

South Africa - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 2

GENERAL INFORMATION

COUNTRY/TERRITORY OR ZONE	ANIMAL TYPE	DISEASE CATEGORY	EVENT ID
COUNTRY/TERRITORY	TERRESTRIAL	Listed disease	6732
DISEASE	CAUSAL AGENT	GENOTYPE / SEROTYPE / SUBTYPE	START DATE
Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	Highly pathogenic avian influenza virus	H5N1	2025/05/01
REASON FOR NOTIFICATION	DATE OF LAST OCCURRENCE	CONFIRMATION DATE	EVENT STATUS
Recurrence of an eradicated strain	2023/02/27	2025/07/04	On-going
END DATE	SELF-DECLARATION		
-	NO		

REPORT INFORMATION

REPORT NUMBER	REPORT ID	REPORT REFERENCE	REPORT DATE
Follow-up report 2	FUR_176702	HPAI_H5_W_2025_FU02	2025/09/22
REPORT STATUS	NO EVOLUTION REPORT		
Validated	-		

EPIDEMIOLOGY

SOURCE OF EVENT OR ORIGIN OF INFECTION

- Contact with wild species

EPIDEMIOLOGICAL COMMENTS

No epidemiological comment

QUANTITATIVE DATA SUMMARY

MEASURING UNIT

Animal

Species		Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
black goshawk (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	1	1	0	0	0
egyptian goose (wild)	NEW	-	3	3	0	0	0
	TOTAL	-	3	3	0	0	0

birds (domestic)	NEW	1012	235	233	0	0	0
	TOTAL	1024	242	240	0	0	0
grey-headed gull (wild)	NEW	-	1	0	1	0	0
	TOTAL	-	5	1	4	0	0
hartlaub's gull (wild)	NEW	-	1	1	0	0	0
	TOTAL	-	409	323	86	0	0
kelp gull (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	4	0	4	0	0
crowned cormorant (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	2	2	0	0	0
whimbrel (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	1	1	0	0	0
great white pelican (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	11	11	0	0	0
cape cormorant (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	3	1	2	0	0
common tern (wild)	NEW	-	2	0	2	0	0
	TOTAL	-	5	1	4	0	0
swift tern (wild)	NEW	-	2	1	1	0	0
	TOTAL	-	4	2	2	0	0
sacred ibis (wild)	NEW	-	2	2	0	0	0
	TOTAL	-	4	2	2	0	0
reed cormorant (wild)	NEW	-	1	0	1	0	0
	TOTAL	-	1	0	1	0	0
all species	NEW	1012	247	240	5	0	0
	TOTAL	1024	695	588	105	0	0

DIAGNOSTIC DETAILS

CLINICAL SIGNS

YES

METHOD OF DIAGNOSTIC

Clinical,
Diagnostic test

Test name	Laboratory	Species sampled	Number of outbreaks sampled	First result date	Latest result date	Result
Polymerase chain reaction (PCR)	Onderstepoort Veterinary Institute (OVI)	Great White Pelican	1	2025/07/04	2025/07/04	Positive

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

DOMESTIC ANIMALS

WILD ANIMALS

NEW OUTBREAKS

OB_164819 - HPAI_H5_W_2025_019 - HPAI_H5_W_2025_019

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_019	2025/08/24	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Gauteng	City of Tshwane	City of Tshwane	Backyard
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_019	-26.0 , 28.5 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
birds (domestic) non-poultry birds	NEW	530	12	12	0	0	0
	TOTAL	530	12	12	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164818 - HPAI_H5_W_2025_018 - HPAI_H5_W_2025_018

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_018	2025/08/01	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	Garden Route	Hessequa	Backyard
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_018	-34.1 , 20.8 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Chickens, domestic geese, peacock and domestic pigeons

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
birds (domestic) non-poultry birds	NEW	332	140	140	0	0	0
	TOTAL	332	140	140	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164817 - HPAI_H5_W_2025_017 - HPAI_H5_W_2025_017

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_017	2025/08/19	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	City of Cape Town	City of Cape Town	Backyard
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_017	-34.0 , 18.5 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
birds (domestic) non-poultry birds	NEW	100	57	55	0	0	0
	TOTAL	100	57	55	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164816 - HPAI_H5_W_2025_016 - HPAI_H5_W_2025_016

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_016	2025/08/07	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	Overberg	Overstrand	Farm
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_016	-34.6 , 19.5 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Domestic geese

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
egyptian goose (wild)	NEW	-	3	3	0	0	0
wild	TOTAL	-	3	3	0	0	0
birds (domestic) non-poultry birds	NEW	50	25	25	0	0	0
	TOTAL	50	25	25	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164815 - HPAI_H5_W_2025_015 - HPAI_H5_W_2025_015

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_015	2025/09/05	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Gauteng	City of Tshwane	City of Tshwane	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_015	-25.8 , 28.3 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
grey-headed gull (wild) wild	NEW	-	1	0	1	0	0
	TOTAL	-	1	0	1	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164814 - HPAI_H5_W_2025_014 - HPAI_H5_W_2025_014

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_014	2025/08/08	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	City of Cape Town	City of Cape Town	Zoo
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_014	-34.0 , 18.4 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
birds (domestic) non-poultry birds	NEW	-	1	1	0	0	0
	TOTAL	-	1	1	0	0	0
sacred ibis (wild) wild	NEW	-	1	1	0	0	0
	TOTAL	-	1	1	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164813 - HPAI_H5_W_2025_013 - HPAI_H5_W_2025_013

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_013	2025/08/10	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	West Coast	Saldanha Bay	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_013	-32.8 , 18.1 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
sacred ibis (wild)	NEW	-	1	1	0	0	0
wild	TOTAL	-	1	1	0	0	0
common tern (wild)	NEW	-	2	0	2	0	0
wild	TOTAL	-	2	0	2	0	0
hartlaub's gull (wild)	NEW	-	1	1	0	0	0
wild	TOTAL	-	1	1	0	0	0
swift tern (wild)	NEW	-	1	1	0	0	0
wild	TOTAL	-	1	1	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164812 - HPAI_H5_W_2025_012 - HPAI_H5_W_2025_012

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_012	2025/08/25	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	West Coast	Saldanha Bay	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_012	-33.0 , 18.0 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
reed cormorant	NEW	-	1	0	1	0	0

(wild) wild	TOTAL	-	1	0	1	0	0
swift tern (wild)	NEW	-	1	0	1	0	0
wild	TOTAL	-	1	0	1	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED ADDITIONAL MEASURES

-

UPDATED OUTBREAKS

OB_164158 - HPAI_H5_W_2025_011 - HPAI_H5_W_2025_011

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_011	2025/08/04	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	Cape Winelands	Stellenbosch	Backyard
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_011	-33.8 , 18.9 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Domestic geese

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
birds (domestic) non-poultry birds	NEW	-	-	-	-	-	-
	TOTAL	12	7	7	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED ADDITIONAL MEASURES

-

OB_164062 - HPAI_H5_W_2025_005 - HPAI_H5_W_2025_005

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_005	2025/07/21	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	City of Cape Town	City of Cape Town	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_005	-34.1 , 18.4 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
hartlaub's gull (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	4	1	3	0	0
cape cormorant (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	2	0	2	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

-

OB_164066 - HPAI_H5_W_2025_006 - HPAI_H5_W_2025_006

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_006	2025/07/21	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	Overberg	Overstrand	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_006	-34.3 , 18.9 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
hartlaub's gull (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	2	2	0	0	0
crowned cormorant (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	2	2	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

-

OB_164074 - HPAI_H5_W_2025_010 - HPAI_H5_W_2025_010

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_010	2025/07/17	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	City of Cape Town	City of Cape Town	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
hartlaub's gull (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	13	0	13	0	0
sacred ibis (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	0	2	0	0
grey-headed gull (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	0	2	0	0
common tern (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	1	0	1	0	0
kelp gull (wild)	NEW	-	-	-	-	-	-
	TOTAL	-	4	0	4	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164060 - HPAI_H5_W_2025_004 - HPAI_H5_W_2025_004

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_004	2025/07/21	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	City of Cape Town	City of Cape Town	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_004	-33.8167 , 18.3747	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
common tern (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	1	1	0	0
swift tern (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	1	1	-	-
hartlaub's gull (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	387	317	70	0	0
grey-headed gull (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	1	1	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164071 - HPAI_H5_W_2025_009 - HPAI_H5_W_2025_009

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_009	2025/08/08	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	West Coast	Cederberg	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_009	-32.3 , 18.4 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
cape cormorant (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	1	1	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-

-

OB_164069 - HPAI_H5_W_2025_008 - HPAI_H5_W_2025_008

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_008	2025/08/08	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	Overberg	Overstrand	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_008	-34.6828 , 19.4169 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
whimbrel (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	1	1	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

-

OB_164067 - HPAI_H5_W_2025_007 - HPAI_H5_W_2025_007

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
HPAI_H5_W_2025_007	2025/08/14	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Western Cape	West Coast	Swartland	Other
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
HPAI_H5_W_2025_007	-33.426 , 18.0885 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

-

Species	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
hartlaub's gull	NEW	-	-	-	-	-	-
(wild) wild	TOTAL	-	1	1	0	0	0

METHOD OF DIAGNOSTIC

-

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

-