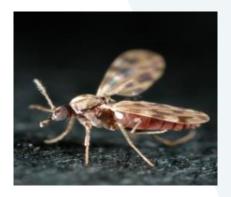
Austrian's experience with BTV-outbreaks

Current situation & ongoing developments



WOAH- EEC - BT & FMD Seminar Ulrich Herzog Section III - Consumer policy and consumer health BMSGPK, 30.06.2025

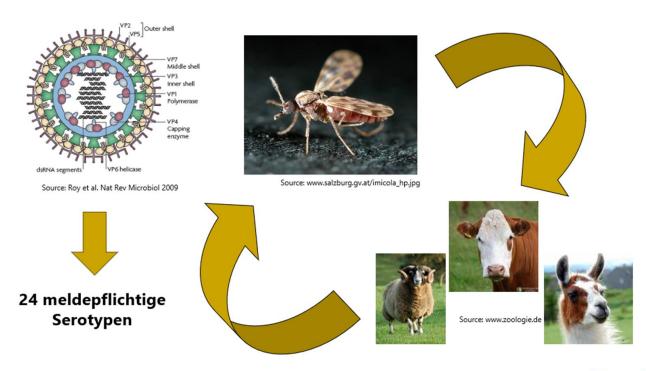


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Bluetongue transmission route



Mensch nicht empfänglich!



Size comparison of midge - mosquito



Image license:

https://commons.wikimedia.org/wiki/File:Mosquito_(Ochlerotatus_annulipes)_and_Midge_(Culicoides_impunctatus)_biting_human_(me).jpg Dunpharlain, CC BY-SA 4.0 https://creativecommons.org/licenses/by-sa/4.0, via Wikimedia Commons

Republic of Austria

ministry of social affairs.at



Clinical symptoms of BTV-3 infection I

Holwerda et al, bioRxiv 2024



bioRxiv preprint doi: https://doi.org/10.1101/2023.09.29.560138; this version posted September 29, 2023. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under a CC-BY-NC-ND 4.0 International license.

Clinical symptoms BTV-3 infection II



Rötungen, Erosionen und Entzündung am Flotzmaul mit starkem Speichelfluss

Umfangreiche entzündliche Erosionen am Flotzmaul, streifenförmige Hautablösung am Übergang Haut und Schleimhaut

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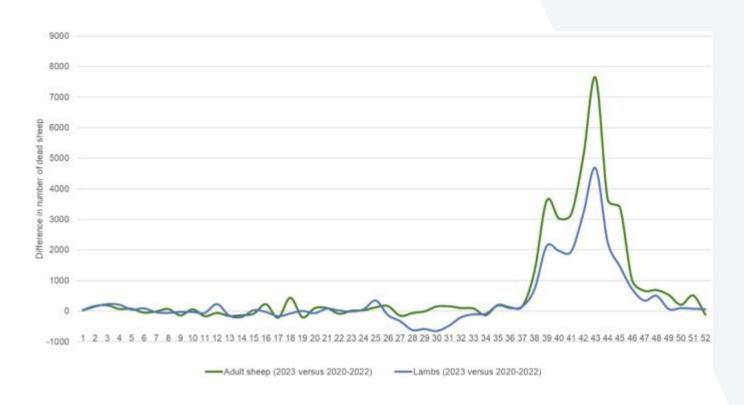
Past BT outbreaks in Austria

Serotypes BTV-8 and BTV-4

Jahr	Bundesland	Bezirk	Betriebe	Infizierte Tiere	BTV-Serotyp
2008	Oberösterreich	Schärding	5	10	BTV-8
2008	Vorarlberg	Bregenz	1	1	BTV-8
2009	Oberösterreich	Schärding	8	14	BTV-8
2009	Vorarlberg	Bregenz	1	1	BTV-8
2009	Vorarlberg	Bludenz	1	1	BTV-8
2009	Salzburg	Hallein	1	1	BTV-8
2015	Burgenland	Neusiedl/See	1	1	BTV-4
2015	Burgenland	Jennersdorf	1	1	BTV-4
2015	Steiermark	Hartberg-Fürstenfeld	1	2	BTV-4
2015	Steiermark	Südoststeiermark	1	2	BTV-4
2016	Burgenland	Jennersdorf	2	3	BTV-4
2016	Kärnten	Klagenfurt	1	1	BTV-4

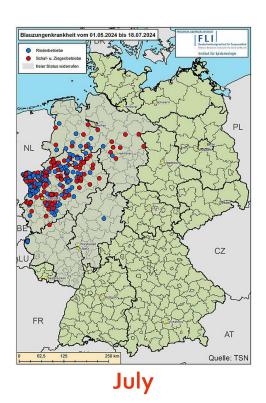
Freedom at the World Organization for Animal Health (WOAH) was regained in February 2019

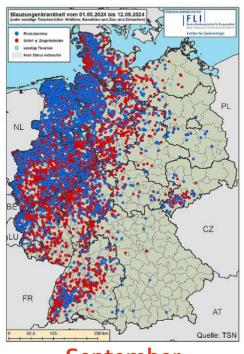
Impact of bluetongue in the Netherlands - 2023

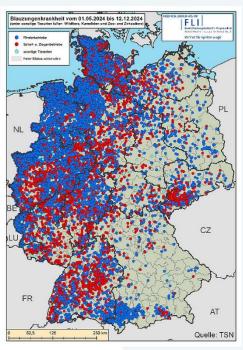


Comparison of 2020-2022 with 2023 in terms of sheep <u>deaths</u> (green) and lamb <u>deaths</u> (blue)

Development 2024 - Germany







September

December

Ausbrüche Blauzungenkrankheit im Jahr 2024

Quelle: TSN (Stand: 12.12.2024 - 14:00 Uhr)

(Angabe der Anzahl der gemeldeten Ausbrüche/Fälle vom 05.12.2024 – 10:30 Uhr in Klammern)

Land	JAN	FEB	MRZ	APR	MAI	JUN	JUL	AUG	SEP	ОКТ	NOV	DEZ	GESAMT
Deutschland	13 (13)	7 (7)	9 (9)	9 (9)	35 (35)	13 (13)	1.251	5.900	4.795	1.990	1.038	244 (59)	15.304
							(1.250)	(5.883)	(4.786)	(1.989)	(1.002)		(15.055)

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Geographical location of BT cases in Austria

ministry of social affairs.at

AGES

Status: 19.09.2024

BTV-3 in Vorarlberg





BTV-4 in Styria

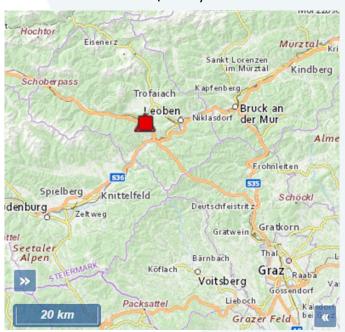
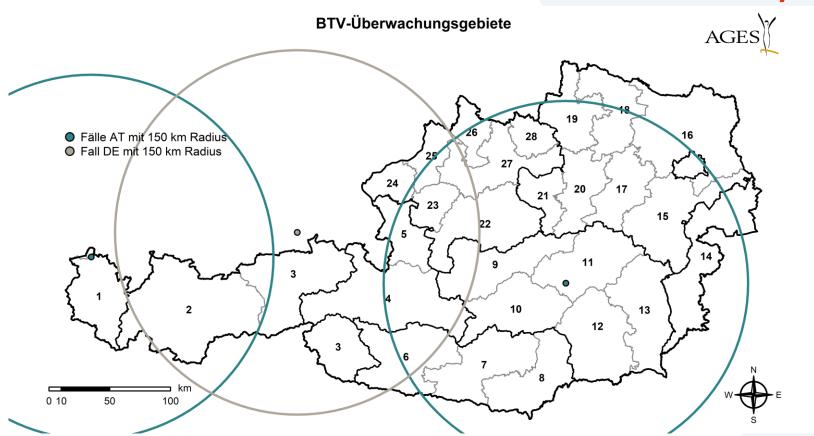
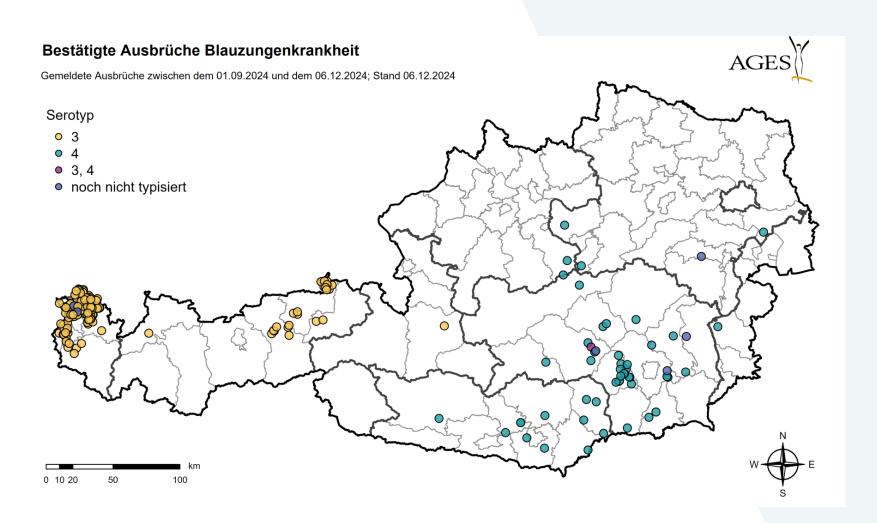


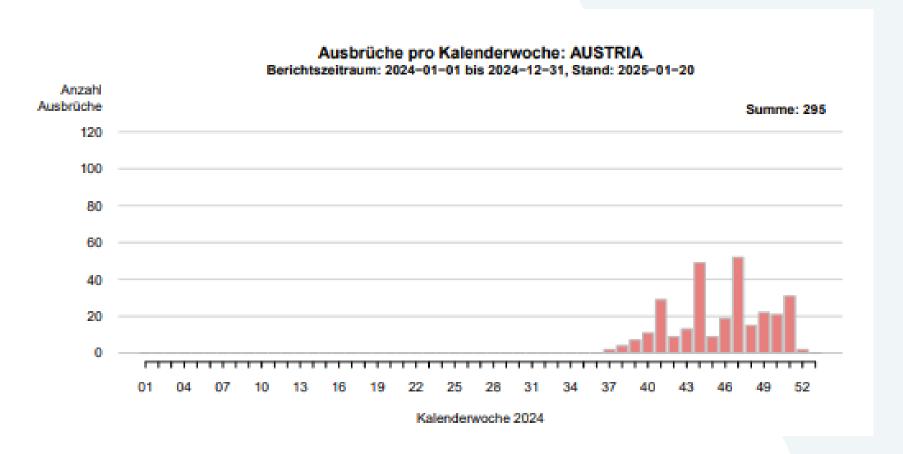
Illustration of the 150km zones around the current BTV cases in Austria and in the district of Rosenheim in Germany



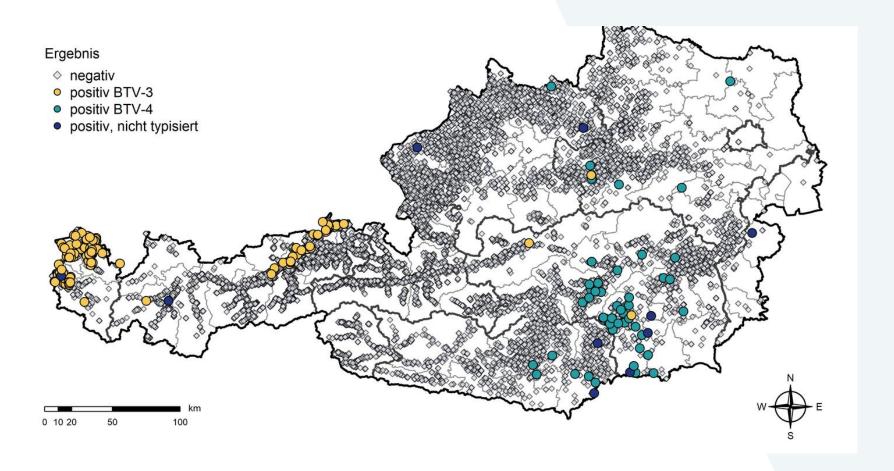
Outbreaks 2024



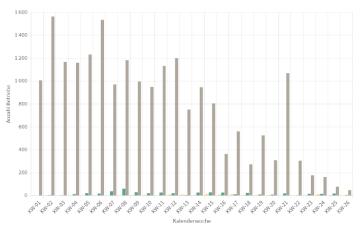
BTV in Austria 2024

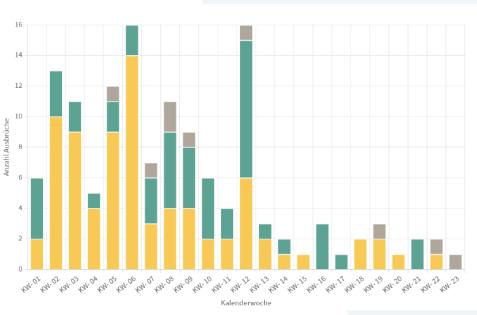


BTV3 & BTV4 - January to June 2025



Samples and results for the year 2025





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Measures taken in Austria

- Due to the epidemiological situation in and around Austria, the status "free of bluetongue" was <u>suspended</u> throughout Austria
- the entire federal territory is designated as a "bluetongue zone".
- This means that additional provisions must be complied with for intra-Community trade (trade between EU member states).
 - Commission Delegated <u>Regulation (EU) 2020/688</u> regulates the animal health requirements that must be complied with when moving live animals within the EU.
 - With regard to bluetongue virus (BTV), the requirements set out in Annex V Part
 II Chapter 2 of <u>Regulation (EIU) 20202/689</u> must also be complied with.
- However, susceptible animals may be moved freely within Austria provided that they are <u>apparently healthy</u> on the day of movement - LW confirms this.

2 phases - official procedure

1st phase → Proceed as usual (until further notice)

2nd phase → Due to the dynamics of the epidemic, we will deviate from the usual procedure and a simplified notification procedure is provided for

Phase 1 - Official measures in the event of suspicion in Austria

- Any suspicion must be reported to the competent authority (ATA) by livestock owners/doctors
- Provisional closure of the holding
- All susceptible animals in the herd must be recorded
- Sampling and entry of the sampling in the VIS by the ATA
- Testing by national reference laboratory (AGES)
- Epidemiological clarification by authority
- Confirmation of the outbreak OR lifting of the restriction on the holding

2nd phase - dynamic spread of the disease

- Occurs when the epidemic situation takes a dynamic course analogous to other countries such as NL, LUX, BE or D and
- and the spread of the disease can no longer be controlled by official measures due to the spread of vectors.
- Detection of BTV either by ATA or veterinarian
 - No sampling planned, unless these are the first cases in the district
 - The veterinarian can order the BTV examination at AGES to clarify the clinical picture.
 - Role of the veterinarian recognizing the relevant clinical symptoms of BTV and reporting the suspicion (using a short form)
- The aim is to ensure a simple and unbureaucratic <u>procedure</u>

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Disease control

- Containment: demarcation of an affected farm/area from unaffected farms/areas
 - Not possible with BT, as transmission is via vectors
- Prevent the spread of the pathogen
 - Category A diseases: Culling
 - Category C diseases: isolate viraemic animals
- Prevent entry into own farm
 - Problem of vectors!
- Increase biosecurity
 - Problem of vectors!
- Vaccination
 - Financing and organization

Preventive measures

- The treatment of animals with insecticides as well as
- stabling susceptible species between dusk and dawn can also prevent infection.
- Avoid grazing on the edge of forests
- Control vectors on the farm avoid standing water
- There is the possibility of a <u>FREE</u> vaccination
 - Vaccination with inactivated BTV-3 vaccines is the most effective measure to protect animals from disease and death in the current situation!
 - In order to prevent animal suffering and keep the costs of treating sick animals as low as possible, owners of susceptible animals are therefore urgently recommended to protect their livestock with a vaccination in consultation with their veterinarians.

Stages of vaccination

Information

Farmer: webinars, brochure, homepage... Veterinarian: webinars, ÖTK, homepage

Needs assessment

Who wants to vaccinate?
Survey by federal states and TGDs

Organization

At provincial level: provincial government + TGDs + general veterinarians

Implementation

Vaccine ordering and implementation of vaccination by veterinarians

Vaccination costs: TGDs tariff

Documentation

Data should appear in the VIS
Advantages in trade if vaccination
protection is a condition

Further information

https://www.verbrauchergesundheit.gv.at/tiere/krankheiten/bt.html

 https://www.ages.at/mensch/krankheit/krankheitserreger-von-a-bisz/blauzungenkrankheit

Thank you for your attention

Ulrich Herzog

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