

**Table 3-1  
Comparison of Northern and Southern Weather Station Precipitation and Average Overall Groundwater Elevation Change**

| Quarterly Report (Month, year) | Quarterly precipitation (inches) North WS | Quarterly precipitation (inches) South WS | Average GW elevation Change* (feet) | CS-MW16-LGR GW Elevation Change* (feet) | Average GW Elevation |             |           | Approximate gradient (ft/ft) | Approximate gradient flow direction |
|--------------------------------|---|---|-------------------------------------|---|----------------------|-------------|-----------|------------------------------|-------------------------------------|
|                                |   |   |                                     |   | Lower Glen Rose      | Bexar Shale | Cow Creek |                              |                                     |
| September-99                   | 7.52                                      | --  | -188.4                              | -136.82                                 | 979.80               | --          | --        | 0.007                        | Southwest                           |
| December-99                    | 2.84                                      | --  | -4.9                                | -8.13                                   | 973.10               | --          | --        | 0.004                        | Southwest                           |
| March-00                       | 3.58                                      | --  | -9.3                                | -1.28                                   | 970.94               | --          | --        | 0.009                        | South-southeast                     |
| June-00                        | 11.1                                      | --  | 11.77                               | 0.29                                    | 976.27               | --          | --        | 0.006                        | Southeast                           |
| September-00                   | 1.96                                      | --  | -6.34                               | -13.28                                  | 967.03               | --          | --        | 0.006                        | Southeast                           |
| December-00                    | 14.48                                     | --  | 122.99                              | 142.19                                  | 1118.59              | --          | --        | 0.005                        | South-southeast                     |
| March-01                       | 10.13                                     | --  | 53.19                               | 48.07                                   | 1157.20              | --          | --        | 0.0125                       | Southeast                           |
| June-01                        | 6.58                                      | --  | -47.5                               | -48.04                                  | 1104.00              | 1106.85     | 1093.89   | 0.007                        | Southeast                           |
| September-01                   | 14.73                                     | --  | 23.96                               | 13.44                                   | 1140.55              | 1098.18     | 1095.75   | 0.0067                       | Southeast                           |
| December-01                    | 10.16                                     | --  | 15.46                               | 28.21                                   | 1149.68              | 1131.36     | 1125.63   | 0.0092                       | Southeast                           |
| March-02                       | 2.25                                      | --  | -70.97                              | -74.03                                  | 1077.91              | 1064.46     | 1059.27   | 0.0086                       | Southeast                           |
| June-02                        | 4.46                                      | --  | -48.29                              | -53.41                                  | 1030.51              | 1022.51     | 994.02    | 0.0137                       | South-southeast                     |
| September-02                   | 30.98                                     | --  | 104.5                               | 113.27                                  | 1130.87              | 1129.21     | 1098.34   | 0.017                        | South-southeast                     |
| December-02                    | 12.91                                     | --  | 19.48                               | 33.89                                   | 1143.98              | 1148.26     | 1133.11   | 0.0061                       | South-southeast                     |
| March-03                       | 6.22                                      | 6.68                                      | -8.47                               | -10.11                                  | 1135.18              | 1140.52     | 1122.95   | 0.012                        | South-southeast                     |
| June-03                        | 4.67                                      | 4.64                                      | -41.08                              | -37.1                                   | 1097.87              | 1095.36     | 1069.02   | 0.0022                       | South-southwest                     |
| September-03                   | 8.05                                      | 10.28                                     | -52.85                              | -52.21                                  | 1046.77              | 1060.39     | 1025.61   | 0.0045                       | South-southwest                     |
| December-03                    | 2.79                                      | 2.92                                      | -32.85                              | -38.68                                  | 1011.38              | 1029.39     | 1002.07   | 0.0095                       | South-southwest                     |
| March-04                       | 6.35                                      | 5.93                                      | 27.73                               | 34.07                                   | 1045.05              | 1029.55     | 1019.23   | 0.0046                       | South-southwest                     |
| June-04                        | 12.95                                     | 12.33                                     | 75.82                               | 84.31                                   | 1124.94              | 1107.43     | 1077.01   | 0.0012                       | South-southwest                     |
| September-04                   | 14.3                                      | 14.57                                     | -8.05                               | -19.31                                  | 1108.76              | 1110.17     | 1074.96   | 0.003                        | South-woutheast                     |

\* Change since previous quarter.

GW = groundwater, ft MSL = feet above mean sea level, ft/ft = feet per foot