

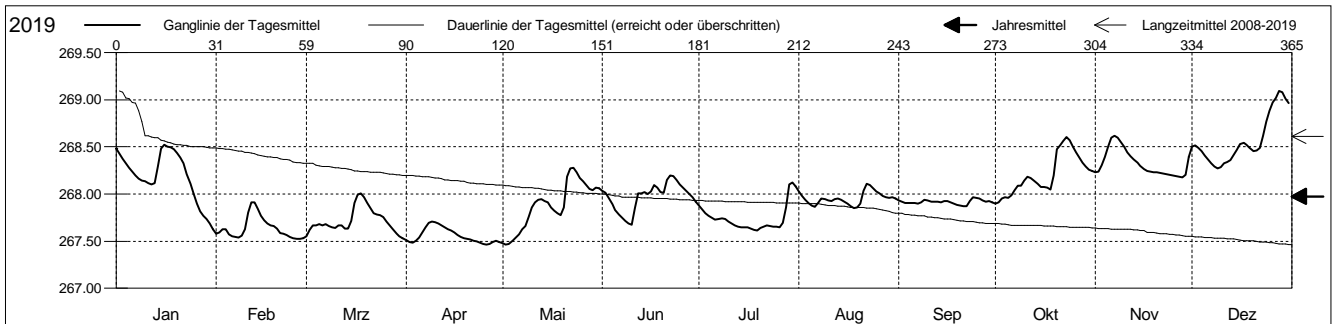
**Grundwasserstände**

Birstal  
 Münchenstein 20.J.54 Zementfabrik  
 Abstichpunkt: 0.00 m ü.M.  
 OK Terrain: 0.00 m ü.M.

**Amt für Umweltschutz und Energie**  
**Kanton Basel-Landschaft**  
 Koordinaten: 0.00 / 0.00

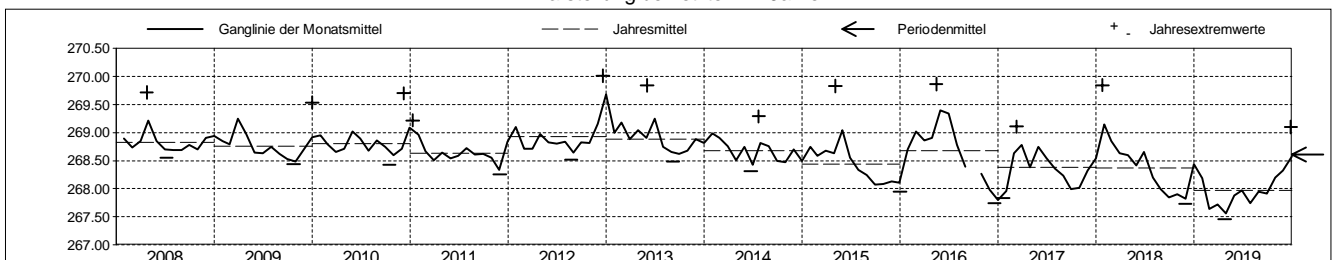
| 2019         | Januar   | Februar  | März     | April    | Mai      | Juni     | Juli     | August   | September | Oktober  | November | Dezember |    |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----|
| 1            | 268.48   | 267.58   | 267.55   | 267.51   | 267.48   | 268.04   | 267.88   | 268.03   | 267.93    | 267.90 - | 268.23   | 268.50   | 1  |
| 2            | 268.43   | 267.59   | 267.62   | 267.49   | 267.46 - | 268.01   | 267.84   | 267.98   | 267.92    | 267.91   | 268.24   | 268.51   | 2  |
| 3            | 268.37   | 267.63   | 267.66   | 267.48   | 267.47   | 267.96   | 267.80   | 267.94   | 267.91    | 267.95   | 268.31   | 268.49   | 3  |
| 4            | 268.32   | 267.62   | 267.67   | 267.51   | 267.50   | 267.89   | 267.77   | 267.91   | 267.90    | 267.97   | 268.39   | 268.45   | 4  |
| 5            | 268.28   | 267.57   | 267.68   | 267.54   | 267.54   | 267.83   | 267.75   | 267.88   | 267.91    | 267.96   | 268.50   | 268.41   | 5  |
| Tagesmittel  |          |          |          |          |          |          |          |          |           |          |          |          |    |
| 6            | 268.24   | 267.55   | 267.67   | 267.59   | 267.57   | 267.78   | 267.73   | 267.86   | 267.90    | 267.99   | 268.60   | 268.36   | 6  |
| 7            | 268.20   | 267.54   | 267.68   | 267.65   | 267.63   | 267.75   | 267.74   | 267.91   | 267.90    | 268.04   | 268.62 + | 268.32   | 7  |
| 8            | 268.17   | 267.54   | 267.66   | 267.70   | 267.66   | 267.71   | 267.74   | 267.95   | 267.91    | 268.09   | 268.59   | 268.29   | 8  |
| 9            | 268.15   | 267.56   | 267.64   | 267.71 + | 267.76   | 267.69   | 267.73   | 267.94   | 267.94    | 268.09   | 268.55   | 268.27 - | 9  |
| 10           | 268.13   | 267.63   | 267.64   | 267.70   | 267.86   | 267.67 - | 267.71   | 267.93   | 267.93    | 268.14   | 268.50   | 268.29   | 10 |
| 11           | 268.12   | 267.80   | 267.67   | 267.69   | 267.91   | 267.85   | 267.68   | 267.93   | 267.92    | 268.18   | 268.44   | 268.32   | 11 |
| 12           | 268.10   | 267.91 + | 267.66   | 267.67   | 267.94   | 268.01   | 267.67   | 267.94   | 267.92    | 268.17   | 268.40   | 268.34   | 12 |
| 13           | 268.12   | 267.91 + | 267.64   | 267.65   | 267.95   | 268.00   | 267.66   | 267.95   | 267.92    | 268.14   | 268.37   | 268.36   | 13 |
| 14           | 268.29   | 267.85   | 267.63   | 267.62   | 267.93   | 268.02   | 267.64   | 267.94   | 267.91    | 268.11   | 268.34   | 268.42   | 14 |
| 15           | 268.48   | 267.77   | 267.72   | 267.61   | 267.91   | 268.00   | 267.65   | 267.92   | 267.92    | 268.08   | 268.30   | 268.47   | 15 |
| Max. +       |          |          |          |          |          |          |          |          |           |          |          |          |    |
| 16           | 268.52 + | 267.72   | 267.91   | 267.59   | 267.86   | 268.03   | 267.65   | 267.90   | 267.92    | 268.07   | 268.27   | 268.53   | 16 |
| 17           | 268.50   | 267.69   | 268.00 + | 267.57   | 267.83   | 268.09   | 267.63   | 267.87   | 267.91    | 268.07   | 268.24   | 268.55   | 17 |
| 18           | 268.49   | 267.67   | 268.00 + | 267.55   | 267.79   | 268.07   | 267.62   | 267.85 - | 267.90    | 268.05   | 268.23   | 268.52   | 18 |
| 19           | 268.47   | 267.66   | 267.96   | 267.53   | 267.77   | 268.02   | 267.61 - | 267.86   | 267.88    | 268.19   | 268.23   | 268.49   | 19 |
| 20           | 268.43   | 267.63   | 267.91   | 267.52   | 267.86   | 268.01   | 267.64   | 267.90   | 267.88    | 268.48   | 268.23   | 268.46   | 20 |
| Min. -       |          |          |          |          |          |          |          |          |           |          |          |          |    |
| 21           | 268.39   | 267.59   | 267.85   | 267.51   | 268.18   | 268.15   | 267.65   | 268.03   | 267.87 -  | 268.52   | 268.23   | 268.46   | 21 |
| 22           | 268.32   | 267.58   | 267.80   | 267.50   | 268.27   | 268.20 + | 267.66   | 268.11 + | 267.87 -  | 268.57   | 268.22   | 268.49   | 22 |
| 23           | 268.21   | 267.57   | 267.78   | 267.50   | 268.28 + | 268.19   | 267.66   | 268.09   | 267.92    | 268.61 + | 268.21   | 268.62   | 23 |
| 24           | 268.11   | 267.55   | 267.78   | 267.48   | 268.23   | 268.15   | 267.65   | 268.06   | 267.96 +  | 268.20   | 268.20   | 268.77   | 24 |
| 25           | 268.00   | 267.53   | 267.75   | 267.47   | 268.17   | 268.10   | 267.65   | 268.03   | 267.96 +  | 268.50   | 268.19   | 268.89   | 25 |
| 26           | 267.90   | 267.52 - | 267.71   | 267.46 - | 268.13   | 268.07   | 267.65   | 268.00   | 267.95    | 268.44   | 268.19   | 268.97   | 26 |
| 27           | 267.82   | 267.52 - | 267.67   | 267.47   | 268.10   | 268.03   | 267.70   | 267.98   | 267.93    | 268.38   | 268.18 - | 269.02   | 27 |
| 28           | 267.77   | 267.53   | 267.63   | 267.49   | 268.05   | 268.00   | 267.85   | 267.96   | 267.92    | 268.33   | 268.18 - | 269.10 + | 28 |
| 29           | 267.73   |          | 267.58   | 267.50   | 268.04   | 267.97   | 268.10   | 267.96   | 267.92    | 268.29   | 268.20   | 269.08   | 29 |
| 30           | 267.69   |          | 267.55   | 267.49   | 268.07   | 267.92   | 268.12 + | 267.96   | 267.91    | 268.26   | 268.39   | 269.01   | 30 |
| 31           | 267.63 - |          | 267.53 - |          | 268.06   |          | 268.08   | 267.95   |           | 268.25   |          | 268.96   | 31 |
| Monatsmittel | 268.19   | 267.64   | 267.72   | 267.56 - | 267.88   | 267.97   | 267.74   | 267.95   | 267.92    | 268.20   | 268.33   | 268.57 + |    |
| Maximum      | 268.53   | 267.93   | 268.01   | 267.71 - | 268.29   | 268.20   | 268.14   | 268.11   | 267.97    | 268.61   | 268.62   | 269.10 + |    |
| Datum        | 16.01    | 12.02    | 17.03    | 08.04    | 22.05    | 22.06    | 29.07    | 22.08    | 24.09     | 23.10    | 07.11    | 28.12    |    |
| Amplitude    | 0.93     | 0.41     | 0.49     | 0.25     | 0.83     | 0.53     | 0.53     | 0.26     | 0.11      | 0.72     | 0.45     | 0.84     |    |

Jahr 2019 Mittel 267.97 m ü.M. Maximum 269.10 (28.Dez) Minimum 267.46 (26.Apr) Amplitude 1.64 m



| Periode      | 2008 - 2019 |               |        |          |                      |        |          |          |                      |          |        |           |        |
|--------------|-------------|---------------|--------|----------|----------------------|--------|----------|----------|----------------------|----------|--------|-----------|--------|
| Monatsmittel | 268.79 +    | 268.71        | 268.69 | 268.68   | 268.75               | 268.70 | 268.55   | 268.47   | 268.40 -             | 268.40 - | 268.50 | 268.69    |        |
| Maximum      | 269.85      | 269.61        | 269.49 | 269.77   | 269.87               | 269.84 | 269.29 - | 269.41   | 269.48               | 269.33   | 270.00 | 270.01 +  |        |
| Jahr         | 2018        | 2013          | 2009   | 2012     | 2016                 | 2013   | 2014     | 2010     | 2008                 | 2012     | 2012   | 2012      |        |
| Minimum      | 267.60      | 267.52        | 267.52 | 267.46 - | 267.46 -             | 267.67 | 267.61   | 267.85 + | 267.77               | 267.76   | 267.73 | 267.73    |        |
| Jahr         | 2019        | 2019          | 2019   | 2019     | 2019                 | 2019   | 2019     | 2019     | 2018                 | 2018     | 2018   | 2018      |        |
| Amplitude    | 1.44 +      | 0.83          | 0.68 - | 1.23     | 1.20                 | 1.10   | 0.93     | 0.82     | 0.90                 | 0.72     | 1.19   | 1.26      |        |
| Jahr         | 2016        | 2013          | 2015   | 2012     | 2015                 | 2018   | 2014     | 2010     | 2008                 | 2008     | 2012   | 2018      |        |
| Periode      | Mittel      | 268.61 m ü.M. |        | Maximum  | 270.01 (19.Dez 2012) |        |          | Minimum  | 267.46 (26.Apr 2019) |          |        | Amplitude | 2.55 m |

Darstellung der letzten 12 Jahre

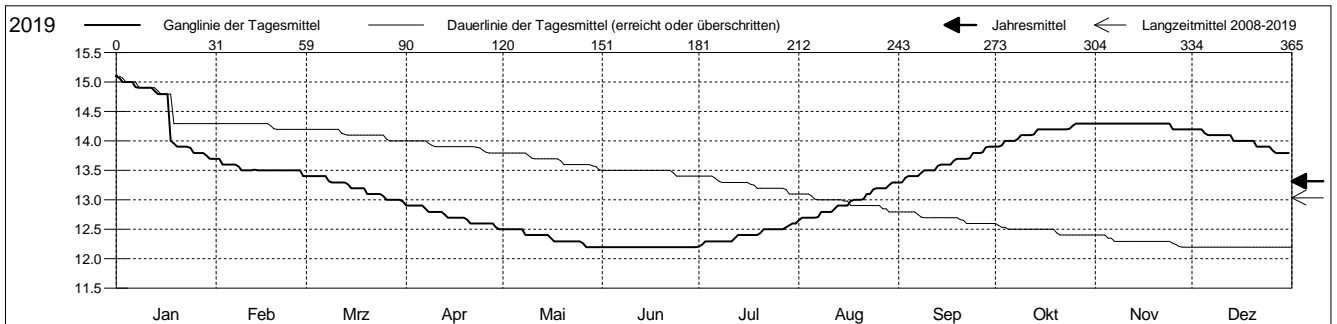


**Grundwassertemperatur**

Birstal  
 Münchenstein 20.J.54 Zementfabrik  
 Abstichpunkt: 0.00 m ü.M.  
 OK Terrain: 0.00 m ü.M.

**Amt für Umweltschutz und Energie**  
**Kanton Basel-Landschaft**  
 Koordinaten: 0.00 / 0.00

| 2019         | Januar | Februar | März   | April   | Mai           | Juni   | Juli    | August        | September | Oktober   | November | Dezember |    |
|--------------|--------|---------|--------|---------|---------------|--------|---------|---------------|-----------|-----------|----------|----------|----|
| 1            | 15.1 + | 13.7 +  | 13.4 + | 12.9 +  | 12.5 +        | 12.2 + | 12.2 -  | 12.6 -        | 13.3 -    | 13.9 -    | 14.3 +   | 14.2 +   | 1  |
| 2            | 15.1 + | 13.7 +  | 13.4 + | 12.9 +  | 12.5 +        | 12.2 + | 12.2 -  | 12.7          | 13.3 -    | 13.9 -    | 14.3 +   | 14.2 +   | 2  |
| 3            | 15.0   | 13.6    | 13.4 + | 12.9 +  | 12.5 +        | 12.2 + | 12.3    | 12.7          | 13.4      | 13.9 -    | 14.3 +   | 14.2 +   | 3  |
| 4            | 15.0   | 13.6    | 13.4 + | 12.9 +  | 12.5 +        | 12.2 + | 12.3    | 12.7          | 13.4      | 14.0      | 14.3 +   | 14.2 +   | 4  |
| 5            | 15.0   | 13.6    | 13.4 + | 12.9 +  | 12.5 +        | 12.2 + | 12.3    | 12.7          | 13.4      | 14.0      | 14.3 +   | 14.1     | 5  |
| 6            | 15.0   | 13.6    | 13.4 + | 12.9 +  | 12.5 +        | 12.2 + | 12.3    | 12.7          | 13.4      | 14.0      | 14.3 +   | 14.1     | 6  |
| 7            | 14.9   | 13.6    | 13.4 + | 12.9 +  | 12.5 +        | 12.2 + | 12.3    | 12.7          | 13.4      | 14.0      | 14.3 +   | 14.1     | 7  |
| 8            | 14.9   | 13.6    | 13.3   | 12.8    | 12.4          | 12.2 + | 12.3    | 12.8          | 13.5      | 14.0      | 14.3 +   | 14.1     | 8  |
| 9            | 14.9   | 13.5    | 13.3   | 12.8    | 12.4          | 12.2 + | 12.3    | 12.8          | 13.5      | 14.1      | 14.3 +   | 14.1     | 9  |
| 10           | 14.9   | 13.5    | 13.3   | 12.8    | 12.4          | 12.2 + | 12.3    | 12.8          | 13.5      | 14.1      | 14.3 +   | 14.1     | 10 |
| 11           | 14.9   | 13.5    | 13.3   | 12.8    | 12.4          | 12.2 + | 12.3    | 12.8          | 13.5      | 14.1      | 14.3 +   | 14.1     | 11 |
| 12           | 14.9   | 13.5    | 13.3   | 12.8    | 12.4          | 12.2 + | 12.3    | 12.8          | 13.5      | 14.1      | 14.3 +   | 14.1     | 12 |
| 13           | 14.8   | 13.5    | 13.3   | 12.8    | 12.4          | 12.2 + | 12.4    | 12.9          | 13.6      | 14.1      | 14.3 +   | 14.1     | 13 |
| 14           | 14.8   | 13.5    | 13.3   | 12.7    | 12.4          | 12.2 + | 12.4    | 12.9          | 13.6      | 14.2      | 14.3 +   | 14.0     | 14 |
| 15           | 14.8   | 13.5    | 13.2   | 12.7    | 12.4          | 12.2 + | 12.4    | 12.9          | 13.6      | 14.2      | 14.3 +   | 14.0     | 15 |
| 16           | 14.8   | 13.5    | 13.2   | 12.7    | 12.3          | 12.2 + | 12.4    | 12.9          | 13.6      | 14.2      | 14.3 +   | 14.0     | 16 |
| 17           | 14.8   | 13.5    | 13.2   | 12.7    | 12.3          | 12.2 + | 12.4    | 13.0          | 13.6      | 14.2      | 14.3 +   | 14.0     | 17 |
| 18           | 14.0   | 13.5    | 13.2   | 12.7    | 12.3          | 12.2 + | 12.4    | 13.0          | 13.7      | 14.2      | 14.3 +   | 14.0     | 18 |
| 19           | 14.0   | 13.5    | 13.2   | 12.7    | 12.3          | 12.2 + | 12.4    | 13.0          | 13.7      | 14.2      | 14.3 +   | 14.0     | 19 |
| 20           | 13.9   | 13.5    | 13.1   | 12.7    | 12.3          | 12.2 + | 12.4    | 13.0          | 13.7      | 14.2      | 14.3 +   | 14.0     | 20 |
| 21           | 13.9   | 13.5    | 13.1   | 12.6    | 12.3          | 12.2 + | 12.5    | 13.0          | 13.7      | 14.2      | 14.3 +   | 13.9     | 21 |
| 22           | 13.9   | 13.5    | 13.1   | 12.6    | 12.3          | 12.2 + | 12.5    | 13.1          | 13.7      | 14.2      | 14.3 +   | 13.9     | 22 |
| 23           | 13.9   | 13.5    | 13.1   | 12.6    | 12.3          | 12.2 + | 12.5    | 13.1          | 13.7      | 14.2      | 14.3 +   | 13.9     | 23 |
| 24           | 13.9   | 13.5    | 13.1   | 12.6    | 12.3          | 12.2 + | 12.5    | 13.2          | 13.8      | 14.2      | 14.3 +   | 13.9     | 24 |
| 25           | 13.8   | 13.5    | 13.1   | 12.6    | 12.3          | 12.2 + | 12.5    | 13.2          | 13.8      | 14.3 +    | 14.2 -   | 13.9     | 25 |
| 26           | 13.8   | 13.5    | 13.0 - | 12.6    | 12.3          | 12.2 + | 12.5    | 13.2          | 13.8      | 14.3 +    | 14.2 -   | 13.8 -   | 26 |
| 27           | 13.8   | 13.5    | 13.0 - | 12.6    | 12.2 -        | 12.2 + | 12.5    | 13.2          | 13.8      | 14.3 +    | 14.2 -   | 13.8 -   | 27 |
| 28           | 13.8   | 13.4 -  | 13.0 - | 12.6    | 12.2 -        | 12.2 + | 12.5    | 13.2          | 13.9 +    | 14.3 +    | 14.2 -   | 13.8 -   | 28 |
| 29           | 13.8   |         | 13.0 - | 12.5 -  | 12.2 -        | 12.2 + | 12.6 +  | 13.3 +        | 13.9 +    | 14.3 +    | 14.2 -   | 13.8 -   | 29 |
| 30           | 13.7 - |         | 13.0 - | 12.5 -  | 12.2 -        | 12.2 + | 12.6 +  | 13.3 +        | 13.9 +    | 14.3 +    | 14.2 -   | 13.8 -   | 30 |
| 31           | 13.7 - |         | 13.0 - |         | 12.2 -        |        | 12.6 +  | 13.3 +        |           | 14.3 +    |          | 13.8 -   | 31 |
| Monatsmittel | 14.4 + | 13.5    | 13.2   | 12.7    | 12.4          | 12.2 - | 12.4    | 13.0          | 13.6      | 14.1      | 14.3     | 14.0     |    |
| Maximum      | 15.1 + | 13.7    | 13.4   | 12.9    | 12.5          | 12.2 - | 12.6    | 13.3          | 13.9      | 14.3      | 14.3     | 14.2     |    |
| Datum        | 01.01  | 01.02   | 01.03  | 01.04   | 01.05         | 01.06  | 27.07   | 29.08         | 27.09     | 24.10     | 01.11    | 01.12    |    |
| Minimum      | 13.7   | 13.4    | 12.9   | 12.5    | 12.2 -        | 12.2 - | 12.2 -  | 12.6          | 13.3      | 13.9      | 14.2 +   | 13.8     |    |
| Datum        | 29.01  | 28.02   | 31.03  | 29.04   | 26.05         | 01.06  | 01.07   | 01.08         | 01.09     | 01.10     | 25.11    | 26.12    |    |
| Amplitude    | 1.4    | 0.3     | 0.5    | 0.4     | 0.3           | 0.0 +  | 0.4     | 0.7           | 0.6       | 0.4       | 0.1      | 0.4      |    |
| Jahr 2019    | Mittel | 13.3 °C |        | Maximum | 15.1 (01.Jan) |        | Minimum | 12.2 (26.Mai) |           | Amplitude | 2.9 °C   |          |    |



| Periode      | 2008 - 2019 |         |      |         |                    |      |         |                    |      |           |        |        |  |
|--------------|-------------|---------|------|---------|--------------------|------|---------|--------------------|------|-----------|--------|--------|--|
| Monatsmittel | 13.3        | 12.9    | 12.5 | 12.3    | 12.2 -             | 12.3 | 12.7    | 13.2               | 13.6 | 13.9 +    | 13.9 + | 13.7   |  |
| Maximum      | 15.1        | 13.7    | 13.4 | 12.9 -  | 13.0               | 13.4 | 14.0    | 14.5               | 14.9 | 15.2      | 15.3   | 15.4 + |  |
| Jahr         | 2019        | 2019    | 2019 | 2016    | 2018               | 2018 | 2018    | 2018               | 2018 | 2018      | 2018   | 2018   |  |
| Minimum      | 12.6        | 12.2    | 11.7 | 11.6 -  | 11.6 -             | 11.7 | 12.0    | 12.4               | 13.0 | 13.3      | 13.4 + | 13.1   |  |
| Jahr         | 2009        | 2009    | 2009 | 2009    | 2009               | 2008 | 2008    | 2008               | 2008 | 2008      | 2008   | 2008   |  |
| Amplitude    | 1.4 +       | 0.5     | 0.5  | 0.4     | 0.3 -              | 0.5  | 0.6     | 0.7                | 0.6  | 0.4       | 0.4    | 0.6    |  |
| Jahr         | 2019        | 2008    | 2009 | 2019    | 2019               | 2018 | 2018    | 2019               | 2019 | 2019      | 2012   | 2012   |  |
| Periode      | Mittel      | 13.0 °C |      | Maximum | 15.4 (07.Dez 2018) |      | Minimum | 11.6 (12.Apr 2009) |      | Amplitude | 3.8 °C |        |  |

Darstellung der letzten 12 Jahre

