

African Swine Fever situation in Sardinia

*PAFF Committee
13-14 June 2018*



ASF Eradication Plan 2015-2018

Control measures are focused on the three target populations

DOMESTIC PIGS

14 742 holdings
160 000 heads



WILD BOAR

90 000 heads



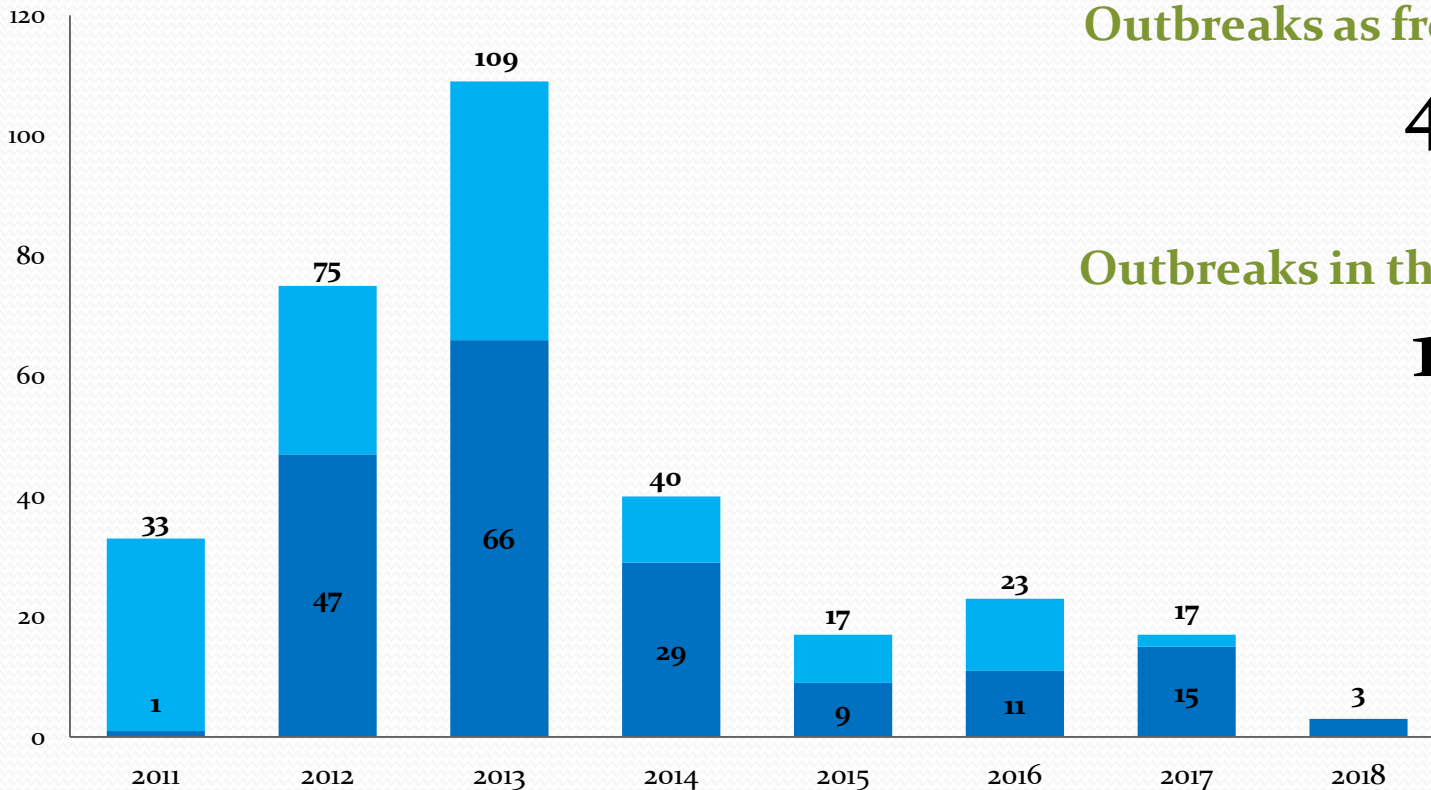
ILLEGAL FREE-RANGING PIGS

500/1 000 heads?



African swine fever in Sardinia

Outbreaks in domestic pigs as at 10 June 2018



Outbreaks as from August 2017

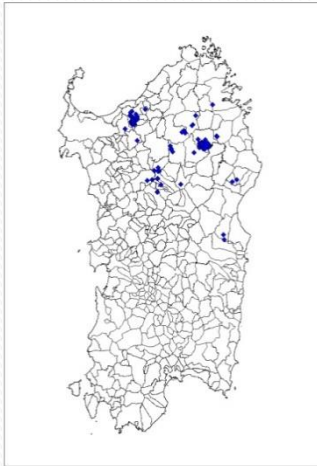
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Outbreaks in the last 4 months

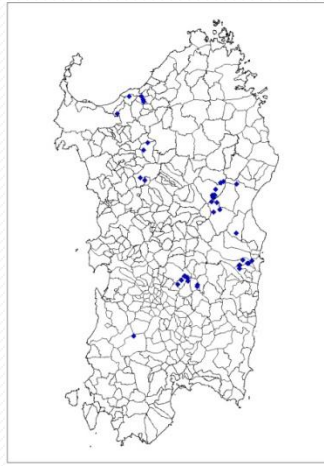
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Location of outbreaks in dp

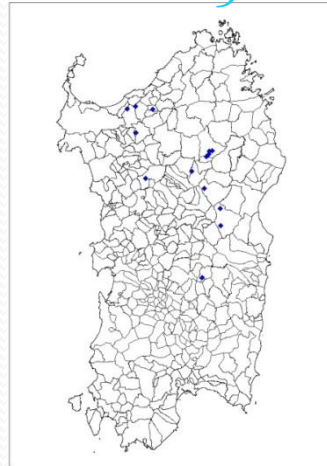
2013



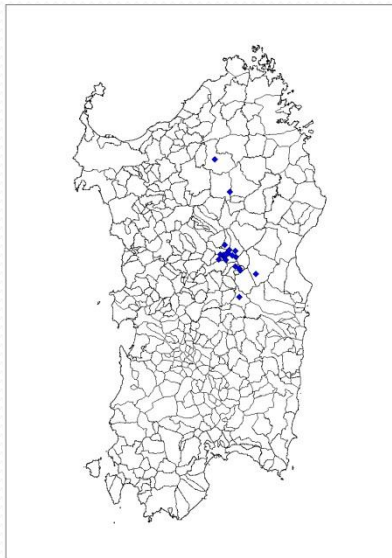
2014



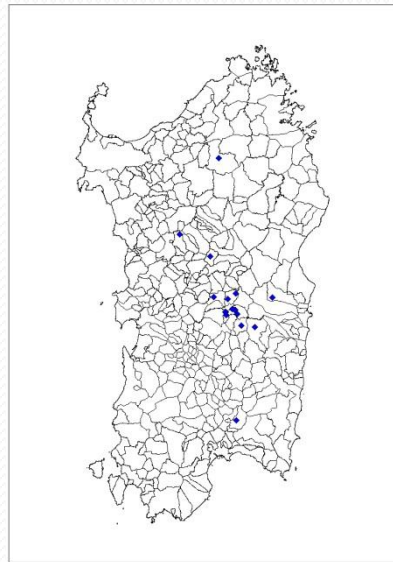
2015



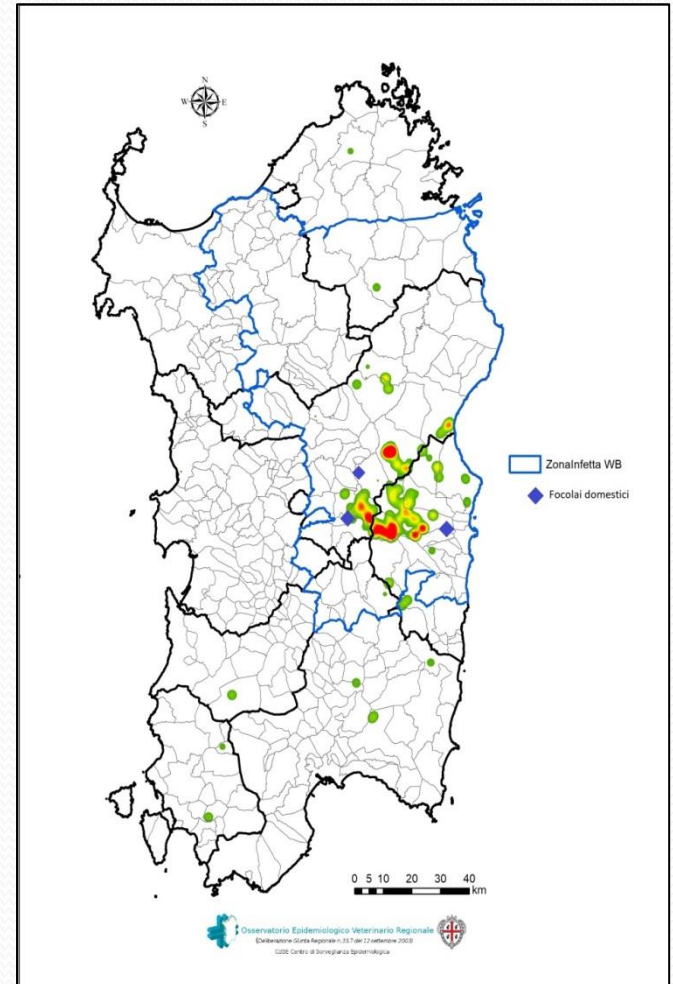
2016



2017



2018



PASSIVE SURVEILLANCE ON DOMESTIC PIGS

1 Jan – 10 Jun, 2018

A total of **113 holdings** were subjected to virus and/or Ab testing due to symptoms or lesions resembling ASF (passive surveillance)

Year	Organs tested	Virus + (PCR)	Sera tested	Sero positive (ELISA+Ib)
2018 (Jan – Jun)	256	4	31	10

Outbreaks in dp in 2018

- N. 1 - Aritzo, 16 January:
5 heads; 2 dead, 3 sick; origin: contacts with wild boar or free ranging pigs (from Desulo), very poor biosecurity
- N. 2 - Fonni, 12 February:
5 heads, all healthy but found sero+; culled and then found PCR+; origin: unknown, poor biosecurity

Outbreaks in dp in 2018

- N. 3 – Villagrande Strisaili, 18 May
29 heads; 2 dead; origin: under investigation, poor biosecurity

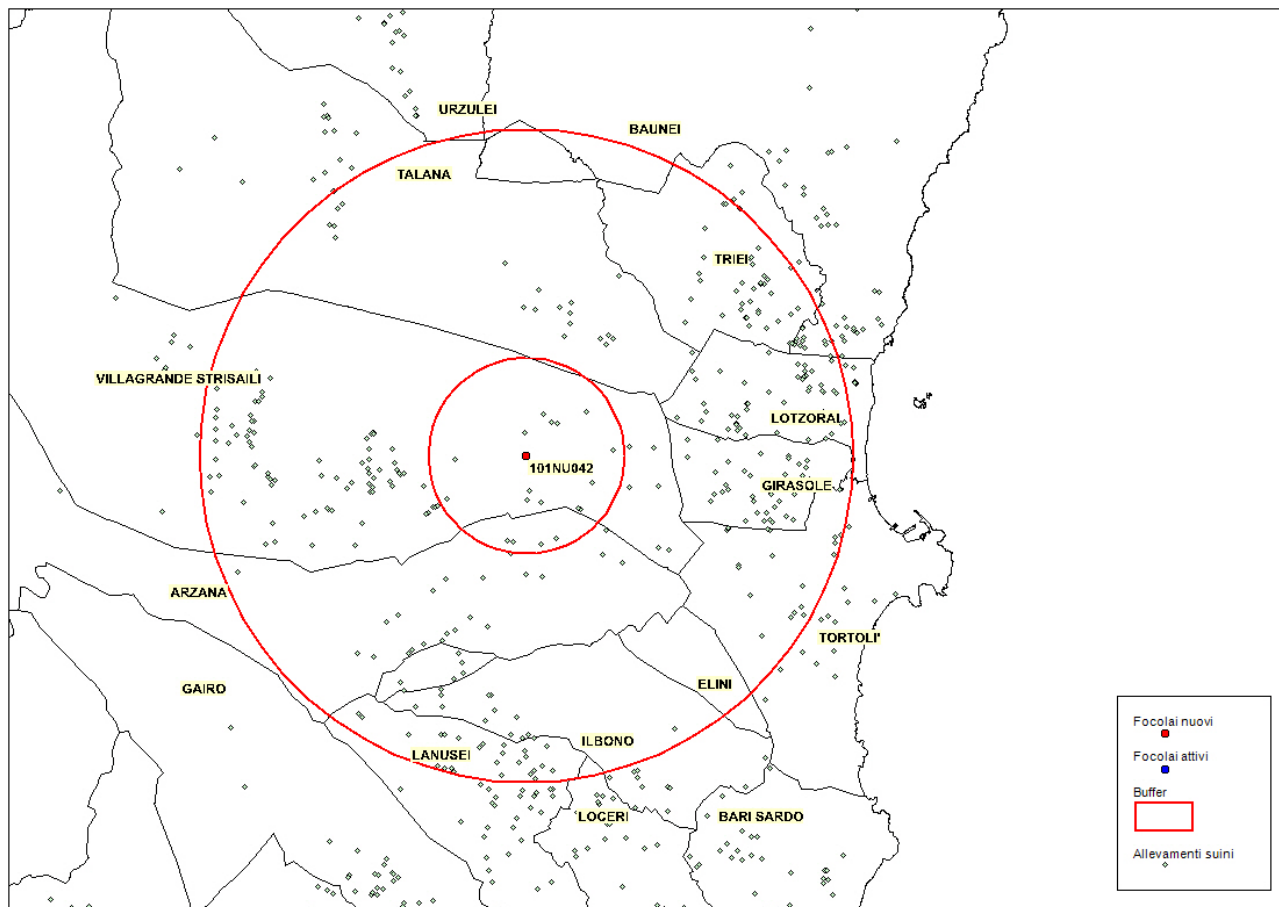
Chronology

- 16 May, one dead
- 17 May, PCR-
- 18 May, one dead, PCR+
- 19 May, culling, sampling, disposal, disinfection
- 22/23 May, samples sero-, PCR-

Recent infection/moderate virulence virus

PZ and SZ

Outbreak Villagrande Strisaili

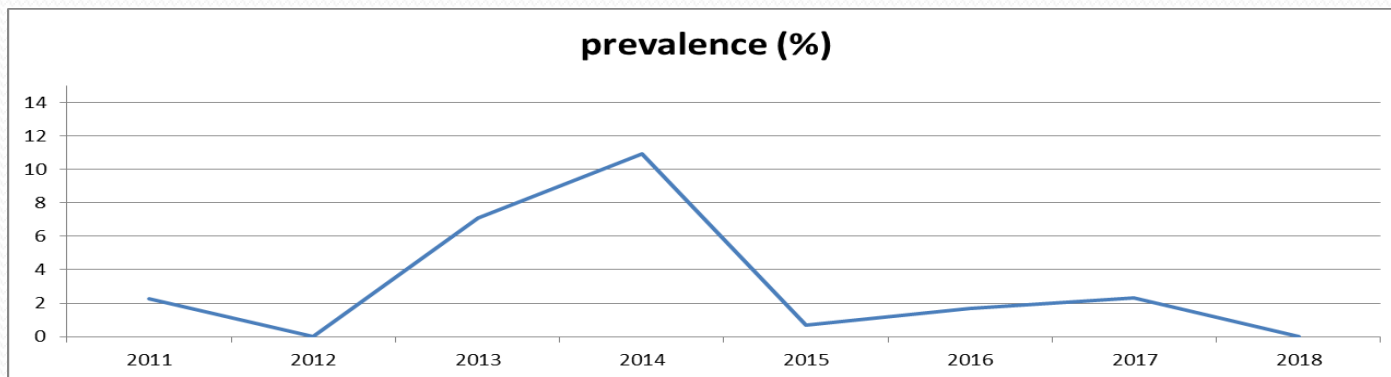
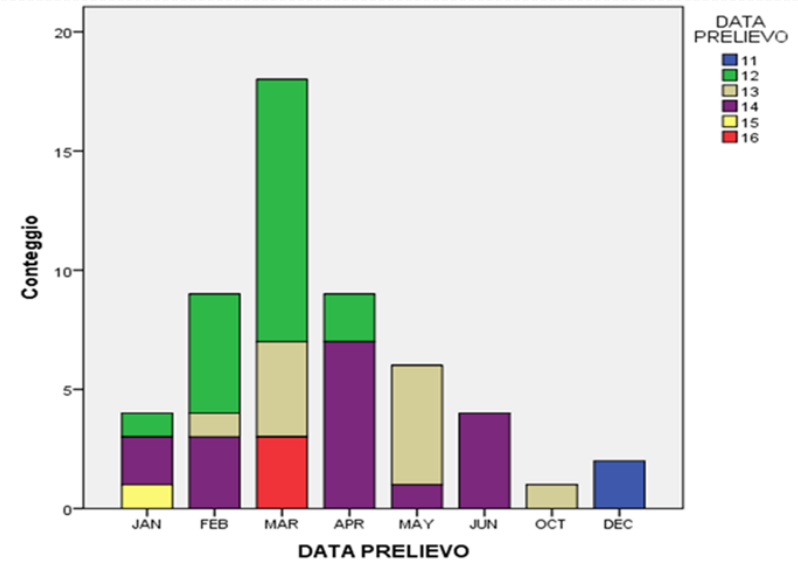


Ongoing controls in pz and sz

- 34 holdings in pz (all already subjected to clinical checks)
- 317 holdings in sz (checks ongoing)
- One contact holding in pz with 27 pigs, 3 sick, depopulated on 25 May; all pigs culled the day after suspicion, sera and organs tested for ASF from both sick and healthy pigs, all negative
- PCR+ carcase of an unidentified, illegal pig found in Lotzorai on 8 June, investigations ongoing

PASSIVE SURVEILLANCE ON WB

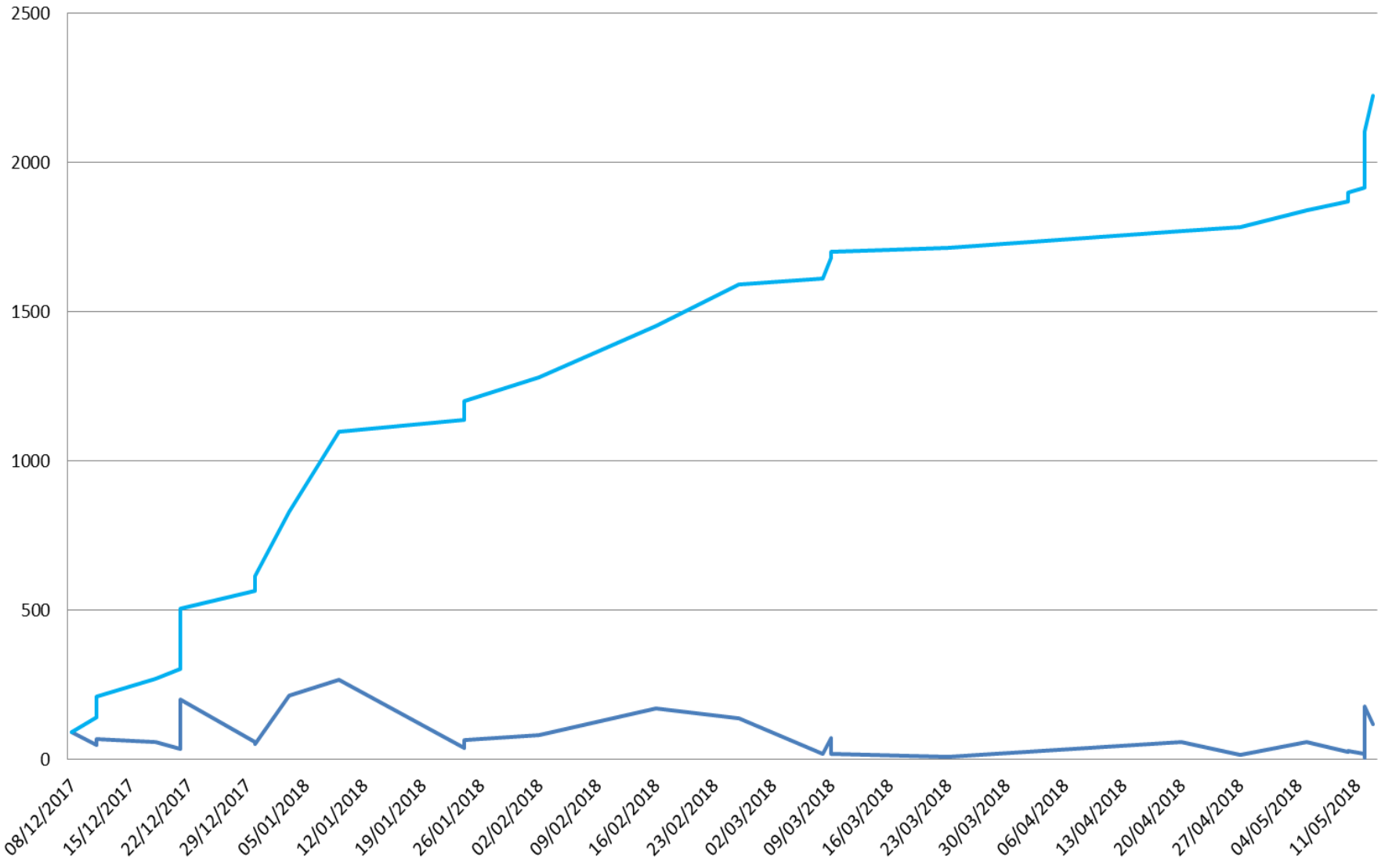
Tear	Tested	PCR +	Virus Prevalence
2011	89	2	2.24 %
2012	124	19	15.32 %
2013	155	11	7.09 %
2014	155	17	10.96 %
2015	146	1	0.68 %
2016	238	4	1.68 %
2017	218	5	2.29 %
2018	58	0	0 %



Culling of free-ranging (or former free-ranging) pigs)

Commune	Data	Culled pigs	Sero tested	Sero positive (ELISA+Ib)	Seroprevalence	Organs tested	Virus (PCR) positive	Virus prevalence
Desulo	08/12/2017	90	85	70	82.35	49	4	8.16
Arzana	11/12/2017	50	46	32	69.57	46	4	8.70
Orgosolo	11/12/2017	70	18	13	72.22	51	1	1.96
Villagrande Strisaili	18/12/2017	60	24	24	100.00	28	4	14.29
Desulo	21/12/2017	35	16	9	56.25	16	0	0.00
Orgosolo	21/12/2017	200	93	69	74.19	103	1	0.97
Talana	30/12/2017	60	39	2	5.13	39	0	0.00
Villagrande strisaili	30/12/2017	51	36	2	5.56	36	0	0.00
Orgosolo	03/01/2018	215	129	105	81.40	132	4	3.03
Orgosolo	09/01/2018	268	112	69	61.61	111	2	1.80
Baunei	24/01/2018	37	37	5	13.51	35	0	0.00
Urzulei	24/01/2018	64	28	0	0.00	26	0	0.00
Orgosolo	02/02/2018	81	40	33	82.50	126	3	2.38
Urzulei	16/02/2018	170	111	60	54.05	239	0	0.00
Nuoro	26/02/2018	139	21	0	0.00	47	0	0.00
Villagrande strisaili	08/03/2018	20	20	4	20.00	20	0	0.00
Orgosolo	09/03/2018	72	60	44	73.33	60	0	0.00
Villagrande strisaili	09/03/2018	20	19	0	0.00	20	0	0.00
Orgosolo	23/03/2018	10	1	1	100.00	2	0	0.00
Orgosolo	20/04/2018	57	49	37	75.51	41	0	0.00
Aritzo	27/04/2018	15	15	9	60.00	15	0	0.00
Nuoro	05/05/2018	57	12	0	0.00	12	0	0.00
Desulo	10/05/2018	27	13	2	15.38	13	0	0.00
Ovodda	10/05/2018	30	13	0	0.00	13	0	0.00
Orosei	12/05/2018	19	17	0	0.00	17	0	0.00
Loculi	12/05/2018	7	6	0	0.00	6	0	0.00
Irgoli	12/05/2018	179	61	0	0.00	61	0	0.00
Orgosolo	13/05/2018	119	64	38	59.38	64	0	0.00
Totale		2227	1190	628	52.20	1433	23	1.59

Culling of free ranging (or former free-ranging) pigs (Dec 2017 – June 2018)



	08/12/2017	11/12/2017	11/12/2017	18/12/2017	21/12/2017	21/12/2017	30/12/2017	30/12/2017	03/01/2018	09/01/2018	24/01/2018	24/01/2018	02/02/2018	16/02/2018	26/02/2018	08/03/2018	09/03/2018	09/03/2018	23/03/2018	20/04/2018	27/04/2018	05/05/2018	10/05/2018	10/05/2018	12/05/2018	12/05/2018	12/05/2018	12/05/2018	13/05/2018
culled pigs	90	50	70	60	35	200	60	51	215	268	37	64	81	170	139	20	72	20	10	57	15	57	27	30	19	7	179	119	
cumulative	90	140	210	270	305	505	565	616	831	1099	1136	1200	1281	1451	1590	1610	1682	1702	1712	1769	1784	1841	1868	1898	1917	1924	2103	2222	

Culling of free-ranging (or former free-ranging) pigs

Situation in Orgosolo

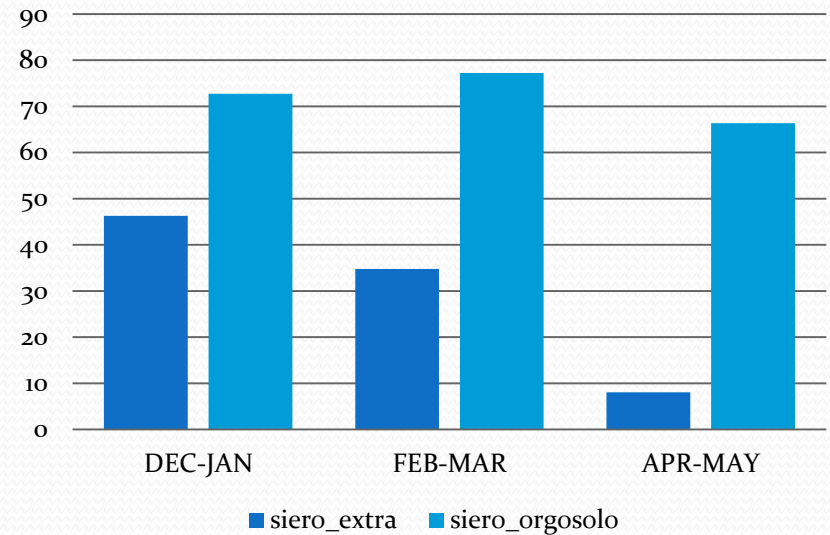
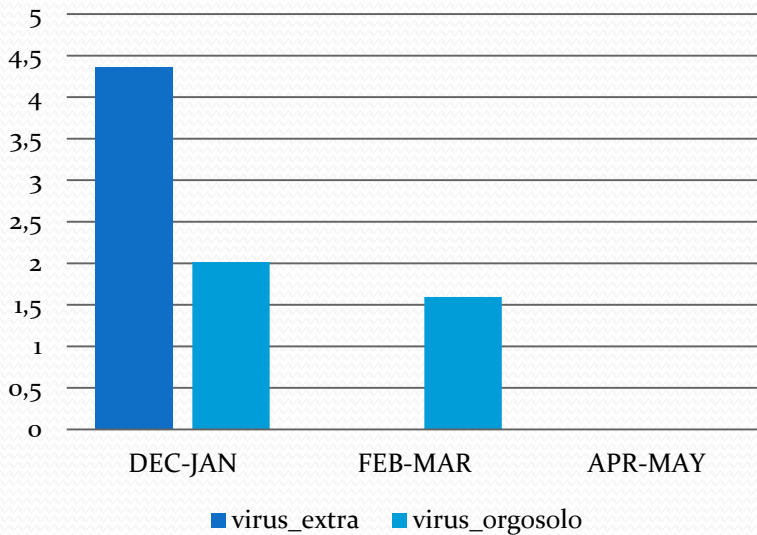
- Almost 1 100 pigs culled
- Very high seroprevalence rates (around 70%, on average) found in all groups of pigs; in several groups spleens also found PCR+
- ASF looks hyperendemic , ASF risk extremely high
- Number and density of these pigs likely to be very important risk factors for ASFV transmission and persistence
- Out of a free ranging pig population of ~ 1 500 free ranging pigs six months ago, only a couple of dozens not culled yet

Culling of free-ranging (or former free-ranging) pigs

Situation in the other Communes (Desulo, Villagrande, Urzulei, etc.)

- More than 1 100 pigs culled
- Variable results on seroprevalence and virus prevalence
- 8 out of 20 groups of pigs culled and tested were ASFV negative, both for virus and Ab
- ASF risk outside Orgosolo (although still high) looks inferior than in Orgosolo

VIRUSPREVALENCE – SEROPREVALENCE in free-ranging pig COMPARISON Orgosolo / Other than ORGOSOLO



Depopulation of free-ranging (or former free-ranging) pigs

Conclusions

- An extremely important source of ASFV (free ranging pigs in Orgosolo) has already been effectively tackled
- In the other neighbouring Communes, the ASF risk posed by the free ranging pigs is most likely lower than in Orgosolo
- Depopulation actions are ongoing
- The objective is to eliminate the risk posed by the free ranging pigs by December 2018

Conclusions (general)

- The ASF situation has gradually improved in the last years
- The situation has further improved in the last six months when unprecedented measures have been taken in the free ranging pig situation
- ASF eradication measures are being further strengthened and fine tuned. They will continue to apply in the next months



To win is not important

... is the only thing that matters