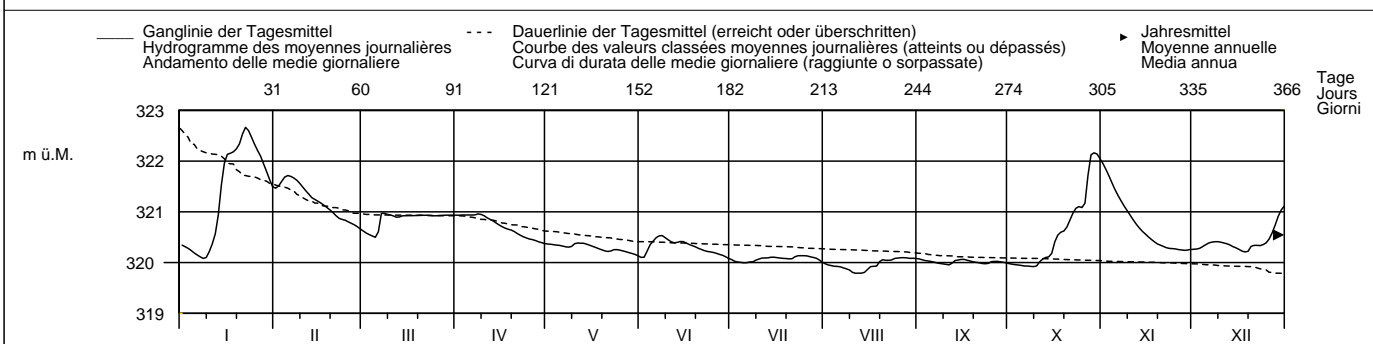


|                 |             |                        |            |            |            |                   |                  |          |  |
|-----------------|-------------|------------------------|------------|------------|------------|-------------------|------------------|----------|--|
| Wasserstand     |             | <b>Liestal - Hanro</b> |            |            |            |                   |                  | BL 4273  |  |
| Niveau d'eau    | Koordinaten | 622759 / 258255        | Höhe       | 327 m ü.M. | Fläche     | - km <sup>2</sup> | Mittlere Höhe    | - m ü.M. |  |
| Livello d'acqua | Coordonnées |                        | Altitude   |            | Superficie |                   | Altitude moyenne |          |  |
|                 | Coordinate  |                        | Altitudine |            |            |                   | Altitudine media |          |  |

| 2004                       | Jan./Janv.<br>Genn. | Feb./Févr.<br>Febbr. | März/Mars<br>Marzo | April/Avril<br>Aprile | Mai/Mai<br>Maggio | Juni/Juin<br>Giugno | Juli/Juillet<br>Luglio | Aug./Août<br>Agosto | Sept./Sept.<br>Sett. | Okt./Oct.<br>Ott. | Nov./Nov.<br>Nov. | Dez./Déc.<br>Dic. |          |        |
|----------------------------|---------------------|----------------------|--------------------|-----------------------|-------------------|---------------------|------------------------|---------------------|----------------------|-------------------|-------------------|-------------------|----------|--------|
| 1                          | 320.34              | 321.47               | 320.62             | 320.93                | 320.37            | 320.10              | 320.06                 | 319.97              | 320.07 +             | 319.98            | 321.95 +          | 320.26            | 1        |        |
| 2                          | 320.31              | 321.51               | 320.58             | 320.93                | 320.36            | 320.11              | 320.02                 | 319.95              | 320.06               | 319.97            | 321.83            | 320.27            | 2        |        |
| 3                          | 320.28              | 321.60               | 320.55             | 320.94                | 320.35            | 320.23              | 320.01                 | 319.94              | 320.04               | 319.96            | 321.70            | 320.28            | 3        |        |
| 4                          | 320.24              | 321.69               | 320.52             | 320.94                | 320.34            | 320.35              | 320.00                 | 319.93              | 320.03               | 319.95            | 321.56            | 320.32            | 4        |        |
| 5                          | 320.19              | 321.72 +             | 320.50             | 320.94                | 320.34            | 320.42              | 319.99 -               | 319.92              | 320.02               | 319.94            | 321.43            | 320.35            | 5        |        |
| <b>Tagesmittel</b>         |                     |                      |                    |                       |                   |                     |                        |                     |                      |                   |                   |                   |          |        |
| <b>Moyenne journalière</b> | 6                   | 320.15               | 321.70             | 320.61                | 320.94            | 320.33              | 320.49                 | 320.00              | 319.92               | 320.01            | 319.93            | 321.32            | 320.39   | 6      |
| <b>Media giornaliera</b>   | 7                   | 320.11               | 321.67             | 320.97 +              | 320.94            | 320.31              | 320.53 +               | 320.01              | 319.90               | 319.99            | 319.93            | 321.21            | 320.40   | 7      |
|                            | 8                   | 320.08               | 321.62             | 320.97 +              | 320.96 +          | 320.30              | 320.53 +               | 320.01              | 319.88               | 319.98            | 319.92            | 321.11            | 320.41   | 8      |
|                            | 9                   | 320.10               | 321.56             | 320.95                | 320.95            | 320.32              | 320.49                 | 320.05              | 319.85               | 319.97            | 319.92            | 321.02            | 320.41   | 9      |
|                            | 10                  | 320.22               | 321.49             | 320.94                | 320.92            | 320.37              | 320.45                 | 320.07              | 319.81               | 319.96            | 319.93            | 320.93            | 320.40   | 10     |
|                            | 11                  | 320.37               | 321.41             | 320.92                | 320.88            | 320.39 +            | 320.41                 | 320.09              | 319.79               | 319.95 -          | 320.02            | 320.84            | 320.39   | 11     |
|                            | 12                  | 320.57               | 321.35             | 320.89                | 320.85            | 320.38              | 320.39                 | 320.09              | 319.79               | 319.99            | 320.07            | 320.76            | 320.37   | 12     |
|                            | 13                  | 320.94               | 321.28             | 320.90                | 320.82            | 320.38              | 320.40                 | 320.09              | 319.79               | 320.04            | 320.10            | 320.68            | 320.35   | 13     |
| <b>m ü.M.</b>              | 14                  | 321.53               | 321.24             | 320.92                | 320.78            | 320.36              | 320.41                 | 320.10              | 319.81               | 320.05            | 320.11            | 320.62            | 320.31   | 14     |
|                            | 15                  | 321.96               | 321.21             | 320.92                | 320.74            | 320.34              | 320.41                 | 320.11              | 319.86               | 320.06            | 320.18            | 320.56            | 320.29   | 15     |
|                            | 16                  | 322.13               | 321.17             | 320.92                | 320.71            | 320.32              | 320.38                 | 320.10              | 319.92               | 320.06            | 320.41            | 320.51            | 320.26   | 16     |
|                            | 17                  | 322.16               | 321.13             | 320.92                | 320.68            | 320.30              | 320.35                 | 320.09              | 319.93               | 320.05            | 320.54            | 320.46            | 320.23   | 17     |
|                            | 18                  | 322.18               | 321.08             | 320.93                | 320.66            | 320.27              | 320.33                 | 320.08              | 319.93               | 320.03            | 320.60            | 320.41            | 320.21   | 18     |
|                            | 19                  | 322.24               | 321.04             | 320.93                | 320.64            | 320.25              | 320.31                 | 320.08              | 320.02               | 320.02            | 320.62            | 320.37            | 320.22   | 19     |
|                            | 20                  | 322.34               | 320.98             | 320.93                | 320.61            | 320.23              | 320.28                 | 320.07              | 320.06               | 320.01            | 320.70            | 320.34            | 320.32   | 20     |
|                            | 21                  | 322.53               | 320.92             | 320.93                | 320.57            | 320.22              | 320.26                 | 320.08              | 320.05               | 319.99            | 320.84            | 320.32            | 320.34   | 21     |
|                            | 22                  | 322.67 +             | 320.87             | 320.93                | 320.54            | 320.23              | 320.23                 | 320.12              | 320.04               | 319.98            | 320.97            | 320.29            | 320.34   | 22     |
|                            | 23                  | 322.60               | 320.85             | 320.93                | 320.51            | 320.25              | 320.22                 | 320.13              | 320.05               | 319.98            | 321.07            | 320.28            | 320.33   | 23     |
|                            | 24                  | 322.47               | 320.83             | 320.92                | 320.49            | 320.25              | 320.21                 | 320.14 +            | 320.08               | 319.98            | 321.10            | 320.27            | 320.35   | 24     |
|                            | 25                  | 322.33               | 320.80             | 320.92                | 320.46            | 320.24              | 320.20                 | 320.13              | 320.09               | 320.02            | 321.08            | 320.27            | 320.39   | 25     |
| <b>+Maximum</b>            | 26                  | 322.21               | 320.77             | 320.93                | 320.45            | 320.23              | 320.18                 | 320.13              | 320.10 +             | 320.02            | 321.17            | 320.26            | 320.47   | 26     |
| <b>Massimo</b>             | 27                  | 322.10               | 320.75             | 320.93                | 320.43            | 320.21              | 320.16                 | 320.11              | 320.10 +             | 320.02            | 321.72            | 320.25            | 320.59   | 27     |
| <b>- Minimum</b>           | 28                  | 321.94               | 320.71             | 320.93                | 320.41            | 320.20              | 320.14                 | 320.10              | 320.09               | 320.01            | 322.12            | 320.24 -          | 320.74   | 28     |
| <b>Minimo</b>              | 29                  | 321.79               | 320.66             | 320.93                | 320.39            | 320.18              | 320.11                 | 320.09              | 320.08               | 320.01            | 322.16 +          | 320.25            | 320.91   | 29     |
|                            | 30                  | 321.63               | 320.63             | 320.93                | 320.38            | 320.16              | 320.08                 | 320.05              | 320.08               | 319.99            | 322.14            | 320.26            | 321.04   | 30     |
|                            | 31                  | 321.49               | 320.94             | 320.94                | 320.13            | 320.13              | 320.01                 | 320.01              | 320.08               | 320.08            | 322.05            | 321.11 +          | 321.11 + | 31     |
| <b>Monatsmittel</b>        |                     | 321.36 +             | 321.21             | 320.86                | 320.71            | 320.29              | 320.31                 | 320.07              | 319.96 -             | 320.01            | 320.62            | 320.74            | 320.42   | m ü.M. |
| <b>Moyenne mensuelle</b>   |                     |                      |                    |                       |                   |                     |                        |                     |                      |                   |                   |                   |          |        |
| <b>Media mensile</b>       |                     |                      |                    |                       |                   |                     |                        |                     |                      |                   |                   |                   |          |        |
| <b>Maximum/Massimo</b>     |                     | 322.68 +             | 321.72             | 321.00                | 320.97            | 320.39              | 320.54                 | 320.15              | 320.11               | 320.08 -          | 322.17            | 322.00            | 321.14   | m ü.M. |
| <b>Spitze/Pointe/Punta</b> |                     | 22.                  | 5.                 | 7.                    | 8.                | 10. 11.             | 7.                     | 25.                 | 26. 27.              | 1.                | 29.               | 1.                | 31.      |        |
| <b>Datum/Date/Data</b>     |                     |                      |                    |                       |                   |                     |                        |                     |                      |                   |                   |                   |          |        |
| <b>Minimum/Minimo</b>      |                     | 320.07               | 320.64 +           | 320.49                | 320.37            | 320.12              | 320.07                 | 319.99              | 319.78 -             | 319.95            | 319.91            | 320.24            | 320.20   | m ü.M. |
| <b>Momentan/momentan.</b>  |                     | 8.                   | 29.                | 5.                    | 30.               | 31.                 | 30.                    | 5.                  | 11.                  | 11.               | 8.                | 28.               | 19.      |        |
| <b>Datum/Date/Data</b>     |                     |                      |                    |                       |                   |                     |                        |                     |                      |                   |                   |                   |          |        |

Jahresmittel/Moyenne annuelle/Media annua 320.54 m ü.M.



| Periode/Période/Periodo                | 1982 - 2004 (23 Jahre/années/anni) |          |        |                          |          |        |        |               |          |        |        |          |                                 |  |
|--|------------------------------------|----------|--------|--------------------------|----------|--------|--------|---------------|----------|--------|--------|----------|---------------------------------|--|
| <b>Monatsmittel</b>                    | 321.04 +                           | 320.92   | 320.94 | 320.98                   | 320.73   | 320.66 | 320.41 | 320.22        | 320.17 - | 320.43 | 320.56 | 320.78   | m ü.M.                          |  |
| <b>Moyenne mensuelle</b>               |                                    |          |        |                          |          |        |        |               |          |        |        |          |                                 |  |
| <b>Media mensile</b>                   |                                    |          |        |                          |          |        |        |               |          |        |        |          |                                 |  |
| <b>Maximum/Massimo</b>                 | 323.08                             | 324.24 + | 323.40 | 323.31                   | 323.98   | 323.30 | 322.56 | 321.94 -      | 322.58   | 323.02 | 323.10 | 323.14   | m ü.M.                          |  |
| <b>Spitze/Pointe/Punta</b>             | 2000                               | 1999     | 2001   | 1992                     | 1999     | 1995   | 1999   | 1982          | 1987     | 2002   | 2002   | 1999     |                                 |  |
| <b>Jahr/Année/Anno</b>                 |                                    |          |        |                          |          |        |        |               |          |        |        |          |                                 |  |
| <b>Minimum/Minimo</b>                  | 318.75                             | 318.97   | 319.31 | 319.52                   | 319.60 + | 319.07 | 318.97 | 319.00        | 318.63   | 318.47 | 318.61 | 317.87 - | m ü.M.                          |  |
| <b>Momentan/momentan.</b>              | 1986                               | 1990     | 1993   | 1990                     | 1984     | 1989   | 1989   | 1993          | 1989     | 1989   | 1985   | 1989     |                                 |  |
| <b>Jahr/Année/Anno</b>                 |                                    |          |        |                          |          |        |        |               |          |        |        |          |                                 |  |
| <b>Grösstes Jahresmittel</b>           | 321.48 (1995) m ü.M.               |          |        | Mittlerer Wasserstand    |          |        |        | 320.65 m ü.M. |          |        |        |          | Kleinstes Jahresmittel          |  |
| <b>Moyenne annuelle la plus grande</b> |                                    |          |        | Niveau d'eau moyen       |          |        |        |               |          |        |        |          | Moyenne annuelle la plus petite |  |
| <b>La più grande media annua</b>       |                                    |          |        | Livello medio dell'acqua |          |        |        |               |          |        |        |          | La più piccola media annua      |  |
|  |                                    |          |        |                          |          |        |        |               |          |        |        |          | 319.64 (1989) m ü.M.            |  |

| Dauer der Wasserstände (erreicht oder überschritten) | Niveaux d'eau classés (atteints ou dépassés) |        |        |        |        |        | Durata dei livelli d'acqua (raggiunte o sorpassate) |        |        |        |        |        |        |
|--|--|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|
| Tage/Jours/Giorni                                    | 1  | 3      | 6      | 9      | 18     | 36     | 55  | 73     | 91     | 114    | 137    | 160    |        |
| 2004   | 322.67                                       | 322.53 | 322.33 | 322.18 | 321.95 | 321.49 | 321.04  | 320.93 | 320.92 | 320.71 | 320.53 | 320.40 | m ü.M. |
| 1982 - 2004  | 323.12                                       | 322.80 | 322.58 | 322.44 | 322.15 | 321.82 | 321.58  | 321.37 | 321.18 | 321.01 | 320.86 | 320.72 | m ü.M. |
| Tage/Jours/Giorni                                    | 182  | 205    | 228    | 251    | 274    | 292    | 310   | 329    | 347    | 356    | 362    | 365    |        |
| 2004   | 320.35                                       | 320.30 | 320.24 | 320.15 | 320.09 | 320.07 | 320.02  | 319.99 | 319.93 | 319.92 | 319.81 | 319.79 | m ü.M. |
| 1982 - 2004  | 320.60                                       | 320.48 | 320.38 | 320.26 | 320.12 | 319.98 | 319.81  | 319.57 | 319.24 | 318.98 | 318.65 | 317.96 | m ü.M. |

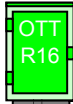
Kanton Basel Landschaft, Amt für Umweltschutz und Energie, Fachstelle Wasserwirtschaft und Grundwasser

Landeshydrologie

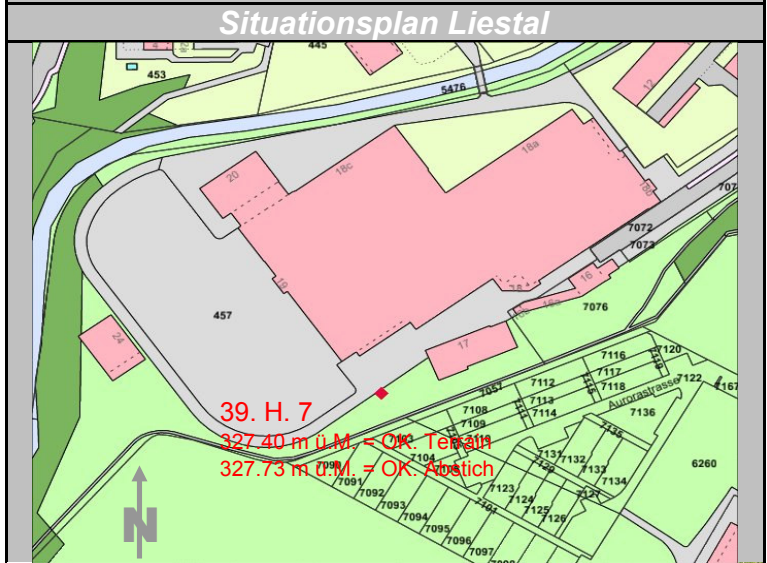
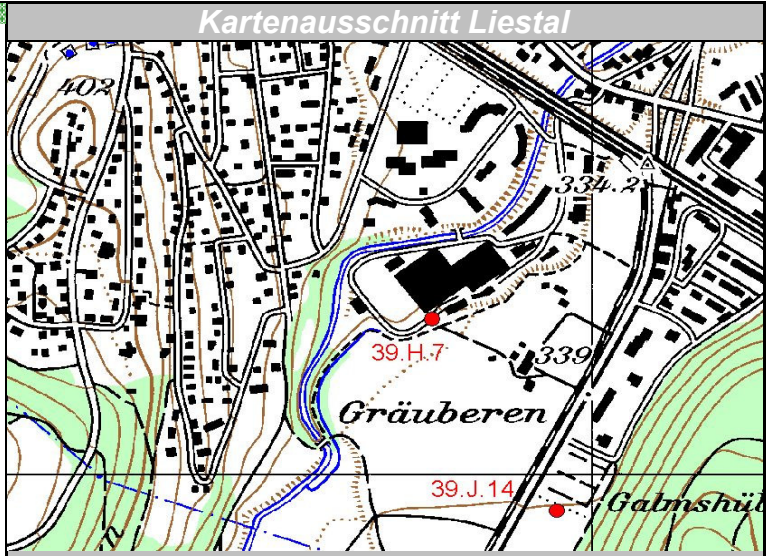
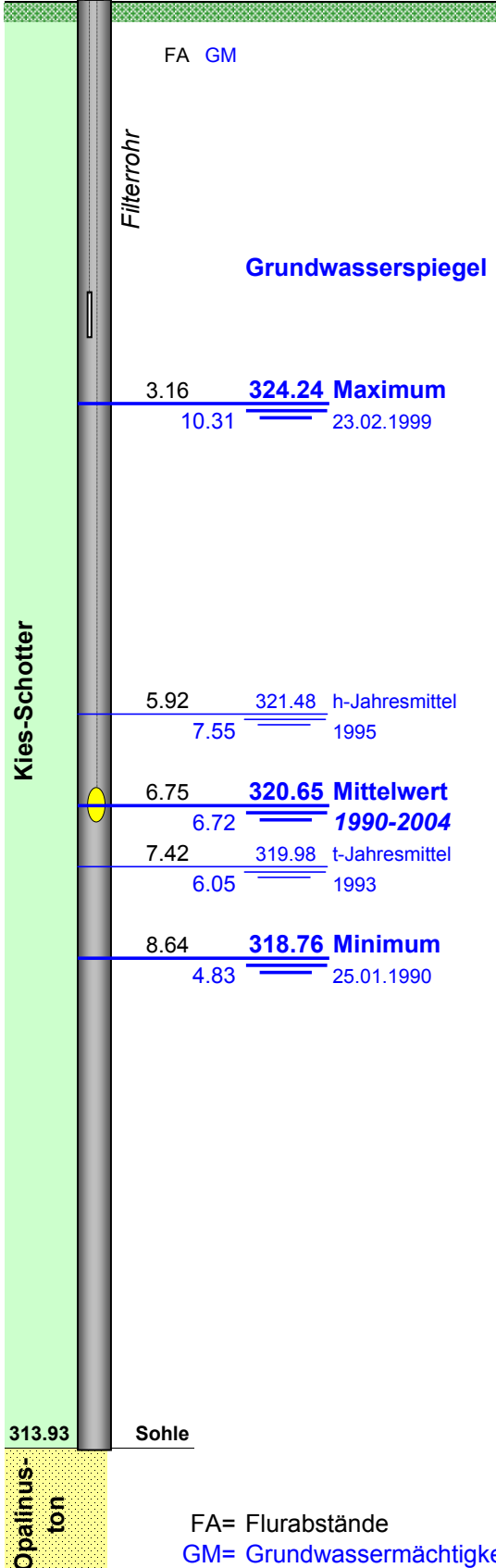
# Grundwasserspiegel im Frenketal

Station 39.H.7 Liestal  
Limnigraph

Hanro  
Koordinaten: 622'759.24 / 258'254.75



OK. Abstich  
327.73 m ü.M.  
OK. Terrain  
327.40 m ü.M.



FA= Flurabstände  
GM= Grundwassermächtigkeit in m