Data documentation

Herd_Sim_DataRich.csv and *Herd_Sim_DataPoor.csv*

Description

Characteristics of all pig sites that are located on the Island and that are known by the veterinary services at the time the first African swine fever (ASF) outbreak is detected.

Variable code

NAME	DESCRIPTION	COMMENT
ID	Unique identification number of pig sites	
X, Y	Geographical coordinates of pig sites	
SIZE	Number of pigs that were present on the site the day of the latest census	This variable accounts for all pigs (sows, piglets and fattening pigs)
PROD	Production type of pig sites	*Fa* for farrow-to-wean farms (specialise in the breeding of sows, produce weaned pigs to sell them to finishing farms); *Fi* for finishing farms (buy weaned pigs to farrow-to-wean farms and raise them until they reach market weight); *FaFi* for farrow-to-finish farms (manage all stages of pig growth and development, from breeding through finishing)
IS_OUTDR	Whether the pigs have access to an outdoor area or not	1 for access to outdoor; 0 otherwise
IS_COMM	Whether the site produces pigs as part of a commercial activity that represents one of the main sources of income of the farmer (commercial) or produces pigs for own consumption or for relatives (backyard)	1 for commercial sites; 0 for backyard sites
MULTISITE	Unique identification number of the multisite farms to which the site belongs	0 for sites that do not belong to any multi-site farms; i>0 for sites that belong to a multisite farm. Note that it is expected that sites from multisite farms are more epidemiologically linked than any other pair of farms.

Moves_DataRich.csv and *Moves _DataPoor.csv*

Description

List of all known movements of live pigs that occurred on the Island, starting two months before the day the first ASF outbreak is detected.

Variable code

NAME	DESCRIPTION	COMMENT
DATE	Day of the shipment	Starting from 1 which corresponds to two months before the day the first ASF outbreak is detected
SOURCE	Unique identification number of the pig site that moved the pigs	Corresponds to the variable ID from the *Herd_Sim* datasets
DEST	Unique identification number of the pig site that received the pigs	In case the shipment is internal (in NE sites), DEST equals SOURCE
QTY	Total number of pigs of the shipment	

WB_HuntingBag.csv

Description

Number of wild boar that were hunt in all administrative units of the Island in 2019.

Variable code

NAME	DESCRIPTION	COMMENT
ADM	Unique identification number of administrative units	Equivalent to ID in *Island_ADMIN@data*
HB	Hunting bag size	Number of wild boar that were shot as part of the hunting activities in 2019

Island_ADMIN.shp

Description

Shapefile of the administrative units of the Island.

Variable code in *Island_ADMIN@data*

NAME	DESCRIPTION	COMMENT
ID	Unique identification number of administrative units	Equivalent to ADM in *WB_HuntingBag.csv*

Island_LANDCOVER.shp

Description

Shapefile of the land cover of the Island.

Variable code in *Island_LANDCOVER@data*

NAME	DESCRIPTION	COMMENT
ID_POLYG	Unique identification number of the polygons	Each polygon defines one type of land use (forest, agricultural or urban)
LANDCOVER	Type of land cover of the polygon	It can be forest, agricultural or urban

TimeSeries.csv

Description

Characteristics of the outbreaks and wild boar cases

Variable code

NAME	DESCRIPTION	COMMENT
ID	Unique identification number of pig sites that is affected	
HOST	Type of host	domestic pig site or wild boar
X, Y	Geographical coordinates of pig sites	
DET	Mode of detection	PS for a detection through passive surveillance (in domestic pigs and wild boar); RZ for a detection of a pig site located in a surveillance or a protection zone; TR for a detection of a pig site through the backward and forward movement tracing of pigs from infected pig sites; AS for a detection of a wild boar carcass through active searching around already detected positive carcasses
DATE.SUSP	Date of the suspicion	in days with the origin being day=0
DATE.CONF	Date of the confirmation	in days with the origin being day=0; it is set 3 days after the suspicion; NA for wild boar
DATE.CULLING	Date of the culling	in days with the origin being day=0; it is set 4 days after the suspicion; NA for wild boar