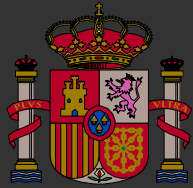


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Y MEDIO RURAL Y MARINO

INFORMATION FROM SPAIN ON HIGHLY PATHOGENIC AVIAN INFLUENZA (H7) SITUATION

S. G. Sanidad de la Producción Primaria

SCoFCAH, October 16th, 2009

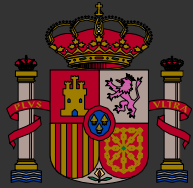


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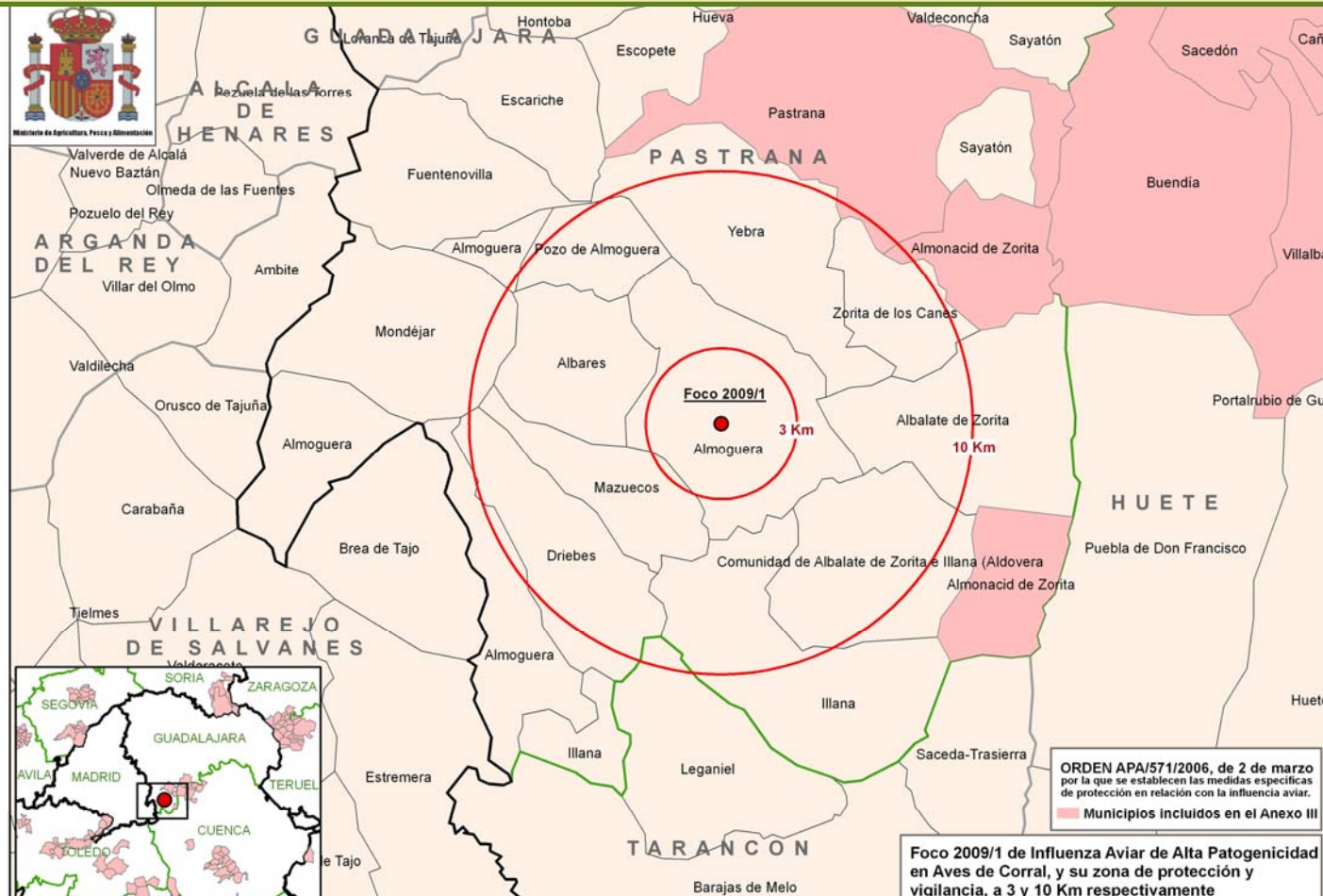
HPAI H7 IN SPAIN



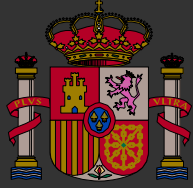
**FIRST HPAI H7 OUTBREAK IN POULTRY (LAYING HENS) IN SPAIN
JUNTA DE COMUNIDADES DE CASTILLA LA MANCHA**



HPAI H7 IN SPAIN. FARM UBICATION



**ALMOGUERA (GUADALAJARA).
JUNTA DE COMUNIDADES DE CASTILLA-LA MANCHA**



HPAI H7 IN SPAIN. OUTBREAK CRONOLOGY

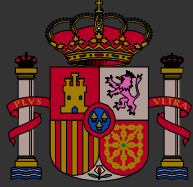
- October 9th. Suspicion. Two of the 5 existing flocks show increased mortality rates (4 and 50%). Inmovilization and sampling.
- October 11st. Confirmation. NRL (Algete) confirms HPAI H7 through PCR and secuentionation.
- October 12nd. Stamping out beginning.
- October 13rd: ADNS outbreak notification.



HPAI H7 IN SPAIN. EPIDEMIOLOGICAL INFORMATION



- 308.640 hens aprox
- 5 flocks, 4 of them close proximity, common caretaking
- Good biosecurity measures in place

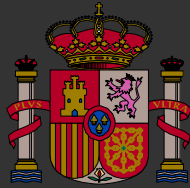


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HPAI H7 IN SPAIN. MEASURES ADOPTED



MEASURES ADOPTED (1)
Epidemiological survey
Movements control
Stamping out



HPAI H7 IN SPAIN. EPIDEMIOLOGICAL INFORMATION

EXPLORACIÓN: ES190210000016

DENOMINACIÓN: GRANJAS SEGURA

Periodo Desde: 01-ENE-09

Hasta: 10-OCT-09

Cod. Movimiento	Estado	Familia Animal	F. Salida	Explot. Origen	F. Llegada	Explot. Destino	Especie	Categoría	Iº Animales
070038200900000281	En Curso	AVES DE CORRAL	13/03/2009	ES190210000016	13/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000287	Generada	AVES DE CORRAL	16/03/2009	ES190210000016	16/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000288	Generada	AVES DE CORRAL	16/03/2009	ES190210000016	16/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000304	Generada	AVES DE CORRAL	18/03/2009	ES190210000016	18/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000311	Generada	AVES DE CORRAL	20/03/2009	ES190210000016	20/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000316	Generada	AVES DE CORRAL	23/03/2009	ES190210000016	23/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000317	Generada	AVES DE CORRAL	23/03/2009	ES190210000016	23/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000328	Generada	AVES DE CORRAL	25/03/2009	ES190210000016	25/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000329	Generada	AVES DE CORRAL	25/03/2009	ES190210000016	25/03/2009	ES280910000018	GALLINAS	Sin Categoría	7200
070038200900000342	Generada	AVES DE CORRAL	27/03/2009	ES190210000016	27/03/2009	ES280910000018	GALLINAS	Sin Categoría	720

EXPLORACIÓN: ES190210000016

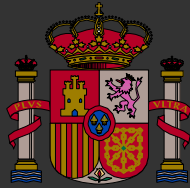
DENOMINACIÓN: GRANJAS SEGURA

Periodo Desde: 01-ENE-09

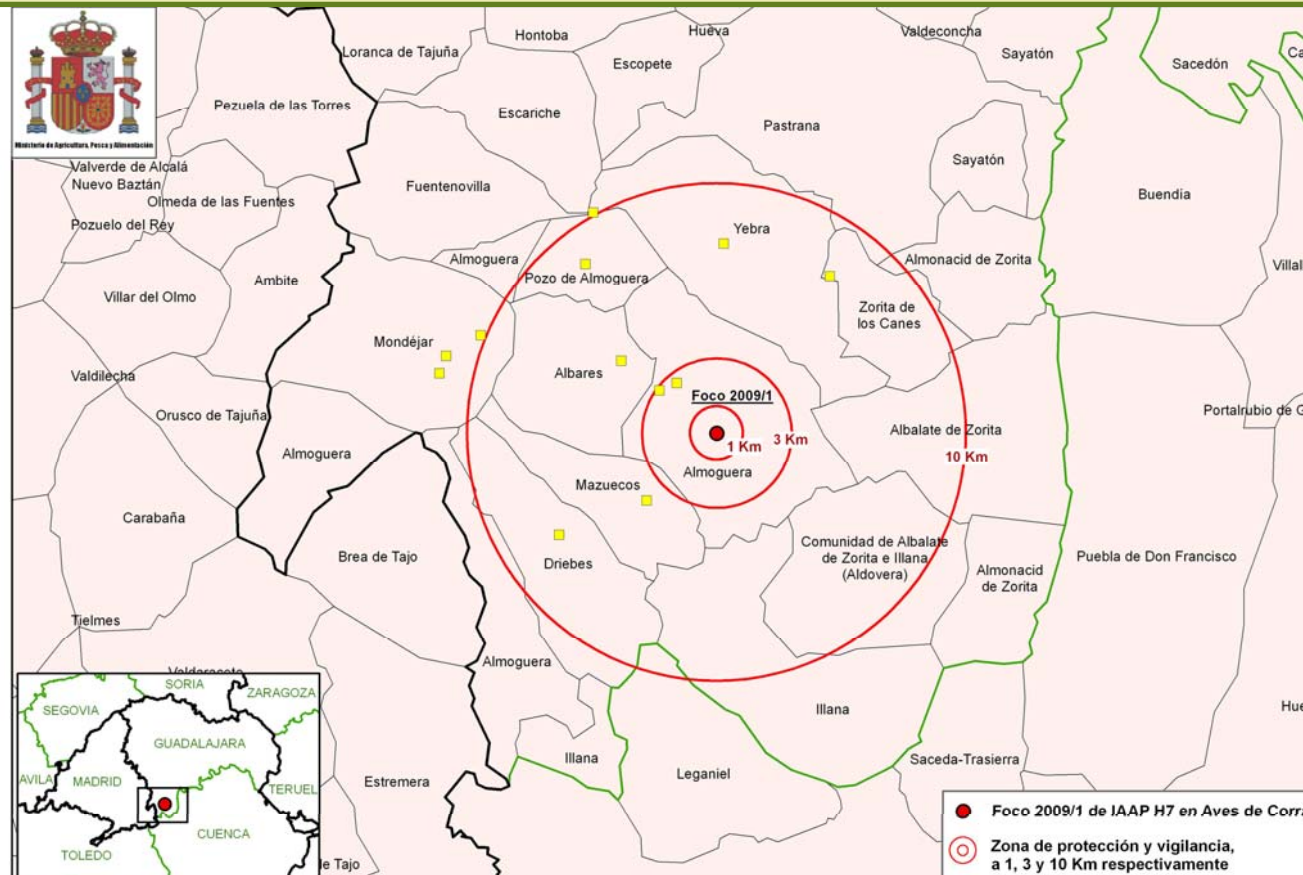
Hasta: 10-OCT-09

Cod. Movimiento	Estado	Familia Animal	F. Salida	Explot. Origen	F. Llegada	Explot. Destino	Especie	Categoría	Iº Animales
070030200900000503	Generada	AVES DE CORRAL	06/05/2009	ES161880000025	06/05/2009	ES190210000016	GALLINAS	Sin Categoría	9000
070030200900000504	Generada	AVES DE CORRAL	06/05/2009	ES161880000025	06/05/2009	ES190210000016	GALLINAS	Sin Categoría	9000
070030200900000506	Generada	AVES DE CORRAL	07/05/2009	ES161880000025	07/05/2009	ES190210000016	GALLINAS	Sin Categoría	9000

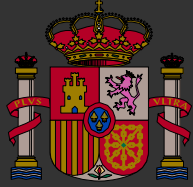
No recent movements to/from farm: last entry dated in March; last movement out to slaughtering in May



HPAI H7 IN SPAIN. LINKED FARMS



- 2 AVIAN FARMS & 1 PIG FARM WITHIN 3 KM
- 7 AVIAN FARMS WITHIN 10 KM
- ANOTHER 3 FARMS WITHIN 12 KM



HPAI H7 IN SPAIN. LINKED FARMS

CODE	MUNICIPALITY	FLOCKS		NUMBER ANIMALS	
		prod.	cría	prod.	cría
1	Almoguera	6	1	298.000	160.000
2	Almoguera	4	1	222.080	180.000
				520.080	340.000

CODE	MUNICIPALITY	NUMBER ANIMALS			
		lechones	recría	cerdas	verracos
1	Almoguera	360	550	303	1

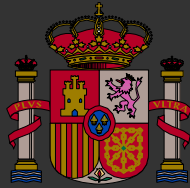
total 1214

CODE	MUNICIPALITY	FLOCKS		NUMBER ANIMALS	
		prod.	cría	prod.	cría
1	Mazuecos	3		35.000	
2	Albares	3		41.650	
3	Driebes	2		39.456	
4	Pozo de Almoguera	1		33.000	
5	Yebra	5	1	475.000	200.000
6	Yebra	2		47.000	
7	Yebra	2	1	156.768	162.500
				827.874	362.500

**- 860.080
animals in
avian farms
within 3 km**

**- 1.214 pigs
within 3 Km**

**- 1.190.374
animals in
avian farms
within 10 Km**

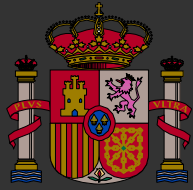


HPAI H7 IN SPAIN. MEASURES ADOPTED

PROTECTION ZONE						
FARM NUMBER	MUNICIPALITY	FLOCKS	Nº SAMPLES		RESULTS	
			Swabs	Sera	RT-PCR	IH 7
POULTRY FARM			Swabs	Sera	RT-PCR	IH 7
1	Almoguera	7	28	140	-	-
2	Almoguera	5	20	100	-	-
PORCINE FARM			Swabs	Sera	RT-PCR	IH 7
1	Almoguera	1	33	20	-	-
SURVEILLANCE ZONE						
FARM NUMBER	MUNICIPALITY	FLOCKS	Nº SAMPLES		RESULTS	
			Swabs	Sera	RT-PCR	IH 7
1	Mazuecos	3	12	60	-	-
2	Albares	3	12	60	-	-
3	Driebes	2	8	40	-	-
4	Pozo de Almoguera	1	4	20	-	-
5	Yebra	6	24	120	-	-
6	Yebra	2	8	40	-	-
7	Yebra	3	12	60	-	-

MEASURES ADOPTED (2)

Surrounding & linked farms clinical and production control and sampling



HPAI H7 IN SPAIN. MEASURES ADOPTED



MEASURES ADOPTED (3)

- Banning of feathered game releasing
- Informative meetings held with local vets, hunters and farmers
- Increased wild bird surveillance



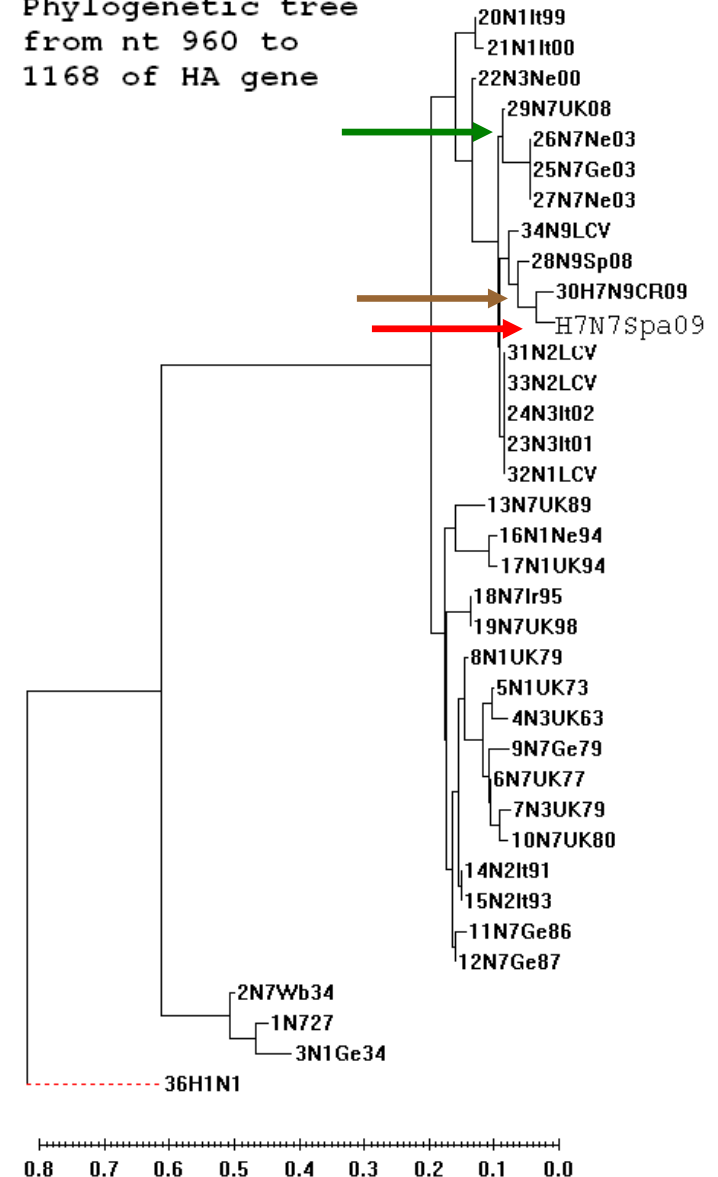


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HPAI H7 IN SPAIN. VIRUS CHARACTERIZATION

**H7N7
UNRELATED TO UK
2008 H7N7**

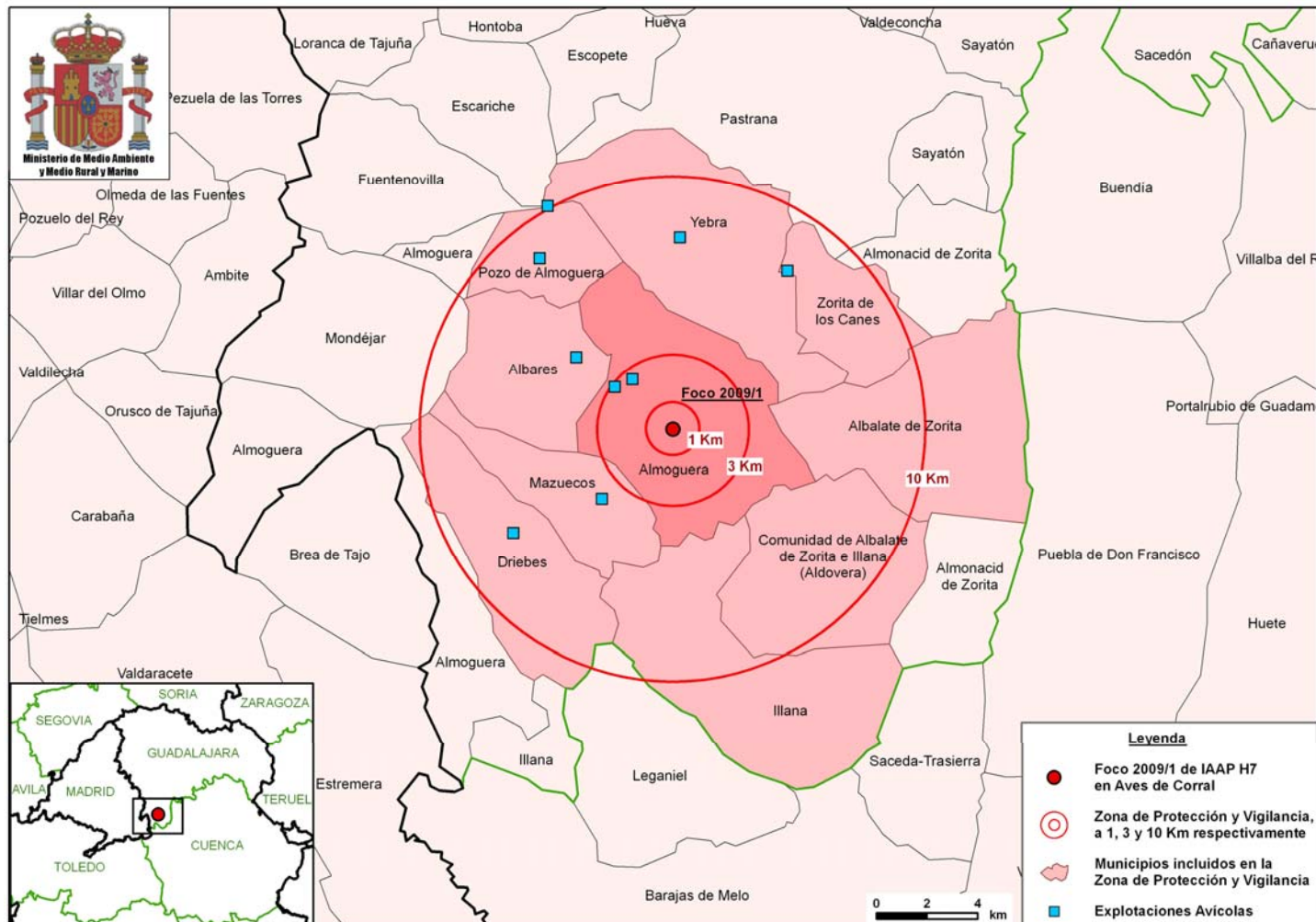
Phylogenetic tree
from nt 960 to
1168 of HA gene



Dendrogram obtained by neighbor-joining
Date: 16/10/2009 time: 9:30:36
Nucleotide distance : Jukes & Cantor (Susbt. per site)
Indeterminations : Remove all undefined sites
Deletions : Remove all sites with deletions



HPAI H7 IN SPAIN. PROPOSAL OF ZONIFICATION





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