Farm\_ID

Value: 2,8 ausschliessen: all age groups of fatteners sampled

Date\_sampling

* Reports and SIV positives per month

Cantons: new variable directly after Canton: Canton\_factor; Factor with levels

* Aargau , Basel Land
* Bern + Solothurn
* Schaffhausen + Solothurn + St. Gallen + Thurgau + Zürich
* Fribourg + Waadt + Jura
* Luzern

Production\_type: new variable directly after Production\_type: Production\_type\_factor

Levels 1=1,2=2,3=3,4=4,5 = value 5 and 8, 6 = value 9 and 10, 7 = value 11 and 12

Checks for plausibility?

Farrowing farm= values in all variable that contain farrowing?

Isemination\_on\_farm = values in all variables that contain ai

Gestation\_on\_farm = values in all var that contain gilts

Weaners\_on\_farm = values in all var that contain weaners

Fattening\_on\_farm = values in all var that contain fattener

Ili\_symptoms\_check = new variable directly after ili\_symptoms: TRUE if weaners\_coughing >= 2,5 or fatteners\_coughing >=2,5, or for farm 5

Sgd\_qgs 🡪 no added value other thand production type

Number\_\* 0 are not meaningful 🡪 0 should be replaced with NA 🡪

number\_of\_origins\_suckiling\_piglets, number\_of\_origins\_weaners, number\_of\_origins\_fattening\_pigs, number\_of\_origins\_young\_sows, number\_of\_origins\_old\_sows, number\_of\_origins\_boars 🡪remove all, if overview is positive we can still use

quarantaine\_suckling\_piglets, quarantaine\_weaners, quarantaine\_fatteners, quarantaine\_young\_sows, quarantaine\_old\_sows, quarantaine\_boars 🡪 remove all, if overview is positive we can still use

quarataine\_time 🡪 add category “NA” for NA and 0

mode\_stable\_occupation\_ai\_centre 🡪 mutate to binary, TRUE if 1, FALSE if anything else, keep NA

mode\_stable\_occupation\_gilts\_stable 🡪 mutate to binary TRUE if 6 FALSE if anything else, keep NA

mode\_stable\_occupation\_farrowing\_stable 🡪 factor levels 1=1; 2=3 and 4, 5, 3 = 6; keep NA

litter\_equalization\_farrowing\_stable 🡪 factor levels 1=1,2; 3; 4; 5 keep NA

mode\_stable\_occupation\_weaner\_stable 🡪 factor levels 1; 2=2,3,4; 5; 6=6; keep NA

mode\_stable\_occupation\_fattener\_stable 🡪 factor levels 1; 2=4, 5; 3=6; keep NA

create outside\_area before outside\_area\_ai\_centre, binary, TRUE if one or more of the outside\_area variables is TRUE, if all are FALSE = FALSE

isolation\_respiratory\_dieseased\_pigs 🡪 remove due to biological irrelevance 🡪 coughing pigs are not isolated

cleaning\_ai\_centre 🡪 Factor, levels 1=2; 2=4; 3=5 keep NA

cleaning\_gilts\_stable 🡪 binary; FALSE = 2; TRUE = everything else, keep NA

cleaning\_farrowing\_stable 🡪 binary, TRUE= 5, FALSE = everything else, keep NA

cleaning\_weaner\_stable 🡪 binary, TRUE= 5, FALSE = everything else, keep NA

cleaning\_fattener\_stable 🡪 factor; 1= 2; 2=3,4; 3=5, 1; value 1 change to NA and keep NA

cleaning\_quarantaine 🡪factor; 1=2; 2=3; 3=5; value 1 change to NA and keep NA

desinfection\_ai\_centre 🡪 binary, FALSE=2; TRUE everything else, keep NA

desinfection\_gilts\_stable 🡪 binary, FALSE=2; TRUE everything else, keep NA

desinfection\_farrowing\_stable 🡪 factor; 1=2; 2=4; 3=5; keep NA

desinfection\_weaner\_stable 🡪 factor; 1=2; 2=3, 4; 5=32; keep NA

desinfection\_fattener\_stable 🡪 binary: FALSE = 2; TRUE = all other values, but keep NA

desinfection\_quarantaine 🡪 binary: FALSE = 2; TRUE = all other values; value 1 change to NA before transforming to binary and keep NA

drying\_ai\_centre 🡪 factor; 1=2, 2=4; 3=5, keep NA

drying\_gilts\_stable 🡪 binary, FALSE=2; TRUE=all other values, but keep NA

drying\_farrowing\_stable 🡪 binary, FALSE=2; TRUE=all other values, but keep NA

drying\_weaner\_stable 🡪 binary, FALSE=2; TRUE=all other values, but keep NA

drying\_fattener\_stable🡪 factor; 1=2, 2=3,4; 3=5, value 1 change to NA before transforming to binary and keep NA

drying\_quarantaine 🡪 binary, FALSE=2; TRUE=all other values, value 1 change to NA before transforming to binary and keep NA

cleaning\_desinfection\_transport\_vehicle 🡪 binary, TRUE=5, FALSE= 2,4 value 1 change to NA before transforming to binary and keep NA

cleaning\_shipment\_area 🡪 factor, levels 1=2, 2=3,4; 3=5, value 1 change to NA before transforming and keep NA

caretaker\_ppe\_washing\_interval 🡪binary, FALSE=4; TRUE=5, value 1 change to NA before transforming to binary and keep NA

caretaker\_ppe\_per\_unit🡪binary, FALSE=1; TRUE=2,3, keep NA

caretaker\_disease\_management 🡪 binary, FALSE=2; TRUE=3,4, value 1 change to NA before transforming to binary and keep NA

caretaker\_contact\_other\_pigs 🡪 factor, value 5 change to NA before transforming and keep NA,

caretaker\_contact\_poultry 🡪 binary, TRUE =3,4; FALSE =2,1; value 5 change to NA before transforming and keep NA

visitors\_in\_stable 🡪 remove because same information as visitors\_in\_stable\_recent

ppe\_visitors 🡪binary, TRUE =3; FALSE =1

visitors\_disease\_management 🡪 binary; value 1 change to NA before transforming and keep NA; TRUE = 3,4; FALSE =2

visitors\_contact\_other\_pigs 🡪 factor, value 1 change to NA before transforming and keep NA, factor 1=2,3; 2=4; 3=5

visitors\_contact\_poultry 🡪 remove due to limited knowledge of farmers, to many NAs

return\_to\_service\_rate 🡪 binary= TRUE=1, FALSE=2, keep NA

farrowing\_rate 🡪 binary= TRUE=1, FALSE=2, keep NA

piglets\_per\_sow\_year 🡪 binary= TRUE=1, FALSE=2, keep NA

abortions\_per\_sow\_year 🡪 binary= TRUE=1, FALSE=2, keep NA

piglet\_mortality 🡪 binary= TRUE=1, FALSE=2, keep NA

growing\_rate\_weaners 🡪 remove to many NA, no variance

growing\_rate\_fatteners 🡪 remove to many NA, no variance

feed\_conversion\_rate\_weaners 🡪 remove to many NA, no variance

feed\_conversion\_rate\_fatteners 🡪 binary= TRUE=1, FALSE=2, keep NA

time\_respiratory\_disease 🡪 factor; levels 1=1, 2=2, 3, 3=4

percent\_diseased\_suckling\_piglets 🡪rename to suckling\_piglets\_diseased at some position, mutate to binary= FALSE if 0, TRUE for anything else

percent\_diseased\_weaners 🡪 rename to weaners\_diseased

percent\_diseased\_fatteners 🡪 rename to fatteners\_diseased

percent\_diseased\_young\_sows 🡪rename to young\_sows \_diseased at some position, mutate to binary= FALSE if 0, TRUE for anything else

percent\_diseased\_old\_sows 🡪rename to old\_sows \_diseased at some position, mutate to binary= FALSE if 0, TRUE for anything else

percent\_diseased\_boars 🡪rename to boars \_diseased at some position, mutate to binary= FALSE if 0, TRUE for anything else

percent\_killed\_suckling\_piglets 🡪 rename report\_killed\_suckling\_piglets; mutate to binary= FALSE if 0, TRUE for anything else

percent\_killed\_weaners 🡪 rename report\_killed\_weaners at some position; mutate to binary= FALSE if 0, TRUE for anything else

percent\_killed\_fatteners 🡪 rename report\_killed\_weaners at some position; mutate to binary= FALSE if 0, TRUE for anything else

percent\_killed\_young\_sows 🡪 rename report\_killed\_young\_sows at some position; mutate to binary= FALSE if 0, TRUE for anything else

percent\_killed\_old\_sows 🡪 rename report\_killed\_old\_sows at some position; mutate to binary= FALSE if 0, TRUE for anything else

percent\_killed\_boars 🡪 remove

starting\_point\_current\_disease 🡪 change value 0 to NA

symptom\_severity –> mutate to binary ; FALSE =1; TRUE 2,3; keep NA

influenza\_diagnosis\_hum\_an 🡪 remove

antiviral\_treatment 🡪 remove

verification\_outside\_area\_contact\_poultry 🡪 binary, 1= FALSE, 3,4=TRUE, keep NA

verification\_outside\_area\_contact\_wild\_birds 🡪 binary, 1= FALSE, 3,4=TRUE, keep NA

verification\_contact\_poultry\_stable 🡪 binary, 1= FALSE, 3,4=TRUE, keep NA

verification\_isolation\_respiratory\_dieseased\_pigs 🡪 remove as mentioned above

farrowing\_sows\_reduced\_general\_wellbeing 🡪 remove, no variance

farrowing\_sows\_sneezing 🡪 remove, no variance

farrowing\_sows\_coughing 🡪 mutate to binary= FALSE if 0, TRUE for anything else

farrowing\_sows\_nasal\_discharge 🡪 remove, no variance

farrowing\_sows\_rectal\_temperature 🡪 remove, no variance

farrowing\_piglets\_reduced\_general\_wellbeing mutate to binary= FALSE if 0, TRUE for anything else

farrowing\_piglet\_litters\_sneezing\_percentage

farrowing\_piglet\_litters\_coughing\_percentage

farrowing\_piglets\_nasal\_discharge 🡪 remove, no variance

farrowing\_piglets\_rectal\_temperature 🡪 remove, only three values

farrowing\_airspace\_with\_other\_agegroup 🡪mutate to factor; levels 1=2, 2=3, 3=4, keep NA

ai\_sows\_reduced\_general\_wellbeing 🡪 remove, no variance

ai\_sows\_sneezing 🡪 remove, no variance

ai\_sows\_coughing 🡪 remove, no variance

ai\_sows\_discharge 🡪 remove, no variance

ai\_sows\_rectal\_temperature 🡪 remove, no variance

ai\_airspace\_with\_other\_agegroup🡪 mutate to factor; levels 1=2, 2=3, 3=4, keep NA

gilts\_reduced\_general\_wellbeing 🡪 remove, only one observation

gilts\_sneezing 🡪 remove, no variance

gilts\_coughing 🡪 remove, no variance

gilts\_discharge 🡪 remove, no variance

gilts\_rectal\_temperature 🡪 remove, not taken

gitls\_animals\_per\_water\_source 🡪 one outlier that depends departure from normality

gilts\_airspace\_with\_other\_agegroup 🡪 mutate to factor; levels 1=2, 2=3, 3=4, keep NA

weaners\_reduced\_general\_wellbeing 🡪 mutate to binary= FALSE if 0, TRUE for anything else

weaners\_discharge 🡪 mutate to binary= FALSE if 0, TRUE for anything else

fatteners\_reduced\_general\_wellbeing 🡪 mutate to binary= FALSE if 0, TRUE for anything else

fatteners\_discharge 🡪 mutate to binary= FALSE if 0, TRUE for anything else