ	1099	0	0				
Z8_CR_60000_OQ	1099	0	0				
Z8_LS_100_CQ	1075	24	2.2	20.85	1	94	21.05
Z8_LS_100_OQ	1075	24	2.2	21.73	1	85	20.35
Z8_LS_100_P	1097	2	0.2	327.5	5	650	456.08
Z8_LS_100_S	1091	8	0.7	55.93	3	400	139.07
Z8_LS_210_CQ	758	341	31	62.45	0	1096.85	107.09
Z8_LS_210_OQ	759	340	30.9	62.49	0	891.95	103.26
Z8_LS_210_P	926	173	15.7	31.29	0	750.57	97.78
Z8_LS_210_S	801	298	27.1	53.73	0	654	87.41
Z8_LS_220_CQ	903	196	17.8	108.05	0	10000	719.84
Z8_LS_220_OQ	899	200	18.2	109.12	0	10000	713.45
Z8_LS_220_P	974	125	11.4	2.92	0	195	18.94
Z8_LS_220_S	906	193	17.6	188.77	0	20000	1446.3
Z8_LS_230_CQ	791	308	28	83.54	0	1164	126.17

Z8_LS_230_OQ	792	307	27.9	83.43	0	1236	130.24
Z8_LS_230_P	964	135	12.3	5.17	0	108	16.89
Z8_LS_230_S	896	203	18.5	33.99	0	1214.72	106.53
Z8_LS_240_CQ	947	152	13.8	10.12	0	174	20.04
Z8_LS_240_OQ	948	151	13.7	12.37	0	200.8	26.52
Z8_LS_240_P	999	100	9.1	1.66	0	45	5.22
Z8_LS_240_S	982	117	10.6	42.25	0	414	88
Z8_LS_251_CQ	900	199	18.1	57.78	0	711	90.51
Z8_LS_251_OQ	888	211	19.2	59.63	0	522	88.06
Z8_LS_251_P	989	110	10	4.88	0	130	15.48
Z8_LS_251_S	970	129	11.7	16.26	0	616.5	58.16
Z8_LS_252_CQ	1023	76	6.9	7.33	0	320	38.96
Z8_LS_252_OQ	1021	78	7.1	17.62	0	480	74.89
Z8_LS_252_P	1028	71	6.5	0	0	0	0
Z8_LS_252_S	1025	74	6.7	20.76	0	201	44.26
Z8_LS_261_CQ	837	262	23.8	452.26	0	5460	650.06
Z8_LS_261_OQ	833	266	24.2	431.2	0	5160	630.25
Z8_LS_261_P	966	133	12.1	8.92	0	618	54.73
Z8_LS_261_S	842	257	23.4	96.59	0	1706.8	171.69
Z8_LS_262_CQ	1097	2	0.2	477.5	75	880	569.22
Z8_LS_262_OQ	1097	2	0.2	477.5	75	880	569.22
Z8_LS_262_P	1099	0	0				
Z8_LS_262_S	1099	0	0				
Z8_LS_269_CQ	967	132	12	166.2	0	1281.58	231.76
Z8_LS_269_OQ	968	131	11.9	187.2	0	3045	337.56
Z8_LS_269_P	1013	86	7.8	7.27	0	312	36.42
Z8_LS_269_S	983	116	10.6	58.85	0	3305	308.06
Z8_LS_311_CQ	948	151	13.7	89.77	0	825.55	141.45
Z8_LS_311_OQ	948	151	13.7	93.07	0	930.32	148.11
Z8_LS_311_P	999	100	9.1	2.47	0	56	8.45
Z8_LS_311_S	971	128	11.6	14.93	0	149.8	25.98
Z8_LS_319_CQ	952	147	13.4	14.84	0	164.13	24.46
Z8_LS_319_OQ	954	145	13.2	16.3	0	266.29	32.35
Z8_LS_319_P	992	107	9.7	1.62	0	33.25	5.69
Z8_LS_319_S	954	145	13.2	22.61	0	389.33	40.25
Z8_LS_321_CQ	1092	7	0.6	26.98	4.5	71.1	23.78
Z8_LS_321_OQ	1091	8	0.7	28.59	4.5	86.85	27.44
Z8_LS_321_P	1093	6	0.5	0.3	0	1.8	0.73
Z8_LS_321_S	1093	6	0.5	3.38	0	13.5	5.18
Z8_LS_329_CQ	1093	6	0.5	4.96	0.45	9.06	4.12
Z8_LS_329_OQ	1091	8	0.7	5.91	0.45	14.38	5.15
Z8_LS_329_P	1093	6	0.5	0	0	0	0
Z8_LS_329_S	1092	7	0.6	7.3	0	21	7.42
Z8_LS_410_CQ	1007	92	8.4	108.33	0	1699	229
Z8_LS_410_OQ	1001	98	8.9	106.09	0	1344.8	219.37
Z8_LS_410_P	1042	57	5.2	27.03	0	1153.4	153.98
Z8_LS_410_S	1025	74	6.7	315.23	0	5505	928.59
Z8_LS_420_CQ	986	113	10.3	299.61	0	6264.8	790.13
Z8_LS_420_OQ	986	113	10.3	336.74	0	10716.4	1109.42
Z8_LS_420_P	1035	64	5.8	4.51	0	186.4	23.51
Z8_LS_420_S	1014	85	7.7	239.73	0	14179.2	1539.28
Z8_LS_491_CQ	960	139	12.6	707.09	0	32253.89	2932.67
Z8_LS_491_OQ	960	139	12.6	711.18	0	34294.68	3081.94
Z8_LS_491_P	1009	90	8.2	1072.21	0	25265.2	3586.65
Z8_LS_491_S	955	144	13.1	2763.06	0	142731.19	12410.79
Z8_LS_499_CQ	1013	86	7.8	25.12	0	748	89.28
Z8_LS_499_OQ	1009	90	8.2	27.69	0	882	100.67
Z8_LS_499_P	1035	64	5.8	68.21	0	1544	218.04
Z8_LS_499_S	1027	72	6.6	150.49	0	6150	743.79
Z8_LS_510_CQ	1097	2	0.2	82	24	140	82.02
Z8_LS_510_OQ	1098	1	0.1	17.8	17.8	17.8	
Z8_LS_510_P	1097	2	0.2	103	56	150	66.47
Z8_LS_510_S	1096	3	0.3	1137.38	38.9	3223.25	1807.27
Z8_LS_520_CQ	1094	5	0.5	72.03	0.25	349	154.84
Z8_LS_520_OQ	1095	4	0.4	83.45	0.37	329	163.7
Z8_LS_520_P	1094	5	0.5	75.85	0.23	368	163.33
Z8_LS_520_S	1096	3	0.3	91.73	0.02	272	156.13
Z8_LS_530_CQ	1094	5	0.5	568.62	0.04	1070.76	514.75

Z8_LS_530_OQ	1095	4	0.4	282.5	0.16	850.15	391.06
Z8_LS_530_P	1094	5	0.5	851.26	0.12	2529.2	1075.15
Z8_LS_530_S	1092	7	0.6	1459.67	0.14	5140	1961.88
Z8_LS_610_CQ	1099	0	0				
Z8_LS_610_OQ	1099	0	0				
Z8_LS_610_P	1099	0	0				
Z8_LS_610_S	1099	0	0				
Z8_LS_699_CQ	1099	0	0				
Z8_LS_699_OQ	1099	0	0				
Z8_LS_699_P	1099	0	0				
Z8_LS_699_S	1099	0	0				
Z8_LS_900_CQ	1095	4	0.4	434.99	0	1736.2	867.48
Z8_LS_900_OQ	1095	4	0.4	587.35	0	2346.4	1172.7
Z8_LS_900_P	1094	5	0.5	99.42	0.75	475.34	210.26
Z8_LS_900_S	1096	3	0.3	289.57	9.5	849.1	484.57
Z8_PF_20010_CQ	1056	43	3.9	968.78	0	22500	3474.11
Z8_PF_20010_OQ	1053	46	4.2	1311.15	0	28900	4456.59
Z8_PF_20010_P	1008	91	8.3	1933.05	0	58800	8077.64
Z8_PF_20020_CQ	1058	41	3.7	2679.61	0	29859	6063.42
Z8_PF_20020_OQ	1054	45	4.1	2790.85	0	35311	6434.11
Z8_PF_20020_P	1019	80	7.3	7219.95	0	150000	23912.9
Z8_PF_20030_CQ	1098	1	0.1	0	0	0	
Z8_PF_20030_OQ	1096	3	0.3	2610	0	7800	4494.7
Z8_PF_20030_P	1092	7	0.6	11.39	1	26.75	10.34
Z8_PF_20040_CQ	1053	46	4.2	333.12	0	2289.6	462.61
Z8_PF_20040_OQ	1050	49	4.5	399.15	0	4000	654.44
Z8_PF_20040_P	1027	72	6.6	739.61	10	5200	991.12
Z8_PF_20050_CQ	1046	53	4.8	3974.43	0	53620	7784.67
Z8_PF_20050_OQ	1046	53	4.8	7201.81	0	144269.2	22790.53
Z8_PF_20050_P	1038	61	5.6	3593.73	0	20900	4164.92
Z8_PF_20060_CQ	1099	0	0				
Z8_PF_20060_OQ	1099	0	0				
Z8_PF_20060_P	1099	0	0				
Z8_PF_20070_CQ	1093	6	0.5	232.17	0	368	146.72
Z8_PF_20070_OQ	1093	6	0.5	319.67	0	1273	471.96
Z8_PF_20070_P	1089	10	0.9	1754.5	255	7232	2228.65
Z8_PF_20090_CQ	1099	0	0				
Z8_PF_20090_OQ	1099	0	0				
Z8_PF_20090_P	1099	0	0				
Z8_PF_20100_CQ	1099	0	0				
Z8_PF_20100_OQ	1099	0	0				
Z8_PF_20100_P	1099	0	0				
Z8_PF_20110_CQ	1097	2	0.2	71.81	17	126.61	77.51
Z8_PF_20110_OQ	1097	2	0.2	40	20	60	28.28
Z8_PF_20110_P	1095	4	0.4	200.25	20	571	252.02
Z8_PF_20120_CQ	1099	0	0				
Z8_PF_20120_OQ	1099	0	0				
Z8_PF_20120_P	1099	0	0				
Z8_PF_20130_CQ	1063	36	3.3	1.75	0	30	5.77
Z8_PF_20130_OQ	1063	36	3.3	1.32	0	15	3.39
Z8_PF_20130_P	1062	37	3.4	46.25	0.25	360	73.68
Z8_PF_20140_CQ	1098	1	0.1	2	2	2	
Z8_PF_20140_OQ	1097	2	0.2	11	2	20	12.73
Z8_PF_20140_P	1099	0	0				
Z8_PF_20150_CQ	1099	0	0				
Z8_PF_20150_OQ	1099	0	0				
Z8_PF_20150_P	1099	0	0				
Z8_PF_20160_CQ	1099	0	0				
Z8_PF_20160_OQ	1099	0	0				
Z8_PF_20160_P	1099	0	0				
Z8_PF_20170_CQ	1095	4	0.4	1263.25	0	2629	1146.39
Z8_PF_20170_OQ	1095	4	0.4	851.77	0	2629	1240.3
Z8_PF_20170_P	1090	9	0.8	4400.78	6	15000	5464.77
Z8_PF_20180_CQ	1090	9	0.8	1769.67	0	6120	2299.27
Z8_PF_20180_OQ	1090	9	0.8	1854.44	0	5188	2207.31
Z8_PF_20180_P	1091	8	0.7	2373.5	0	6547	2532.87
Z8_PF_20190_CQ	1099	0	0				
Z8_PF_20190_OQ	1099	0	0				

Z8_PF_20190_P	1098	1	0.1	1958	1958	1958	
Z8_PF_20200_CQ	1099	0	0				
Z8_PF_20200_OQ	1099	0	0				
Z8_PF_20200_P	1099	0	0				
Z8_PF_20210_CQ	1088	11	1	773.09	0	4727	1399.94
Z8_PF_20210_OQ	1088	11	1	568.09	90	2000	624.21
Z8_PF_20210_P	1082	17	1.5	2597	20	14212	3557.45
Z8_PF_20220_CQ	1099	0	0				
Z8_PF_20220_OQ	1099	0	0				
Z8_PF_20220_P	1099	0	0				
Z8_PF_20230_CQ	1099	0	0				
Z8_PF_20230_OQ	1099	0	0				
Z8_PF_20230_P	1099	0	0				
Z8_PF_20240_CQ	998	101	9.2	722.91	0	31461.2	3527.95
Z8_PF_20240_OQ	998	101	9.2	759.33	0	38425.5	4020.04
Z8_PF_20240_P	990	109	9.9	6202.3	0	102800	17632.22
Z8_PS_30010_P	927	172	15.7	6.03	0	100	11.91
Z8_PS_30020_P	685	414	37.7	318.66	0	45770	2548.53
Z8_PS_30030_P	1061	38	3.5	14.55	0	155.48	35.78
Z8_PU_10010_CQ	960	139	12.6	255.99	0	18000	1577.55
Z8_PU_10010_OQ	960	139	12.6	298.98	0	18000	1647.15
Z8_PU_10010_P	885	214	19.5	2227.16	0.2	71500	5932.66
Z8_PU_10020_CQ	1015	84	7.6	133.92	0	7000	796.78
Z8_PU_10020_OQ	1011	88	8	198.58	0	8000	1144.34
Z8_PU_10020_P	942	157	14.3	858.95	0	73285	6121.22
Z8_PU_10040_CQ	1092	7	0.6	11.77	0	35	13.14
Z8_PU_10040_OQ	1093	6	0.5	12.58	0	35	12.89
Z8_PU_10040_P	1030	69	6.3	607.77	3	10827.8	1330.78
Z8_PU_10050_CQ	1060	39	3.5	1861.92	0	40422.6	6634.67
Z8_PU_10050_OQ	1060	39	3.5	1526.49	0	25220.2	4506.72
Z8_PU_10050_P	1047	52	4.7	1414.55	1.23	25323.1	3528.41
Z8_PU_10080_CQ	1018	81	7.4	1.94	0	20	3.71
Z8_PU_10080_OQ	1017	82	7.5	2.85	0	30	5.7
Z8_PU_10080_P	974	125	11.4	23.87	0	550	57.37
Z8_PU_10090_CQ	1078	21	1.9	7247.62	10	70243.7	20009.15
Z8_PU_10090_OQ	1079	20	1.8	6255.89	0	61119	16833.43
Z8_PU_10090_P	1070	29	2.6	3450.46	30	31768.01	7663.61
Z8_PU_10160_CQ	1099	0	0				
Z8_PU_10160_OQ	1099	0	0				
Z8_PU_10160_P	1099	0	0				
Z8_PU_10180_CQ	1086	13	1.2	467.91	0.02	2588.9	718.42
Z8_PU_10180_OQ	1084	15	1.4	450.5	0.2	2405.7	681.57
Z8_PU_10180_P	1083	16	1.5	244.4	0.1	884.57	288.25
Z8_PU_10190_CQ	896	203	18.5	1975.68	0	224374.5	17698.22
Z8_PU_10190_OQ	896	203	18.5	2314.27	0	290131.1	21909.73
Z8_PU_10190_P	845	254	23.1	3105.72	0	83343	8746.66
Z8_SL_50010_P	1055	44	4	8863.36	0	288000	43120.42
Z8_SL_50010_S	1052	47	4.3	3212.84	0	18000	3980.88
Z8_SL_50020_P	1059	40	3.6	117844.25	0	3.00E+06	496509.66
Z8_SL_50020_S	1065	34	3.1	13484.35	0	75834	16120.96
Z8_SL_50030_P	1097	2	0.2	0	0	0	0
Z8_SL_50030_S	1097	2	0.2	0	0	0	0
Z8_SL_50040_P	1092	7	0.6	2257.4	0	6697	2563.06
Z8_SL_50040_S	1096	3	0.3	53.33	0	160	92.38
Z9_EP_2010_CL	1097	2	0.2	750000	2.00E+05	1300000	777817.46
Z9_EP_2010_CO	1097	2	0.2	239000	50000	428000	267286.36
Z9_EP_2010_CS	1098	1	0.1	5270	5270	5270	
Z9_EP_2010_P	1098	1	0.1	11264709.6	11264709.6	11264709.6	
Z9_EP_2010_SH	1099	0	0				
Z9_EP_2010_SQ	1098	1	0.1	11264709.6	11264709.6	11264709.6	
Z9_EP_2010_SV	1098	1	0.1	616743	616743	616743	
Z9_EP_2020_CL	1099	0	0				
Z9_EP_2020_CO	1098	1	0.1	200	200	200	
Z9_EP_2020_CS	1099	0	0				
Z9_EP_2020_P	1097	2	0.2	630820	16000	1245640	869486.78
Z9_EP_2020_SH	1098	1	0.1	100	100	100	
Z9_EP_2020_SQ	1099	0	0				
Z9_EP_2020_SV	1099	0	0				

Z9_EP_2030_CL	1099	0	0				
Z9_EP_2030_CO	1099	0	0				
Z9_EP_2030_CS	1099	0	0				
Z9_EP_2030_P	1099	0	0				
Z9_EP_2030_SH	1099	0	0				
Z9_EP_2030_SQ	1099	0	0				
Z9_EP_2030_SV	1099	0	0				
Z9_EP_2040_CL	1099	0	0				
Z9_EP_2040_CO	1099	0	0				
Z9_EP_2040_CS	1099	0	0				
Z9_EP_2040_P	1098	1	0.1	13419	13419	13419	
Z9_EP_2040_SQ	1098	1	0.1	8746	8746	8746	
Z9_EP_2040_SV	1098	1	0.1	3463	3463	3463	
Z9_EP_2050_CL	1098	1	0.1	30000	30000	30000	
Z9_EP_2050_CO	1098	1	0.1	200	200	200	
Z9_EP_2050_CS	1098	1	0.1	0	0	0	
Z9_EP_2050_P	1098	1	0.1	100	100	100	
Z9_EP_2050_SQ	1099	0	0				
Z9_EP_2050_SV	1099	0	0				
Z9_EP_2060_CL	1067	32	2.9	142778.03	60	1200000	211023.01
Z9_EP_2060_CO	1044	55	5	87322.33	0	1200000	166254.77
Z9_EP_2060_CS	1072	27	2.5	7735.89	0	40494	11422.03
Z9_EP_2060_P	1030	69	6.3	185008.86	8	1440000	229104.61
Z9_EP_2060_SQ	1044	55	5	178552.19	0.37	1440000	244750.47
Z9_EP_2060_SV	1042	57	5.2	27527.46	7	424800	62153.89
Z9_EP_2070_CL	1095	4	0.4	77500	0	170000	85391.26
Z9_EP_2070_CO	1095	4	0.4	8375	1500	15000	5647.64
Z9_EP_2070_CS	1096	3	0.3	3533.33	2100	5000	1450.29
Z9_EP_2070_P	1096	3	0.3	133200	21600	270000	126102.82
Z9_EP_2070_SQ	1096	3	0.3	126000	0	270000	135897.02
Z9_EP_2070_SV	1096	3	0.3	10500	0	16500	9124.14
Z9_EP_2080_CL	1099	0	0				
Z9_EP_2080_CO	1099	0	0				
Z9_EP_2080_CS	1099	0	0				
Z9_EP_2080_P	1099	0	0				
Z9_EP_2080_SQ	1099	0	0				
Z9_EP_2080_SV	1099	0	0				
Z9_EU_1010_C	78	1021	92.9	10455.65	32	447558	23330.18
Z9_EU_1010_Q	20	1079	98.2	543486.85	0	51008615.4	2078453.87
Z9_EU_1010_SU	34	1065	96.9				
Z9_EU_1010_U	39	1060	96.5				
Z9_EU_1020_C	1007	92	8.4	2836.98	0	31637	4612.98
Z9_EU_1020_Q	1011	88	8	4060.45	10	66257	8245.06
Z9_EU_1020_SU	1008	91	8.3				
Z9_EU_1020_U	1005	94	8.6				
Z9_EU_1030_C	1094	5	0.5	2262.4	845	5879	2063.69
Z9_EU_1030_Q	1094	5	0.5	17.1	2	50	20.13
Z9_EU_1030_SU	1093	6	0.5				
Z9_EU_1030_U	1093	6	0.5				
Z9_EU_1040_C	1031	68	6.2	1019.9	0	15240	2250.06
Z9_EU_1040_Q	1016	83	7.6	489.32	0.2	38330	4204.31
Z9_EU_1040_SU	1024	75	6.8				
Z9_EU_1040_U	1017	82	7.5				
Z9_EU_1050_C	1095	4	0.4	3303.5	100	8779	4074.29
Z9_EU_1050_Q	1095	4	0.4	13663.65	0.07	54620	27304.23
Z9_EU_1050_SU	1095	4	0.4				
Z9_EU_1050_U	1095	4	0.4				
Z9_EU_1060_C	968	131	11.9	76523.85	5	3019178	319206.7
Z9_EU_1060_Q	968	131	11.9	352006.79	0.01	15349897	1573449.71
Z9_EU_1060_SU	958	141	12.8				
Z9_EU_1060_U	959	140	12.7				
Z9_EU_1070_C	238	861	78.3	4438.6	14	140090	8421.62
Z9_EU_1070_Q	292	807	73.4	46379.25	5.85	4544082	184067.6
Z9_EU_1070_SU	232	867	78.9				
Z9_EU_1070_U	218	881	80.2				
Z9_EU_1080_C	1047	52	4.7	2965.67	0	32575	4908.66
Z9_EU_1080_Q	1040	59	5.4	36820.69	21	7.00E+05	95440.9
Z9_EU_1080_SU	1041	58	5.3				

Z9_EU_1080_U	1040	59	5.4				
Z9_EU_1090_C	1098	1	0.1	1460	1460	1460	
Z9_EU_1090_Q	1097	2	0.2	13850.5	6101	21600	10959.45
Z9_EU_1090_SU	1093	6	0.5				
Z9_EU_1090_U	1093	6	0.5				
Z9_EU_1100_C	1099	0	0				
Z9_EU_1100_Q	1099	0	0				
Z9_EU_1100_SU	1099	0	0				
Z9_EU_1100_U	1099	0	0				
Z10_IR_3000_ED	767	332	30.2				
Z10_IR_3000_NO	755	344	31.3				
Z10_IR_4000_PF	753	346	31.5				
Z10_IR_4000_WP	643	456	41.5				
Z10_WU_1000_CE_1	1020	79	7.2	7483	0	209780	27315.79
Z10_WU_1000_CE_2	995	104	9.5	30781.95	0	576561	84135.79
Z10_WU_1000_CE_3	1036	63	5.7	77159.9	0	960000	181246.94
Z10_WU_1000_CE_4	832	267	24.3	8716.58	0	316000	33462.54
Z10_WU_1000_CE_5	754	345	31.4	1569.54	0	2.00E+05	14366.16
Z10_WU_1000_CE_6	1030	69	6.3	3401.91	0	55000	10635.33
Z10_WU_1000_WM_1	1034	65	5.9	4629.11	0	55000	12308.12
Z10_WU_1000_WM_2	1032	67	6.1	13557.91	0	3.00E+05	40517.82
Z10_WU_1000_WM_3	1039	60	5.5	103530.81	0	1867673	276785.3
Z10_WU_1000_WM_4	977	122	11.1	7273.66	0	220084	27000.4
Z10_WU_1000_WM_5	717	382	34.8	1945.36	0	176000	10231.64
Z10_WU_1000_WM_6	1047	52	4.7	11743.65	0	155617	32597.98
Z10_WU_2000_CE_1	698	401	36.5	3240.29	0	4.00E+05	23889.5
Z10_WU_2000_CE_2	850	249	22.7	43553.68	0	1202159	123354.98
Z10_WU_2000_CE_3	801	298	27.1	966.73	0	74539	6672.27
Z10_WU_2000_WM_1	820	279	25.4	2426.65	0	136214	9792.19
Z10_WU_2000_WM_2	956	143	13	62683.06	0	1867673	186262.79
Z10_WU_2000_WM_3	896	203	18.5	2029.02	0	300300	21445.77

APPENDIX D: BASIC STATISTICS FOR 'INDICATOR DATASET' VARIABLES

Indicator	Description	No. of NAs	No. of valid observations	Percentage of valid observations	Mean	Min	Max	Std. Dev.
EI_1_1	Product Innovation at farm level (0/1)	703	396	36				
EI_1_2	Process innovation at farm level (0/1)	703	396	36				
EI_1_3	Market and organisational innovation at farm level (0/1)	912	187	17				
EI_1_4	Innovation at farm level (0/1)	0	1099	100				
EI_2_1	Farm under label	661	438	39.9				
EI_2_2	Experience in label production	713	386	35.1	14.32	0	58	11.01
EI_2_3	Degree of certified organic label (minimum across activities)	1068	31	2.8	78.06	0	100	36.35
EI_2_4	Degree of certified organic label (weighted average of activities)	1063	36	3.3	57.82	0	100	41.19
EI_2_5	Share of UAA under certified organic label	1012	87	7.9	0.77	0	1.02	0.33
EI_2_6	Share of UAA under EU Public quality label	992	107	9.7	0.6	0	1.6	0.45
EI_2_7	Share of UAA under other collective quality label	937	162	14.7	0.73	0	4.05	0.49
EI_3_1_4010	Number of markets outlets for Cereals (excluding straw and silage)	546	553	50.3				
EI_3_1_4020	Number of markets outlets for Oilseeds and protein crops	723	376	34.2				
EI_3_1_4030	Number of markets outlets for Fruits and vegetables (including citrus fruits, but excluding olives)	809	290	26.4				
EI_3_1_4040	Number of markets outlets for Olives	908	191	17.4				
EI_3_1_4045	Number of markets outlets for Olive Oil	862	237	21.6				
EI_3_1_4050	Number of markets outlets for Grapes	889	210	19.1				
EI_3_1_4055	Number of markets outlets for Wine	889	210	19.1				
EI_3_1_4060	Number of markets outlets for Beef and calves	563	536	48.8				
EI_3_1_4070	Number of markets outlets for Cow's milk	732	367	33.4				
EI_3_1_4080	Number of markets outlets for Pig	840	259	23.6				
EI_3_1_4090	Number of markets outlets for Sheep and goats (milk, milk product and meat)	851	248	22.6				
EI_3_1_4100	Number of markets outlets for Poultry	930	169	15.4				
EI_3_1_4110	Number of markets outlets for Eggs	938	161	14.6				
EI_3_1_4120	Number of markets outlets for Other sector	868	231	21				
EI_3_1_4130	Number of markets outlets for Fodder (including hay, straw, silage)	900	199	18.1				
EI_3_1_4140	Number of markets outlets for Cow milk products	923	176	16				
EI_3_1_4150	Number of markets outlets for Piglets	932	167	15.2				
EI_3_2_4010	Exclusive outlet for Cereals (excluding straw and silage)	546	553	50.3				
EI_3_2_4020	Exclusive outlet for Oilseeds and protein crops	723	376	34.2				
EI_3_2_4030	Exclusive outlet for Fruits and vegetables (including citrus fruits, but excluding olives)	809	290	26.4				
EI_3_2_4040	Exclusive outlet for Olives	908	191	17.4				
EI_3_2_4045	Exclusive outlet for Olive Oil	862	237	21.6				
EI_3_2_4050	Exclusive outlet for Grapes	889	210	19.1				
EI_3_2_4055	Exclusive outlet for Wine	889	210	19.1				

EI_3_2_4060	Exclusive outlet for Beef and claves	563	536	48.8				
EI_3_2_4070	Exclusive outlet for Cow's milk	732	367	33.4				
EI_3_2_4080	Exclusive outlet for Pig	840	259	23.6				
EI_3_2_4090	Exclusive outlet for Sheep and goats (milk, milk product and meat)	851	248	22.6				
EI_3_2_4100	Exclusive outlet for Poultry	930	169	15.4				
EI_3_2_4110	Exclusive outlet for Eggs	938	161	14.6				
EI_3_2_4120	Exclusive outlet for Other sector	868	231	21				
EI_3_2_4130	Exclusive outlet for Fodder (including hay, straw, silage)	900	199	18.1				
EI_3_2_4140	Exclusive outlet for Cow milk products	923	176	16				
EI_3_2_4150	Exclusive outlet for Piglets	932	167	15.2				
EI_3_3_4010	Diversified outlet for Cereals (excluding straw and silage)	546	553	50.3				
EI_3_3_4020	Diversified outlet for Oilseeds and protein crops	723	376	34.2				
EI_3_3_4030	Diversified outlet for Fruits and vegetables (including citrus fruits, but excluding olives)	809	290	26.4				
EI_3_3_4040	Diversified outlet for Olives	908	191	17.4				
EI_3_3_4045	Diversified outlet for Olive Oil	862	237	21.6				
EI_3_3_4050	Diversified outlet for Grapes	889	210	19.1				
EI_3_3_4055	Diversified outlet for Wine	889	210	19.1				
EI_3_3_4060	Diversified outlet for Beef and claves	563	536	48.8				
EI_3_3_4070	Diversified outlet for Cow's milk	732	367	33.4				
EI_3_3_4080	Diversified outlet for Pig	840	259	23.6				
EI_3_3_4090	Diversified outlet for Sheep and goats (milk, milk product and meat)	851	248	22.6				
EI_3_3_4100	Diversified outlet for Poultry	930	169	15.4				
EI_3_3_4110	Diversified outlet for Eggs	938	161	14.6				
EI_3_3_4120	Diversified outlet for Other sector	868	231	21				
EI_3_3_4130	Diversified outlet for Fodder (including hay, straw, silage)	900	199	18.1				
EI_3_3_4140	Diversified outlet for Cow milk products	923	176	16				
EI_3_3_4150	Diversified outlet for Piglets	932	167	15.2				
EI_3_4_4010	Main outlet for Cereals (excluding straw and silage)	546	553	50.3				
EI_3_4_4020	Main outlet for Oilseeds and protein crops	723	376	34.2				
EI_3_4_4030	Main outlet for Fruits and vegetables (including citrus fruits, but excluding olives)	809	290	26.4				
EI_3_4_4040	Main outlet for Olives	908	191	17.4				
EI_3_4_4045	Main outlet for Olive Oil	862	237	21.6				
EI_3_4_4050	Main outlet for Grapes	889	210	19.1				
EI_3_4_4055	Main outlet for Wine	889	210	19.1				
EI_3_4_4060	Main outlet for Beef and claves	563	536	48.8				
EI_3_4_4070	Main outlet for Cow's milk	732	367	33.4				
EI_3_4_4080	Main outlet for Pig	840	259	23.6				
EI_3_4_4090	Main outlet for Sheep and goats (milk, milk product and meat)	851	248	22.6				
EI_3_4_4100	Main outlet for Poultry	930	169	15.4				
EI_3_4_4110	Main outlet for Eggs	938	161	14.6				
EI_3_4_4120	Main outlet for Other sector	868	231	21				
EI_3_4_4130	Main outlet for Fodder (including hay, straw, silage)	900	199	18.1				
EI_3_4_4140	Main outlet for Cow milk products	923	176	16				
EI_3_4_4150	Main outlet for Piglets	932	167	15.2				
EI_4_1	Experience in decision making of the interviewed manager on the farm	14	1085	98.7	21.81	0	65	10.92
EI_4_2	Age of starting as a decision maker, for individual farms only	219	880	80.1	28.24	-5	73	10.02
EI_4_3	Succession	933	166	15.1				
EI_5_1	Number of reference parcels	36	1063	96.7	24.33	1	333	32.13
EI_5_10	Furthest reference parcel management	66	1033	94				
EI_5_11	Stated favourability of the field pattern	41	1058	96.3				
EI_5_2	Average size of reference parcels	38	1061	96.5	542.18	8.58	36500	1338.38
EI_5_3	Average distance of reference parcels	76	1023	93.1	3.85	0	114.8	7.24
EI_5_4	Normalized average distance of reference parcels	74	1025	93.3	0.11	0	5.94	0.29
EI_5_5	Maximum distance of reference parcels	63	1036	94.3	9.2	0	400	18.49

EI_5_6	Standardized maximum distance of reference parcels (Grouping index)	64	1035	94.2	0.26	0	11.16	0.58
EI_5_7	Normalized maximum distance of reference parcels Or Doubly-normalized maximum distance of reference parcels (Structural index)	23	1076	97.9	0.2	0	8.75	0.66
EI_5_8	Minimum distance of reference parcels	204	895	81.4	1.22	0	110.3	6.73
EI_5_9	Normalized range of reference parcels distances	221	878	79.9	3.08	0	199.75	7.79
EI_6_1	Average age of machinery	22	1077	98	14.13	0.5	55	7.16
EI_6_2	Average age of dairy assets	593	506	46	20.64	0.5	60	12.45
EI_6_3	Average age of sheep farm assets	999	100	9.1	24.55	0.5	60	15.64
EI_6_4	Average age of pig farm assets	944	155	14.1	22.93	0.5	60	16.12
EI_6_5	Average age of winery farm assets	1053	46	4.2	20.61	4.5	60	12.23
EI_6_6	Average age of agricultural buildings	81	1018	92.6	22.88	0.5	60	12.77
EI_7_1	Adoption of crop insurance at farm level	0	1099	100				
EI_7_2	Adoption of building insurance at farm level	0	1099	100				
EI_7_3	Adoption of livestock insurance at farm level	37	1062	96.6				
EI_7_4	Adoption of disability insurance at farm level	37	1062	96.6				
EI_7_5	Number insured categories at farm level	0	1099	100				
EI_8_1	Adoption of contracts at farm level	0	1099	100				
EI_8_14	Average share of turnover by contracts	478	621	56.5	3.82	1	5	1.39
EI_8_2	Contracts with price specification at farm level	435	664	60.4				
EI_8_3	Contracts with quantity specification at farm level	435	664	60.4				
EI_8_4	Contracts with duration specification at farm level	435	664	60.4				
EI_8_5	Contracts with delivery specification at farm level	435	664	60.4				
EI_8_6	Contracts with quality specification at farm level	435	664	60.4				
EI_8_7	(Approximation of) share of turn over under contract	435	664	60.4	3.57	0	5	1.64
EI_9_1	Adoption of farm diversification	0	1099	100				
EI_9_10	Count of other income sources at farm level	0	1099	100				
EI_9_2	Adoption of of farm processing / sales	0	1099	100				
EI_9_3	Adoption of off farm investments	0	1099	100				
EI_9_4	Adoption of credit avoidance	0	1099	100				
EI_9_5	Adoption of hedging	0	1099	100				
EI_9_6	Adoption of financial reserves	0	1099	100				
EI_9_7	Adoption of production contracts	0	1099	100				
EI_9_8	Off-farm employment	0	1099	100				
EI_9_9	OGA (with possible subcategories)	0	1099	100				
E_1_1	Share of permanent grassland under intensive management	224	875	79.6	-27.09	-28471.43	100	1024.95
E_1_2	Share of permanent grassland that is extensively managed with semi-natural vegetation	224	875	79.6	92.58	0	28571.43	1026.97
E_1_3	Share of permanent grassland that is extensively managed with semi-natural vegetation under nature protection	224	875	79.6	7.89	0	312.5	26.94
E_2_1	Preferred EFA element on farms with arable area	610	489	44.5				
E_2_2	Share of potential EFA area on farms with arable area	0	1099	100	225.51	0	81885.71	2822.71
E_3_1	Share of semi-natural habitat area	0	1099	100	1642.95	0	1652008.21	49845.31
E_4_1	Pesticide Usage	406	693	63.1	0	0	0.09	0
E_5_1	Farm Gate N-Balance	392	707	64.3	849.56	-66.3	209641.58	9133.08
E_5_3	Nitrogen use efficiency (NUE)	404	695	63.2	216.51	0	141817.48	5379.2
E_10_1	Percentage of farm UAA with early catch crop	920	179	16.3	21.11	0.06	100	22.18
E_10_2	Percentage of farm UAA with late catch crop	931	168	15.3	24.26	0.05	145.69	25.79
E_10_3	Weighted percentage of catch crop within farm UAA	18	1081	98.4	5.38	0	148.49	14.36
E_10_4	Percentage of farm UAA with nitrate risk	18	1081	98.4	0.31	-0.96	1	0.22
E_11_1	Percentage of farm UAA associated with erosion risk	899	200	18.2	31.3	0.01	145.69	33.78
E_11_2	Percentage of erosion risk area not ploughed	991	108	9.8	78.58	2.78	100	31.37
E_11_3	Percentage of erosion risk area with catch crop incorporated before winter	1049	50	4.5	70.62	8.33	100	31.13

E_11_4	Percentage of erosion risk area with catch crop incorporated after winter	1068	31	2.8	68.97	7.5	100	33.83
E_11_5	Percentage of erosion risk area with soil cover in every second row for vineyards or orchard	1087	12	1.1	77.98	20.43	125	35.93
E_11_6	Percentage of erosion risk area with soil cover in every row for vineyards or orchard	1094	5	0.5	779.44	47.22	2300	983.24
E_11_7	Weighted percentage of erosion risk area with soil cover	899	200	18.2	33.94	0	1350	111.02
E_11_8	Percentage of farm area with erosion mitigation	899	200	18.2	77.6	0	2300	184.8
E_14_1	GHG emissions, at farm level	392	707	64.3	387.86	0	28970.87	1492.63
E_16_1	Direct blue water footprint (kg). Water consumption /kg of product.	196	903	82.2	75.51	-482.14	3692.31	296.43
E_16_2	Direct blue water footprint (CU). Water consumption /CU of product.	157	942	85.7	2.36	0	104.43	9.81
E_16_3	Water consumption metering. % of measured consumption	597	502	45.7	57.72	0	100	45.08
E_16_4	Water price: Water cost/water consumption	413	686	62.4	8.62	0	2077.5	102.81
E_16_5	Main source of water	0	1099	100				
E_17_1	Water governance	0	1099	100				
E_17_3	Water consumption (m3)/irrigated area (ha)	890	209	19	4426.06	0	161171.43	13424.28
E_17_4	Water irrigation system	23	1076	97.9				
E_17_5	Energy dependence	767	332	30.2				
E_18_1	Crop species diversity	18	1081	98.4	2.6	1	9.35	1.5
S_1_1	Advisory contacts per year per holding.	53	1046	95.2	29.89	1	436	37.94
S_1_2_1	Advisory contacts per year per holding: Accountancy, bookkeeping, taxes	35	1064	96.8	6.76	0	365	13.54
S_1_2_2	Advisory contacts per year per holding: Management, business planning, and marketing	35	1064	96.8	2.12	0	68	5.23
S_1_2_3	Advisory contacts per year per holding: Crop production	35	1064	96.8	9.52	0	375	18.45
S_1_2_4	Advisory contacts per year per holding: Livestock production	35	1064	96.8	5.88	0	110	12.18
S_1_2_5	Advisory contacts per year per holding: Animal products and services	35	1064	96.8	2.08	0	100	7.19
S_1_2_6	Advisory contacts per year per holding: Other gainful activities directly related to the farm	35	1064	96.8	0.5	0	24	2.01
S_1_2_7	Advisory contacts per year per holding: Investments	35	1064	96.8	1.41	0	92	5.12
S_1_2_8	Advisory contacts per year per holding: Other	35	1064	96.8	1.11	0	58	4.65
S_1_4	Number of main information sources about CAP	67	1032	93.9				
S_2_1	Degree of agricultural training of the manager	175	924	84.1				
S_2_2	Training days for manager	461	638	58.1				
S_2_3	Total days for training	418	681	62				
S_2_4	Share of participation in training	896	203	18.5	64.79	0	866	85.27
S_2_5	Number of persons participating in training events	758	341	31	1.51	0	32	3.29
S_3_6	Financial involvement	497	602	54.8	1.82	0	100	4.71
S_3_7	Technology use	210	889	80.9				
S_4_1	Social Engagement	0	1099	100				
S_4_2	Degree of social engagement	0	1099	100				
S_4_3	Degree of agricultural engagement	0	1099	100				
S_4_4	Degree of environmental engagement	0	1099	100				
S_4_5	Degree of societal engagement	0	1099	100				
S_5_1	Total Labour in Annual Working Units	0	1099	100				
S_5_13	Share of other gainful work in total work	0	1099	100				
S_5_14	On farm annual working units for manager and family labour /Unpaid labour input in working units	0	1099	100				
S_5_15	Off farm annual working hours owner	933	166	15.1	898.73	0	2300	706.13
S_5_16	Off farm annual work spouse	807	292	26.6	1351.14	0	4200	678.9
S_5_17	Annual working hours manager	175	924	84.1	1834.23	20	4000	632.45
S_5_18	Average weekly working hours of manager	175	924	84.1	34.76	0	76	12.21
S_5_19	Length peak season in days	39	1060	96.5	74.14	0	365	74.18
S_5_2	Share of unpaid labour of total labour	0	1099	100	80.73	0	100	27.33
S_5_20	Annual working hours during peak season	44	1055	96	857.1	0	5400	902.19
S_5_21	Average day working hours during peak season	37	1062	96.6	11.64	0	20	2.72

S_5_22	Holidays per year	85	1014	92.3	19.01	0	350	32.39
S_5_23	Regular days-off per week	161	938	85.4	0.82	0	7	0.81
S_5_24	Working conditions: Replacement during illness	0	1099	100				
S_5_25	Working conditions: Replacement other than in case of illness	0	1099	100				
S_5_27	Length of peak season in months	0	1099	100	4.9	0	12	2.76
S_5_28	Share of total manager working hours worked during peak season	206	893	81.3	0.55	0	32	1.31
S_5_29	Workload seasonality index during peak months	200	899	81.8	2.8	0	28	2.35
S_5_3	Labour force directly employed by the holding annual working hours (A+B+C+D) Total Labour in hours	0	1099	100				
S_5_30	Workload seasonality index during non-peak months	29	1070	97.4	0.97	-26	12	3.36
S_5_4	Regularly employed labour force annual working hours (A+B+C)	0	1099	100	5933.7	105	671955	24225.81
S_5_5	Non-family labour force employed on a non-regular basis annual working hours (D)	562	537	48.9	2039.88	0	103347	6853.58
S_5_6	Family labour force annual working hours (A+B) Unpaid labour input in hours	0	1099	100				
S_5_7	Non family regularly employed labour force annual working hours(C)	809	290	26.4	11092.52	0	671955	46667.4
S_5_8	Holder annual working hours (A)	30	1069	97.3	2727.3	40	9600	1298.74
S_5_9	Member of the holder's family annual working hours (B)	755	344	31.3	1130.28	0	7650	1151.79
S_6_1	Satisfaction with job	4	1095	99.6				
S_6_10	Overall quality of life	0	1099	100				
S_6_2	Satisfaction with work life balance	7	1092	99.4				
S_6_3	Satisfaction with being a farmer	5	1094	99.5				
S_6_4	Satisfaction with quality of life	31	1068	97.2				
S_6_5	Satisfaction with freedom of making decision	9	1090	99.2				
S_6_6	Stress perception	18	1081	98.4				
S_6_7	Change in freedom	14	1085	98.7				
S_6_8	Change in stress	11	1088	99				
S_6_9	Perception of farming	18	1081	98.4				
S_7_1	Local Participation	0	1099	100				
S_7_2	Social Diversification Index (real sum)	0	1099	100	2.93	0	15	2.53

APPENDIX E: OUTLIERS' DETECTION TESTS ON 'FLINT DATASET' AND 'INDICATOR DATASET'

Variable	Number of valid observations	Chauvenet's test		Peirce's test		Grubbs' tests	
		Number of outliers	Percentage of outliers	Number of outliers	Percentage of outliers	Number of outliers	Percentage of outliers
Z1_AS_1011_Q_1	370	16	4.32	48	12.97	8	2.16
Z1_AS_1011_Q_2	194	5	2.58	27	13.92	3	1.55
Z1_AS_1011_Q_3	341	12	3.52	55	16.13	7	2.05
Z1_AS_1011_Q_4	203	4	1.97	26	12.81	5	2.46
Z1_AS_1011_Q_5	71	2	2.82	9	12.68	1	1.41
Z1_AS_1011_Q_6	36	2	5.56	5	13.89	2	5.56
Z1_AS_1011_Q_7	122	6	4.92	18	14.75	3	2.46
Z1_AS_1011_Q_8	81	6	7.41	16	19.75	6	7.41
Z1_AS_1012_Q_1	31	1	3.23	5	16.13	1	3.23
Z1_AS_1012_Q_2	60	3	5	11	18.33	6	10
Z1_AS_1012_Q_3	246	13	5.28	44	17.89	6	2.44
Z1_AS_1012_Q_4	112	5	4.46	19	16.96	6	5.36
Z1_AS_1012_Q_5	119	6	5.04	20	16.81	8	6.72
Z1_AS_1012_Q_6	8	1	12.5	1	12.5	0	0
Z1_AS_1012_Q_7	21	1	4.76	2	9.52	4	19.05
Z1_AS_1012_Q_8	32	4	12.5	8	25	0	0
Z1_AS_1013_Q_1	542	8	1.48	61	11.25	8	1.48
Z1_AS_1013_Q_2	144	4	2.78	20	13.89	3	2.08
Z1_AS_1013_Q_3	240	3	1.25	25	10.42	10	4.17
Z1_AS_1013_Q_4	275	11	4	50	18.18	7	2.55
Z1_AS_1013_Q_5	74	2	2.7	11	14.86	2	2.7
Z1_AS_1013_Q_6	30	2	6.67	4	13.33	1	3.33
Z1_AS_1013_Q_7	78	6	7.69	14	17.95	4	5.13
Z1_AS_1013_Q_8	55	4	7.27	9	16.36	1	1.82
Z1_AS_1014_Q_1	82	3	3.66	13	15.85	4	4.88
Z1_AS_1014_Q_2	88	3	3.41	11	12.5	5	5.68
Z1_AS_1014_Q_3	290	9	3.1	44	15.17	7	2.41
Z1_AS_1014_Q_4	159	7	4.4	27	16.98	3	1.89
Z1_AS_1014_Q_5	54	3	5.56	7	12.96	2	3.7
Z1_AS_1014_Q_6	14	1	7.14	2	14.29	1	7.14
Z1_AS_1014_Q_7	104	5	4.81	17	16.35	6	5.77
Z1_AS_1014_Q_8	30	2	6.67	7	23.33	0	0
Z1_AS_1015_Q_1	25	2	8	4	16	2	8
Z1_AS_1015_Q_2	22	2	9.09	4	18.18	1	4.55
Z1_AS_1015_Q_3	41	4	9.76	8	19.51	4	9.76
Z1_AS_1015_Q_4	18	2	11.11	1	5.56	3	16.67
Z1_AS_1015_Q_5	3	1	33.33	0	0	0	0
Z1_AS_1015_Q_6	6	1	16.67	1	16.67	0	0
Z1_AS_1015_Q_7	15	2	13.33	2	13.33	2	13.33
Z1_AS_1015_Q_8	16	1	6.25	1	6.25	2	12.5
Z1_AS_1016_Q_1	69	4	5.8	10	14.49	3	4.35
Z1_AS_1016_Q_2	46	4	8.7	8	17.39	2	4.35
Z1_AS_1016_Q_3	82	5	6.1	14	17.07	8	9.76

Z1_AS_1016_Q_4	45	2	4.44	6	13.33	2	4.44
Z1_AS_1016_Q_5	22	1	4.55	3	13.64	4	18.18
Z1_AS_1016_Q_6	34	3	8.82	5	14.71	2	5.88
Z1_AS_1016_Q_7	19	1	5.26	2	10.53	3	15.79
Z1_AS_1016_Q_8	35	4	11.43	6	17.14	4	11.43
Z1_ET_3020_Q	341	9	2.64	45	13.2	10	2.93
Z1_OS_4010_Q	602	7	1.16	57	9.47	11	1.83
Z2_CO_1050_YB	1086	11	1.01	143	13.17	1	0.09
Z2_WC_1010_AH	1062	21	1.98	138	12.99	1	0.09
Z2_WC_1010_LP	1060	37	3.49	256	24.15	3	0.28
Z2_WC_1010_NH	1014	30	2.96	137	13.51	20	1.97
Z2_WC_1010_W1	938	14	1.49	129	13.75	4	0.43
Z3_AB_4010_Q_1	34	2	5.88	8	23.53	16	47.06
Z3_AB_4010_Q_2	46	2	4.35	6	13.04	4	8.7
Z3_AB_4010_Q_3	61	4	6.56	13	21.31	7	11.48
Z3_AB_4010_Q_4	118	6	5.08	19	16.1	2	1.69
Z3_AB_4010_Q_5	116	6	5.17	21	18.1	2	1.72
Z3_AB_4010_Q_6	136	7	5.15	18	13.24	6	4.41
Z3_AB_4010_Q_7	144	4	2.78	15	10.42	8	5.56
Z3_AB_4010_Q_8	160	6	3.75	20	12.5	8	5
Z3_AB_4010_Q_9	33	2	6.06	4	12.12	2	6.06
Z3_AB_4020_Q_4	5	1	20	1	20	0	0
Z3_AB_4020_Q_5	6	1	16.67	1	16.67	2	33.33
Z3_AB_4020_Q_6	3	1	33.33	0	0	0	0
Z3_AB_4020_Q_7	5	1	20	1	20	0	0
Z3_AB_4020_Q_8	7	1	14.29	1	14.29	1	14.29
Z3_AB_4020_Q_9	9	2	22.22	1	11.11	0	0
Z3_AB_4030_Q_1	6	1	16.67	1	16.67	1	16.67
Z3_AB_4030_Q_2	13	1	7.69	1	7.69	1	7.69
Z3_AB_4030_Q_3	22	3	13.64	2	9.09	4	18.18
Z3_AB_4030_Q_4	33	1	3.03	4	12.12	1	3.03
Z3_AB_4030_Q_5	40	2	5	5	12.5	4	10
Z3_AB_4030_Q_6	30	3	10	6	20	1	3.33
Z3_AB_4030_Q_7	42	2	4.76	6	14.29	5	11.9
Z3_AB_4030_Q_8	34	1	2.94	5	14.71	9	26.47
Z3_AB_4030_Q_9	18	2	11.11	3	16.67	2	11.11
Z3_AB_4040_Q_3	3	1	33.33	0	0	0	0
Z3_AB_4040_Q_4	3	1	33.33	0	0	0	0
Z3_AB_4040_Q_5	3	1	33.33	0	0	0	0
Z3_AB_4040_Q_6	5	1	20	1	20	0	0
Z3_AB_4040_Q_7	6	1	16.67	1	16.67	1	16.67
Z3_AB_4040_Q_8	10	1	10	1	10	2	20
Z3_AB_4040_Q_9	4	1	25	1	25	2	50
Z3_AB_4050_Q_2	4	1	25	0	0	0	0
Z3_AB_4050_Q_3	6	1	16.67	0	0	0	0
Z3_AB_4050_Q_4	14	1	7.14	1	7.14	4	28.57
Z3_AB_4050_Q_5	13	2	15.38	1	7.69	0	0
Z3_AB_4050_Q_6	17	3	17.65	1	5.88	0	0
Z3_AB_4050_Q_7	26	1	3.85	6	23.08	0	0
Z3_AB_4050_Q_8	19	2	10.53	2	10.53	0	0
Z3_AB_4050_Q_9	10	2	20	1	10	2	20
Z3_AB_4060_Q_1	7	1	14.29	1	14.29	1	14.29
Z3_AB_4060_Q_2	14	1	7.14	1	7.14	2	14.29
Z3_AB_4060_Q_3	36	4	11.11	5	13.89	0	0
Z3_AB_4060_Q_4	78	3	3.85	10	12.82	11	14.1
Z3_AB_4060_Q_5	49	3	6.12	8	16.33	3	6.12
Z3_AB_4060_Q_6	40	1	2.5	4	10	3	7.5
Z3_AB_4060_Q_7	34	2	5.88	6	17.65	5	14.71
Z3_AB_4060_Q_8	37	1	2.7	4	10.81	1	2.7
Z3_AB_4060_Q_9	8	1	12.5	0	0	0	0
Z3_AB_4070_Q_2	4	1	25	1	25	1	25
Z3_AB_4070_Q_3	10	1	10	1	10	1	10
Z3_AB_4070_Q_4	28	2	7.14	5	17.86	2	7.14
Z3_AB_4070_Q_5	21	3	14.29	3	14.29	3	14.29
Z3_AB_4070_Q_6	22	1	4.55	3	13.64	1	4.55
Z3_AB_4070_Q_7	24	1	4.17	3	12.5	2	8.33
Z3_AB_4070_Q_8	18	1	5.56	2	11.11	1	5.56
Z3_AB_4070_Q_9	6	1	16.67	0	0	0	0

Z3_AB_4080_Q_1	15	2	13.33	2	13.33	0	0
Z3_AB_4080_Q_2	20	1	5	2	10	3	15
Z3_AB_4080_Q_3	37	1	2.7	5	13.51	1	2.7
Z3_AB_4080_Q_4	84	1	1.19	12	14.29	2	2.38
Z3_AB_4080_Q_5	59	4	6.78	9	15.25	4	6.78
Z3_AB_4080_Q_6	68	4	5.88	10	14.71	5	7.35
Z3_AB_4080_Q_7	89	4	4.49	13	14.61	5	5.62
Z3_AB_4080_Q_8	69	5	7.25	13	18.84	7	10.14
Z3_AB_4080_Q_9	11	1	9.09	1	9.09	3	27.27
Z3_AB_4090_Q_1	8	1	12.5	1	12.5	0	0
Z3_AB_4090_Q_2	15	1	6.67	4	26.67	0	0
Z3_AB_4090_Q_3	25	1	4	2	8	2	8
Z3_AB_4090_Q_4	51	2	3.92	6	11.76	2	3.92
Z3_AB_4090_Q_5	42	1	2.38	6	14.29	1	2.38
Z3_AB_4090_Q_6	37	3	8.11	4	10.81	1	2.7
Z3_AB_4090_Q_7	42	2	4.76	7	16.67	2	4.76
Z3_AB_4090_Q_8	21	2	9.52	3	14.29	3	14.29
Z3_AB_4100_Q_1	19	3	15.79	5	26.32	0	0
Z3_AB_4100_Q_2	31	1	3.23	3	9.68	3	9.68
Z3_AB_4100_Q_3	48	3	6.25	9	18.75	0	0
Z3_AB_4100_Q_4	67	4	5.97	9	13.43	6	8.96
Z3_AB_4100_Q_5	90	3	3.33	10	11.11	5	5.56
Z3_AB_4100_Q_6	82	3	3.66	11	13.41	3	3.66
Z3_AB_4100_Q_7	115	5	4.35	14	12.17	10	8.7
Z3_AB_4100_Q_8	124	5	4.03	17	13.71	14	11.29
Z3_AB_4100_Q_9	46	2	4.35	6	13.04	8	17.39
Z3_AB_4101_Q_2	5	1	20	1	20	1	20
Z3_AB_4101_Q_3	10	1	10	1	10	3	30
Z3_AB_4101_Q_4	14	2	14.29	2	14.29	0	0
Z3_AB_4101_Q_5	16	2	12.5	2	12.5	0	0
Z3_AB_4101_Q_6	8	1	12.5	1	12.5	1	12.5
Z3_AB_4101_Q_7	10	1	10	1	10	2	20
Z3_AB_4101_Q_8	10	1	10	1	10	1	10
Z3_AB_4101_Q_9	4	1	25	0	0	0	0
Z3_AB_4102_Q_1	14	2	14.29	3	21.43	0	0
Z3_AB_4102_Q_2	35	2	5.71	6	17.14	3	8.57
Z3_AB_4102_Q_3	40	4	10	9	22.5	9	22.5
Z3_AB_4102_Q_4	79	2	2.53	10	12.66	16	20.25
Z3_AB_4102_Q_5	95	2	2.11	13	13.68	15	15.79
Z3_AB_4102_Q_6	75	1	1.33	8	10.67	14	18.67
Z3_AB_4102_Q_7	83	2	2.41	8	9.64	6	7.23
Z3_AB_4102_Q_8	56	1	1.79	7	12.5	15	26.79
Z3_AB_4102_Q_9	4	1	25	0	0	0	0
Z3_AB_4110_Q_3	13	2	15.38	2	15.38	0	0
Z3_AB_4110_Q_4	8	1	12.5	1	12.5	3	37.5
Z3_AB_4110_Q_5	12	1	8.33	3	25	0	0
Z3_AB_4110_Q_6	11	1	9.09	1	9.09	2	18.18
Z3_AB_4110_Q_7	10	1	10	1	10	2	20
Z3_AB_4110_Q_8	9	1	11.11	1	11.11	1	11.11
Z3_AB_4120_Q_1	4	1	25	1	25	0	0
Z3_AB_4120_Q_2	5	1	20	0	0	0	0
Z3_AB_4120_Q_3	10	1	10	1	10	1	10
Z3_AB_4120_Q_4	16	2	12.5	4	25	6	37.5
Z3_AB_4120_Q_5	9	2	22.22	1	11.11	0	0
Z3_AB_4120_Q_6	15	2	13.33	3	20	0	0
Z3_AB_4120_Q_7	15	2	13.33	2	13.33	4	26.67
Z3_AB_4120_Q_8	9	2	22.22	1	11.11	0	0
Z3_AB_4130_Q_1	7	1	14.29	1	14.29	0	0
Z3_AB_4130_Q_2	6	1	16.67	0	0	0	0
Z3_AB_4130_Q_3	19	2	10.53	4	21.05	1	5.26
Z3_AB_4130_Q_4	25	3	12	6	24	7	28
Z3_AB_4130_Q_5	20	2	10	4	20	0	0
Z3_AB_4130_Q_6	20	2	10	3	15	3	15
Z3_AB_4130_Q_7	13	1	7.69	2	15.38	1	7.69
Z3_AB_4130_Q_8	3	2	66.67	0	0	0	0
Z3_AB_4140_Q_1	5	1	20	1	20	1	20
Z3_AB_4140_Q_3	5	1	20	1	20	0	0
Z3_AB_4140_Q_4	3	1	33.33	0	0	0	0

Z3_AB_4140_Q_5	5	1	20	1	20	0	0
Z3_AB_4140_Q_6	6	1	16.67	1	16.67	1	16.67
Z3_AB_4140_Q_7	9	1	11.11	1	11.11	0	0
Z3_AB_4140_Q_8	8	2	25	0	0	0	0
Z3_AB_4140_Q_9	14	1	7.14	2	14.29	1	7.14
Z3_AB_4150_Q_2	7	1	14.29	1	14.29	0	0
Z3_AB_4150_Q_3	7	1	14.29	1	14.29	0	0
Z3_AB_4150_Q_4	12	1	8.33	1	8.33	1	8.33
Z3_AB_4150_Q_5	15	1	6.67	1	6.67	1	6.67
Z3_AB_4150_Q_6	15	1	6.67	2	13.33	3	20
Z3_AB_4150_Q_7	17	2	11.76	2	11.76	2	11.76
Z3_AB_4150_Q_8	10	1	10	1	10	3	30
Z3_AB_4150_Q_9	5	1	20	1	20	1	20
Z3_AB_4160_Q_1	32	3	9.38	5	15.62	0	0
Z3_AB_4160_Q_2	27	1	3.7	3	11.11	2	7.41
Z3_AB_4160_Q_3	59	4	6.78	10	16.95	6	10.17
Z3_AB_4160_Q_4	78	2	2.56	8	10.26	7	8.97
Z3_AB_4160_Q_5	87	6	6.9	13	14.94	3	3.45
Z3_AB_4160_Q_6	83	2	2.41	12	14.46	2	2.41
Z3_AB_4160_Q_7	131	6	4.58	18	13.74	5	3.82
Z3_AB_4160_Q_8	147	7	4.76	25	17.01	5	3.4
Z3_AB_4160_Q_9	69	6	8.7	11	15.94	7	10.14
Z3_AB_4170_Q_1	12	1	8.33	1	8.33	1	8.33
Z3_AB_4170_Q_2	35	1	2.86	4	11.43	2	5.71
Z3_AB_4170_Q_3	48	1	2.08	6	12.5	1	2.08
Z3_AB_4170_Q_4	68	3	4.41	11	16.18	8	11.76
Z3_AB_4170_Q_5	91	4	4.4	14	15.38	10	10.99
Z3_AB_4170_Q_6	79	3	3.8	11	13.92	12	15.19
Z3_AB_4170_Q_7	141	5	3.55	18	12.77	11	7.8
Z3_AB_4170_Q_8	159	4	2.52	17	10.69	14	8.81
Z3_AB_4170_Q_9	79	3	3.8	10	12.66	4	5.06
Z3_AM_3010_Q_3	4						
Z3_AM_3010_Q_4	5	1	20	1	20	2	40
Z3_AM_3010_Q_5	3	1	33.33	0	0	1	33.33
Z3_AM_3010_Q_7	3	1	33.33	0	0	1	33.33
Z3_AM_3010_Q_8	8	1	12.5	1	12.5	3	37.5
Z3_AM_3010_Q_9	3						
Z3_AM_3020_Q_2	3						
Z3_AM_3020_Q_3	4						
Z3_AM_3020_Q_4	6						
Z3_AM_3020_Q_5	7						
Z3_AM_3020_Q_6	7	1	14.29	1	14.29	2	28.57
Z3_AM_3020_Q_7	12						
Z3_AM_3020_Q_8	11	2	18.18	3	27.27	0	0
Z3_AM_3020_Q_9	10						
Z3_AM_3030_Q_1	6						
Z3_AM_3030_Q_2	18	2	11.11	4	22.22	2	11.11
Z3_AM_3030_Q_3	26	3	11.54	6	23.08	2	7.69
Z3_AM_3030_Q_4	27	1	3.7	3	11.11	3	11.11
Z3_AM_3030_Q_5	30	2	6.67	5	16.67	2	6.67
Z3_AM_3030_Q_6	34	2	5.88	6	17.65	3	8.82
Z3_AM_3030_Q_7	57	3	5.26	10	17.54	3	5.26
Z3_AM_3030_Q_8	112	2	1.79	17	15.18	2	1.79
Z3_AM_3030_Q_9	16	1	6.25	2	12.5	2	12.5
Z3_AM_3040_Q_1	22	1	4.55	3	13.64	2	9.09
Z3_AM_3040_Q_2	21	1	4.76	2	9.52	2	9.52
Z3_AM_3040_Q_3	49	2	4.08	8	16.33	4	8.16
Z3_AM_3040_Q_4	72	7	9.72	17	23.61	0	0
Z3_AM_3040_Q_5	73	2	2.74	12	16.44	4	5.48
Z3_AM_3040_Q_6	102	7	6.86	20	19.61	3	2.94
Z3_AM_3040_Q_7	180	5	2.78	28	15.56	6	3.33
Z3_AM_3040_Q_8	137	3	2.19	31	22.63	1	0.73
Z3_AM_3040_Q_9	6	1	16.67	1	16.67	2	33.33
Z3_AM_3050_Q_1	54	2	3.7	8	14.81	2	3.7
Z3_AM_3050_Q_2	89	1	1.12	12	13.48	1	1.12
Z3_AM_3050_Q_3	144	1	0.69	19	13.19	2	1.39
Z3_AM_3050_Q_4	177	4	2.26	30	16.95	3	1.69
Z3_AM_3050_Q_5	193	8	4.15	38	19.69	3	1.55

Z3_AM_3050_Q_6	134	4	2.99	24	17.91	3	2.24
Z3_AM_3050_Q_7	111	2	1.8	15	13.51	5	4.5
Z3_AM_3050_Q_8	43	2	4.65	8	18.6	4	9.3
Z3_AM_3060_Q_1	56	3	5.36	11	19.64	4	7.14
Z3_AM_3060_Q_2	94	1	1.06	13	13.83	3	3.19
Z3_AM_3060_Q_3	118	4	3.39	23	19.49	1	0.85
Z3_AM_3060_Q_4	133	6	4.51	24	18.05	4	3.01
Z3_AM_3060_Q_5	93	2	2.15	14	15.05	3	3.23
Z3_AM_3060_Q_6	54	4	7.41	11	20.37	2	3.7
Z3_AM_3060_Q_7	47	2	4.26	9	19.15	2	4.26
Z3_AM_3060_Q_8	30	3	10	6	20	2	6.67
Z3_AM_3070_Q_1	75	2	2.67	14	18.67	2	2.67
Z3_AM_3070_Q_2	173	7	4.05	41	23.7	2	1.16
Z3_AM_3070_Q_3	225	4	1.78	22	9.78	5	2.22
Z3_AM_3070_Q_4	291	8	2.75	34	11.68	5	1.72
Z3_AM_3070_Q_5	297	6	2.02	29	9.76	5	1.68
Z3_AM_3070_Q_6	244	9	3.69	48	19.67	3	1.23
Z3_AM_3070_Q_7	225	5	2.22	23	10.22	4	1.78
Z3_AM_3070_Q_8	125	1	0.8	12	9.6	3	2.4
Z3_AM_3070_Q_9	8	1	12.5	1	12.5	2	25
Z3_AM_3080_Q_1	39	5	12.82	11	28.21	0	0
Z3_AM_3080_Q_2	82	7	8.54	17	20.73	3	3.66
Z3_AM_3080_Q_3	115	16	13.91	32	27.83	0	0
Z3_AM_3080_Q_4	145	2	1.38	22	15.17	3	2.07
Z3_AM_3080_Q_5	146	3	2.05	20	13.7	4	2.74
Z3_AM_3080_Q_6	101	4	3.96	20	19.8	2	1.98
Z3_AM_3080_Q_7	127	3	2.36	25	19.69	2	1.57
Z3_AM_3080_Q_8	46	2	4.35	11	23.91	2	4.35
Z3_AM_3090_Q_1	21	1	4.76	2	9.52	2	9.52
Z3_AM_3090_Q_2	32	2	6.25	5	15.62	3	9.38
Z3_AM_3090_Q_3	46	4	8.7	10	21.74	2	4.35
Z3_AM_3090_Q_4	40	1	2.5	6	15	4	10
Z3_AM_3090_Q_5	37	1	2.7	6	16.22	1	2.7
Z3_AM_3090_Q_6	35	2	5.71	6	17.14	3	8.57
Z3_AM_3090_Q_7	46	4	8.7	10	21.74	3	6.52
Z3_AM_3090_Q_8	23	2	8.7	3	13.04	3	13.04
Z3_AM_3100_Q_1	6						
Z3_AM_3100_Q_2	15	1	6.67	2	13.33	2	13.33
Z3_AM_3100_Q_3	23	1	4.35	3	13.04	3	13.04
Z3_AM_3100_Q_4	35	2	5.71	6	17.14	3	8.57
Z3_AM_3100_Q_5	37	0	0	11	29.73	0	0
Z3_AM_3100_Q_6	30	2	6.67	5	16.67	2	6.67
Z3_AM_3100_Q_7	15	1	6.67	2	13.33	2	13.33
Z3_AM_3100_Q_8	6	1	16.67	1	16.67	2	33.33
Z3_AM_3110_Q_1	27						
Z3_AM_3110_Q_2	41	6	14.63	11	26.83	0	0
Z3_AM_3110_Q_3	71	3	4.23	15	21.13	2	2.82
Z3_AM_3110_Q_4	99	3	3.03	18	18.18	2	2.02
Z3_AM_3110_Q_5	91	2	2.2	15	16.48	3	3.3
Z3_AM_3110_Q_6	62	5	8.06	11	17.74	5	8.06
Z3_AM_3110_Q_7	60	2	3.33	10	16.67	5	8.33
Z3_AM_3110_Q_8	25	5	20	7	28	0	0
Z3_AM_3120_Q_1	34	6	17.65	9	26.47	0	0
Z3_AM_3120_Q_2	52	4	7.69	13	25	4	7.69
Z3_AM_3120_Q_3	79	4	5.06	17	21.52	3	3.8
Z3_AM_3120_Q_4	85	4	4.71	18	21.18	3	3.53
Z3_AM_3120_Q_5	67	2	2.99	11	16.42	6	8.96
Z3_AM_3120_Q_6	55	3	5.45	10	18.18	3	5.45
Z3_AM_3120_Q_7	39	1	2.56	6	15.38	6	15.38
Z3_AM_3120_Q_8	16	1	6.25	2	12.5	4	25
Z3_AM_3130_Q_1	154	7	4.55	28	18.18	5	3.25
Z3_AM_3130_Q_2	244	12	4.92	36	14.75	5	2.05
Z3_AM_3130_Q_3	345	13	3.77	57	16.52	3	0.87
Z3_AM_3130_Q_4	410	6	1.46	60	14.63	2	0.49
Z3_AM_3130_Q_5	393	12	3.05	61	15.52	8	2.04
Z3_AM_3130_Q_6	309	10	3.24	45	14.56	4	1.29
Z3_AM_3130_Q_7	335	10	2.99	33	9.85	3	0.9
Z3_AM_3130_Q_8	181	4	2.21	21	11.6	2	1.1

Z3_AM_3130_Q_9	8	0	0	1	12.5	0	0
Z3_AM_3140_Q_1	6						
Z3_AM_3140_Q_2	15	2	13.33	3	20	2	13.33
Z3_AM_3140_Q_3	25	1	4	3	12	2	8
Z3_AM_3140_Q_4	23	3	13.04	6	26.09	0	0
Z3_AM_3140_Q_5	12	1	8.33	1	8.33	2	16.67
Z3_AM_3140_Q_6	8						
Z3_AM_3140_Q_7	7	1	14.29	1	14.29	2	28.57
Z3_AM_3140_Q_8	5						
Z3_AM_3150_Q_1	4						
Z3_AM_3150_Q_2	11						
Z3_AM_3150_Q_3	21	1	4.76	2	9.52	2	9.52
Z3_AM_3150_Q_4	24	2	8.33	4	16.67	2	8.33
Z3_AM_3150_Q_5	46	3	6.52	9	19.57	2	4.35
Z3_AM_3150_Q_6	25						
Z3_AM_3150_Q_7	25	1	4	3	12	1	4
Z3_AM_3150_Q_8	13						
Z3_AM_3160_Q_1	3	1	33.33	0	0	1	33.33
Z3_AM_3160_Q_2	4						
Z3_AM_3160_Q_3	5						
Z3_AM_3160_Q_4	12	2	16.67	3	25	0	0
Z3_AM_3160_Q_5	6						
Z3_AM_3160_Q_6	9	1	11.11	1	11.11	3	33.33
Z3_AM_3160_Q_7	12	1	8.33	2	16.67	1	8.33
Z3_AM_3160_Q_8	5	1	20	1	20	2	40
Z3_AM_3170_Q_1	15	1	6.67	2	13.33	3	20
Z3_AM_3170_Q_2	24						
Z3_AM_3170_Q_3	43	3	6.98	9	20.93	5	11.63
Z3_AM_3170_Q_4	56	4	7.14	13	23.21	3	5.36
Z3_AM_3170_Q_5	29	2	6.9	5	17.24	2	6.9
Z3_AM_3170_Q_6	56	4	7.14	14	25	3	5.36
Z3_AM_3170_Q_7	36	2	5.56	8	22.22	1	2.78
Z3_AM_3170_Q_8	14	1	7.14	2	14.29	3	21.43
Z3_AM_3180_Q_1	12	1	8.33	2	16.67	1	8.33
Z3_AM_3180_Q_2	23	1	4.35	4	17.39	0	0
Z3_AM_3180_Q_3	31	1	3.23	5	16.13	1	3.23
Z3_AM_3180_Q_4	34	1	2.94	3	8.82	3	8.82
Z3_AM_3180_Q_5	33	2	6.06	5	15.15	3	9.09
Z3_AM_3180_Q_6	22	1	4.55	4	18.18	2	9.09
Z3_AM_3180_Q_7	28	1	3.57	6	21.43	1	3.57
Z3_AM_3180_Q_8	12	1	8.33	2	16.67	3	25
Z3_AM_3190_Q_1	55	8	14.55	14	25.45	1	1.82
Z3_AM_3190_Q_2	91	3	3.3	19	20.88	2	2.2
Z3_AM_3190_Q_3	154	5	3.25	30	19.48	2	1.3
Z3_AM_3190_Q_4	175	2	1.14	39	22.29	2	1.14
Z3_AM_3190_Q_5	139	3	2.16	26	18.71	2	1.44
Z3_AM_3190_Q_6	89	3	3.37	18	20.22	1	1.12
Z3_AM_3190_Q_7	80	1	1.25	11	13.75	2	2.5
Z3_AM_3190_Q_8	15	1	6.67	2	13.33	2	13.33
Z3_IN_1021_C	294	12	4.08	53	18.03	12	4.08
Z3_IN_1022_C	17	2	11.76	3	17.65	0	0
Z4_LA_1000_CP	83	0	0	22	26.51	0	0
Z4_LA_1000_FY	84	2	2.38	13	15.48	1	1.19
Z4_LA_1000_LP	48	0	0	14	29.17	0	0
Z4_LA_1000_UL	84	5	5.95	15	17.86	5	5.95
Z4_LA_2000_CP	103	0	0	38	36.89	0	0
Z4_LA_2000_FY	122	4	3.28	15	12.3	0	0
Z4_LA_2000_LP	69	0	0	15	21.74	0	0
Z4_LA_2000_UL	104	7	6.73	17	16.35	11	10.58
Z4_LA_3000_CP	82	0	0	26	31.71	0	0
Z4_LA_3000_FY	198	9	4.55	33	16.67	0	0
Z4_LA_3000_LP	167	16	9.58	51	30.54	0	0
Z4_LA_3000_UL	162	1	0.62	15	9.26	5	3.09
Z5_GR_1010_A	411	12	2.92	61	14.84	12	2.92
Z5_GR_1020_A	111	4	3.6	13	11.71	10	9.01
Z5_GR_1030_A	201	7	3.48	30	14.93	26	12.94
Z5_GR_1050_A	238	1	0.42	22	9.24	28	11.76
Z5_GR_1060_A	140	2	1.43	12	8.57	5	3.57

Z5_GR_1070_A	9	2	22.22	1	11.11	0	0
Z5_GR_1080_A	43	3	6.98	8	18.6	5	11.63
Z5_GR_1090_A	5	1	20	1	20	0	0
Z5_GR_1100_A	69	3	4.35	9	13.04	11	15.94
Z5_GR_1110_A	253	9	3.56	37	14.62	28	11.07
Z5_GR_1120_A	211	7	3.32	33	15.64	15	7.11
Z5_GR_1130_A	141	1	0.71	13	9.22	13	9.22
Z5_GR_1140_A	44	4	9.09	10	22.73	8	18.18
Z5_GR_1150_A	34	1	2.94	5	14.71	6	17.65
Z5_GR_1160_A	33	2	6.06	5	15.15	3	9.09
Z5_LF_4010_D	1026	18	1.75	126	12.28	26	2.53
Z5_LF_4010_Q	1063	28	2.63	143	13.45	30	2.82
Z5_LF_4020_D	1036	15	1.45	124	11.97	26	2.51
Z5_LF_4030_D	895	13	1.45	105	11.73	31	3.46
Z5_NL_2010_A	179	5	2.79	23	12.85	8	4.47
Z5_NL_2020_A	168	6	3.57	21	12.5	13	7.74
Z5_SE_3010_A	200	8	4	34	17	18	9
Z5_SE_3020_A	108	7	6.48	20	18.52	11	10.19
Z5_SE_3030_A	50	4	8	10	20	6	12
Z5_SE_3040_A	31	2	6.45	6	19.35	3	9.68
Z5_SE_3050_A	48	3	6.25	9	18.75	4	8.33
Z5_SE_3060_A	23	2	8.7	5	21.74	2	8.7
Z5_SO_5020_A_1	347	11	3.17	44	12.68	31	8.93
Z5_SO_5020_A_2	537	9	1.68	60	11.17	15	2.79
Z5_SO_5020_A_3	375	9	2.4	46	12.27	15	4
Z5_SO_5020_A_4	315	10	3.17	43	13.65	22	6.98
Z5_SO_5020_A_5	513	10	1.95	58	11.31	24	4.68
Z5_SO_5020_A_6	241	1	0.41	21	8.71	15	6.22
Z5_SO_5020_A_7	241	8	3.32	42	17.43	5	2.07
Z6_AM_3020_H1	166	0	0	22	13.25	0	0
Z6_AM_3020_H2	292	2	0.68	43	14.73	2	0.68
Z8_AN_40010_P	27	1	3.7	3	11.11	11	40.74
Z8_AN_40010_S	29	1	3.45	3	10.34	3	10.34
Z8_AN_40020_P	9	1	11.11	1	11.11	3	33.33
Z8_AN_40020_S	14	2	14.29	2	14.29	0	0
Z8_AN_40030_P	14	1	7.14	3	21.43	1	7.14
Z8_AN_40030_S	4	1	25	1	25	2	50
Z8_AN_40040_P	23	2	8.7	4	17.39	2	8.7
Z8_AN_40040_S	14	2	14.29	3	21.43	4	28.57
Z8_AP_261_PC	218	1	0.46	61	27.98	0	0
Z8_AP_311_PC	56	1	1.79	7	12.5	1	1.79
Z8_AP_321_PC	7	1	14.29	0	0	0	0
Z8_CR_10110_CQ	189	4	2.12	22	11.64	21	11.11
Z8_CR_10110_OQ	197	4	2.03	24	12.18	28	14.21
Z8_CR_10120_OQ	4	1	25	0	0	0	0
Z8_CR_10130_CQ	36	2	5.56	6	16.67	6	16.67
Z8_CR_10130_OQ	33	3	9.09	6	18.18	4	12.12
Z8_CR_10140_CQ	181	2	1.1	19	10.5	19	10.5
Z8_CR_10140_OQ	181	3	1.66	20	11.05	17	9.39
Z8_CR_10150_CQ	65	2	3.08	7	10.77	2	3.08
Z8_CR_10150_OQ	68	4	5.88	13	19.12	4	5.88
Z8_CR_10160_CQ	93	2	2.15	12	12.9	12	12.9
Z8_CR_10160_OQ	82	2	2.44	12	14.63	18	21.95
Z8_CR_10170_CQ	4	0	0	0	0	0	0
Z8_CR_10190_CQ	136	3	2.21	17	12.5	11	8.09
Z8_CR_10190_OQ	130	5	3.85	17	13.08	13	10
Z8_CR_10210_CQ	33	1	3.03	4	12.12	2	6.06
Z8_CR_10210_OQ	35	3	8.57	6	17.14	15	42.86
Z8_CR_10220_CQ	5	1	20	1	20	2	40
Z8_CR_10220_OQ	3						
Z8_CR_10290_CQ	16	1	6.25	2	12.5	3	18.75
Z8_CR_10290_OQ	15	2	13.33	0	0	0	0
Z8_CR_10300_CQ	79	3	3.8	15	18.99	4	5.06
Z8_CR_10300_OQ	80	6	7.5	18	22.5	13	16.25
Z8_CR_10390_CQ	36	2	5.56	5	13.89	1	2.78
Z8_CR_10390_OQ	36	4	11.11	5	13.89	1	2.78
Z8_CR_10500_CQ	5	1	20	1	20	1	20
Z8_CR_10500_OQ	5	1	20	0	0	0	0

Z8_CR_10604_CQ	27	2	7.41	3	11.11	2	7.41
Z8_CR_10604_OQ	26	1	3.85	3	11.54	3	11.54
Z8_CR_10605_CQ	16	1	6.25	2	12.5	4	25
Z8_CR_10605_OQ	17	1	5.88	2	11.76	5	29.41
Z8_CR_10606_CQ	8	2	25	0	0	0	0
Z8_CR_10606_OQ	6	1	16.67	0	0	0	0
Z8_CR_10608_CQ	5	1	20	1	20	1	20
Z8_CR_10608_OQ	5	1	20	1	20	3	60
Z8_CR_10735_CQ	25	1	4	3	12	2	8
Z8_CR_10735_OQ	24	2	8.33	4	16.67	2	8.33
Z8_CR_10737_CQ	8	1	12.5	1	12.5	0	0
Z8_CR_10737_OQ	7	1	14.29	1	14.29	1	14.29
Z8_CR_10790_CQ	12	1	8.33	1	8.33	1	8.33
Z8_CR_10790_OQ	12	1	8.33	1	8.33	2	16.67
Z8_CR_10910_CQ	51	1	1.96	7	13.73	1	1.96
Z8_CR_10910_OQ	53	4	7.55	8	15.09	0	0
Z8_CR_10921_CQ	89	5	5.62	16	17.98	9	10.11
Z8_CR_10921_OQ	85	2	2.35	10	11.76	7	8.24
Z8_CR_10922_CQ	20	1	5	2	10	1	5
Z8_CR_10922_OQ	22	1	4.55	3	13.64	3	13.64
Z8_CR_10923_CQ	32	3	9.38	7	21.88	7	21.88
Z8_CR_10923_OQ	29	4	13.79	5	17.24	0	0
Z8_CR_11000_CQ	5	1	20	1	20	0	0
Z8_CR_11000_OQ	5	1	20	1	20	1	20
Z8_CR_40111_CQ	24	1	4.17	2	8.33	1	4.17
Z8_CR_40111_OQ	23	2	8.7	4	17.39	0	0
Z8_CR_40112_CQ	4	1	25	1	25	0	0
Z8_CR_40112_OQ	4	1	25	0	0	0	0
Z8_CR_40310_CQ	8	1	12.5	0	0	0	0
Z8_CR_40310_OQ	6	1	16.67	1	16.67	0	0
Z8_CR_40330_CQ	22	2	9.09	3	13.64	2	9.09
Z8_CR_40330_OQ	19	2	10.53	2	10.53	3	15.79
Z8_CR_40411_CQ	4	1	25	0	0	0	0
Z8_CR_40411_OQ	5	1	20	1	20	1	20
Z8_LS_100_CQ	24	2	8.33	4	16.67	2	8.33
Z8_LS_100_OQ	24	2	8.33	3	12.5	2	8.33
Z8_LS_100_S	8	1	12.5	1	12.5	2	25
Z8_LS_210_CQ	341	10	2.93	45	13.2	29	8.5
Z8_LS_210_OQ	340	11	3.24	44	12.94	28	8.24
Z8_LS_210_P	173	8	4.62	32	18.5	38	21.97
Z8_LS_210_S	298	10	3.36	43	14.43	16	5.37
Z8_LS_220_CQ	196	1	0.51	19	9.69	37	18.88
Z8_LS_220_OQ	200	1	0.5	19	9.5	28	14
Z8_LS_220_P	125	2	1.6	15	12	12	9.6
Z8_LS_220_S	193	1	0.52	18	9.33	24	12.44
Z8_LS_230_CQ	308	10	3.25	37	12.01	12	3.9
Z8_LS_230_OQ	307	7	2.28	39	12.7	12	3.91
Z8_LS_230_P	135	7	5.19	27	20	21	15.56
Z8_LS_230_S	203	5	2.46	22	10.84	18	8.87
Z8_LS_240_CQ	152	5	3.29	19	12.5	12	7.89
Z8_LS_240_OQ	151	5	3.31	21	13.91	11	7.28
Z8_LS_240_P	100	1	1	15	15	1	1
Z8_LS_240_S	117	8	6.84	24	20.51	29	24.79
Z8_LS_251_CQ	199	8	4.02	31	15.58	17	8.54
Z8_LS_251_OQ	211	11	5.21	35	16.59	14	6.64
Z8_LS_251_P	110	3	2.73	17	15.45	16	14.55
Z8_LS_251_S	129	1	0.78	16	12.4	33	25.58
Z8_LS_252_CQ	76	2	2.63	8	10.53	6	7.89
Z8_LS_252_OQ	78	3	3.85	11	14.1	15	19.23
Z8_LS_252_P	71						
Z8_LS_252_S	74	4	5.41	14	18.92	18	24.32
Z8_LS_261_CQ	262	9	3.44	32	12.21	13	4.96
Z8_LS_261_OQ	266	8	3.01	35	13.16	12	4.51
Z8_LS_261_P	133	1	0.75	13	9.77	12	9.02
Z8_LS_261_S	257	7	2.72	32	12.45	16	6.23
Z8_LS_269_CQ	132	5	3.79	24	18.18	5	3.79
Z8_LS_269_OQ	131	3	2.29	17	12.98	4	3.05
Z8_LS_269_P	86	2	2.33	12	13.95	11	12.79

Z8_LS_269_S	116	1	0.86	11	9.48	6	5.17
Z8_LS_311_CQ	151	4	2.65	25	16.56	4	2.65
Z8_LS_311_OQ	151	5	3.31	25	16.56	5	3.31
Z8_LS_311_P	100	3	3	16	16	18	18
Z8_LS_311_S	128	5	3.91	24	18.75	5	3.91
Z8_LS_319_CQ	147	5	3.4	24	16.33	5	3.4
Z8_LS_319_OQ	145	4	2.76	18	12.41	12	8.28
Z8_LS_319_P	107	7	6.54	21	19.63	14	13.08
Z8_LS_319_S	145	3	2.07	18	12.41	3	2.07
Z8_LS_321_CQ	7	1	14.29	1	14.29	0	0
Z8_LS_321_OQ	8	1	12.5	1	12.5	2	25
Z8_LS_321_P	6	1	16.67	1	16.67	2	33.33
Z8_LS_321_S	6	1	16.67	1	16.67	1	16.67
Z8_LS_329_CQ	6	0	0	0	0	0	0
Z8_LS_329_OQ	8	1	12.5	0	0	0	0
Z8_LS_329_P	6						
Z8_LS_329_S	7	1	14.29	1	14.29	0	0
Z8_LS_410_CQ	92	4	4.35	16	17.39	6	6.52
Z8_LS_410_OQ	98	4	4.08	18	18.37	8	8.16
Z8_LS_410_P	57	1	1.75	7	12.28	17	29.82
Z8_LS_410_S	74	3	4.05	14	18.92	28	37.84
Z8_LS_420_CQ	113	4	3.54	17	15.04	26	23.01
Z8_LS_420_OQ	113	3	2.65	14	12.39	27	23.89
Z8_LS_420_P	64	1	1.56	8	12.5	12	18.75
Z8_LS_420_S	85	1	1.18	9	10.59	32	37.65
Z8_LS_491_CQ	139	2	1.44	15	10.79	27	19.42
Z8_LS_491_OQ	139	2	1.44	15	10.79	25	17.99
Z8_LS_491_P	90	6	6.67	18	20	33	36.67
Z8_LS_491_S	144	2	1.39	14	9.72	20	13.89
Z8_LS_499_CQ	86	2	2.33	11	12.79	12	13.95
Z8_LS_499_OQ	90	2	2.22	12	13.33	18	20
Z8_LS_499_P	64	2	3.12	9	14.06	16	25
Z8_LS_499_S	72	1	1.39	8	11.11	15	20.83
Z8_LS_510_S	3	1	33.33	0	0	1	33.33
Z8_LS_520_CQ	5	1	20	1	20	1	20
Z8_LS_520_OQ	4	1	25	1	25	1	25
Z8_LS_520_P	5	1	20	1	20	1	20
Z8_LS_520_S	3	1	33.33	0	0	1	33.33
Z8_LS_530_CQ	5	0	0	0	0	0	0
Z8_LS_530_OQ	4	1	25	1	25	0	0
Z8_LS_530_P	5	1	20	1	20	0	0
Z8_LS_530_S	7	1	14.29	1	14.29	0	0
Z8_LS_900_CQ	4	1	25	1	25	1	25
Z8_LS_900_OQ	4	1	25	1	25	1	25
Z8_LS_900_P	5	1	20	1	20	2	40
Z8_LS_900_S	3	1	33.33	0	0	1	33.33
Z8_PF_20010_CQ	43	1	2.33	6	13.95	8	18.6
Z8_PF_20010_OQ	46	2	4.35	6	13.04	11	23.91
Z8_PF_20010_P	91	3	3.3	12	13.19	7	7.69
Z8_PF_20020_CQ	41	3	7.32	9	21.95	12	29.27
Z8_PF_20020_OQ	45	3	6.67	8	17.78	9	20
Z8_PF_20020_P	80	3	3.75	12	15	15	18.75
Z8_PF_20030_OQ	3	1	33.33	0	0	1	33.33
Z8_PF_20030_P	7	1	14.29	0	0	0	0
Z8_PF_20040_CQ	46	3	6.52	7	15.22	6	13.04
Z8_PF_20040_OQ	49	3	6.12	5	10.2	6	12.24
Z8_PF_20040_P	72	3	4.17	10	13.89	4	5.56
Z8_PF_20050_CQ	53	1	1.89	5	9.43	6	11.32
Z8_PF_20050_OQ	53	2	3.77	7	13.21	7	13.21
Z8_PF_20050_P	61	4	6.56	11	18.03	6	9.84
Z8_PF_20070_CQ	6	1	16.67	0	0	0	0
Z8_PF_20070_OQ	6	1	16.67	1	16.67	3	50
Z8_PF_20070_P	10	1	10	1	10	2	20
Z8_PF_20110_P	4	1	25	1	25	1	25
Z8_PF_20130_CQ	36	2	5.56	6	16.67	6	16.67
Z8_PF_20130_OQ	36	3	8.33	8	22.22	7	19.44
Z8_PF_20130_P	37	3	8.11	6	16.22	6	16.22
Z8_PF_20170_CQ	4	2	50	1	25	0	0

Z8_PF_20170_OQ	4	1	25	1	25	0	0
Z8_PF_20170_P	9	2	22.22	1	11.11	0	0
Z8_PF_20180_CQ	9	1	11.11	2	22.22	0	0
Z8_PF_20180_OQ	9	2	22.22	1	11.11	0	0
Z8_PF_20180_P	8	2	25	0	0	0	0
Z8_PF_20210_CQ	11	1	9.09	1	9.09	1	9.09
Z8_PF_20210_OQ	11	1	9.09	1	9.09	1	9.09
Z8_PF_20210_P	17	1	5.88	1	5.88	1	5.88
Z8_PF_20240_CQ	101	2	1.98	12	11.88	49	48.51
Z8_PF_20240_OQ	101	2	1.98	12	11.88	49	48.51
Z8_PF_20240_P	109	6	5.5	18	16.51	19	17.43
Z8_PS_30010_P	172	5	2.91	22	12.79	13	7.56
Z8_PS_30020_P	414	5	1.21	45	10.87	36	8.7
Z8_PS_30030_P	38	3	7.89	7	18.42	3	7.89
Z8_PU_10010_CQ	139	2	1.44	14	10.07	7	5.04
Z8_PU_10010_OQ	139	2	1.44	15	10.79	9	6.47
Z8_PU_10010_P	214	4	1.87	25	11.68	15	7.01
Z8_PU_10020_CQ	84	2	2.38	10	11.9	12	14.29
Z8_PU_10020_OQ	88	2	2.27	11	12.5	11	12.5
Z8_PU_10020_P	157	2	1.27	15	9.55	6	3.82
Z8_PU_10040_CQ	7	1	14.29	1	14.29	0	0
Z8_PU_10040_OQ	6	1	16.67	1	16.67	0	0
Z8_PU_10040_P	69	1	1.45	6	8.7	2	2.9
Z8_PU_10050_CQ	39	1	2.56	4	10.26	4	10.26
Z8_PU_10050_OQ	39	2	5.13	6	15.38	4	10.26
Z8_PU_10050_P	52	1	1.92	6	11.54	1	1.92
Z8_PU_10080_CQ	81	5	6.17	14	17.28	6	7.41
Z8_PU_10080_OQ	82	5	6.1	13	15.85	8	9.76
Z8_PU_10080_P	125	3	2.4	14	11.2	11	8.8
Z8_PU_10090_CQ	21	2	9.52	4	19.05	4	19.05
Z8_PU_10090_OQ	20	2	10	4	20	6	30
Z8_PU_10090_P	29	2	6.9	5	17.24	6	20.69
Z8_PU_10180_CQ	13	1	7.69	1	7.69	2	15.38
Z8_PU_10180_OQ	15	2	13.33	3	20	2	13.33
Z8_PU_10180_P	16	3	18.75	2	12.5	0	0
Z8_PU_10190_CQ	203	2	0.99	22	10.84	41	20.2
Z8_PU_10190_OQ	203	2	0.99	21	10.34	61	30.05
Z8_PU_10190_P	254	11	4.33	46	18.11	83	32.68
Z8_SL_50010_P	44	1	2.27	5	11.36	3	6.82
Z8_SL_50010_S	47	3	6.38	9	19.15	3	6.38
Z8_SL_50020_P	40	1	2.5	5	12.5	4	10
Z8_SL_50020_S	34	2	5.88	4	11.76	2	5.88
Z8_SL_50040_P	7	1	14.29	1	14.29	0	0
Z8_SL_50040_S	3	1	33.33	0	0	1	33.33
Z9_EP_2060_CL	32	1	3.12	4	12.5	1	3.12
Z9_EP_2060_CO	55	1	1.82	7	12.73	3	5.45
Z9_EP_2060_CS	27	3	11.11	5	18.52	5	18.52
Z9_EP_2060_P	69	4	5.8	10	14.49	4	5.8
Z9_EP_2060_SQ	55	4	7.27	7	12.73	4	7.27
Z9_EP_2060_SV	57	2	3.51	7	12.28	7	12.28
Z9_EP_2070_CL	4	0	0	0	0	0	0
Z9_EP_2070_CO	4	2	50	1	25	0	0
Z9_EP_2070_CS	3	2	66.67	0	0	0	0
Z9_EP_2070_P	3	1	33.33	0	0	0	0
Z9_EP_2070_SQ	3	1	33.33	0	0	0	0
Z9_EP_2070_SV	3	1	33.33	0	0	0	0
Z9_EU_1010_C	1021	10	0.98	112	10.97	52	5.09
Z9_EU_1010_Q	1079	12	1.11	111	10.29	61	5.65
Z9_EU_1020_C	92	4	4.35	11	11.96	8	8.7
Z9_EU_1020_Q	88	2	2.27	11	12.5	12	13.64
Z9_EU_1030_C	5	1	20	1	20	1	20
Z9_EU_1030_Q	5	1	20	1	20	0	0
Z9_EU_1040_C	68	3	4.41	8	11.76	4	5.88
Z9_EU_1040_Q	83	1	1.2	9	10.84	2	2.41
Z9_EU_1050_C	4	1	25	0	0	0	0
Z9_EU_1050_Q	4	1	25	1	25	1	25
Z9_EU_1060_C	131	4	3.05	19	14.5	39	29.77
Z9_EU_1060_Q	131	4	3.05	19	14.5	44	33.59

Z9_EU_1070_C	861	16	1.86	103	11.96	40	4.65
Z9_EU_1070_Q	807	8	0.99	84	10.41	69	8.55
Z9_EU_1080_C	52	1	1.92	6	11.54	5	9.62
Z9_EU_1080_Q	59	2	3.39	7	11.86	9	15.25
Z10_WU_1000_CE_1	79	3	3.8	12	15.19	18	22.78
Z10_WU_1000_CE_2	104	4	3.85	17	16.35	35	33.65
Z10_WU_1000_CE_3	63	6	9.52	13	20.63	23	36.51
Z10_WU_1000_CE_4	267	7	2.62	33	12.36	25	9.36
Z10_WU_1000_CE_5	345	3	0.87	37	10.72	47	13.62
Z10_WU_1000_CE_6	69	3	4.35	11	15.94	23	33.33
Z10_WU_1000_WM_1	65	5	7.69	14	21.54	19	29.23
Z10_WU_1000_WM_2	67	2	2.99	10	14.93	4	5.97
Z10_WU_1000_WM_3	60	2	3.33	11	18.33	29	48.33
Z10_WU_1000_WM_4	122	4	3.28	20	16.39	37	30.33
Z10_WU_1000_WM_5	382	4	1.05	37	9.69	26	6.81
Z10_WU_1000_WM_6	52	3	5.77	10	19.23	16	30.77
Z10_WU_2000_CE_1	401	4	1	39	9.73	24	5.99
Z10_WU_2000_CE_2	249	7	2.81	38	15.26	76	30.52
Z10_WU_2000_CE_3	298	4	1.34	34	11.41	16	5.37
Z10_WU_2000_WM_1	279	5	1.79	31	11.11	23	8.24
Z10_WU_2000_WM_2	143	5	3.5	18	12.59	20	13.99
Z10_WU_2000_WM_3	203	2	0.99	20	9.85	24	11.82
EI_2_2	386	12	3.11	46	11.92	2	0.52
EI_2_3	31	4	12.9	9	29.03	0	0
EI_2_4	36	0	0	13	36.11	0	0
EI_2_5	87	9	10.34	26	29.89	0	0
EI_2_6	107	1	0.93	32	29.91	0	0
EI_2_7	162	1	0.62	33	20.37	1	0.62
EI_4_1	1085	12	1.11	138	12.72	1	0.09
EI_4_2	880	32	3.64	145	16.48	6	0.68
EI_5_1	1063	28	2.63	143	13.45	30	2.82
EI_5_10	1033	35	3.39	120	11.62	3	0.29
EI_5_11	1058	0	0	180	17.01	0	0
EI_5_2	1061	13	1.23	112	10.56	36	3.39
EI_5_3	1023	18	1.76	126	12.32	26	2.54
EI_5_4	1025	18	1.76	119	11.61	75	7.32
EI_5_5	1036	15	1.45	124	11.97	26	2.51
EI_5_6	1035	18	1.74	120	11.59	53	5.12
EI_5_7	1076	24	2.23	143	13.29	149	13.85
EI_5_8	895	13	1.45	105	11.73	31	3.46
EI_5_9	878	10	1.14	90	10.25	36	4.1
EI_6_1	1077	22	2.04	142	13.18	3	0.28
EI_6_2	506	15	2.96	78	15.42	0	0
EI_6_3	100	9	9	12	12	0	0
EI_6_4	155	14	9.03	24	15.48	0	0
EI_6_5	46	2	4.35	6	13.04	1	2.17
EI_6_6	1018	35	3.44	153	15.03	0	0
EI_8_14	621	0	0	188	30.27	0	0
EI_8_7	664	0	0	180	27.11	0	0
E_1_1	875	2	0.23	77	8.8	17	1.94
E_1_2	875	2	0.23	74	8.46	17	1.94
E_1_3	875	49	5.6	181	20.69	89	10.17
E_2_2	1099	6	0.55	109	9.92	296	26.93
E_3_1	1099	1	0.09	97	8.83	48	4.37
E_4_1	693	3	0.43	64	9.24	36	5.19
E_5_1	707	4	0.57	66	9.34	48	6.79
E_5_3	695	1	0.14	62	8.92	28	4.03
E_10_1	179	10	5.59	33	18.44	9	5.03
E_10_2	168	10	5.95	29	17.26	1	0.6
E_10_3	1081	37	3.42	218	20.17	134	12.4
E_10_4	1081	25	2.31	157	14.52	4	0.37
E_11_1	200	3	1.5	36	18	0	0
E_11_2	108	6	5.56	26	24.07	0	0
E_11_3	50	2	4	17	34	0	0
E_11_4	31	2	6.45	10	32.26	0	0
E_11_5	12	2	16.67	1	8.33	0	0
E_11_6	5	1	20	1	20	0	0
E_11_7	200	2	1	23	11.5	5	2.5

E_11_8	200	2	1	22	11	2	1
E_14_1	707	10	1.41	77	10.89	50	7.07
E_16_1	903	22	2.44	139	15.39	193	21.37
E_16_2	942	33	3.5	154	16.35	191	20.28
E_16_3	502	0	0	177	35.26	0	0
E_16_4	686	2	0.29	66	9.62	61	8.89
E_17_3	209	4	1.91	24	11.48	9	4.31
E_18_1	1081	22	2.04	172	15.91	2	0.19
S_1_1	1046	23	2.2	137	13.1	29	2.77
S_1_2_1	1064	12	1.13	114	10.71	14	1.32
S_1_2_2	1064	22	2.07	159	14.94	23	2.16
S_1_2_3	1064	21	1.97	143	13.44	26	2.44
S_1_2_4	1064	37	3.48	201	18.89	30	2.82
S_1_2_5	1064	28	2.63	181	17.01	39	3.67
S_1_2_6	1064	35	3.29	180	16.92	18	1.69
S_1_2_7	1064	22	2.07	173	16.26	24	2.26
S_1_2_8	1064	26	2.44	169	15.88	27	2.54
S_2_4	203	4	1.97	35	17.24	2	0.99
S_2_5	341	9	2.64	45	13.2	10	2.93
S_3_6	602	7	1.16	57	9.47	11	1.83
S_5_15	166	0	0	22	13.25	0	0
S_5_16	292	2	0.68	43	14.73	2	0.68
S_5_17	924	30	3.25	129	13.96	0	0
S_5_18	924	29	3.14	130	14.07	0	0
S_5_19	1060	37	3.49	256	24.15	3	0.28
S_5_2	1099	44	4	258	23.48	0	0
S_5_20	1055	37	3.51	194	18.39	10	0.95
S_5_21	1062	21	1.98	138	12.99	1	0.09
S_5_22	1014	30	2.96	137	13.51	20	1.97
S_5_23	938	14	1.49	129	13.75	4	0.43
S_5_27	1099	43	3.91	175	15.92	0	0
S_5_28	893	5	0.56	104	11.65	26	2.91
S_5_29	899	18	2	102	11.35	26	2.89
S_5_30	1070	42	3.93	177	16.54	10	0.93
S_5_4	1099	10	0.91	108	9.83	51	4.64
S_5_5	537	9	1.68	62	11.55	60	11.17
S_5_7	290	6	2.07	34	11.72	35	12.07
S_5_8	1069	21	1.96	189	17.68	3	0.28
S_5_9	344	14	4.07	51	14.83	10	2.91
S_7_2	1099	22	2	149	13.56	2	0.18