

# Bluetongue Virus Serotype 3 and Schmallenberg Virus in *Culicoides* Biting Midges, Western Germany, 2023

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In October 2023, bluetongue virus serotype 3 (BTV-3) emerged in Germany, where Schmallenberg virus is enzootic. We detected BTV-3 in 1 pool of *Culicoides* biting midges collected at the time ruminant infections were reported. Schmallenberg virus was found in many vector pools. Vector trapping and analysis could elucidate viral spread.

**B**iting midge-borne bluetongue virus (BTV), an orbivirus of the *Sedoreoviridae* family, can cause epizootic disease in domestic and wild ruminants (1). Bluetongue (BT) is a World Organisation for Animal Health-listed disease and is regulated within the European Union (EU) in accordance with Regulation (EU) 2016/429 and its delegated regulations (2). Under those regulations, BT outbreaks require trade restrictions in EU member states to prevent the etiologic agent from spreading.

BTV serotype 3 (BTV-3) emerged in continental Europe in early September 2023, when clinical disease was observed on 4 sheep farms in the Netherlands (M. Holwerda et al., unpub. data, <https://doi.org/10.1101/2023.09.29.560138>). By mid-October, >1,000 outbreaks had been detected throughout the Netherlands, increasing to 5,884 by mid-December 2023 (3). At the same time, BTV-3 reached Belgium and was detected in the United Kingdom in November 2023 (4,5).

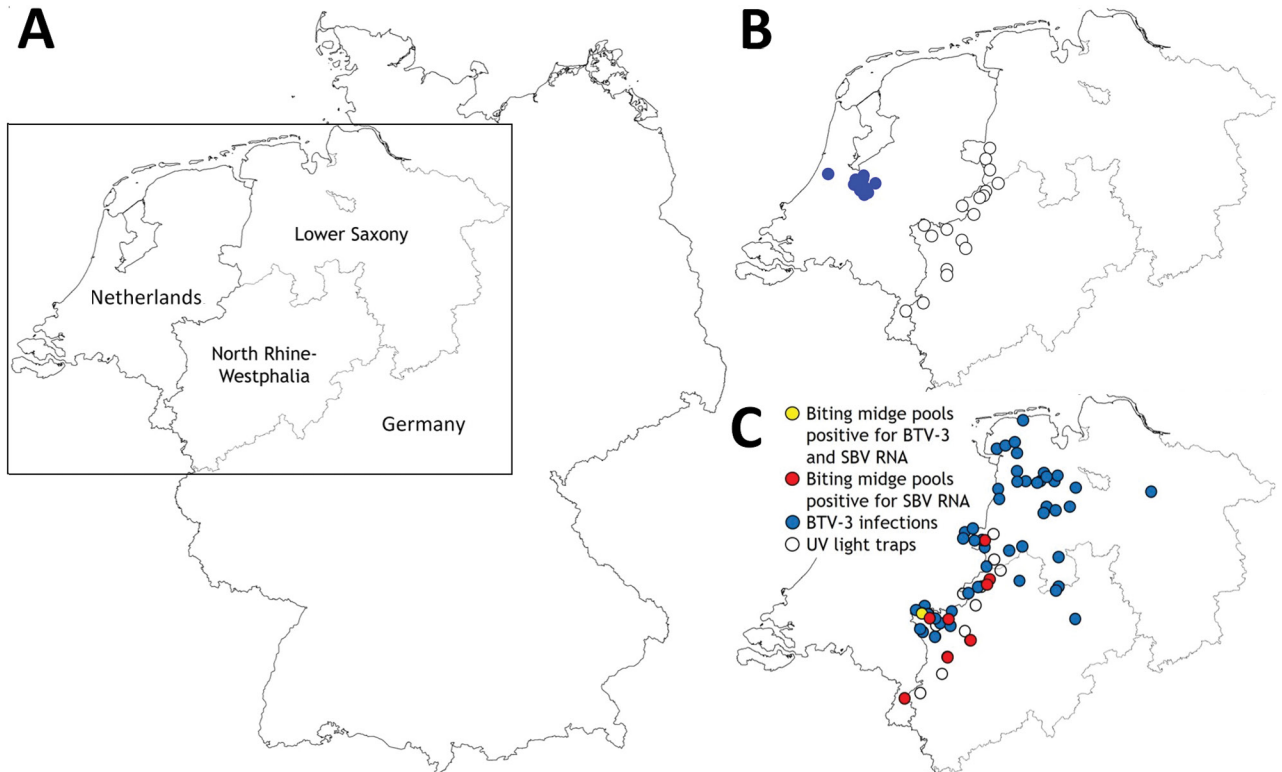
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In contrast to emerging BTV-3, the orthobunyavirus Schmallenberg virus (SBV) is enzootic in continental Europe; it was initially detected in 2011 near the border between Germany and the Netherlands (6). Another biting midge-borne virus, epizootic hemorrhagic disease virus (EHDV), emerged in Europe in 2022 (7). Those 3 viruses share major epidemiologic characteristics; all 3 are transmitted by *Culicoides* biting midges (Diptera: Ceratopogonidae) and affect mainly ruminants (1,6). Germany was declared free of BTV-8 in June 2023 (8), but on October 12, 2023, a case of BTV-3 was confirmed in a sheep in the Kleve district, close to the border with the Netherlands. By April 18, 2024, a total of 55 additional BTV-3 cases were reported from sheep and cattle farms in the federal states of North Rhine-Westphalia and Lower Saxony, Germany (Figure). We collected biting midges from those 2 states to evaluate the extent of vectorborne viruses in the region.

## The Study

After BTV-3 emerged in the Netherlands, and before any clinically suspicion cases had been announced in ruminants in Germany, we installed biting midge traps in animal stables in western Germany to collect putative BTV-3 vectors and test them for virus infection. Traps were equipped with a UV light but no CO<sub>2</sub> source (Biogents, <https://eu.biogents.com>). During September 24–26, we set 1 trap each on 18 cattle, sheep, and goat farms in North Rhine-Westphalia and Lower Saxony, along the border with the Netherlands. We placed the traps close to the animals at sites protected from wind and rain. Traps operated continuously, and we recovered collected insects every day until November 9 or 11, depending on the location.



**Figure.** Sampling locations and infection sites in study of BTV-3 and SBV in *Culicoides* biting midges, western Germany, 2023. A) Overview map of Germany and the Netherlands showing North Rhine-Westphalia and Lower Saxony study areas. B) BTV-3 cases in the Netherlands (blue dots) as of September 8, 2023, and locations of UV light traps (white circles) along the border between Germany and the Netherlands. C) BTV-3 infections in ruminants (blue dots) reported to the animal disease reporting system in Germany as of April 18, 2024, and geographic assignment of farms with biting midge pools that tested positive for BTV-3 and SBV RNA (yellow dot) and those with pools only positive for SBV RNA (red dots). BTV-3, bluetongue virus serotype 3; SBV, Schmallenberg virus.

After those dates, the traps were only activated for 24 hours per week and samples were collected that day.

We collected biting midges and placed them in 80% ethanol, and stored them at room temperature in the dark until processing. A few days, but not >4 weeks, after collection, we morphologically identified midges as *C. obsoletus* group, *C. pulicaris* complex, and other *Culicoides*. *C. obsoletus* group and *C. pulicaris* complex-midges are considered the main BTV and SBV vectors in Europe (9). We used a multiplex quantitative reverse transcription PCR (qRT-PCR) to screen pools of  $\leq 50$  *C. obsoletus* group and *C. pulicaris* complex midges for BTV and EHDV RNA (10). EHDV only recently emerged in southern and western Europe (7) and might be the next biting midge-borne virus to spread to central Europe. We also tested midge pools for SBV RNA because that virus is enzootic in the ruminant population in the region and expected to be detectable in insect vectors (11). We subsequently analyzed pools that tested BTV-positive by using a BTV-3-specific qRT-PCR (12). We retrospectively examined BTV-3-positive pools to determine the specific biting midge species (13,14).

During September 26–November 9, we collected 1,603 biting midge pools at 9 sites. The number of pools per site ranged from 27–466, depending on the number of midges collected. We tested those pools for viral RNA; 1 pool of *C. obsoletus* group midges collected in Kleve (Figure, panel C) on October 12 tested positive for BTV RNA (quantification cycle [Cq] value 35.6). We subsequently confirmed that pool as BTV-3-positive (Cq 37.5). The pool consisted of a mixture of *C. obsoletus* clade O1 (or *C. montanus*, which cannot be reliably differentiated from *C. obsoletus* clade O1 with the test system used but is not supposed to occur in Central Europe), *C. scoticus*, and *C. chiopterus*. Another pool of *C. obsoletus* group midges captured on the same day and at the same site tested SBV RNA-positive. In addition, we detected SBV in 534 midge pools collected during the 6.5-week period from all 9 locations: 1 site in Lower Saxony in the Grafschaft-Bentheim district, and 8 sites in North Rhine-Westphalia (3 in Kleve district, 2 in Wesel district, 2 in Borken district, and 1 in Heinsberg district) (Figure; Appendix, <https://wwwnc.cdc.gov/EID/>

article/30/7/24-0275-App1.pdf). Except for 2 *C. pulicaris* complex pools, all SBV RNA-positive pools belonged to the *C. obsoletus* group (Appendix). No pools were positive for both BTV and SBV RNA, and all tested pools were EHDV-negative.

We calculated the minimum infection rates (MIR; i.e., number of positive pools divided by number of tested pools, multiplied by 1,000) for each virus (15). We found an MIR of 333.13 for SBV, indicating high circulation, and an MIR of 0.62 for BTV-3, indicating low circulation. However, MIR can be affected by pool size; the more specimens in a pool, the higher the possibility that  $\geq 1$  positive biting midge would be included, but that effect would not become evident when pools are examined. Conversely, the sensitivity of detection decreases with increasing pool size if only 1 positive biting midge was in the pool.

Using an isolate obtained from a BTV-3-positive sheep blood sample and further characterized on both *Culicoides* cells and baby hamster kidney cells, we produced a nearly complete genome sequence (International Nucleotide Sequence Database Collaboration, <http://www.insdc.org>; project no. PRJEB72862). The obtained genome was 99.94% identical to the sequence of a recent BTV-3 isolate from the Netherlands (GenBank accession nos. OR603992–4001) at the nucleotide level and 99.95% at the amino acid level. The genome segments of the strain from Germany were 83.24%–97.67% identical to the BTV-3 SAR2018 strain isolated from a sheep in Italy in 2018 (GenBank accession nos. MK348537–46) and 81.26%–97.89% identical to the TUN2016 strain isolated from a sheep in Tunisia in 2016 (GenBank accession nos. KY432369–78).

## Conclusions

BTV-3 was confirmed in an infected sheep in Germany on October 12, 2023, and viral spread was detected in 2 federal states by winter 2023–2024. The isolated BTV-3 is nearly identical to virus strains from outbreaks in the Netherlands. A pool of *C. obsoletus* group biting midges collected on a cattle farm in the same district on the same day BTV-3 was confirmed in Germany tested positive for BTV-3 RNA. Detecting BTV-3 in its putative vectors confirms an ongoing transmission cycle, albeit circulating at a low level; only 1 insect pool tested positive, and only a few animals were BTV-3-positive on affected farms. In contrast, we found SBV RNA in numerous *Culicoides* pools, reflecting its intense circulation in ruminant populations; SBV-infected cattle, sheep, and goats have been reported in Germany since 2011, although prevalence between years varies (6). The C<sub>q</sub> values of the SBV qRT-PCR in some of the investigated *Culicoides* pools

indicate substantial virus loads, reflecting extensive regional SBV circulation in autumn 2023 (Appendix).

In conclusion, circulation of BTV-3 in Germany is likely to continue, intensify, and spread with the onset of seasonal biting midge activity in spring 2024. Large-scale biting midge monitoring combined with rapid analysis for viruses could contribute to an early warning system for emerging biting midge-borne diseases.

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## About the Author

Ms. Voigt is a PhD student at the Leibniz-Centre for Agricultural Landscape Research, Muencheberg, Germany. Her research interests include behavior and habitat binding of biting midge vectors.

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# Bluetongue Virus Serotype 3 and Schmallenberg Virus in *Culicoides* Biting Midges, Western Germany, 2023

## Appendix

**Appendix Table.** Characteristics of insect pools collected in a study of bluetongue virus serotype 3 and Schmallenberg virus in *Culicoides* biting midges, Western Germany, 2023\*

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
39	12 Oct 2023	Kleve, North Rhine-Westphalia	cattle	BTV-3	35.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	13 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	25.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	13 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	13 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	25.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	14 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	29.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	12 Oct 2023	Kleve, North Rhine-Westphalia	cattle	SBV	26.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
49	12 Oct 2023	Kalkar, North Rhine-Westphalia	cattle	SBV	31.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	12 Oct 2023	Kalkar, North Rhine-Westphalia	cattle	SBV	25.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	12 Oct 2023	Kalkar, North Rhine-Westphalia	cattle	SBV	22.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
10	11 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	40.0	Obsoletus Group	<i>C. dewulfi</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	41.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	32.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	31.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	10 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	09 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	33.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	09 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	31.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	08 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	12 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	23.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u> <i>C. scoticus</i> <i>C. dewulfi</i>
17	12 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	28.6	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	11 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	29.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	11 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	23.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	11 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	24.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	11 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	24.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	14 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	24.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	14 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	28.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	14 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	29.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	14 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	28.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	14 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	24.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
10	14 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	27.2	Pulicaris Complex	<i>C. punctatus</i>
50	09 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	22.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	09 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	25.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	09 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	34.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	22.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. punctatus</i>
1	08 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	39.2	Pulicaris Complex	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. punctatus</i>
50	07 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	27.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
43	07 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	28.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	24.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	40.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	26.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>



Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.3	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	41.6	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	41.6	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	40.6	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	41.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	40.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
44	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
44	07 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	25.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	05 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	32.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
38	7 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	24.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	30.6	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	32.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	45504	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	32.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	32.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	32.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	32.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	32.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	32.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	31.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	24.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
21	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	33.7	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
44	08 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	36.9	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	12 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	28.7	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.8	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	25.5	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.7	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.5	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	41.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.3	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.4	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.0	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.8	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	28.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.8	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.8	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.8	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	27.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
47	01 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	02 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.4	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	02 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.5	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	02 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.5	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	02 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.8	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	02 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	27.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	02 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
49	02 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.9	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.4	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.5	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.2	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.5	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	27.9	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	27.9	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.9	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	45351	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
39	03 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	04 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	04 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	29.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	04 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	04 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.4	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	04 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.4	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	04 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	31.4	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	04 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37..1	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	04 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.6	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	05 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.6	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	05 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	31.3	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	05 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.3	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.4	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.5	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	27.4	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.0	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.1	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.0	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	33.8	Obsoletus Group	<i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	33.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	26.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>



Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	29.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	06 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	35.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.6	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.9	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. dewulfi</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.8	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	45319	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	26.5	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	27.6	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	29 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	40.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	34.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	36.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	31.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	38.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	41.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	30.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	37.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	27 Sept 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	35.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	29.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34..1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	41.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	32.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
17	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
48	07 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	40.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	26.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	32.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	29.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	28.5	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	40.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.8	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	25.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	32.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
37	08 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	27.4	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	25.2	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	26.4	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
49	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.5	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.7	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	40.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	26.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	29.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	28.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	27.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	40.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
31	09 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	35.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	35.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.4	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.9	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.8	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.5	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	35.3	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.5	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.5	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.3	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.3	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.4	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>



Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.3	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	10 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	11 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	29.9	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	11 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.7	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	11 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.4	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	11 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	11 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.6	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	11 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	27.2	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	11 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	35.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	12 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.3	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	12 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.5	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	12 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	28.9	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	12 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	35.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	12 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.1	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	12 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.0	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	03 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	33.4	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	28.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	04 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	32.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	08 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	30.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	09 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	30.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	30.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	10 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	29.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	10 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	34.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	10 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	31.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	10 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	28.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	02 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	27.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	02 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	39.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	02 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	26.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	28.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	13 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	30.7	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	28 Sept 2023	Kleve, North Rhine- Westphalia	cattle	SBV	34.8	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
44	28 Sept 2023	Kleve, North Rhine- Westphalia	cattle	SBV	35.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	29 Sept 2023	Kleve, North Rhine- Westphalia	cattle	SBV	30.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	29 Sept 2023	Kleve, North Rhine- Westphalia	cattle	SBV	27.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	24 Oct 2023	Kleve, North Rhine- Westphalia	cattle	SBV	33.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	35.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	26.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	28.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	35.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	31.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	29.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	34.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	34.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	29.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	32.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	34.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	34.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	26.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	36.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	29.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	35.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	34.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
8	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	37.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	38.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	30.2	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	36.2	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
36	13 Oct 2023	Gronau, North Rhine- Westphalia	cattle	SBV	31.5	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
23	13 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	39.1	Pulicaris Complex	<i>C. punctatus</i> <i>C. pulicaris</i>
50	12 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	29.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	12 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	29.4	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
35	12 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	25.2	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	13 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	28.5	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	13 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	34.4	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
48	13 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	30.1	Obsoletus Group	<i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
11	13 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	28.3	Pulicaris Complex	<i>C. punctatus</i> <i>C. pulicaris</i>
50	14 Oct 2023	Gronau 2, North Rhine- Westphalia	cattle	SBV	28.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
10	16 Oct 2023	Rees, North Rhine- Westphalia	cattle	SBV	25.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
20	13 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	39.6	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	14 Oct 2023	Kalkar, North Rhine- Westphalia	cattle	SBV	24.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
42	29 Oct 2023	Hünxe, North Rhine- Westphalia	sheep, goat	SBV	29.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>

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50	09 Oct 2023	Hünxe, North Rhine- Westphalia	sheep, goat	SBV	23.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	09 Oct 2023	Hünxe, North Rhine- Westphalia	sheep, goat	SBV	39.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	11 Oct 2023	Hünxe, North Rhine- Westphalia	sheep, goat	SBV	25.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	27.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	2023-09- 28	Selfkant, North Rhine- Westphalia	cattle	SBV	33.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	30.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	27.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	24.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	32.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	39.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	29.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	31.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	39.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	39.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	39.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	39.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	29.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>



Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	30 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	23.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	31.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	28.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	28.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	31.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.9	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	25.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	24.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.6	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	28.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.8	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	39.6	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.7	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	32.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	24.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	27.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	25.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	28.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	35.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.2	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.6	Obsoletus Group	<i>C. scoticus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
9	01 Oct 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	39.9	Obsoletus Group	<i>C. scoticus</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
47	09 Nov 2023	Neukirchen, North Rhine-Westphalia	goat	SBV	25.4	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	29 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.1	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	29 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.3	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	29 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	38.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.5	Pulicaris Complex	<i>C. dewulfi</i> <i>C. pulicaris</i> <i>C. lupicaris clade L1</i> <i>C. newsteadi clade N1</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.7	Pulicaris Complex	<i>C. punctatus</i> <i>C. pulicaris</i> <i>C. lupicaris clade L1</i> <i>C. newsteadi clade N1</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.4	Pulicaris Complex	<i>C. pulicaris</i> <i>C. lupicaris clade L1</i> <i>C. newsteadi clade N1</i>
45	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.4	Pulicaris Complex	<i>C. punctatus</i> <i>C. pulicaris</i> <i>C. lupicaris clade L1</i> <i>C. newsteadi clade N1</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.0	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.3	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.9	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.2	Obsoletus Group	<i>C. scoticus</i> <i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.0	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	<u>Biting midge taxon</u>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.9	Obsoletus Group	<i>C. dewulfi</i> <i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.0	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	28.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.9	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.5	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	24.1	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	28.3	Obsoletus Group	<i>C. obsoletus clade</i> <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.8	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	35.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	36.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	34.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	37.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	31.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	28 Sept 2023	Selfkant, North Rhine- Westphalia	cattle	SBV	33.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	38.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	32.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	03 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	36.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	04 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.6	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	04 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	32.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
49	04 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	37.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>

Pool size, no. of biting midges	Collection date	Place of collection	Type of livestock	Virus	Cq value	Biting midge group/complex	Biting midge taxon
13	04 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	24.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	05 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	33.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	05 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	31.0	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	05 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	30.3	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.9	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	40.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.1	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	40.5	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	40.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	39.2	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	32.7	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. chiopterus</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	40.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i> <i>C. dewulfi</i> <i>C. chiopterus</i>
50	01 Oct 2023	Nordhorn, Lower Saxony	cattle	SBV	34.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>
50	03 Nov 2023	Nordhorn, Lower Saxony	cattle	SBV	35.4	Obsoletus Group	<i>C. obsoletus</i> clade <i>O1/C. montanus</i> <i>C. scoticus</i>

\*Cq, quantification cycle.