



*Grünlandtemperatursummen- und Kältesummenberechnung der Wetterstation Lüttgenwald-Vossenack
(1998-2019)*

Die **Grünlandtemperatursumme** ist auch ein wichtiger Parameter in der Agrarwissenschaft. Sie gibt an, wann Vegetation einsetzt. Berechnet wird diese folgend:

Alle positiven Januartagesmittelwerte multipliziert mit dem Faktor 0,5

Alle positiven Februartagesmittelwerte multipliziert mit dem Faktor 0,75

Alle positiven Märtagesmittelwerte mit dem Faktor 1, dies gilt auch für den Monat April ggf. auch Mai

Die negativen Tagesmittelwerte sind als "null" zu betrachten!!!

Ist eine Summe im Laufe des Frühjahres von "200" erreicht oder überschritten, ist der nachhaltige Vegetationsbeginn erreicht.

Im Durchschnitt (1999-2019) setzt in Vossenack durchschnittlich am 21. März Vegetation ein.

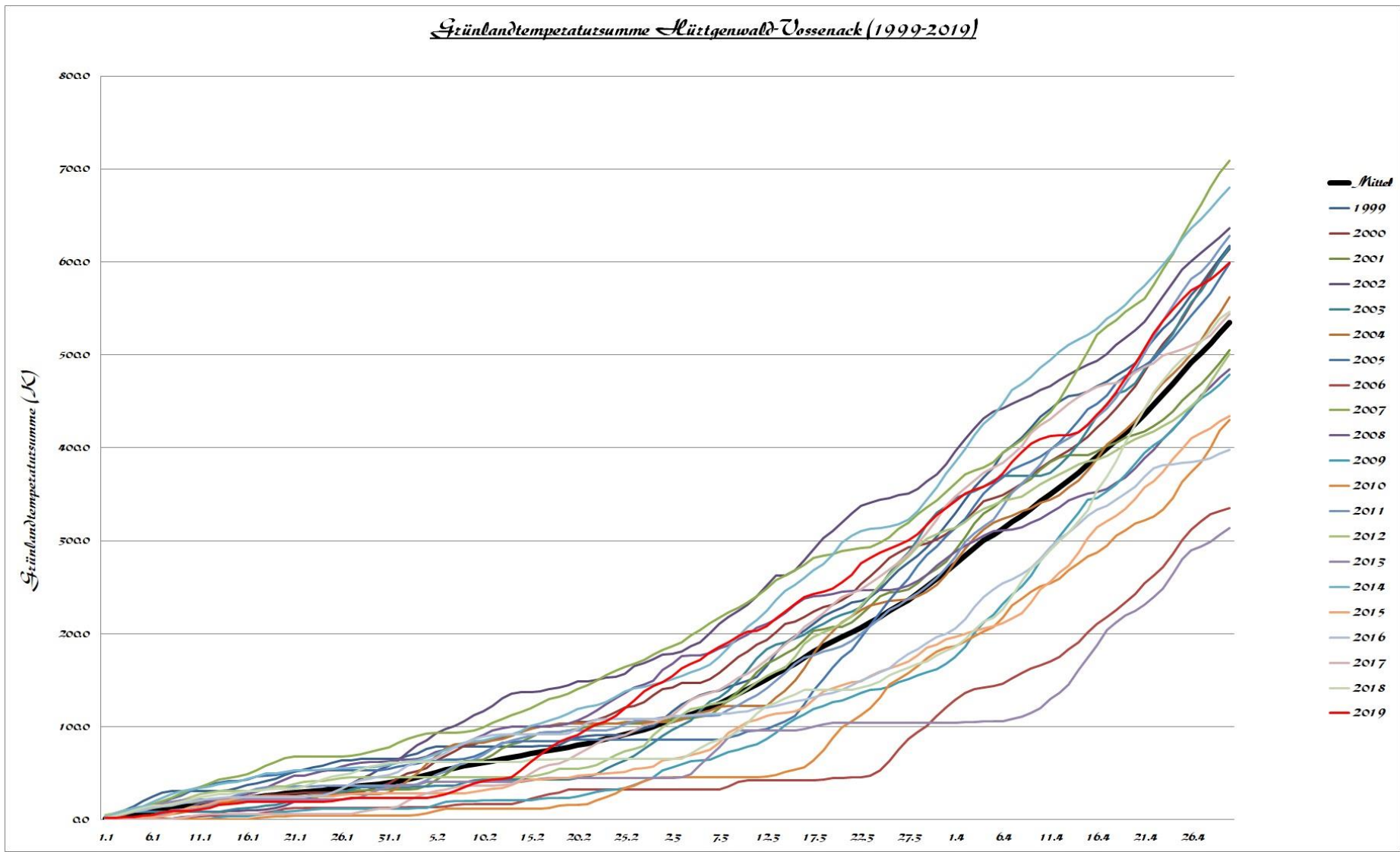
Alle negativen Tagesmittelwerte werden zu einer **Kältesumme** aufsummiert. Dabei wird der Zeitraum vom 1. November bis 31. März zu Rate gezogen. Spätere Kältesummen (wie im April) werden auf den letzten Märtag dazugerechnet. Je höher die Kältesumme, je stärker der Winter.

Lange Ansteigungen in der Grafik sind längere Frostphasen, wobei geradlinige Verläufe frostfreie oder milde Phasen der Winter sind.

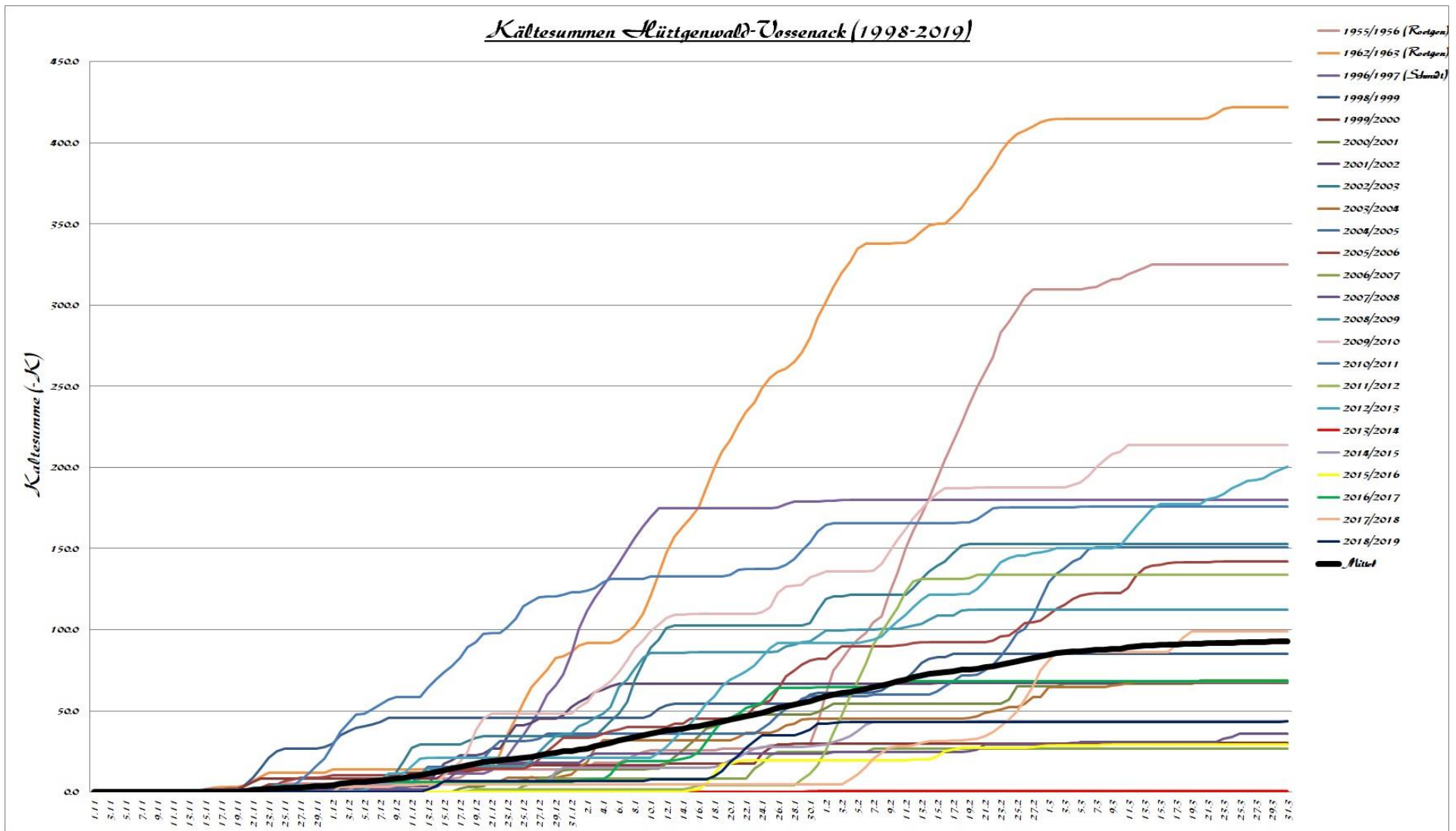
Tag der Überschreitung der 200er-Marke	
1999	16. Mrz
2000	13. Mrz
2001	17. Mrz
2002	06. Mrz
2003	17. Mrz
2004	19. Mrz
2005	23. Mrz
2006	15. Apr
2007	05. Mrz
2008	11. Mrz
2009	03. Apr
2010	04. Apr
2011	23. Mrz
2012	18. Mrz
2013	17. Apr
2014	10. Mrz
2015	03. Apr
2016	31. Mrz
2017	17. Mrz
2018	03. Apr
2019	10. Mrz
Mittel	21. Mrz

Tabelle der phänologischen Ereignisse korrespondierend zur Grünlandtemperatursumme (Hürtgenwald-Vossenack)	
70	Blüte Schneeglöckchen und Winterlinge
100-120	Krokusblüte, Haselblüte, Winterjasmin
200	Osterglocken klein, Wildnarzissen, Forsythien
260	Weidekätzchen, frühblühende Kirschen
300	Osterglocken, Austrieb Trauerweiden und Holunder, Vorblüte Magnolien, Kornellkirschen, Vollblüte Mandelbäume
380	Aufgehende Knospen spätblühende Magnolie, Vorblüte Birke
440	Vollblüte frühblühende Magnolien
460	Vorblüte Kirsche
530	Vollblüte Kirsche, Birke und spätblühende Magnolien, Vorblüte Apfel
540	Blattaustrieb Birke, Walnuss und Pappel
550	Blattaustrieb Apfel, Kastanien Vollblüte, Raps Vollblüte
580	Vorblüte Flieder
600	Vorblüte Pappeln
700	Vollblüte Flieder und Apfel
740	Vollblüte Löwenzahnsamen
780	Vorblüte Ginster
810	Vorblüte Holunder
970	Vollblüte Holunder und Ginster, Vorblüte Klatschmohn
1040	Vollblüte Klatschmohn

Grünlandtemperatursumme Hürtgenwald-Vossenack (1999-2019)



Kältesummen Huertgenwald-Tossenack (1998-2019)



Daten zur Grünlandtemperatur

Grünlandtemperatursummen (1998-2019) in K																						
Datum	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Mittel
01. Jan	3.8	1.7	0.1	0.0	1.3	0.0	3.0	0.8	2.0	0.0	0.0	0.0	0.2	5.3	1.4	2.9	0.2	2.3	0.0	2.0	1.8	1.4
02. Jan	7.0	3.3	3.4	0.0	5.7	0.0	5.4	1.4	3.6	0.0	0.0	0.0	0.2	7.3	3.0	6.0	1.8	4.7	0.0	4.0	2.2	2.8
03. Jan	10.3	5.4	6.2	0.0	8.2	0.0	7.1	1.4	6.2	0.0	0.0	0.0	0.2	10.0	6.8	9.5	2.0	6.7	0.2	6.7	2.7	4.2
04. Jan	14.1	8.2	8.6	0.0	8.2	0.0	9.8	1.4	9.2	1.5	0.0	0.0	0.2	11.8	10.2	12.8	2.4	8.5	0.7	10.3	2.9	5.7
05. Jan	20.1	10.2	11.8	0.0	8.2	0.6	12.1	1.4	12.6	3.4	0.0	0.0	0.2	13.6	12.6	14.6	2.4	10.6	0.7	12.9	4.6	7.2
06. Jan	25.2	13.3	14.1	0.0	8.2	2.2	14.4	1.4	17.0	4.6	0.0	0.0	3.1	14.9	15.4	19.0	3.1	12.7	0.7	14.8	5.6	9.0
07. Jan	28.9	16.3	15.7	0.8	8.2	4.5	18.3	1.4	19.9	7.1	0.0	0.0	6.0	17.0	17.8	23.4	3.6	14.4	0.7	15.5	7.6	10.8
08. Jan	30.8	18.5	16.8	1.2	8.2	5.8	22.5	1.4	23.6	8.9	0.0	0.0	10.0	18.6	19.7	27.5	5.8	15.5	1.3	16.7	9.1	12.5
09. Jan	30.8	20.5	18.5	2.6	8.2	7.7	25.5	2.4	28.6	10.5	0.0	0.0	10.9	21.3	21.1	30.7	10.0	17.4	2.3	19.3	9.3	14.1
10. Jan	30.8	21.5	18.5	3.7	8.2	9.4	30.7	3.1	32.3	13.6	0.0	0.0	10.9	24.2	22.0	32.5	13.2	19.3	3.4	21.8	9.3	15.6
11. Jan	30.8	21.5	19.0	4.2	8.2	13.1	34.6	3.8	35.4	17.7	0.0	0.0	12.1	27.3	22.0	34.3	14.2	21.2	4.9	24.2	10.8	17.1
12. Jan	30.8	21.5	19.0	5.0	8.2	14.4	37.9	4.4	39.3	18.9	1.2	0.0	14.7	29.5	22.0	35.7	16.9	22.7	5.9	25.9	12.8	18.4
13. Jan	30.8	21.5	19.0	7.6	8.2	17.0	39.6	4.4	43.5	19.8	2.8	0.0	19.7	30.5	22.0	38.0	20.1	23.5	5.9	27.2	15.7	19.8
14. Jan	31.8	21.8	19.0	9.0	10.2	19.1	41.3	4.9	45.3	22.1	3.3	0.2	23.8	31.0	22.0	39.7	20.6	23.9	5.9	27.8	16.5	20.9
15. Jan	33.9	22.4	19.0	9.3	11.5	19.9	41.7	4.9	46.3	25.1	3.3	0.2	27.0	31.0	22.0	40.8	23.5	23.9	5.9	29.2	18.0	21.8
16. Jan	37.2	22.6	19.0	10.0	13.0	21.5	43.3	5.1	48.9	27.3	3.5	0.2	30.3	31.0	22.0	43.7	25.0	23.9	5.9	30.7	19.4	23.0
17. Jan	39.3	24.3	19.0	10.1	13.7	22.5	46.1	6.5	52.9	29.8	5.1	1.6	33.3	31.8	22.0	46.7	25.1	23.9	5.9	31.0	19.6	24.3
18. Jan	41.3	26.4	19.0	11.3	14.8	22.6	47.0	7.9	57.8	34.1	6.2	3.1	35.2	32.8	22.0	49.7	25.1	23.9	5.9	32.4	19.6	25.6
19. Jan	43.8	27.0	19.0	13.0	16.0	22.7	47.8	9.1	62.3	39.2	8.5	3.8	35.5	35.7	22.0	49.7	25.1	23.9	5.9	33.0	19.6	26.8
20. Jan	48.2	27.4	19.0	15.3	18.8	25.3	50.0	11.5	66.1	43.5	8.9	3.8	35.5	36.1	22.0	51.9	25.1	23.9	5.9	33.1	19.6	28.1
21. Jan	51.4	28.5	19.0	19.4	21.7	25.3	52.2	12.8	68.2	47.0	9.2	4.2	35.5	38.5	22.0	52.9	25.1	23.9	5.9	33.3	19.6	29.3
22. Jan	54.1	29.2	20.2	22.0	24.5	25.3	53.0	12.8	68.2	47.7	9.9	4.7	35.5	40.5	22.0	53.5	25.1	23.9	5.9	35.9	19.6	30.1

23. Jan	56.3	29.2	22.8	24.9	26.4	26.5	53.4	12.8	68.2	50.0	11.3	4.7	35.9	41.4	22.0	53.5	25.1	25.7	5.9	39.0	19.6	31.1
24. Jan	57.8	29.2	26.8	27.9	27.3	27.1	53.4	12.8	68.2	52.6	11.7	4.7	36.5	41.8	22.0	53.8	25.1	25.7	5.9	43.6	19.6	32.0
25. Jan	61.8	29.2	28.7	29.6	28.1	27.7	53.4	12.8	68.2	54.3	11.7	4.7	36.8	42.9	22.0	54.5	25.3	29.0	5.9	46.1	19.7	33.0
26. Jan	63.5	29.2	30.5	33.6	29.4	27.7	53.4	12.8	68.2	57.0	11.7	4.7	36.8	44.7	22.0	55.3	26.5	33.7	5.9	48.0	21.8	34.1
27. Jan	64.1	29.8	31.0	38.2	32.4	27.7	53.4	12.8	69.0	59.3	11.7	4.7	36.8	45.4	23.0	55.8	27.3	37.9	5.9	50.0	23.0	35.2
28. Jan	65.3	29.8	32.0	44.0	35.0	27.7	53.4	12.8	70.5	61.7	11.7	4.7	36.8	45.4	24.3	56.4	28.0	42.1	8.2	53.6	23.0	36.5
29. Jan	65.3	32.2	32.0	48.5	35.0	27.7	53.4	12.8	73.1	62.0	11.7	4.7	36.8	45.4	28.6	56.4	28.2	43.9	9.8	57.0	23.0	37.5
30. Jan	65.3	35.6	32.2	53.9	35.0	27.7	53.4	12.8	75.5	62.5	11.7	4.7	36.8	45.4	32.3	57.2	28.2	46.9	11.9	59.0	23.0	38.6
31. Jan	65.3	39.4	32.2	57.8	35.0	29.3	55.2	12.8	77.7	62.9	11.7	4.7	36.8	45.4	34.8	58.8	28.2	48.4	11.9	61.0	23.0	39.6
01. Feb	65.8	45.0	32.2	63.5	35.0	34.7	57.4	13.4	82.7	64.7	11.7	4.7	36.8	45.4	37.1	61.2	28.2	51.6	14.6	61.3	23.6	41.4
02. Feb	68.7	49.5	32.2	72.2	35.0	41.3	58.7	13.4	87.3	64.7	11.7	4.8	36.8	45.4	37.1	63.1	28.2	58.1	20.4	61.9	23.6	43.5
03. Feb	71.3	52.1	33.0	79.9	35.7	50.0	60.4	13.4	89.9	65.8	12.3	4.9	38.1	45.4	37.8	64.1	28.2	62.5	25.1	61.9	23.6	45.5
04. Feb	76.1	55.6	36.9	85.1	35.7	59.5	63.3	13.4	92.4	67.9	12.3	6.8	42.6	45.4	41.0	67.1	28.2	64.2	28.0	61.9	23.8	48.0
05. Feb	78.3	62.7	42.0	92.7	36.4	68.3	63.4	13.6	93.3	72.7	15.8	9.5	48.2	45.4	41.1	70.8	28.2	66.7	30.7	61.9	25.1	50.8
06. Feb	78.5	69.1	49.3	97.6	36.4	77.1	64.8	14.3	93.3	75.6	19.2	11.9	52.4	45.4	41.1	75.2	28.2	72.3	32.6	61.9	27.6	53.5
07. Feb	78.5	74.0	55.5	101.0	36.4	81.2	64.8	16.3	93.3	77.6	19.8	11.9	58.4	45.4	41.1	78.8	28.2	78.2	35.1	61.9	30.8	55.6
08. Feb	78.5	79.4	62.8	105.5	39.9	82.3	65.2	17.1	94.3	82.0	19.8	11.9	60.7	45.4	41.1	82.4	28.6	82.3	36.7	61.9	34.8	57.7
09. Feb	78.5	81.1	64.0	112.9	42.0	82.9	68.0	17.1	95.7	87.1	20.2	11.9	64.5	45.4	41.1	84.5	29.7	86.9	36.7	61.9	38.7	59.6
10. Feb	78.5	84.7	65.0	116.6	43.0	82.9	71.7	17.1	99.3	91.2	20.9	11.9	70.0	45.4	41.1	85.5	31.3	89.8	36.7	61.9	41.7	61.2
11. Feb	78.5	86.9	69.5	122.6	43.2	85.4	76.7	17.1	104.4	95.8	20.9	11.9	76.4	45.4	41.1	87.8	32.9	90.8	36.7	62.2	43.2	63.3
12. Feb	78.5	88.6	76.7	130.4	43.2	87.0	83.1	17.1	108.7	98.8	20.9	11.9	82.0	45.4	41.1	89.9	34.4	92.0	37.6	62.2	44.4	65.4
13. Feb	78.5	91.3	80.9	135.8	43.2	90.3	83.9	17.1	112.5	100.0	20.9	11.9	84.9	45.4	41.1	91.9	37.6	92.1	38.5	62.2	46.0	66.9
14. Feb	78.5	94.1	83.4	137.6	43.2	94.0	84.7	19.2	115.8	100.0	20.9	11.9	88.1	45.9	41.1	95.3	41.3	92.1	42.8	62.2	53.1	68.8
15. Feb	78.5	98.7	88.3	137.6	43.2	97.7	84.7	22.4	119.7	100.0	20.9	11.9	90.5	46.7	42.5	100.7	42.9	92.1	50.1	64.5	61.8	71.2
16. Feb	79.8	100.0	93.8	138.0	43.2	100.1	84.7	25.2	124.5	100.0	22.7	11.9	93.5	48.6	44.2	103.2	43.1	92.1	55.2	64.9	69.3	73.2
17. Feb	79.8	100.4	94.7	140.7	43.2	101.1	84.7	27.6	129.5	101.1	23.7	12.8	94.7	51.0	45.0	106.4	44.2	92.1	58.8	64.9	77.1	74.9
18. Feb	80.6	101.7	94.7	142.3	43.2	103.4	84.7	29.4	132.4	101.9	23.7	15.3	94.7	54.9	45.0	110.3	44.9	92.1	60.5	65.2	83.8	76.4
19. Feb	85.0	103.7	95.8	144.6	43.2	103.4	86.1	32.2	135.2	103.8	23.7	15.8	95.6	54.9	45.2	114.2	44.9	93.1	64.5	65.2	87.6	78.0
20. Feb	88.3	104.7	97.7	148.9	44.8	103.4	86.1	32.6	140.8	106.6	25.3	15.8	95.6	54.9	45.2	119.0	47.7	97.8	70.4	65.2	91.1	80.1

21. Feb	90.6	104.9	99.8	148.9	46.3	103.4	86.1	32.8	145.0	112.0	27.2	16.7	95.6	56.2	45.2	121.5	48.2	104.4	76.3	65.2	97.4	82.1
22. Feb	90.7	107.3	101.6	150.7	49.4	103.4	86.1	32.8	149.2	117.7	29.9	20.8	95.6	59.0	45.2	123.4	48.6	107.3	82.3	65.2	102.5	84.2
23. Feb	90.7	111.2	103.6	153.1	54.7	103.4	86.1	32.8	155.1	123.9	31.7	24.3	95.6	63.8	45.2	126.8	49.7	108.2	86.8	65.2	106.1	86.6
24. Feb	91.2	116.2	103.6	153.9	59.8	103.4	86.1	32.8	160.7	130.4	32.6	28.7	98.4	69.7	45.2	132.5	50.7	108.4	88.3	65.2	112.0	89.0
25. Feb	91.2	120.5	103.6	157.4	64.0	104.7	86.1	32.8	164.3	136.5	34.5	33.8	102.3	73.6	45.2	137.7	51.6	108.4	90.8	65.2	119.6	91.6
26. Feb	95.4	122.8	103.6	165.1	68.7	104.7	86.1	32.8	167.6	142.3	37.7	36.8	105.8	75.9	45.2	141.1	54.5	108.4	96.4	65.2	127.9	94.5
27. Feb	98.7	126.5	103.6	169.0	76.0	104.7	86.1	32.8	172.2	145.3	41.7	41.8	107.3	79.5	45.2	143.0	55.6	108.4	101.4	65.2	137.7	97.2
28. Feb	100.9	134.2	104.4	172.6	82.6	105.3	86.1	32.8	177.3	149.8	45.9	44.9	108.0	91.5	45.2	145.7	57.4	108.4	103.0	65.2	143.6	100.2
01. Mrz	107.2	140.3	106.1	177.5	90.4	105.3	86.1	32.8	182.5	161.6	53.4	45.9	110.0	99.1	45.2	148.3	63.8	108.7	108.0	65.2	147.8	104.0
02. Mrz	116.5	142.3	108.0	178.3	97.2	105.3	86.1	32.8	186.5	167.4	56.6	45.9	110.8	106.1	45.2	151.3	65.6	111.5	112.5	65.2	154.5	106.9
03. Mrz	124.1	147.0	108.0	180.8	101.9	107.9	86.1	32.8	190.8	176.3	59.5	45.9	110.8	112.9	45.4	154.5	67.5	111.9	120.5	65.6	163.0	110.1
04. Mrz	128.9	147.0	109.3	186.4	106.7	111.3	86.1	32.8	198.6	176.5	63.1	45.9	111.7	118.9	49.3	158.8	69.3	112.7	128.6	71.3	167.8	113.4
05. Mrz	133.6	147.0	110.6	190.9	117.5	115.1	86.1	32.8	203.9	176.5	64.0	45.9	111.7	120.6	58.6	162.0	72.1	113.6	133.0	76.7	171.6	116.4
06. Mrz	137.1	151.3	112.6	200.3	127.5	117.8	86.1	32.8	211.7	179.6	64.8	45.9	111.7	124.2	69.1	167.0	75.4	113.8	136.2	83.0	180.2	120.4
07. Mrz	139.2	158.2	119.8	210.7	131.9	121.5	86.1	32.8	217.6	183.9	68.6	45.9	112.6	125.8	78.2	174.8	82.5	113.8	139.4	86.4	185.9	124.5
08. Mrz	142.8	165.8	128.7	217.8	139.1	122.6	88.3	36.0	223.3	188.0	72.9	45.9	118.4	128.1	88.8	184.7	93.4	113.8	145.5	89.2	191.0	129.7
09. Mrz	146.4	175.1	137.7	225.0	149.4	122.6	91.3	41.1	228.1	193.9	75.3	45.9	123.4	133.6	95.9	197.8	99.6	115.4	152.6	94.8	197.7	135.4
10. Mrz	149.2	181.2	147.2	231.1	161.2	122.6	95.3	42.7	233.4	198.8	78.5	45.9	128.7	140.3	95.9	207.7	104.9	116.8	156.9	104.5	202.0	140.2
11. Mrz	153.5	188.3	158.4	240.5	173.7	122.6	96.3	42.7	240.3	206.2	81.5	45.9	133.6	147.7	95.9	215.0	107.5	119.6	163.9	114.4	203.4	145.3
12. Mrz	165.0	193.6	167.5	251.9	183.8	122.6	97.7	42.7	248.9	210.4	87.1	46.4	141.5	154.9	95.9	224.7	111.7	120.6	172.1	122.4	208.5	150.9
13. Mrz	178.9	201.2	173.0	262.9	188.6	131.2	101.8	42.7	257.3	215.9	93.8	47.8	149.7	159.8	95.9	236.6	113.9	122.6	180.0	125.5	216.6	156.9
14. Mrz	190.0	210.5	178.5	262.9	191.1	139.0	105.5	42.7	262.3	222.3	101.6	51.8	157.7	163.9	95.9	246.2	115.1	124.7	188.6	130.3	224.1	162.1
15. Mrz	197.5	213.4	184.2	268.4	194.8	149.4	111.4	42.7	268.1	231.1	108.0	54.1	167.9	175.2	95.9	252.3	117.0	127.0	196.5	135.1	232.2	167.7
16. Mrz	203.5	218.2	193.5	279.5	199.3	163.2	124.3	42.7	274.1	238.3	113.3	56.4	174.3	188.9	97.7	260.4	120.8	129.0	207.4	139.4	239.7	174.5
17. Mrz	210.7	224.1	202.9	291.0	205.3	178.4	138.8	42.7	281.3	240.3	119.0	63.7	177.0	197.0	100.0	268.2	129.3	131.8	213.7	139.4	243.2	180.8
18. Mrz	218.7	228.7	205.1	302.8	210.8	192.2	151.3	43.3	284.3	241.5	122.1	74.6	180.6	202.0	102.6	275.2	137.7	134.4	222.1	139.4	245.3	186.4
19. Mrz	224.0	231.7	207.1	310.4	216.4	202.3	163.5	45.0	286.0	242.9	126.7	87.4	183.6	205.9	104.6	285.0	141.3	136.6	230.9	139.4	249.0	191.4
20. Mrz	227.8	236.6	207.1	319.4	220.3	212.0	174.0	45.0	288.6	245.0	127.9	99.6	186.6	211.3	104.6	297.9	145.0	140.0	239.5	139.6	255.1	196.3
21. Mrz	233.4	243.1	212.6	329.4	223.7	219.2	182.9	45.4	290.5	246.3	132.2	106.2	192.2	219.1	104.6	305.9	147.8	144.4	243.8	139.6	263.8	201.2

22. Mrz	235.5	253.2	220.3	337.6	229.1	225.7	195.9	45.4	292.0	246.8	136.8	112.1	199.7	230.1	104.6	310.7	148.8	149.4	247.4	142.4	275.4	206.6
23. Mrz	239.4	262.2	229.5	341.3	239.4	230.1	209.2	47.0	293.3	246.8	140.0	119.9	208.1	241.3	104.6	312.6	154.7	153.8	254.5	144.8	281.9	212.1
24. Mrz	248.0	271.9	240.4	344.1	250.9	233.1	222.8	53.2	297.7	246.8	140.8	131.6	216.1	252.5	104.6	313.6	159.8	158.6	261.6	149.1	287.2	218.3
25. Mrz	258.1	281.7	244.5	345.7	265.1	235.6	235.9	62.8	304.0	246.8	143.0	145.1	225.7	263.3	104.6	315.7	162.9	163.2	269.2	155.4	291.4	224.7
26. Mrz	268.4	287.7	244.9	348.9	276.4	236.4	247.5	75.1	312.6	249.0	148.1	151.4	230.7	273.0	104.6	317.5	166.5	171.4	276.4	159.7	295.5	230.5
27. Mrz	276.4	293.2	247.9	351.1	287.7	236.8	259.4	87.1	319.9	251.7	151.7	157.8	238.0	283.2	104.6	322.7	170.2	178.6	285.6	163.4	300.7	236.6
28. Mrz	284.0	294.5	254.4	356.1	301.6	240.6	273.3	94.7	328.8	256.5	155.8	164.9	243.6	294.2	104.6	332.0	177.1	183.6	297.6	167.7	307.0	243.4
29. Mrz	293.0	297.3	263.6	363.7	317.5	245.4	284.6	101.2	335.8	263.7	158.8	173.7	251.2	302.0	104.6	344.0	184.8	190.0	308.4	170.5	316.9	251.0
30. Mrz	304.9	301.8	270.2	371.7	329.9	252.6	294.1	111.6	343.4	273.2	161.9	181.1	260.1	307.5	104.6	357.2	188.8	196.6	323.0	176.5	327.8	259.0
31. Mrz	316.7	307.1	277.5	382.6	336.9	263.5	304.3	120.8	352.3	280.4	167.6	185.1	270.6	311.1	104.6	372.1	193.8	200.1	337.7	181.8	335.3	266.7
01. Apr	329.6	313.4	289.8	396.1	346.1	277.2	313.6	129.2	361.9	288.2	175.1	186.4	282.8	314.2	104.6	385.0	196.6	205.8	347.5	185.6	342.9	274.8
02. Apr	344.2	321.7	304.1	409.3	349.7	291.8	323.3	136.2	371.4	294.7	185.6	191.5	299.2	320.1	104.7	398.9	199.6	215.7	356.8	193.9	351.0	284.0
03. Apr	357.1	331.9	318.6	421.1	353.5	303.1	337.7	140.7	375.4	299.5	200.8	197.7	307.7	328.7	104.7	413.6	202.9	229.0	364.5	204.2	355.0	292.7
04. Apr	368.1	342.8	329.3	431.5	358.3	312.3	351.2	141.9	378.9	305.7	212.1	202.7	315.3	334.5	105.8	426.0	205.6	239.3	373.1	213.3	358.5	300.3
05. Apr	378.8	346.2	336.0	438.8	364.8	319.4	360.7	143.5	385.0	310.2	220.2	207.6	322.8	338.6	105.8	435.1	208.1	247.6	379.1	217.5	363.3	306.1
06. Apr	394.3	349.4	344.2	442.8	369.5	323.8	368.5	146.6	394.9	311.0	232.5	217.1	337.1	343.6	105.8	447.0	211.1	254.6	384.1	226.4	372.2	313.2
07. Apr	402.1	355.3	352.9	447.2	369.7	327.3	376.6	152.3	401.2	312.5	242.4	230.1	351.3	344.9	108.3	462.4	216.5	258.9	392.5	240.3	384.8	320.4
08. Apr	410.9	361.9	361.1	451.9	369.7	332.0	381.5	157.8	408.5	314.9	251.5	237.5	361.9	347.8	110.9	468.9	222.2	264.1	401.9	256.9	395.4	327.1
09. Apr	421.6	370.7	366.8	456.6	369.7	335.6	385.2	162.6	418.1	319.2	262.5	245.3	371.1	353.9	114.7	476.0	233.7	270.8	415.7	269.8	404.2	334.5
10. Apr	433.1	377.8	376.3	462.5	369.7	341.0	390.9	166.4	428.7	323.6	278.0	251.0	382.4	361.0	120.1	486.0	247.8	280.5	424.0	278.3	409.3	342.3
11. Apr	441.6	385.5	384.3	466.3	373.5	343.9	397.8	170.2	438.2	330.3	291.8	254.3	398.1	366.5	129.5	494.5	256.0	293.0	431.0	289.7	412.4	349.9
12. Apr	449.6	391.2	389.3	472.8	381.2	349.1	406.2	175.2	451.8	336.1	304.5	259.7	404.1	371.6	136.6	503.2	265.6	301.9	439.5	300.0	413.9	357.3
13. Apr	455.6	397.0	392.3	478.6	390.9	357.3	416.5	183.2	468.0	343.1	317.3	268.5	410.2	376.7	145.5	510.7	273.3	309.0	447.3	309.2	413.9	364.9
14. Apr	457.4	404.4	392.3	484.3	404.2	364.6	429.4	190.9	485.8	347.4	329.9	275.7	416.8	382.2	161.2	516.7	287.6	317.6	454.4	321.0	417.0	373.4
15. Apr	460.9	412.2	392.3	489.2	419.6	375.3	441.3	201.2	503.7	350.7	344.6	283.0	424.5	385.4	174.5	521.3	303.4	327.0	460.4	332.9	425.5	382.3
16. Apr	466.2	421.5	396.3	493.3	434.0	388.1	447.6	210.3	521.3	352.5	345.7	287.1	433.1	387.5	187.9	527.9	314.4	333.8	465.4	354.3	435.5	390.6
17. Apr	471.3	432.0	401.8	501.1	447.1	403.3	456.7	218.1	530.7	355.8	353.6	294.4	442.5	391.0	203.9	539.0	321.2	337.9	468.5	368.7	446.3	399.3
18. Apr	477.8	442.3	405.7	511.2	458.5	411.2	469.7	225.7	537.5	362.4	360.8	305.6	454.2	397.1	212.7	545.4	327.3	344.0	470.0	385.6	459.8	407.8
19. Apr	484.1	454.2	410.7	518.3	461.7	419.4	476.9	233.8	546.6	368.5	370.8	311.0	469.0	403.7	219.4	553.8	334.6	350.8	473.4	405.6	475.0	416.2

20. Apr	491.5	466.2	414.1	526.5	469.7	429.4	483.1	242.7	553.4	377.9	382.9	318.3	484.5	409.6	224.8	565.0	345.2	358.0	481.6	425.2	490.6	425.7
21. Apr	504.6	482.2	417.7	536.0	484.2	442.0	488.5	254.8	560.5	389.1	395.0	322.2	501.8	413.3	231.5	574.8	357.2	369.3	486.7	441.7	506.4	436.1
22. Apr	516.4	497.5	423.2	548.8	497.3	458.2	495.5	262.9	575.3	398.3	402.7	326.0	519.0	417.6	239.7	584.8	364.3	378.1	491.0	460.0	522.9	446.6
23. Apr	527.8	512.1	430.5	563.0	508.6	470.0	506.1	271.6	591.5	409.3	409.8	333.4	536.6	423.4	248.4	597.1	373.9	381.4	499.0	472.4	536.4	457.2
24. Apr	538.3	524.0	439.2	577.5	522.3	479.3	517.4	285.4	608.4	420.1	419.4	345.9	553.2	429.1	263.9	610.1	388.0	382.4	502.3	485.0	548.9	468.6
25. Apr	550.3	537.8	451.1	591.8	540.8	489.1	530.0	300.2	626.9	429.9	430.7	362.9	568.2	436.6	280.3	624.5	399.0	383.9	505.9	495.5	559.8	480.7
26. Apr	564.7	554.3	459.8	601.1	556.5	501.2	542.5	311.8	644.4	441.9	443.1	373.6	581.6	445.1	289.5	636.1	410.4	384.7	510.0	502.9	569.1	491.6
27. Apr	576.2	571.0	469.2	609.5	568.5	516.2	554.8	321.4	662.0	456.3	452.8	384.7	589.3	454.9	294.2	646.1	416.0	386.1	515.1	514.6	575.5	501.6
28. Apr	590.1	587.9	479.6	617.9	584.0	531.5	566.1	328.3	680.0	465.9	459.6	399.4	600.1	470.9	298.9	657.0	420.9	388.8	521.2	525.4	580.7	512.1
29. Apr	602.9	600.5	491.3	626.3	601.0	544.4	581.6	332.1	696.0	475.5	468.2	418.1	613.8	485.6	306.4	668.5	428.5	393.8	532.6	539.3	589.3	523.6
30. Apr	617.0	614.4	505.1	636.5	615.9	561.7	597.9	335.2	708.7	484.7	478.8	430.0	628.3	501.1	314.0	680.1	434.5	398.1	543.9	546.6	599.1	534.8

Daten zur Kältesumme

Kältesummen in K																									
Winter	55/56 Roetgen	62/63 Roetgen	96/97 Schmidt	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	Mittel
01. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
02. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09. Nov	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. Nov	0.6	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. Nov	0.6	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12. Nov	0.6	0.8	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13. Nov	0.6	1.3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. Nov	0.6	1.3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
15. Nov	0.6	1.6	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
16. Nov	0.6	2.5	0.0	0.0	1.6	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
17. Nov	0.6	2.9	0.0	0.0	1.6	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
18. Nov	1.2	2.9	0.0	0.0	2.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
19. Nov	1.2	2.9	0.0	0.0	2.2	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
20. Nov	1.2	4.1	0.0	4.4	3.4	0.0	1.1	0.0	0.0	0.9	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
21. Nov	1.2	6.7	0.0	9.0	6.2	0.0	1.1	0.0	0.0	2.5	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
22. Nov	1.2	9.3	0.0	14.6	8.2	0.0	1.1	0.0	0.0	2.5	2.6	0.0	1.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
23. Nov	1.2	11.9	0.0	21.3	8.2	0.0	1.1	0.0	0.0	2.5	4.5	0.0	1.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
24. Nov	1.2	11.9	0.0	25.2	8.2	0.0	1.1	0.0	0.0	2.5	4.5	0.0	1.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	2.3
25. Nov	5.1	11.9	0.0	26.5	8.2	0.0	1.1	0.0	0.0	2.5	6.5	0.0	1.4	4.3	0.0	0.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	2.4
26. Nov	5.1	11.9	0.0	26.5	8.2	0.0	1.1	0.0	0.0	2.6	7.7	0.0	1.4	4.3	0.0	3.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	2.6
27. Nov	5.1	11.9	1.0	26.5	8.2	0.0	1.1	0.0	0.0	2.6	8.7	0.0	1.4	4.3	0.0	7.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	2.9
28. Nov	5.1	11.9	1.3	26.5	8.2	0.0	1.1	0.0	0.0	2.6	8.9	0.0	1.4	4.3	0.0	11.3	0.0	0.0	0.0	0.0	0.3	2.0	0.0	0.0	3.2
29. Nov	5.1	11.9	1.3	26.5	8.2	0.0	1.1	0.0	0.0	2.6	8.9	0.0	1.4	4.9	0.0	15.7	0.0	0.0	0.0	0.0	0.3	4.2	0.0	0.0	3.5
30. Nov	5.1	11.9	1.3	27.6	8.2	0.0	1.1	0.0	0.0	2.6	9.2	0.0	1.4	4.9	0.0	20.4	0.0	0.3	0.0	0.0	0.3	4.2	0.0	0.0	3.8
01. Dez	5.1	14.0	1.3	30.0	8.2	0.0	1.1	0.0	0.0	2.6	10.4	0.0	1.4	4.9	0.0	28.5	0.0	0.5	0.0	0.0	0.3	4.2	0.2	0.0	4.4
02. Dez	5.1	14.0	1.3	35.1	8.2	0.0	1.1	0.0	0.0	2.6	10.4	0.0	1.4	4.9	0.0	36.7	0.0	0.7	0.0	0.1	0.3	4.2	2.9	0.0	5.2

25. Feb	297.5	405.2	180.0	85.2	29.9	65.3	67.1	152.8	52.1	98.1	100.1	26.6	29.2	112.3	187.5	175.2	134.0	145.5	0.7	43.5	27.3	68.4	50.0	43.0	80.7
26. Feb	305.2	407.6	180.0	85.2	29.9	65.3	67.1	152.8	54.6	100.6	104.0	26.6	29.2	112.3	187.5	175.2	134.0	145.5	0.7	43.5	27.3	68.4	57.1	43.0	81.4
27. Feb	309.7	410.2	180.0	85.2	29.9	65.4	67.1	152.8	58.4	108.1	104.7	26.6	29.2	112.3	187.5	175.2	134.0	147.1	0.7	43.5	27.7	68.4	65.1	43.0	82.5
28. Feb	309.8	412.6	180.0	85.2	29.9	65.4	67.1	152.8	58.4	118.6	105.7	26.6	29.2	112.3	187.5	175.2	134.0	147.9	0.7	43.5	28.1	68.4	74.9	43.0	83.5
01. Mrz	309.8	414.2	180.0	85.2	29.9	65.4	67.1	152.8	64.6	129.5	109.0	26.6	29.2	112.3	187.5	175.2	134.0	148.7	0.7	43.5	29.0	68.4	80.8	43.0	84.9
02. Mrz	309.8	414.4	180.0	85.2	29.9	65.4	67.1	152.8	64.9	134.1	113.0	26.6	29.2	112.3	187.5	175.2	134.0	150.3	0.7	43.5	29.0	68.4	86.2	43.0	85.6
03. Mrz	309.8	414.4	180.0	85.2	29.9	66.7	67.1	152.8	64.9	138.1	115.4	26.6	29.2	112.3	187.6	175.3	134.0	150.3	0.7	43.5	29.0	68.4	86.2	43.0	86.0
04. Mrz	309.8	414.4	180.0	85.2	30.4	66.7	67.1	152.8	64.9	141.9	118.9	26.6	29.2	112.3	188.9	175.3	134.0	150.3	0.7	43.5	29.0	68.4	86.2	43.0	86.4
05. Mrz	309.8	414.4	180.0	85.2	30.4	66.7	67.1	152.8	64.9	144.2	121.1	26.6	30.8	112.3	190.5	175.8	134.0	150.3	0.7	43.5	29.0	68.4	86.2	43.0	86.8
06. Mrz	310.6	414.4	180.0	85.2	30.4	66.7	67.1	152.8	64.9	149.9	122.0	26.6	30.8	112.3	194.9	176.0	134.0	150.3	0.7	43.5	29.0	68.4	86.2	43.0	87.4
07. Mrz	311.0	414.4	180.0	85.2	30.4	66.7	67.1	152.8	64.9	151.0	122.3	26.6	30.8	112.3	199.9	176.0	134.0	150.3	0.7	43.5	29.0	68.4	86.2	43.0	87.7
08. Mrz	313.8	414.4	180.0	85.2	30.4	66.7	67.1	152.8	64.9	151.0	122.3	26.6	30.8	112.3	204.3	176.0	134.0	150.3	0.7	43.5	29.4	68.4	86.2	43.0	87.9
09. Mrz	315.5	414.4	180.0	85.2	30.4	66.7	67.1	152.8	65.5	151.0	122.3	26.6	30.8	112.3	208.2	176.0	134.0	150.3	0.7	43.5	29.4	68.4	86.2	43.0	88.1
10. Mrz	316.4	414.4	180.0	85.2	30.4	66.7	67.1	152.8	66.4	151.0	122.3	26.6	30.8	112.3	209.7	176.0	134.0	151.9	0.7	43.5	29.4	68.4	86.2	43.0	88.3
11. Mrz	319.0	414.4	180.0	85.2	30.4	66.7	67.1	152.8	67.3	151.0	125.8	26.6	30.8	112.3	213.9	176.0	134.0	157.4	0.7	43.5	29.4	68.4	86.2	43.0	89.0
12. Mrz	320.9	414.4	180.0	85.2	30.4	66.7	67.1	152.8	67.8	151.0	133.3	26.6	30.8	112.3	213.9	176.0	134.0	163.7	0.7	43.5	29.4	68.4	86.2	43.0	89.6
13. Mrz	322.7	414.4	180.0	85.2	30.4	66.7	67.1	152.8	67.8	151.0	137.9	26.6	30.8	112.3	213.9	176.0	134.0	169.2	0.7	43.5	29.4	68.4	86.2	43.0	90.1
14. Mrz	324.9	414.4	180.0	85.2	30.4	66.7	67.3	152.8	67.8	151.0	139.4	26.6	30.8	112.3	213.9	176.0	134.0	174.1	0.7	43.5	29.4	68.4	86.2	43.0	90.4
15. Mrz	324.9	414.4	180.0	85.2	30.4	66.7	67.3	152.8	67.8	151.0	140.0	26.6	30.8	112.3	213.9	176.0	134.0	177.2	0.7	43.5	29.4	68.4	86.2	43.0	90.6
16. Mrz	324.9	414.4	180.0	85.2	30.4	66.7	67.3	152.8	67.8	151.0	141.1	26.6	30.8	112.3	213.9	176.0	134.0	177.2	0.7	43.5	29.4	68.4	86.2	43.0	90.7
17. Mrz	324.9	414.4	180.0	85.2	30.4	66.7	67.3	152.8	67.8	151.0	141.3	26.6	30.8	112.3	213.9	176.0	134.0	177.2	0.7	43.5	29.4	68.4	90.9	43.0	90.9
18. Mrz	324.9	414.4	180.0	85.2	30.4	66.7	67.3	152.8	67.8	151.0	141.3	26.6	30.8	112.3	213.9	176.0	134.0	177.2	0.7	43.5	29.4	68.4	95.6	43.0	91.1
19. Mrz	324.9	414.4	180.0	85.2	30.4	66.7	67.3	152.8	67.8	151.0	141.3	26.6	30.8	112.3	213.9	176.0	134.0	177.2	0.7	43.5	29.4	68.4	99.0	43.0	91.3
20. Mrz	324.9	414.4	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	141.6	26.6	30.8	112.3	213.9	176.0	134.0	177.5	0.7	43.5	29.4	68.4	99.0	43.0	91.4
21. Mrz	324.9	415.0	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	141.6	26.6	30.8	112.3	213.9	176.0	134.0	180.6	0.7	43.5	29.4	68.4	99.0	43.0	91.6
22. Mrz	324.9	417.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	30.8	112.3	213.9	176.0	134.0	181.5	0.7	43.5	29.4	68.4	99.0	43.0	91.6
23. Mrz	324.9	420.6	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	33.0	112.3	213.9	176.0	134.0	183.4	0.7	43.5	29.4	68.4	99.0	43.0	91.8
24. Mrz	324.9	421.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	33.8	112.3	213.9	176.0	134.0	186.9	0.7	43.5	29.4	68.4	99.0	43.0	92.0
25. Mrz	324.9	421.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	35.9	112.3	213.9	176.0	134.0	189.2	0.7	43.5	29.4	68.4	99.0	43.0	92.2
26. Mrz	324.9	421.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	35.9	112.3	213.9	176.0	134.0	191.5	0.7	43.5	29.4	68.4	99.0	43.0	92.3
27. Mrz	324.9	421.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	35.9	112.3	213.9	176.0	134.0	192.2	0.7	43.5	29.4	68.4	99.0	43.0	92.4
28. Mrz	324.9	421.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	35.9	112.3	213.9	176.0	134.0	193.1	0.7	43.5	29.4	68.4	99.0	43.0	92.4
29. Mrz	324.9	421.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	35.9	112.3	213.9	176.0	134.0	196.4	0.7	43.5	29.4	68.4	99.0	43.0	92.6
30. Mrz	324.9	421.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	35.9	112.3	213.9	176.0	134.0	198.3	0.7	43.5	29.4	68.4	99.0	43.0	92.7
31. Mrz	324.9	421.8	180.0	85.2	30.4	68.6	67.3	152.8	67.8	151.0	142.2	26.6	35.9	112.3	213.9	176.0	134.0	200.5	0.7	43.5	29.4	68.4	99.0	43.6	92.8

Die Daten sind nur für den privaten Gebrauch bestimmt!!



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