

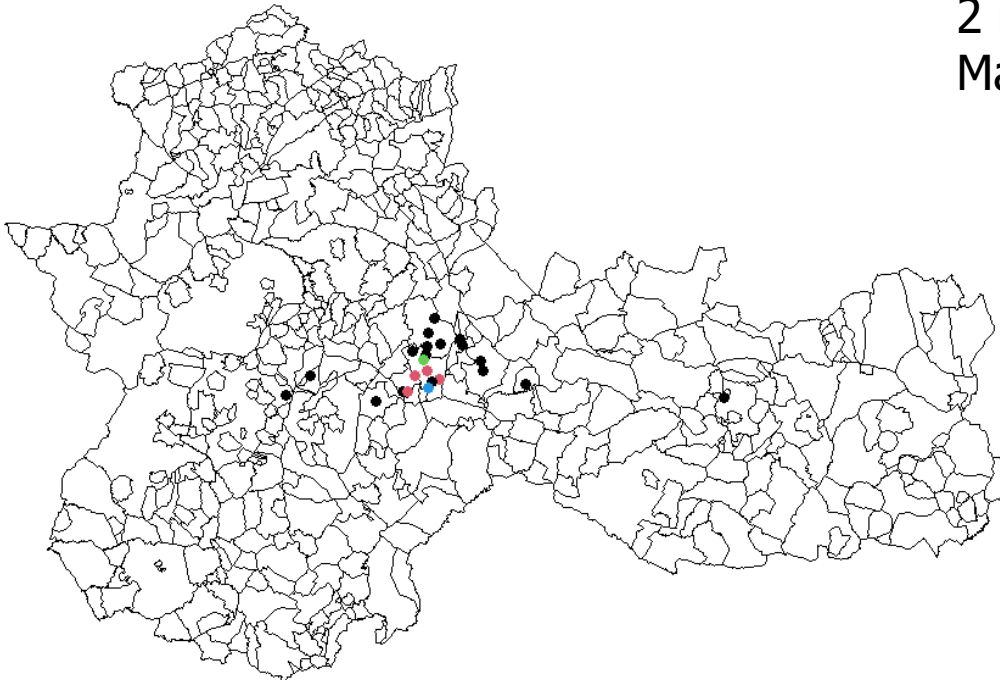
Anthrax outbreaks in Spain August-November 2021



PAFF COMMITTEE, 16th November 2021

23 outbreaks from 19/08 to 26/10 (suspicion dates of confirmed cases)

2 regions affected: Castilla la Mancha and Extremadura



PREVIOUS LAST CONFIRMED CASE: 2004

FIRST OUTBREAK: MALAGÓN (CASTILLA LA MANCHA)

Outbreak ES-ANTHRAX-2021-00001

Country:	España (ES)
Disease name:	Carbunco bacteridiano
Type:	Primary
National reference:	2021/1
Related outbreak:	—
Local authority unit:	Ciudad Real (ES18807) España (ES)

Location	
Latitude:	39.0094271
Longitude:	-4.0388391
Administrative division:	n.a. (80) (Level 3)



Suspected pasture area usually covered by the Guadiana River, which has been exposed by the drop in flow. Only animals that have grazed in this area have been affected. None of the animals that are in the fattening area without going out to pasture have been affected. All animals have been removed from the suspect area. The animals on the farm have been vaccinated with Antravax vaccine

Suspicion date/Start date:	19/08/2021
Fecha de confirmación:	01/09/2021

Especies	Measuring unit	Susceptible	Affected species			
			Cases	Dead	Killed	Slaughtered
Cattle	Animals	339	25	25	0	0

FIRST OUTBREAK: MALAGÓN (CASTILLA LA MANCHA)



MINISTERIO DE AGRICULTURA, PESCA Y ALIMENTACIÓN

DIRECCIÓN GENERAL DE SANIDAD DE LA PRODUCCIÓN AGRARIA
SUBDIRECCIÓN GENERAL DE SANIDAD E HIGIENE ANIMAL Y TRAZABILIDAD

Carbunco bacteridiano o ántrax

<https://www.mapa.gob.es/es/ganaderia/temas/sanidad-animal-higiene-ganadera/sanidad-animal/enfermedades/Carbunco%20bacteridiano.aspx>

From 17 to 20th August: 14 cows dead.

Removal of animals from suspected pasture and quarantine.

Official removal of carcasses, cleaning and disinfection, rendering plant.

Vaccination with Antravax.

11 additional deaths until 30th August.

No additional cases in the zone.





OUTBREAKS IN EXTREMADURA

First suspicion: 25/08/2021 horse in Navalvillar de Pela

Outbreak ES-ANTHRAX-2021-00002

Country: España (ES)
 Disease name: Carunco bacteridiano
 Type: Primary
 National reference: 2021/2
 Related outbreak: —
 Local authority unit: Badajoz (ES27410)
 España (ES)

Location
 Latitude: 39.1112166
 Longitude: -5.48879772
 Administrative division: n.a. (40) (Level 3)



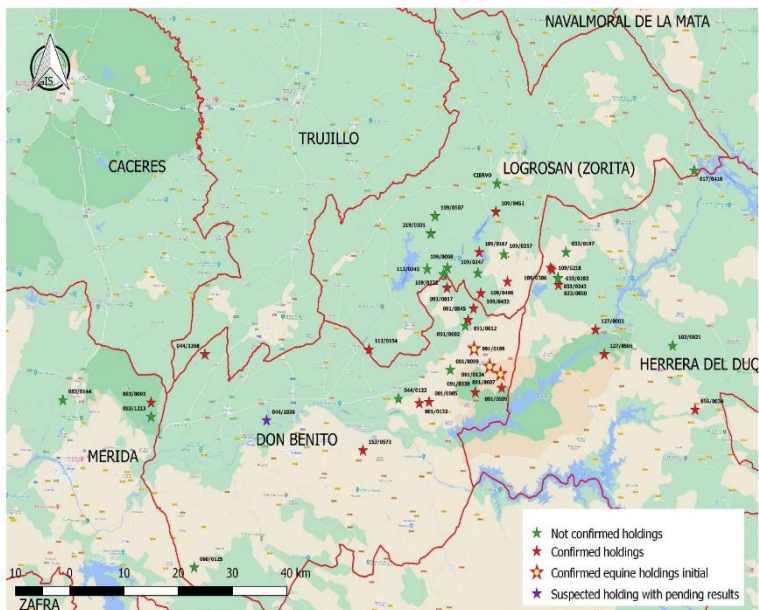
Especies	Measuring unit	Susceptible	Affected species			
			Cases	Dead	Killed	Slaughtered
Equidae (dom)	Animals	3	1	1	—	—

Suspicion date/Start date: 25/08/2021
 Fecha de confirmación: 06/09/2021



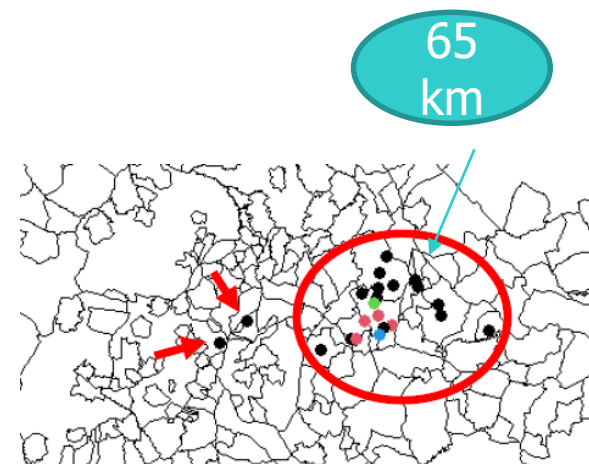
GOBIERNO DE ESPAÑA

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MUNICIPALITY	NOT CONFIRMED HOLDINGS	DEAD HORSES	DEAD BOVINES	DEAD PIGS
ACEDERA	2	3	2	1
ALÍA	1		2	
ALMENDRALEJO	1	1		
ALMOHARÍN	1	1		
CASAS DE DON PEDRO	5	3	19	
CASTUERA	1		1	
DON BENITO	1		1	
GUAREÑA	1		2	
LOGROSÁN	6		19	
MADRIGALEJO	1		1	
MÉRIDA	2		1	
NAVALVILLAR DE PELA	9	6	6	
TALARRUBIAS	1		13	
VILLANUEVA DE LA SERENA	1	0		
Total	33	14	67	1

MUNICIPALITY	CONFIRMED HOLDINGS	DEAD HORSES	DEAD BOVINES	DEAD PIGS
ACEDERA	2	1	11	
CASAS DE DON PEDRO	2		7	
DON BENITO	1	1	12	
GARBAYUELA	1		1	
LOGROSÁN	5		20	
MADRIGALEJO	1		7	
MÉRIDA	1		7	
NAVALVILLAR DE PELA	7	3	31	5
TALARRUBIAS	2		19	
VILLANUEVA DE LA SERENA	1		2	
Total general	23	5	117	5

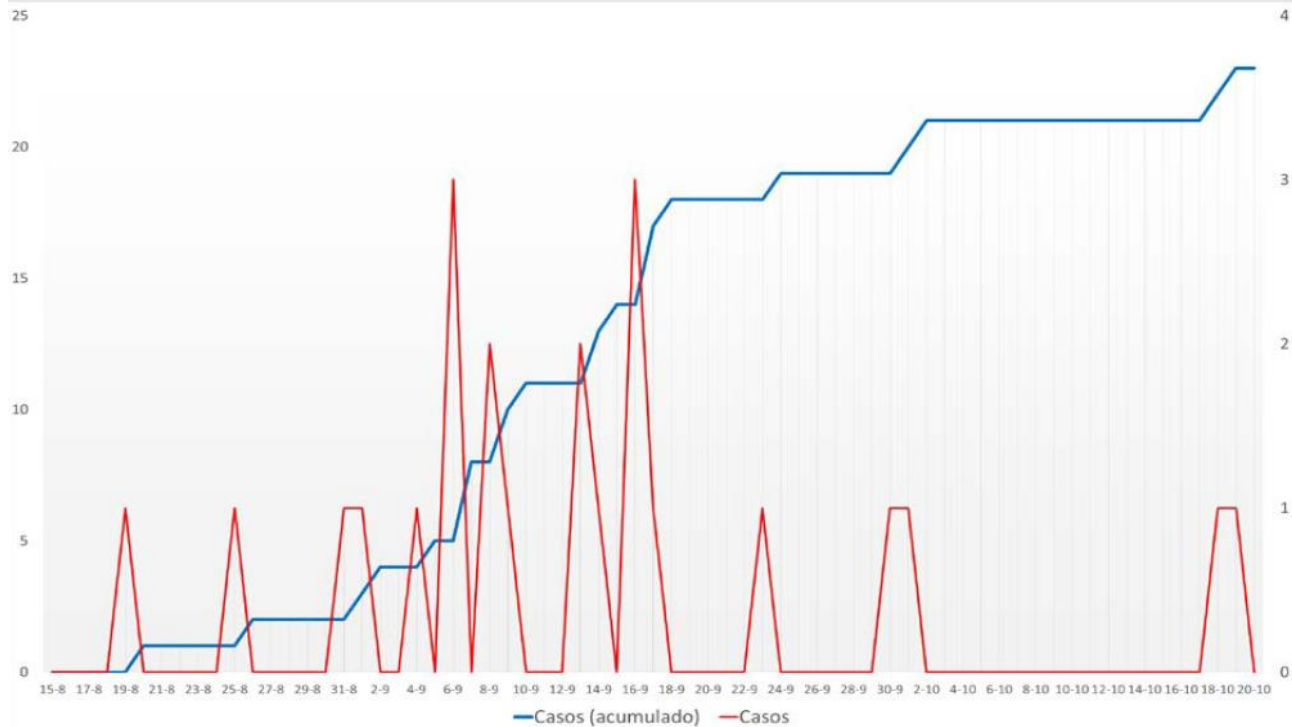
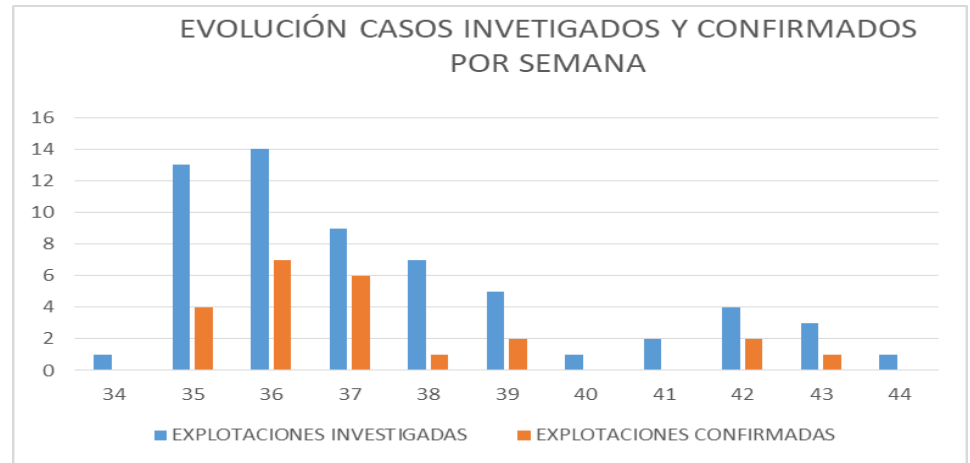




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Outbreaks/week from 25/08 to 26/10 (suspicion dates)





IMPLEMENTED MEASURES

Sampling of all suspected cases (NRL Santa Fe)

Burial under biosafety conditions

Quarantine

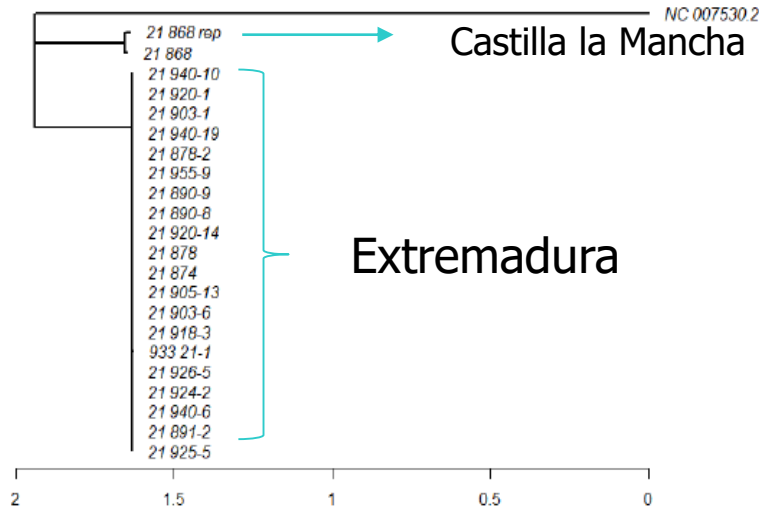
Epidemiological survey

Vaccination with Antravax



	Vaccinated holdings	Vaccinated animals
Equines	12	123
Bovines	33	5335
Ovines	5	2692
Swine	6	944
Total	56	9094

Samples taken from animals (+),
water, soil (+), feed, insects
(mosquitoes, tabanids +)

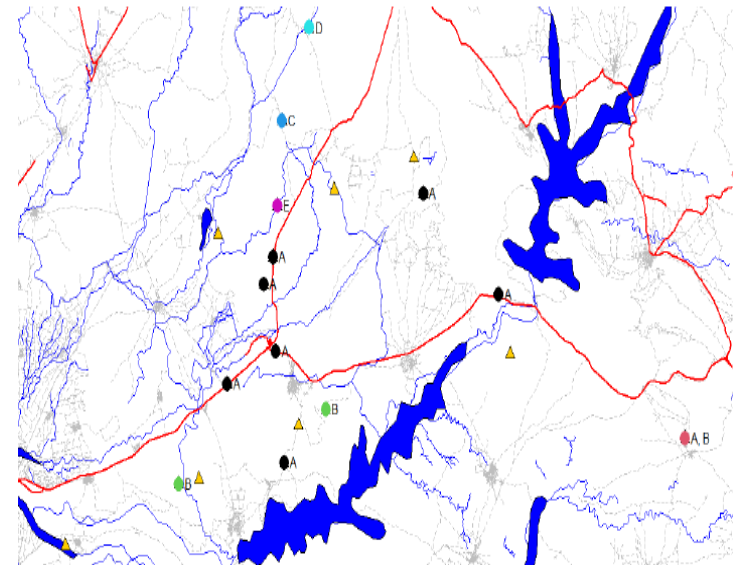
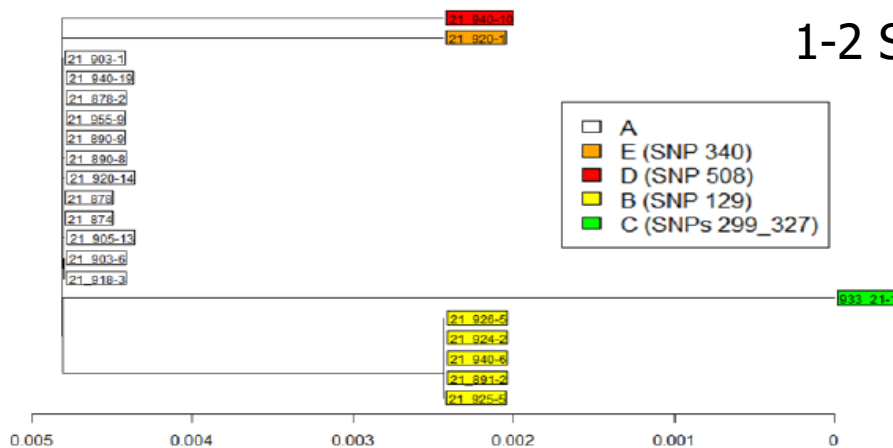


WGS: 2 DIFFERENT EVENTS

Pending results of some strains (animals, soil, insects)

Cepas de *B. anthracis* en Extremadura

1-2 SNPs



PREELIMINAR CONCLUSIONS

No epidemiological relationship between cases of the two regions (WGS)

Castilla la Mancha: soil (pastures contaminated with *B. anthracis* spores)

Extremadura: multifactorial causes:

Possible initial causes:

- Drop in flow of several swamps (Guadiana river basin)
- Movement of lands (changes in agricultural use)
- Contaminated water courses



Secondary cases:

- Tabanid flies (++)
- Transport vehicles ??

Few animals affected by holding
Most cases 50 km radius

STILL UNDER INVESTIGATION

Thank you