

WISE SoE data request 2007 - Step 3

EIONET-Water: Lakes

United Kingdom

Aggregated data

Graphical presentation of possible outliers

Following graphical representations of time series were generated from data in tables, which are uploaded at Eionet Water library on EEA CIRCA on same place as this document. The tables contains list of records which responsible ETC-WTR data manager detected as outlying using documented rules and methods.

Responsible national data managers or experts can use this document to help them decide whether detected values are errors or results of natural processes which are possible in respective area. Results of their decision (either corrected values or explanation) should be prepared and delivered according published guidelines or upon an agreement with responsible data manager of the ETC-WTR.

Time series graphs are ordered by determinand, by station ID and by aggregation period in this order.

Determinand:

Alkalinity

WaterbaseID:

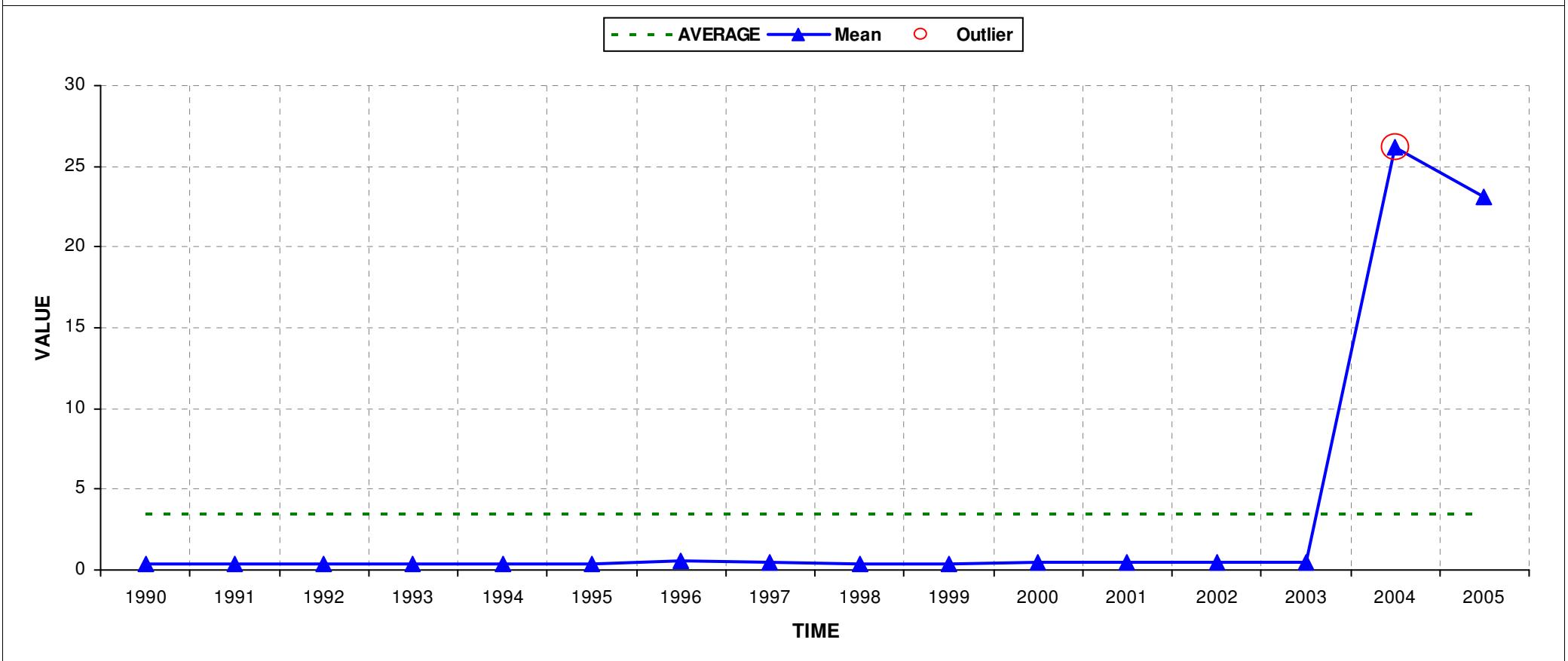
GB_LK_1590

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, meq/l]: 26.1727



Determinand:

Alkalinity

WaterbaseID:

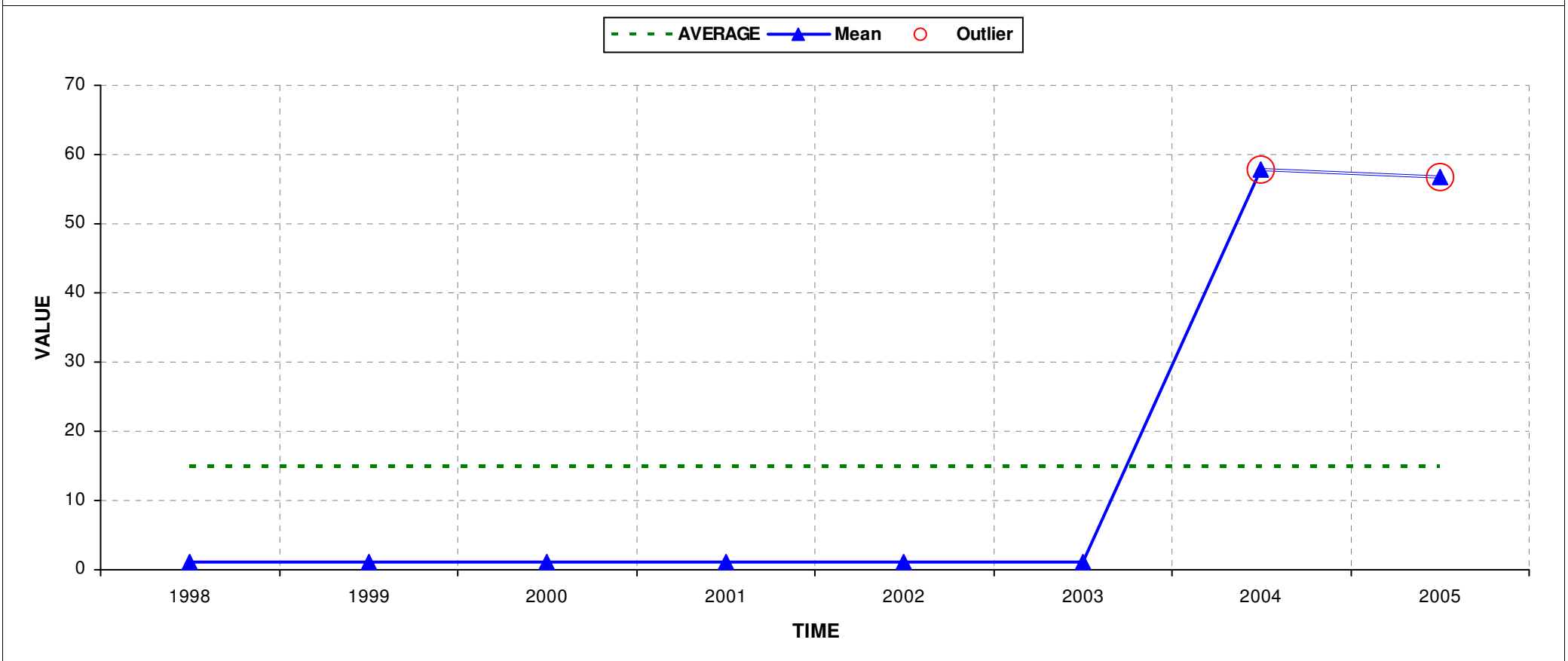
GB_LK_203476

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, meq/l]: 57.7273; [2005, meq/l]: 56.7091



Determinand:

Alkalinity

WaterbaseID:

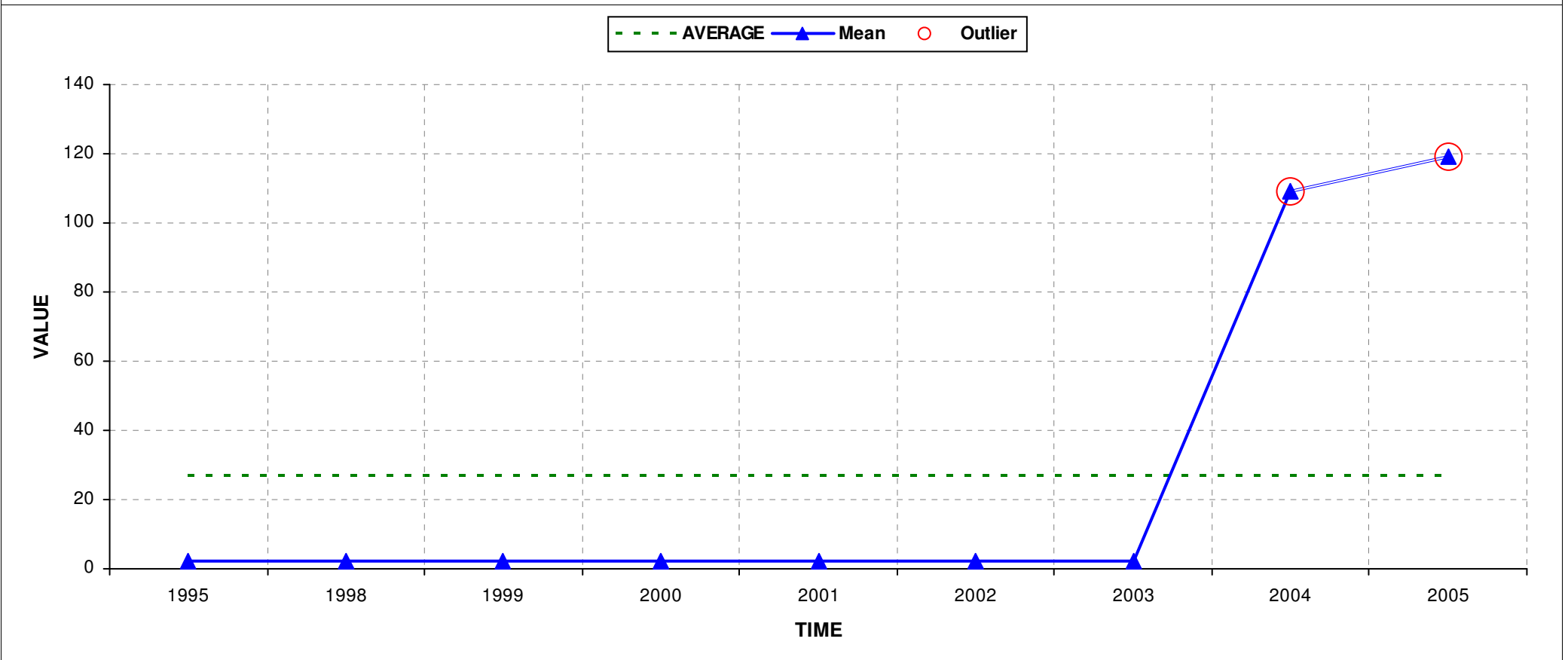
GB_LK_233780

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, meq/l]: 109.25; [2005, meq/l]: 119.25



Determinand:

Alkalinity

WaterbaseID:

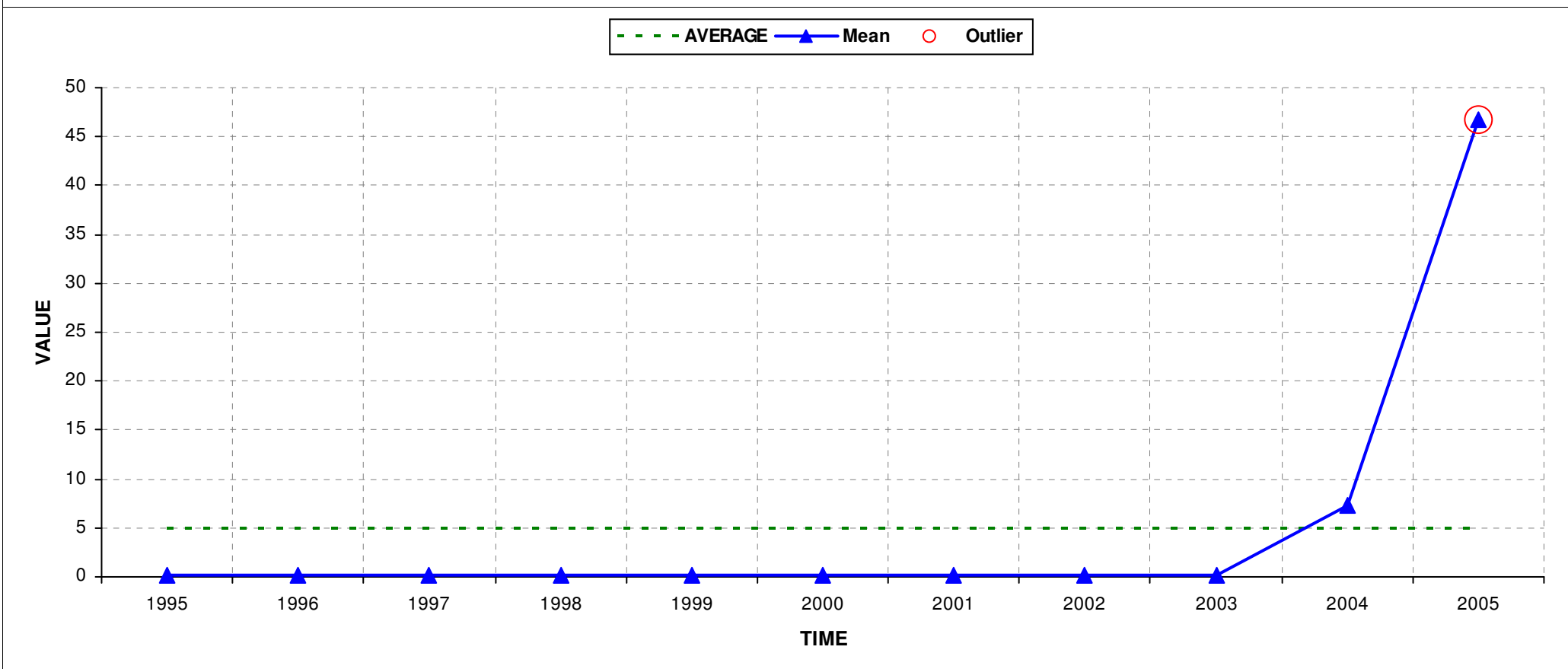
GB_LK_301817

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2005, meq/l]: 46.739



Determinand:

Alkalinity

WaterbaseID:

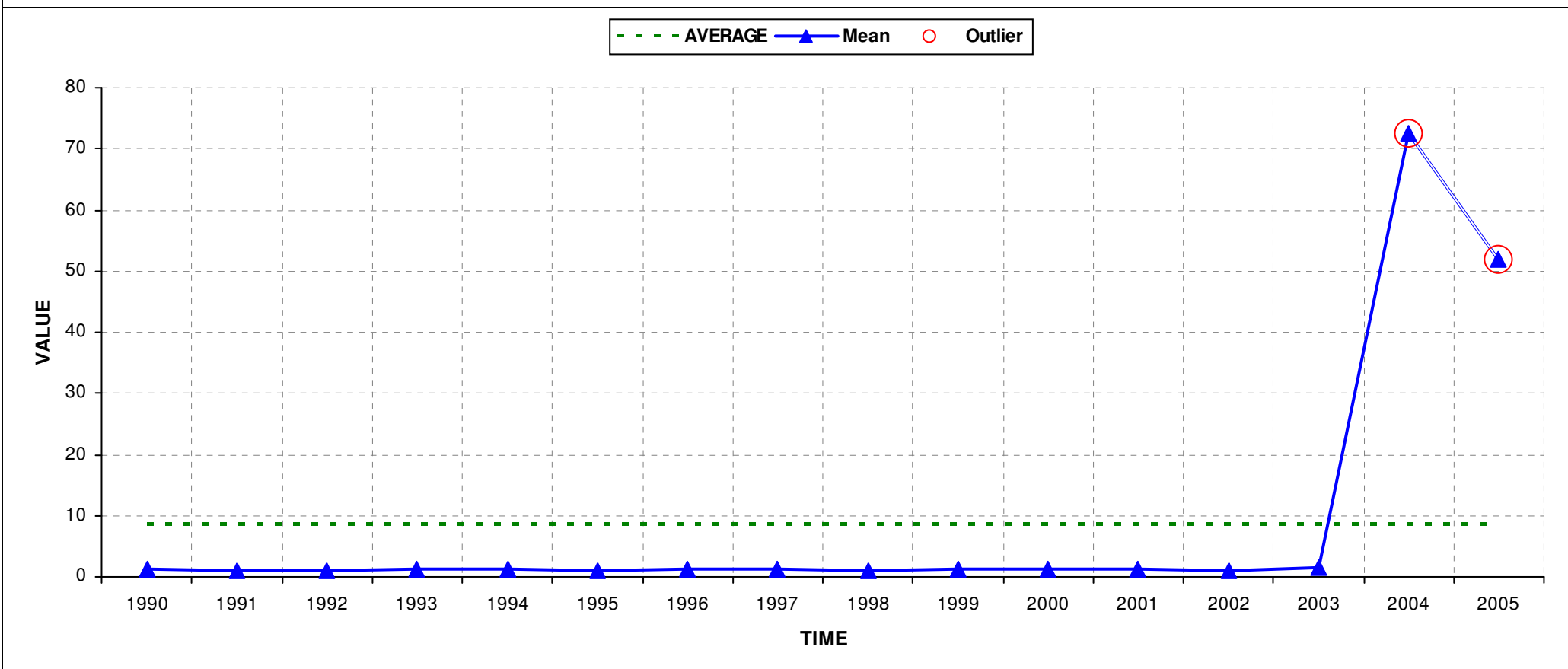
GB_LK_301827

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, meq/l]: 72.4583; [2005, meq/l]: 52.04



Determinand:

Alkalinity

WaterbaseID:

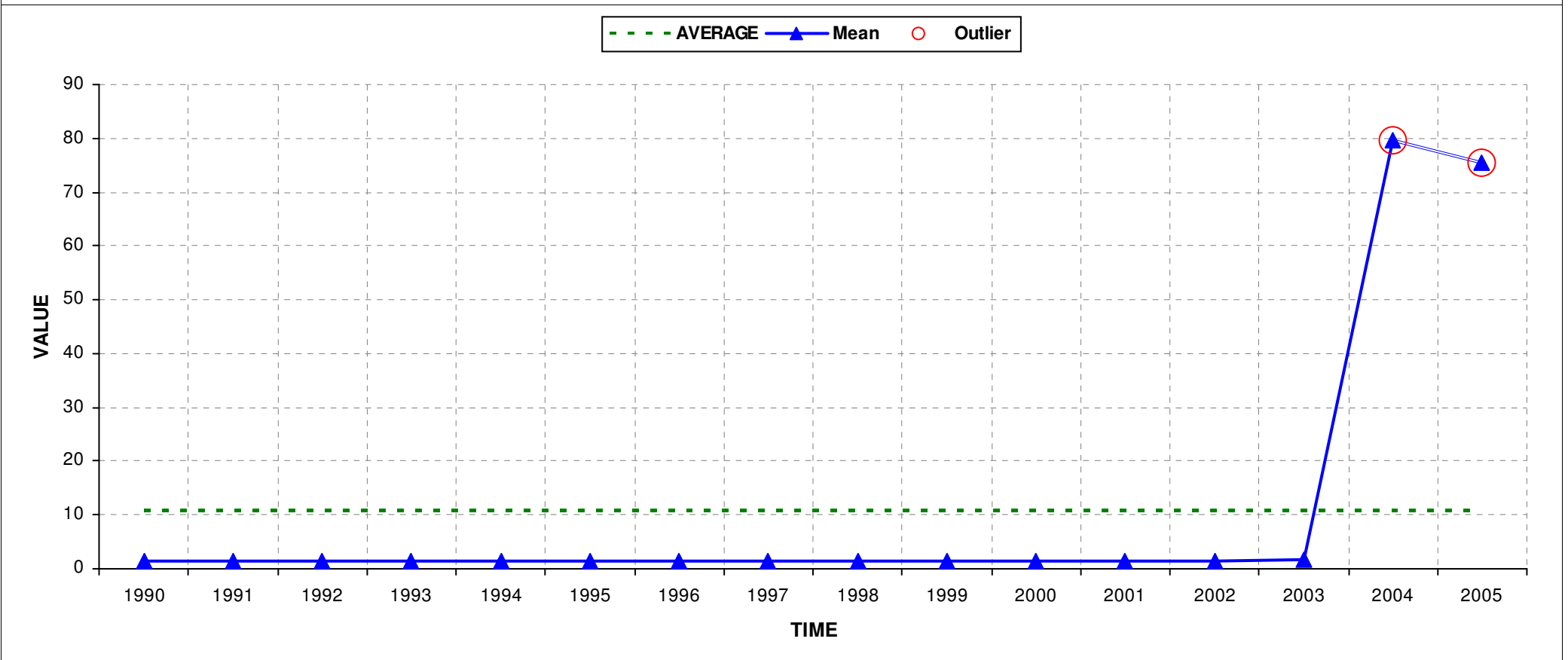
GB_LK_4983

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, meq/l]: 79.525; [2005, meq/l]: 75.5417



Determinand:

Alkalinity

WaterbaseID:

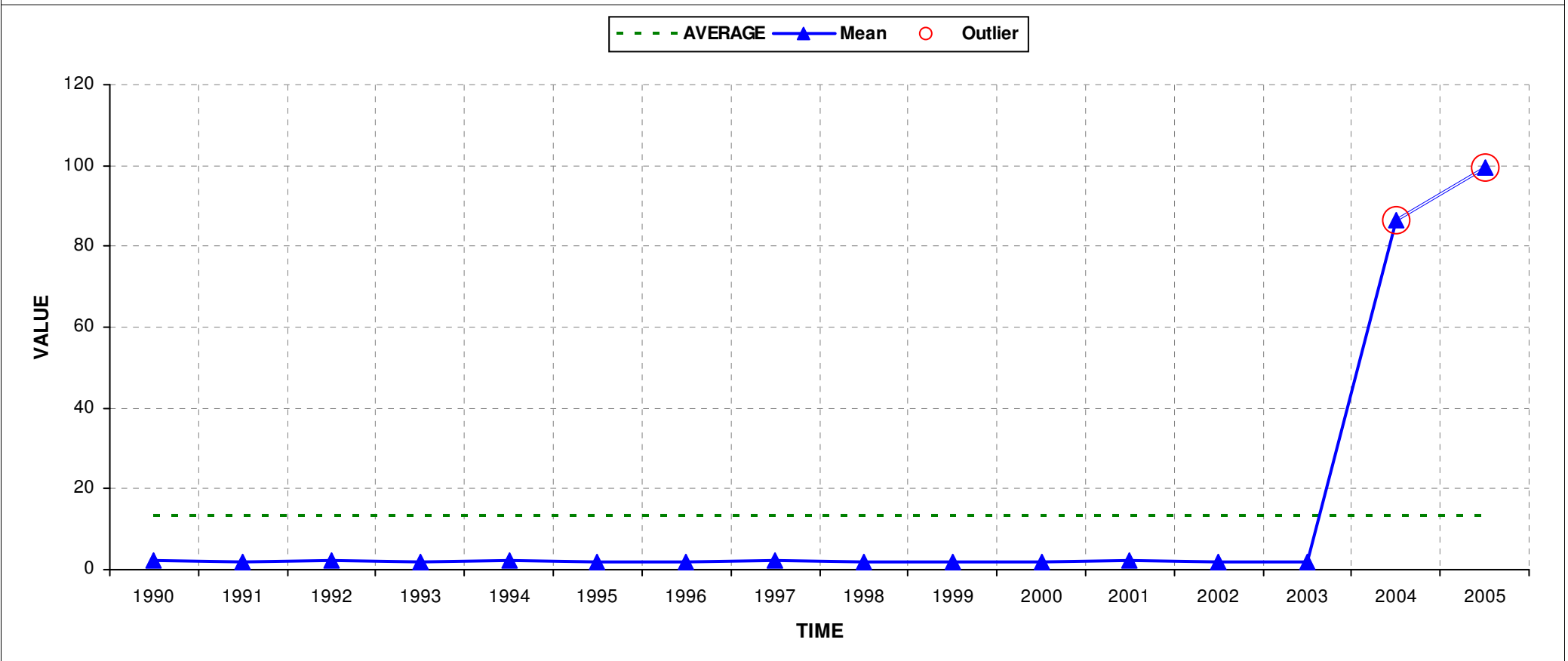
GB_LK_5308

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, meq/l]: 86.35; [2005, meq/l]: 99.425



Determinand:

COD

WaterbaseID:

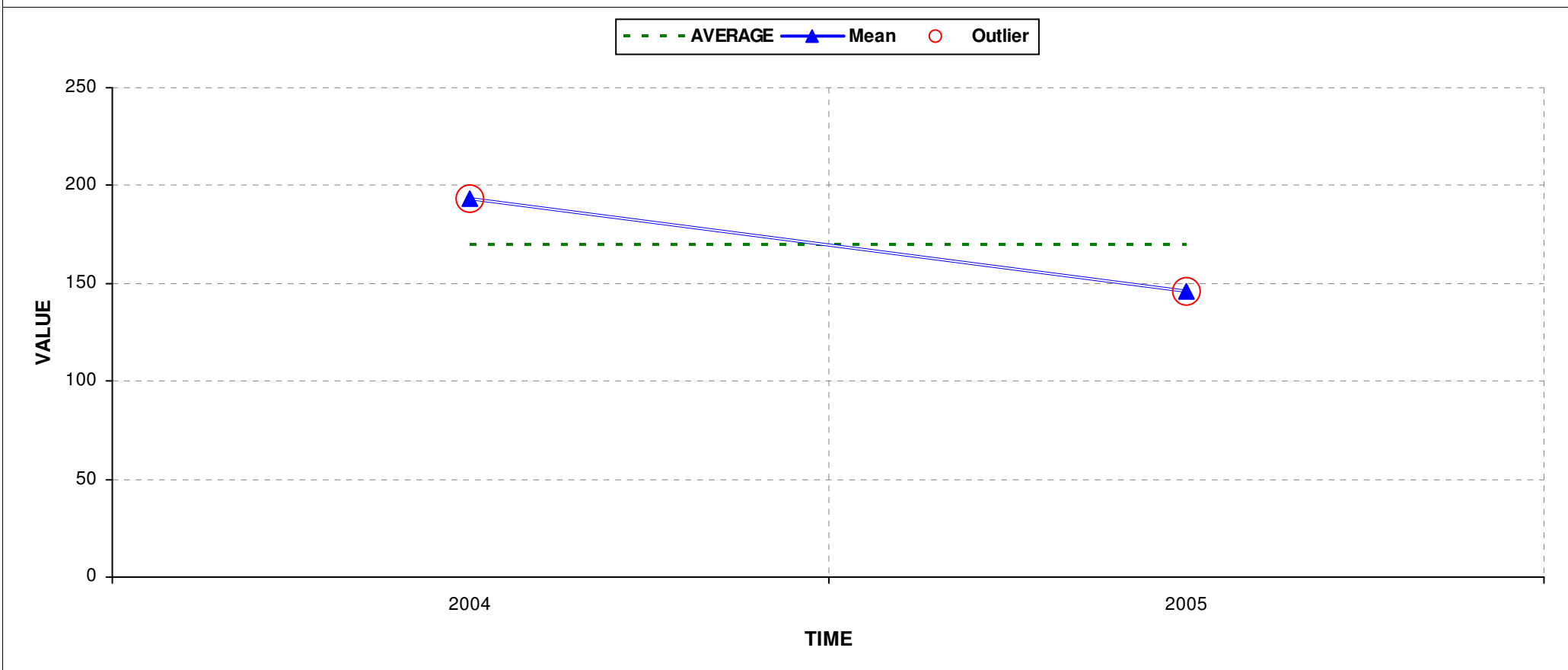
GB_LK_3067

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, mg/l O2]: 193.625; [2005, mg/l O2]: 146



Determinand:

COD

WaterbaseID:

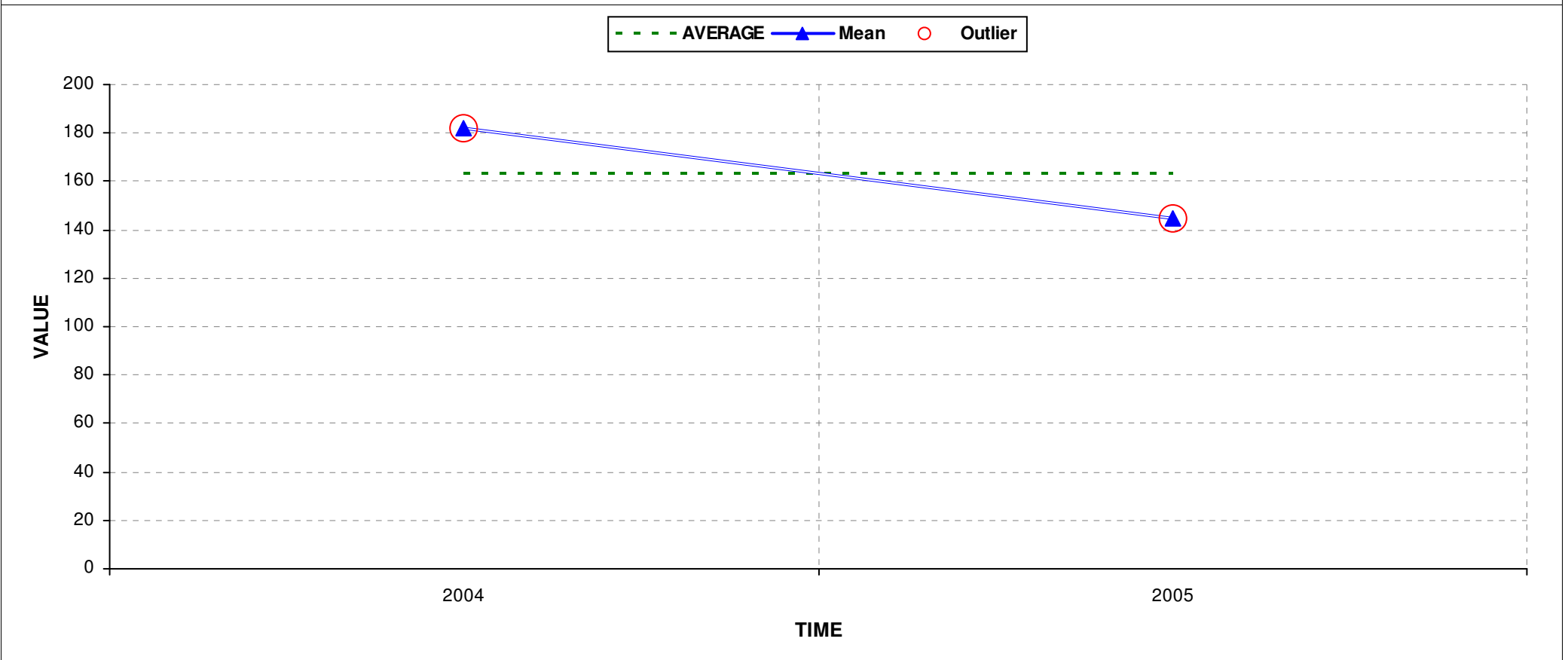
GB_LK_3068

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, mg/l O₂]: 181.75; [2005, mg/l O₂]: 144.75



Determinand:

COD

WaterbaseID:

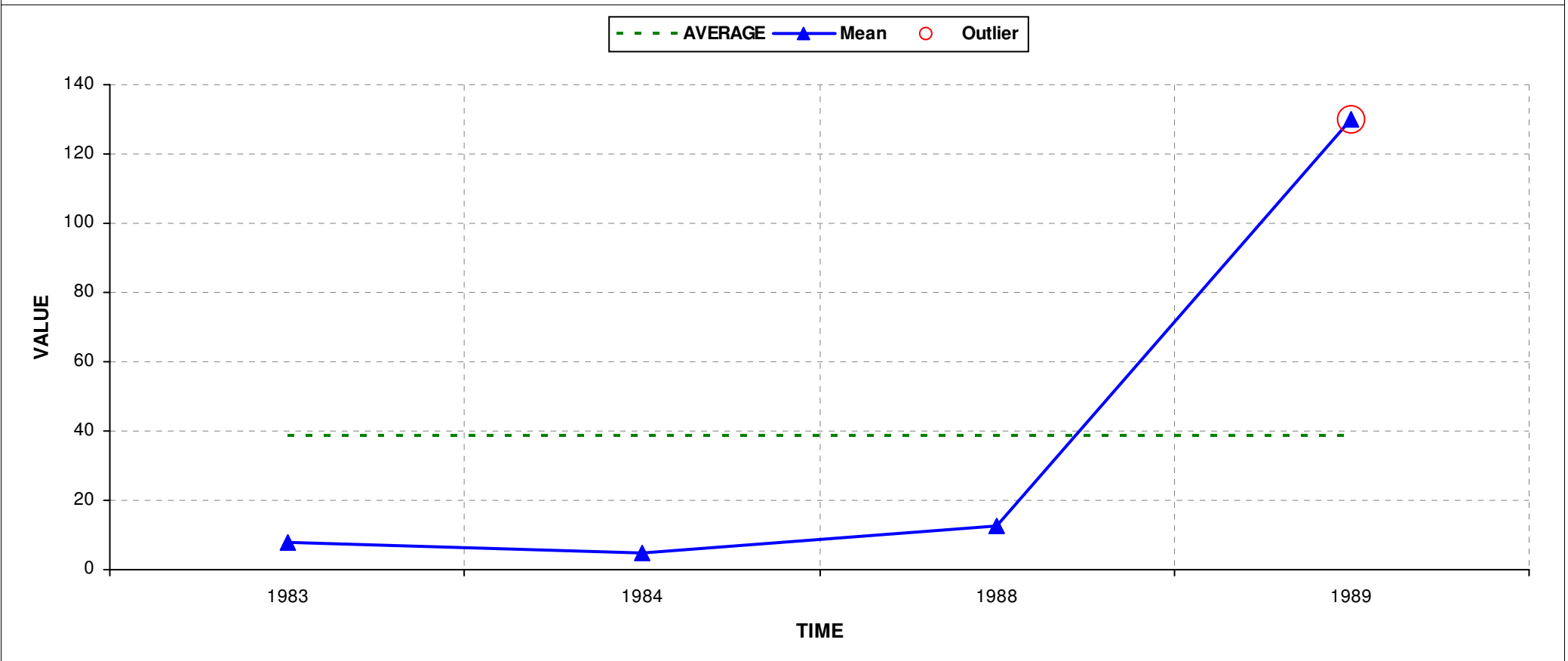
GB_LK_36523

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1989, mg/l O₂]: 130



Determinand:

COD

WaterbaseID:

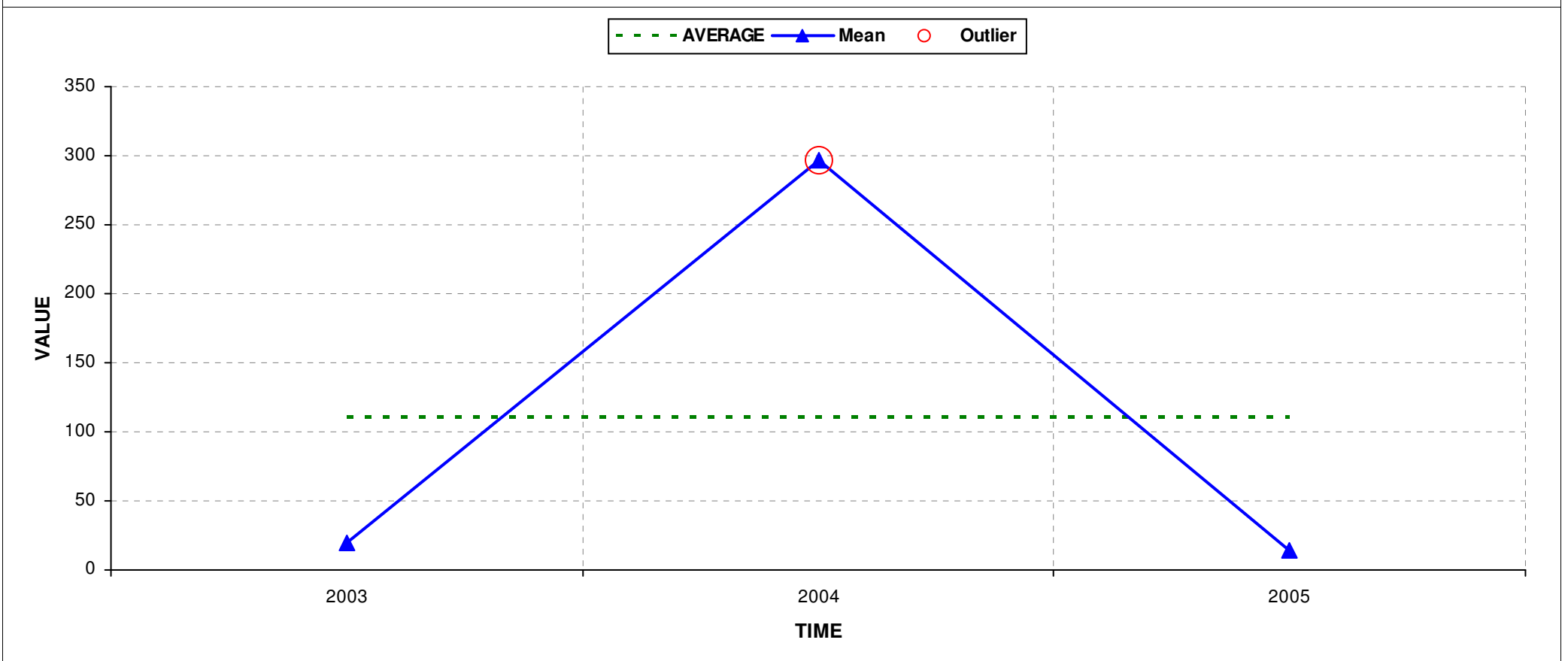
GB_LK_81522768

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, mg/l O₂]: 297



Determinand:

COD

WaterbaseID:

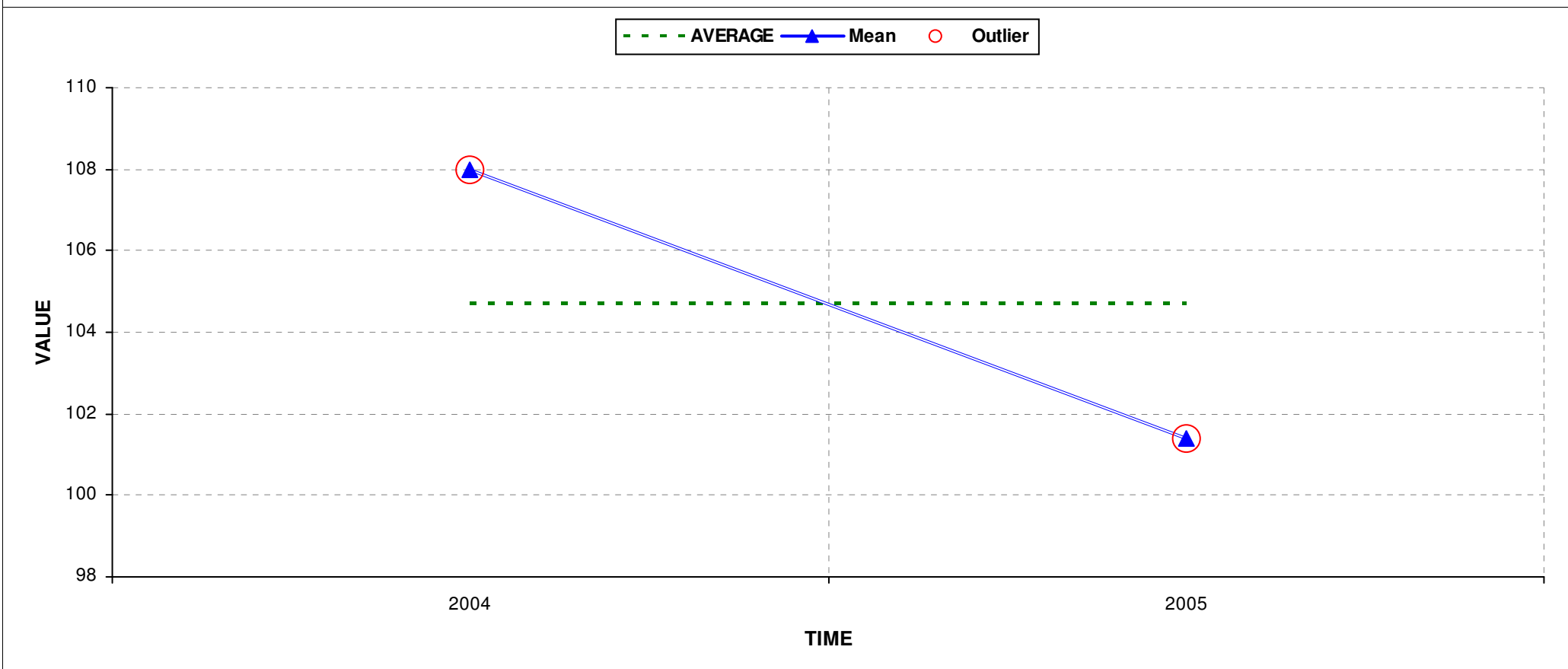
GB_LK_PITSE005

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, mg/l O2]: 108; [2005, mg/l O2]: 101.4



Determinand:

Conductivity

WaterbaseID:

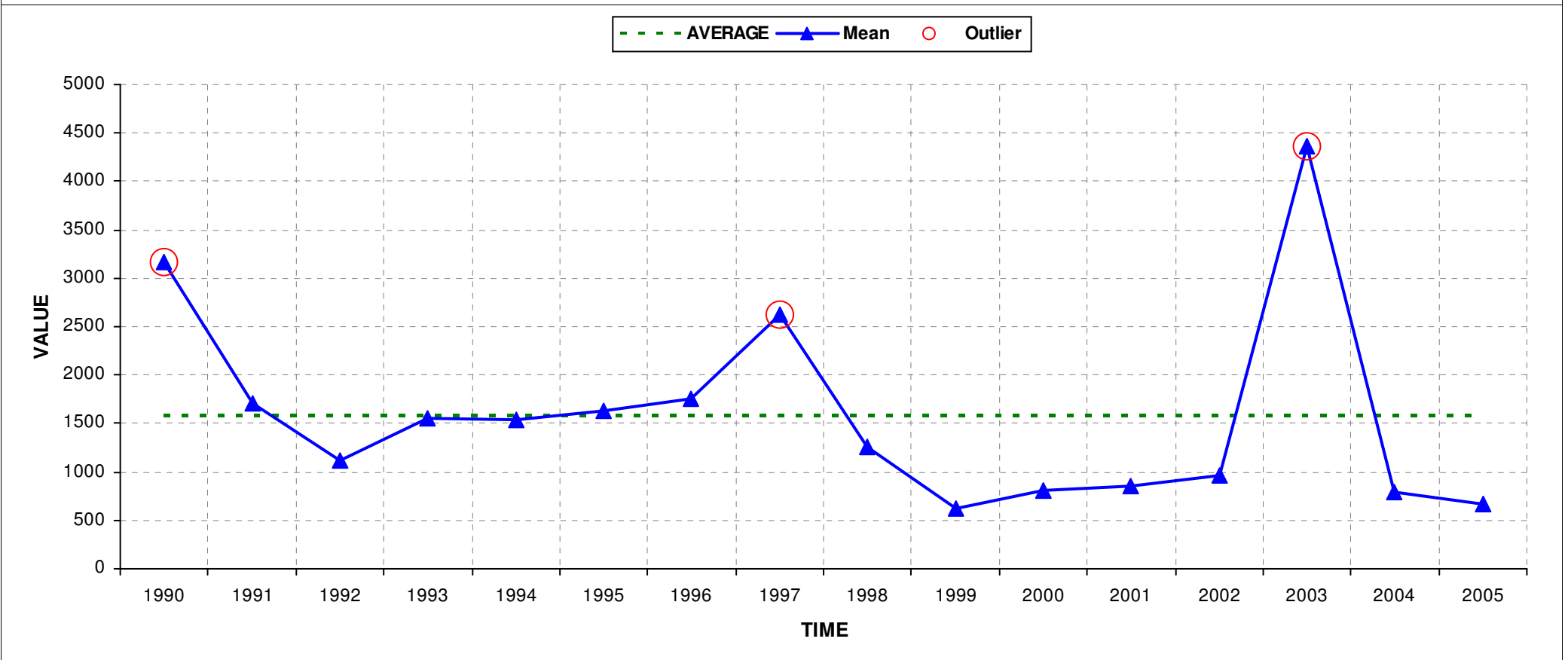
GB_LK_301827

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1990, $\mu\text{S/cm}$]: 3167.1111; [1997, $\mu\text{S/cm}$]: 2624.5; [2003, $\mu\text{S/cm}$]: 4360.4



Determinand:

Conductivity

WaterbaseID:

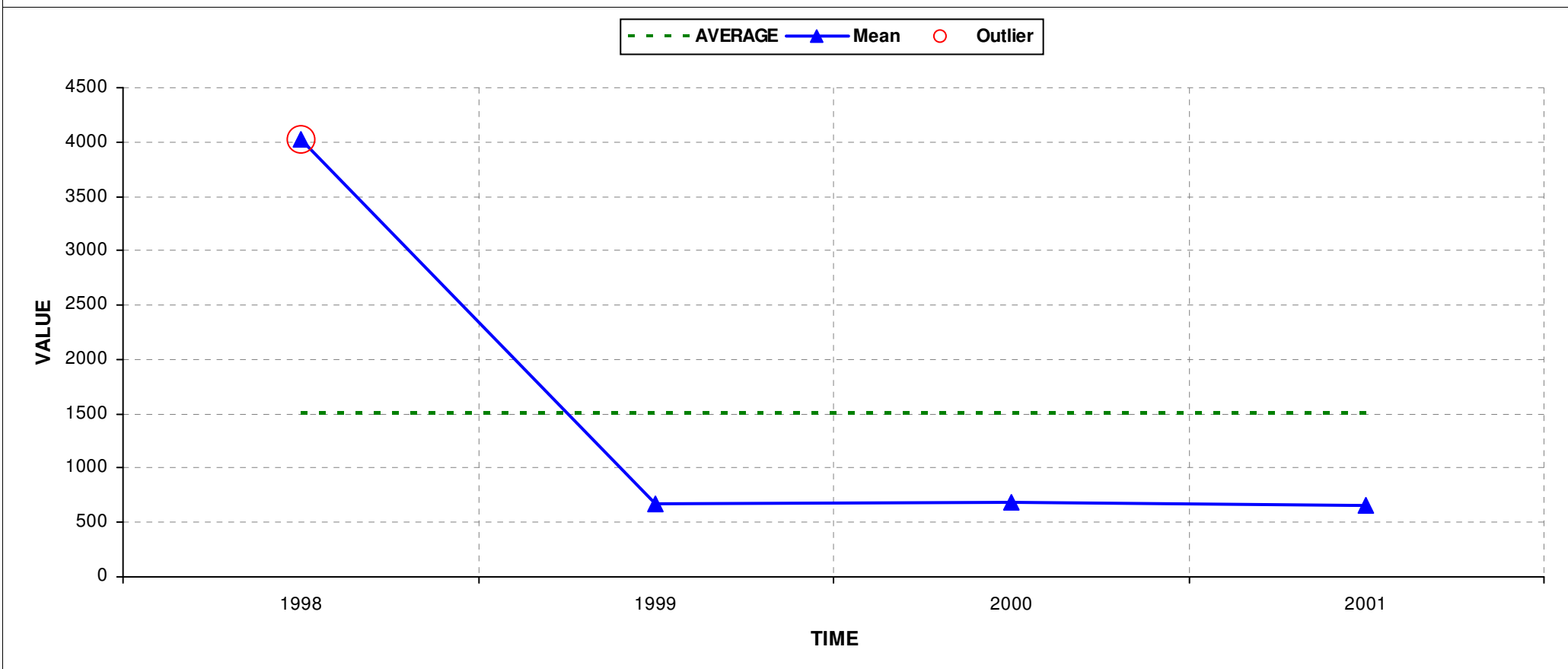
GB_LK_33546

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1998, $\mu\text{S/cm}$]: 4021.333333



Determinand:

Conductivity

WaterbaseID:

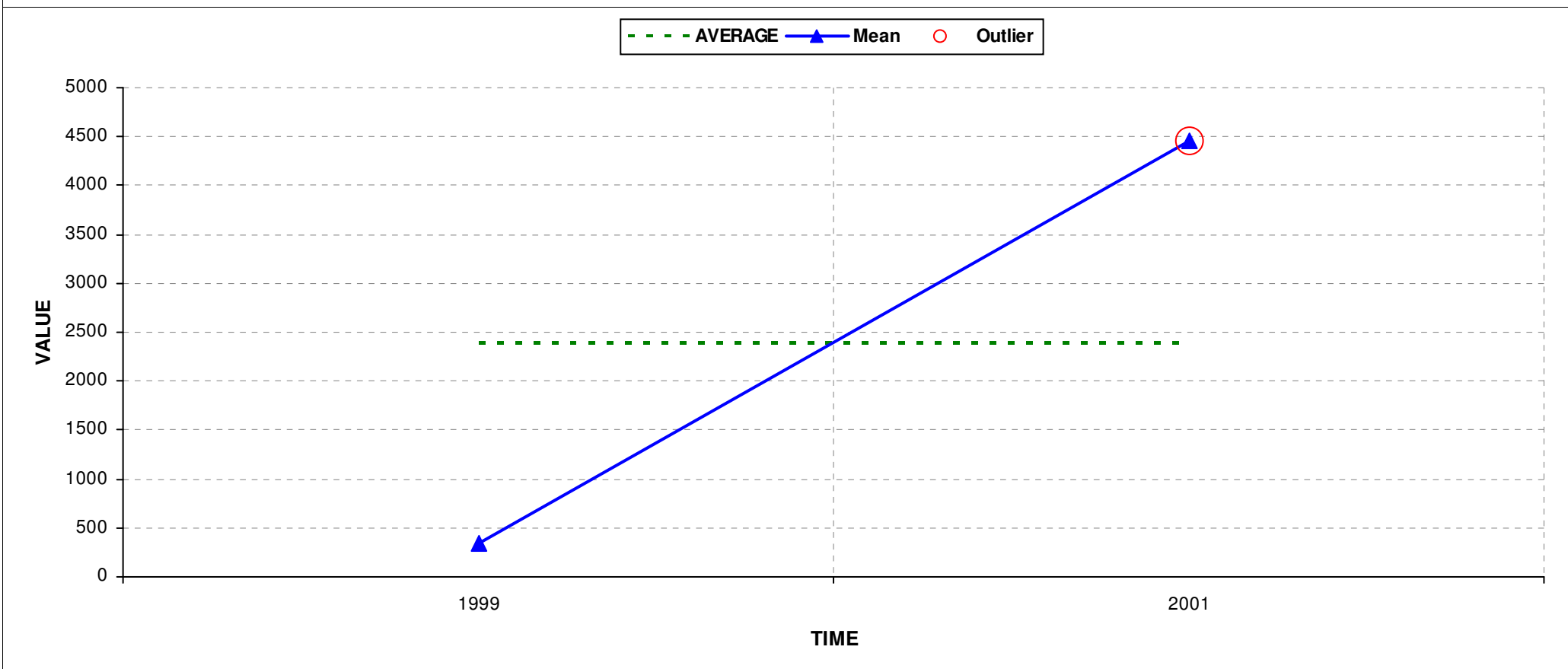
GB_LK_36202

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2001, $\mu\text{S/cm}$]: 4460



Determinand:

Conductivity

WaterbaseID:

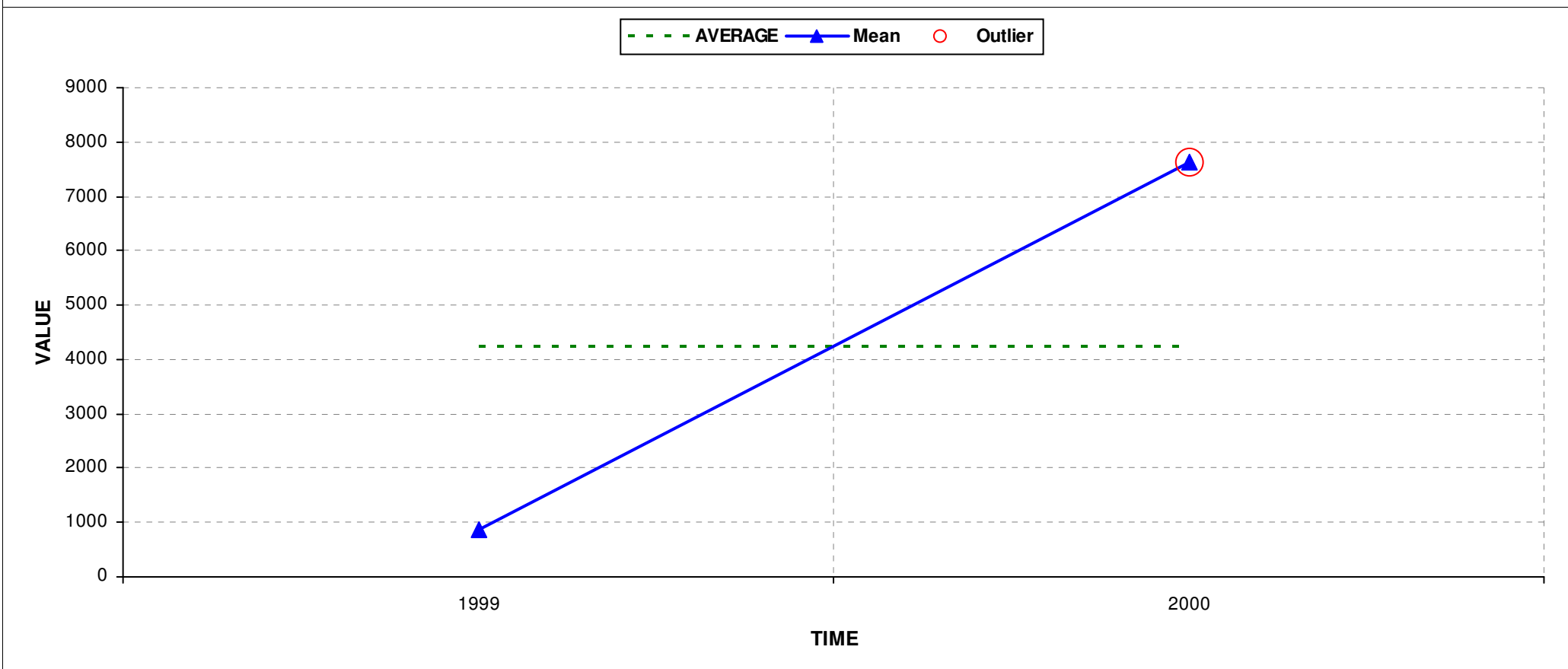
GB_LK_36730

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2000, $\mu\text{S/cm}$]: 7620



Determinand:

Nitrate

WaterbaseID:

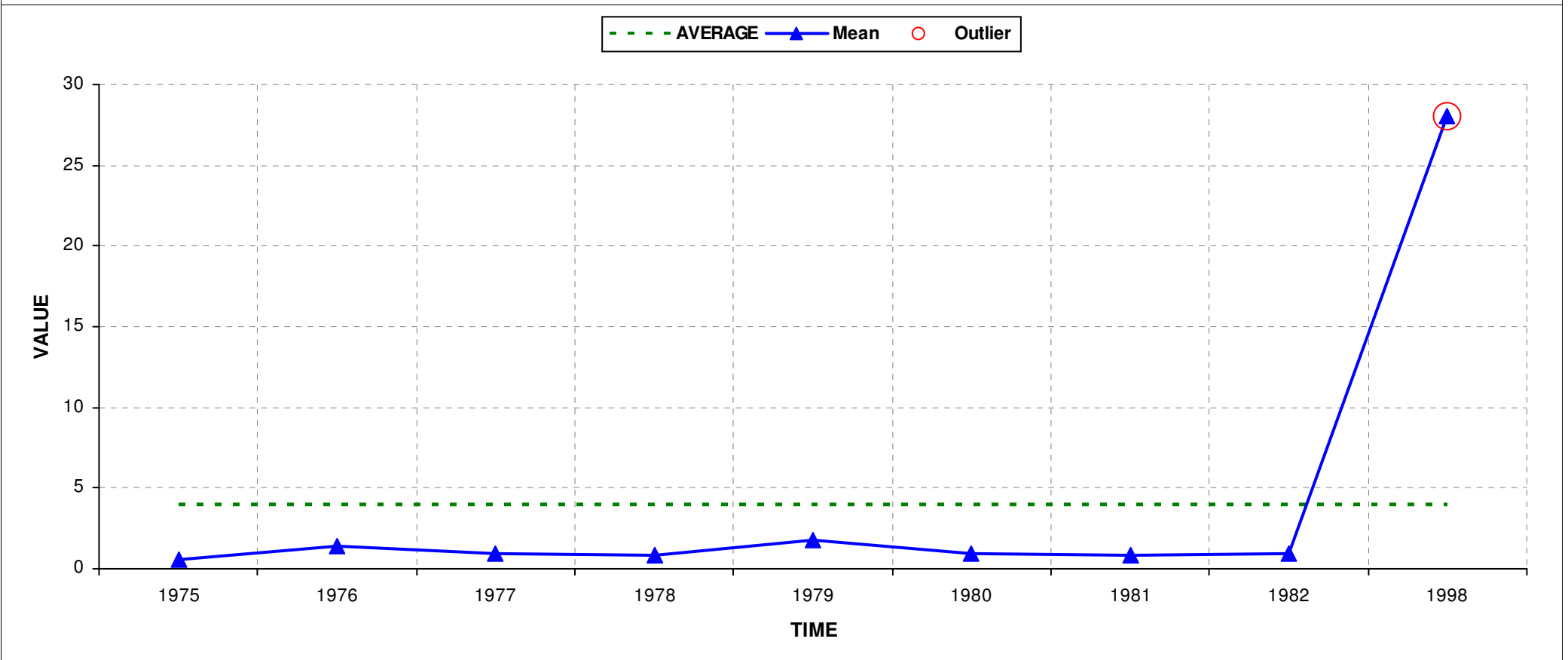
GB_LK_29328

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1998, mg/l N]: 28.057



Determinand:

Nitrate

WaterbaseID:

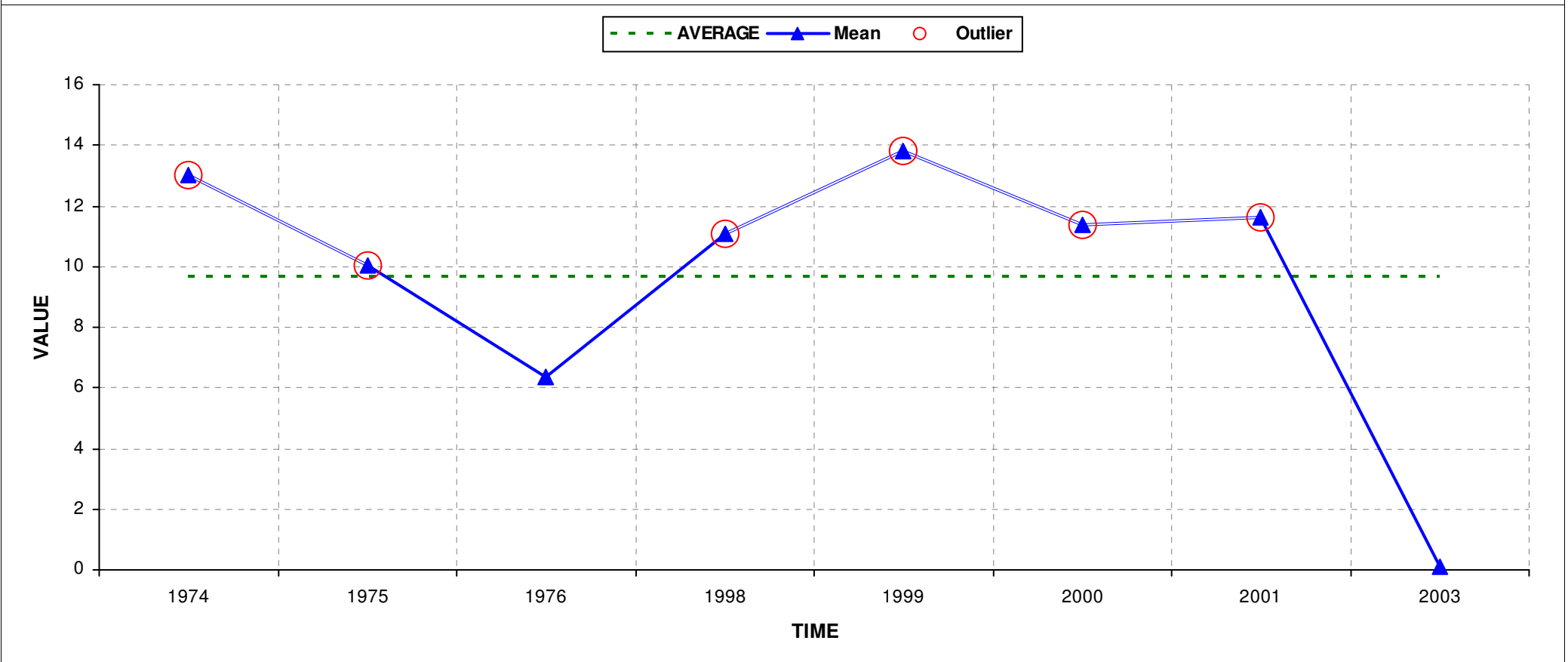
GB_LK_33589

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1974, mg/l N]: 13.03333333; [1975, mg/l N]: 10.03333333; [1998, mg/l N]: 11.10228571; [1999, mg/l N]: 13.808;
[2000, mg/l N]: 11.3625; [2001, mg/l N]: 11.60666667



Determinand:

Nitrate

WaterbaseID:

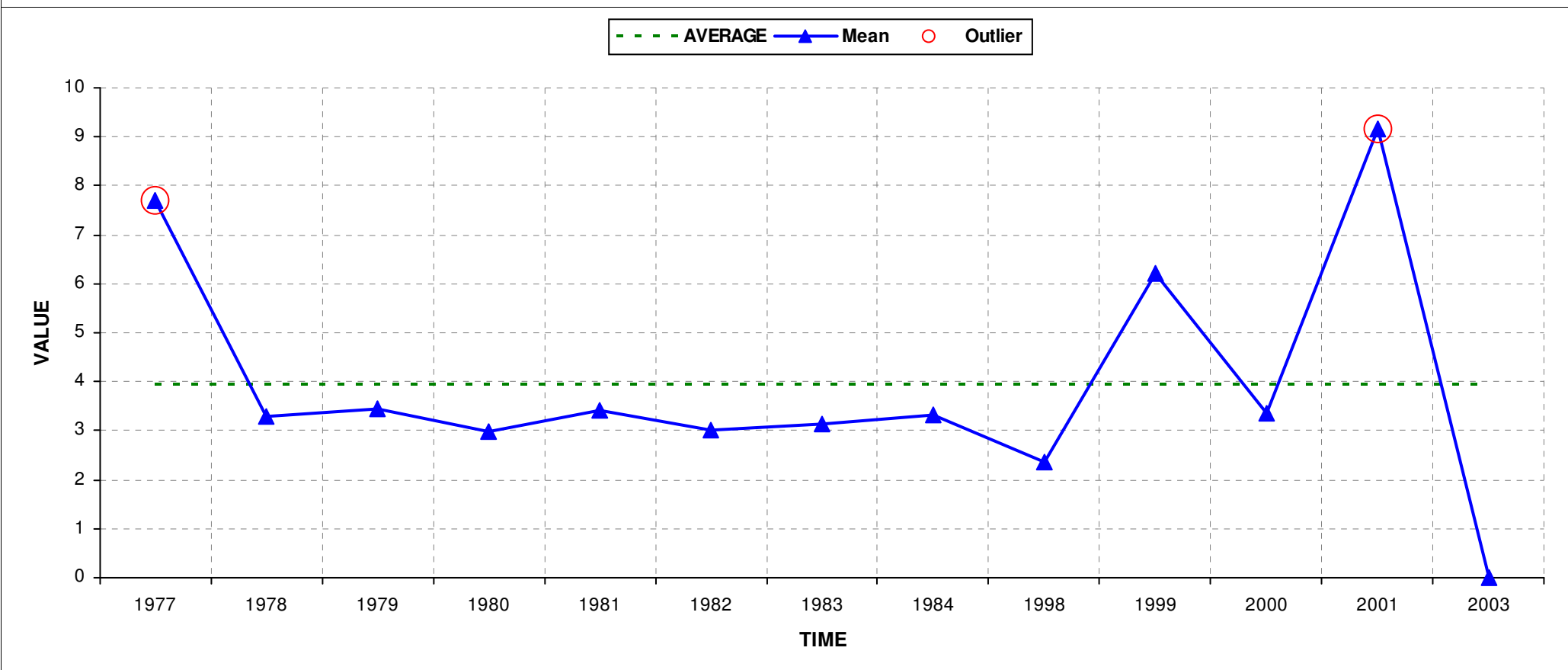
GB_LK_35548

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1977, mg/l N]: 7.7; [2001, mg/l N]: 9.167166667



Determinand:

Nitrate

WaterbaseID:

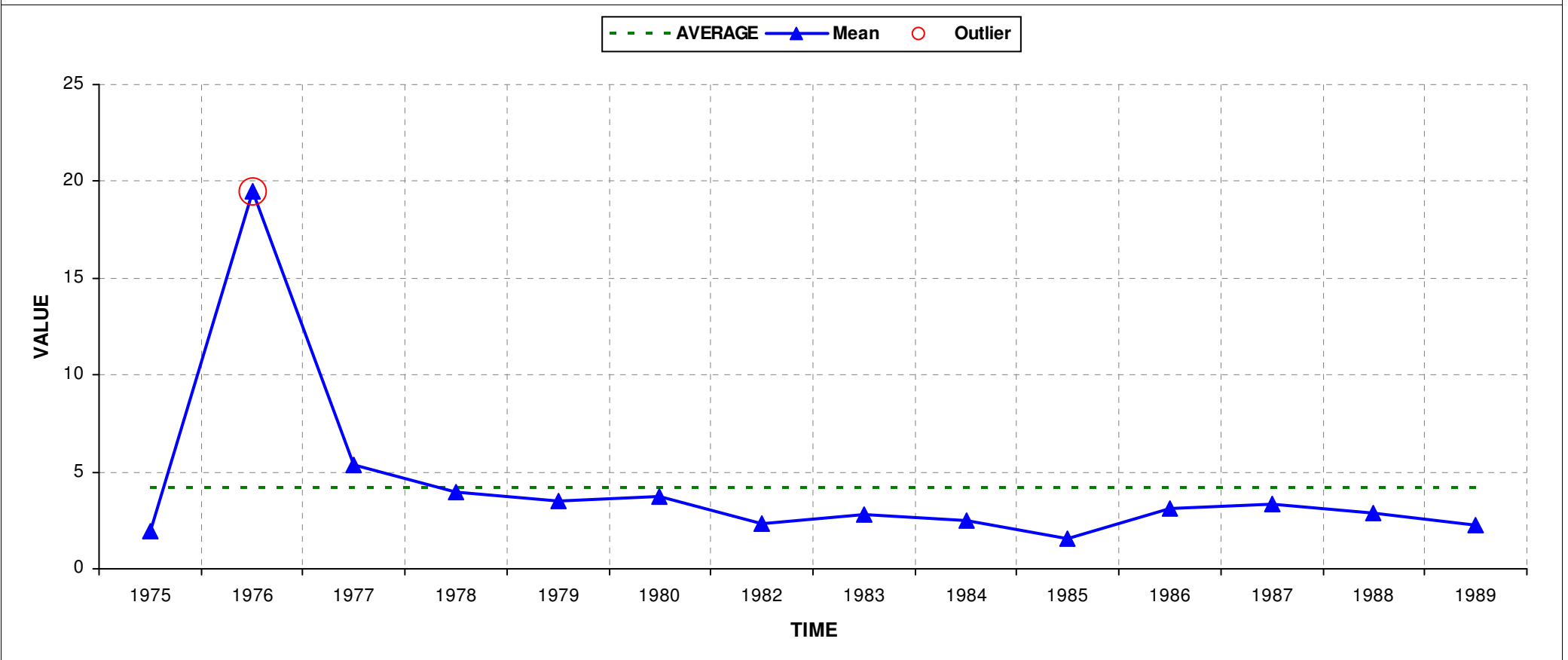
GB_LK_35958

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1976, mg/l N]: 19.5



Determinand:

Nitrate

WaterbaseID:

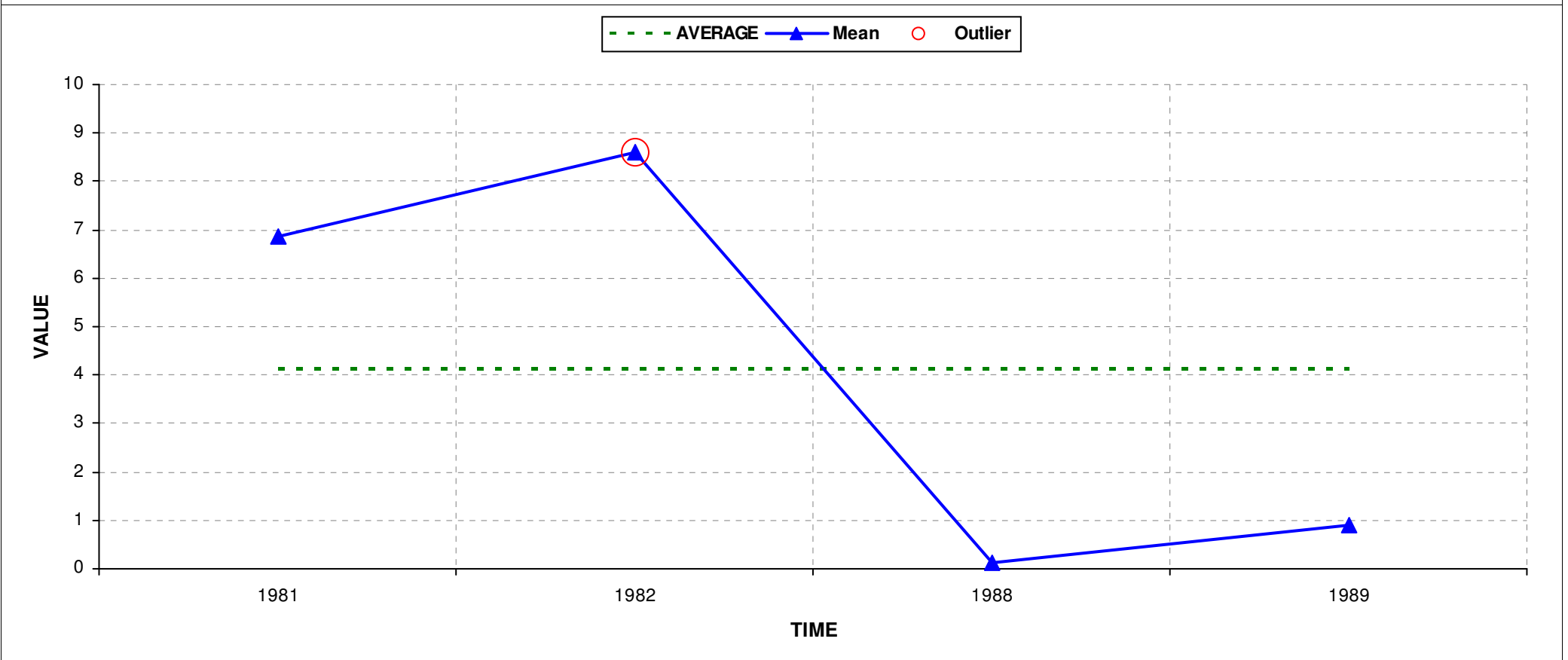
GB_LK_37497

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1982, mg/l N]: 8.6



Determinand:

Nitrate

WaterbaseID:

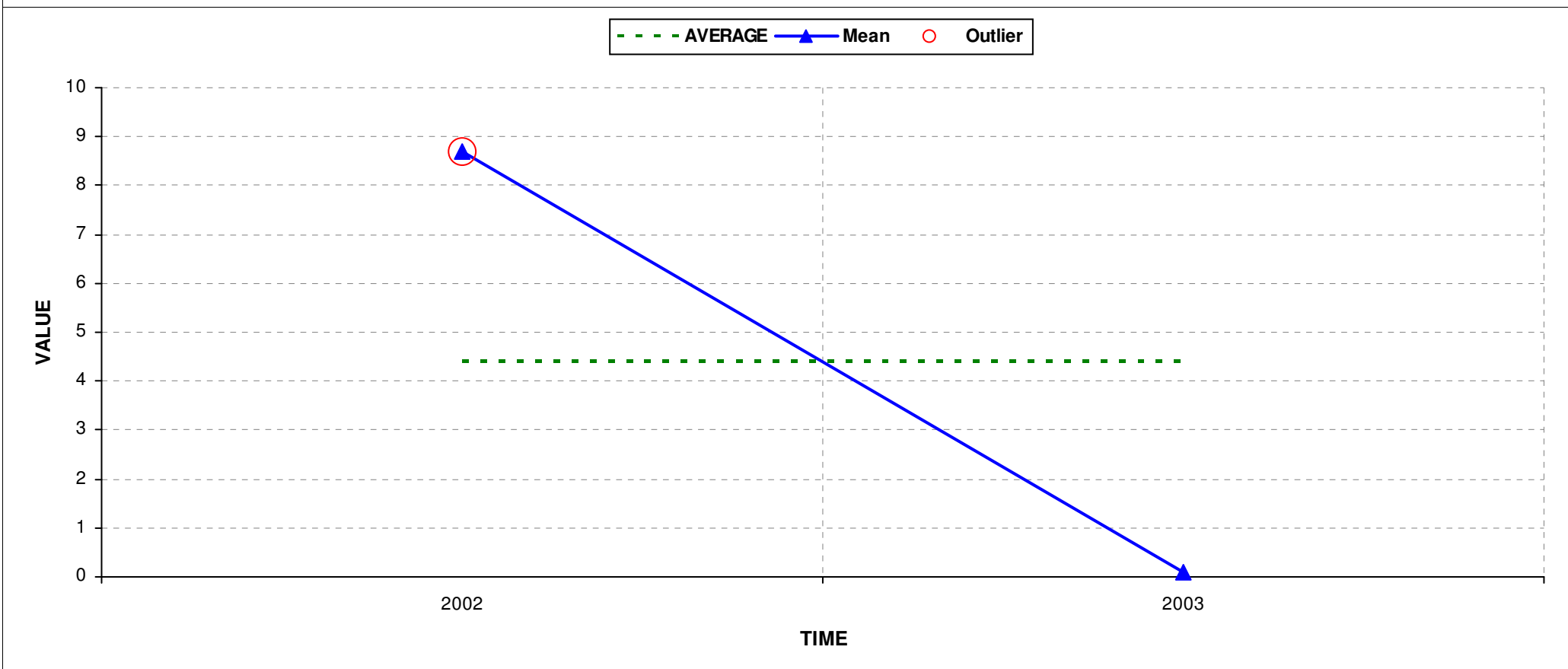
GB_LK_42455

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2002, mg/l N]: 8.685769231



Determinand:

Nitrite

WaterbaseID:

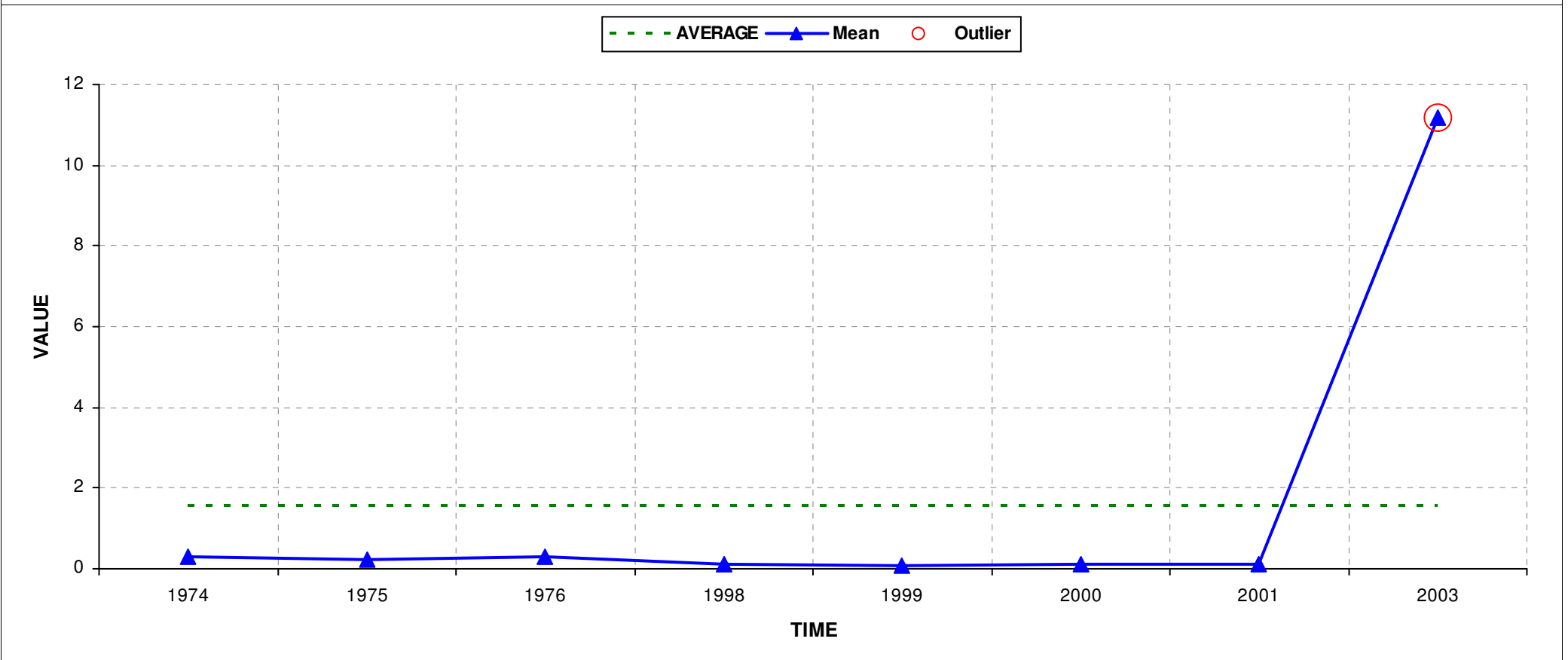
GB_LK_33589

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2003, mg/l N]: 11.178125



Determinand:

Nitrite

WaterbaseID:

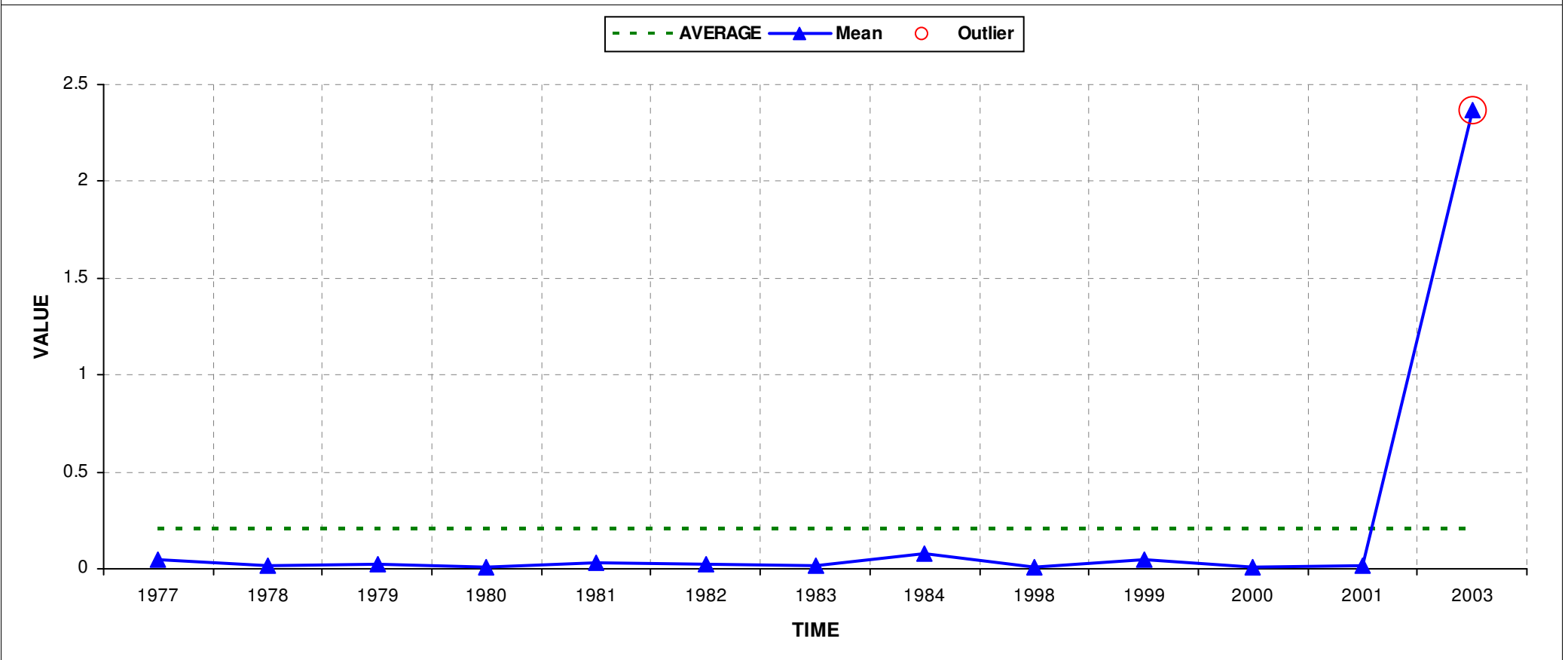
GB_LK_35548

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2003, mg/l N]: 2.368



Determinand:

Nitrite

WaterbaseID:

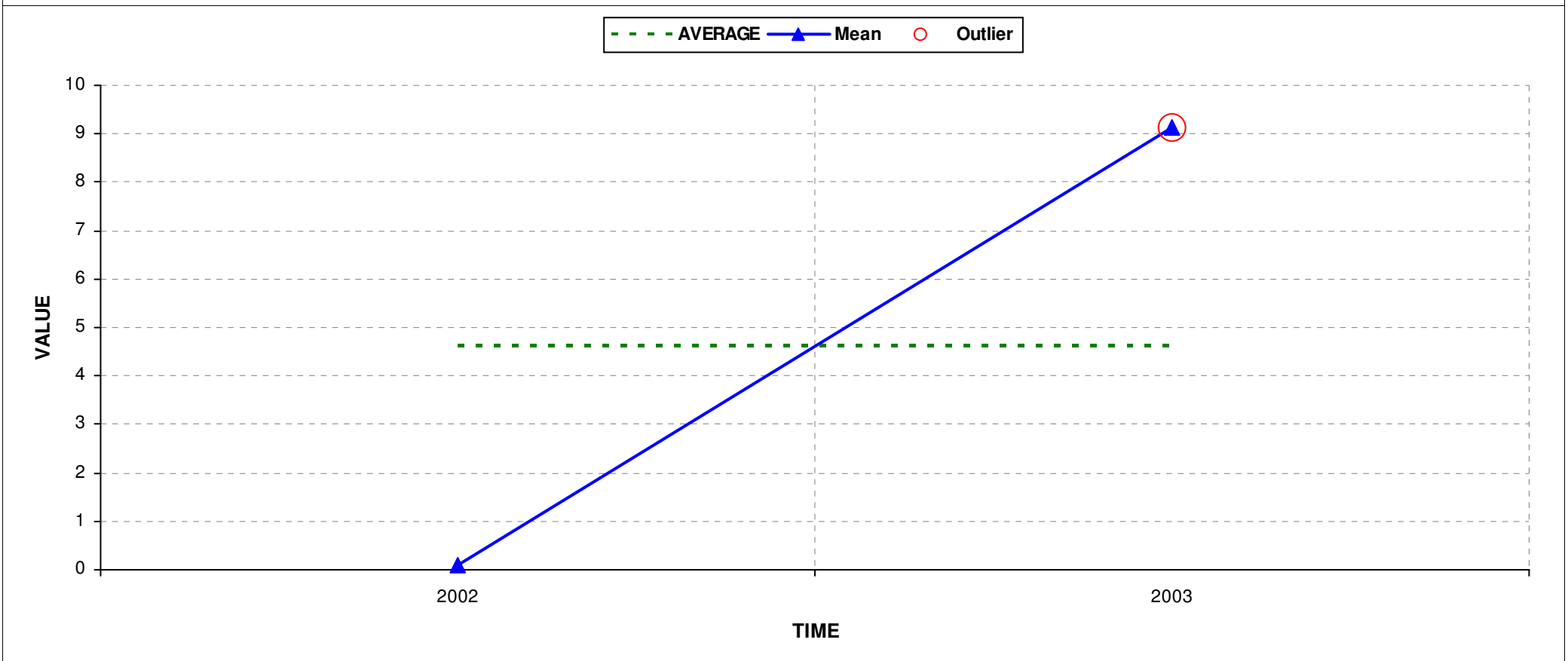
GB_LK_42455

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2003, mg/l N]: 9.140454545



Determinand:

Nitrite

WaterbaseID:

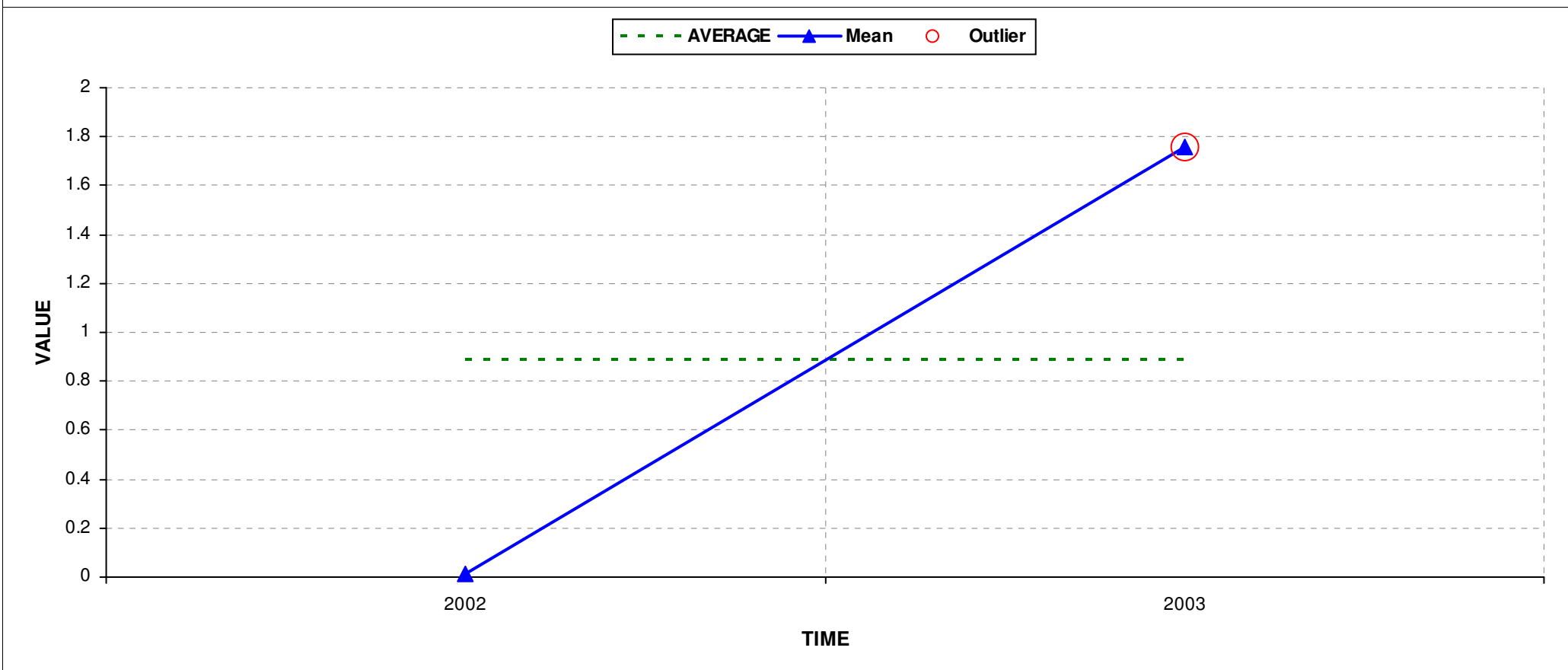
GB_LK_43764

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2003, mg/l N]: 1.76



Determinand:

Nitrite

WaterbaseID:

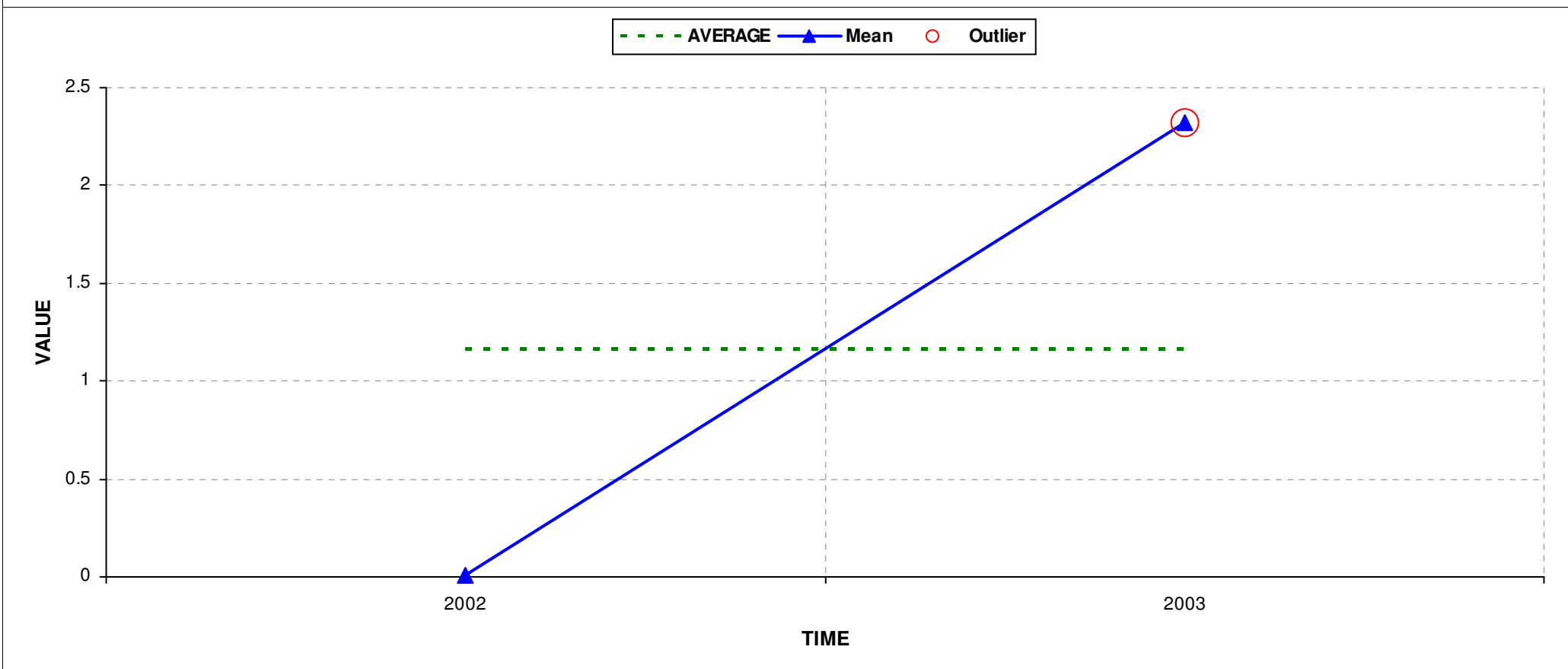
GB_LK_43922

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2003, mg/l N]: 2.32



Determinand:

Nitrite

WaterbaseID:

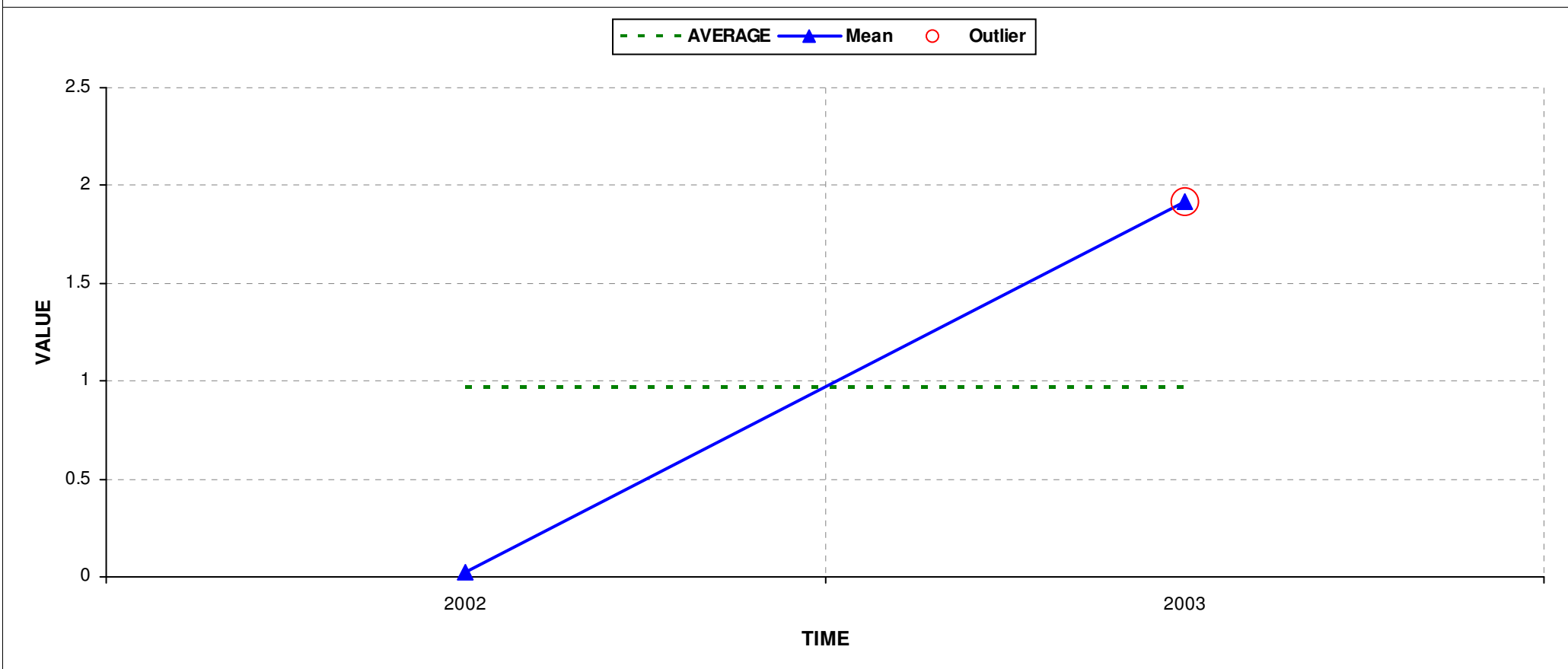
GB_LK_45277

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

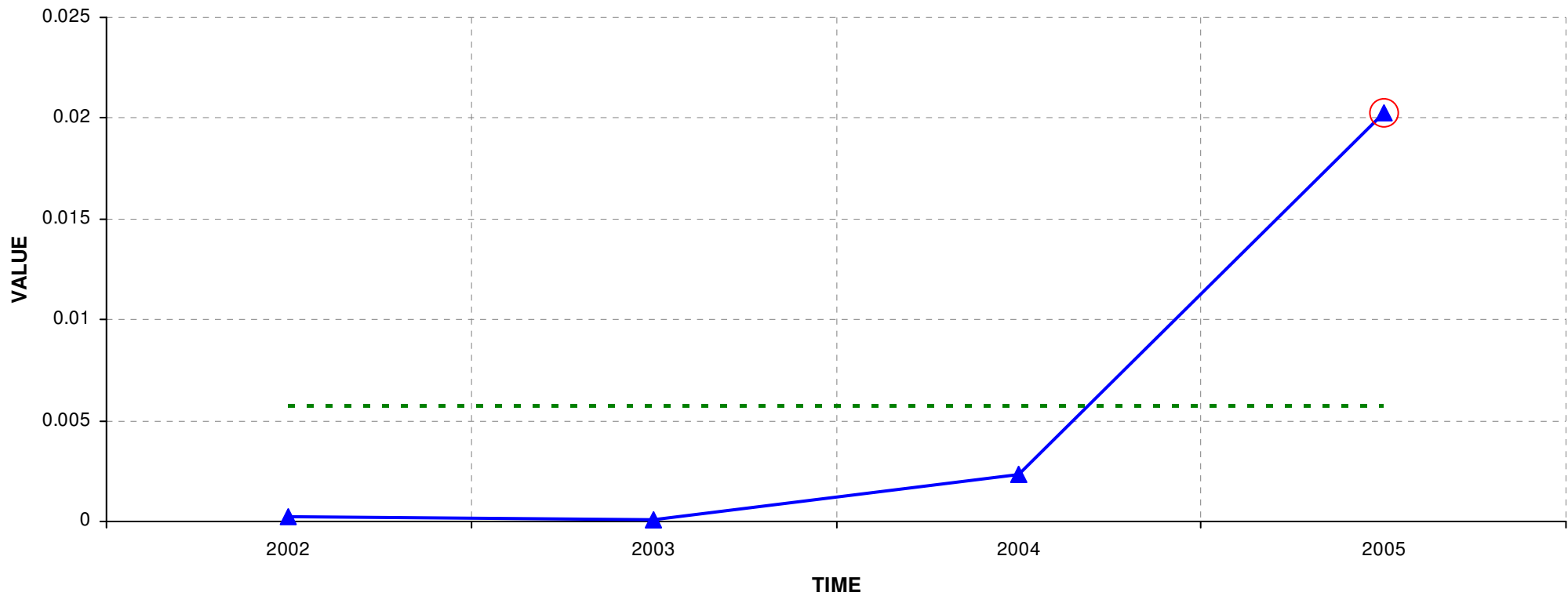
[2003, mg/l N]: 1.917692308



Determinand:
Non-Ionised Ammonia
WaterbaseID:
GB_LK_5308
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[2005, mg/l N]: 0.0203

--- AVERAGE ▲ Mean ○ Outlier



Determinand:

Organic Nitrogen

WaterbaseID:

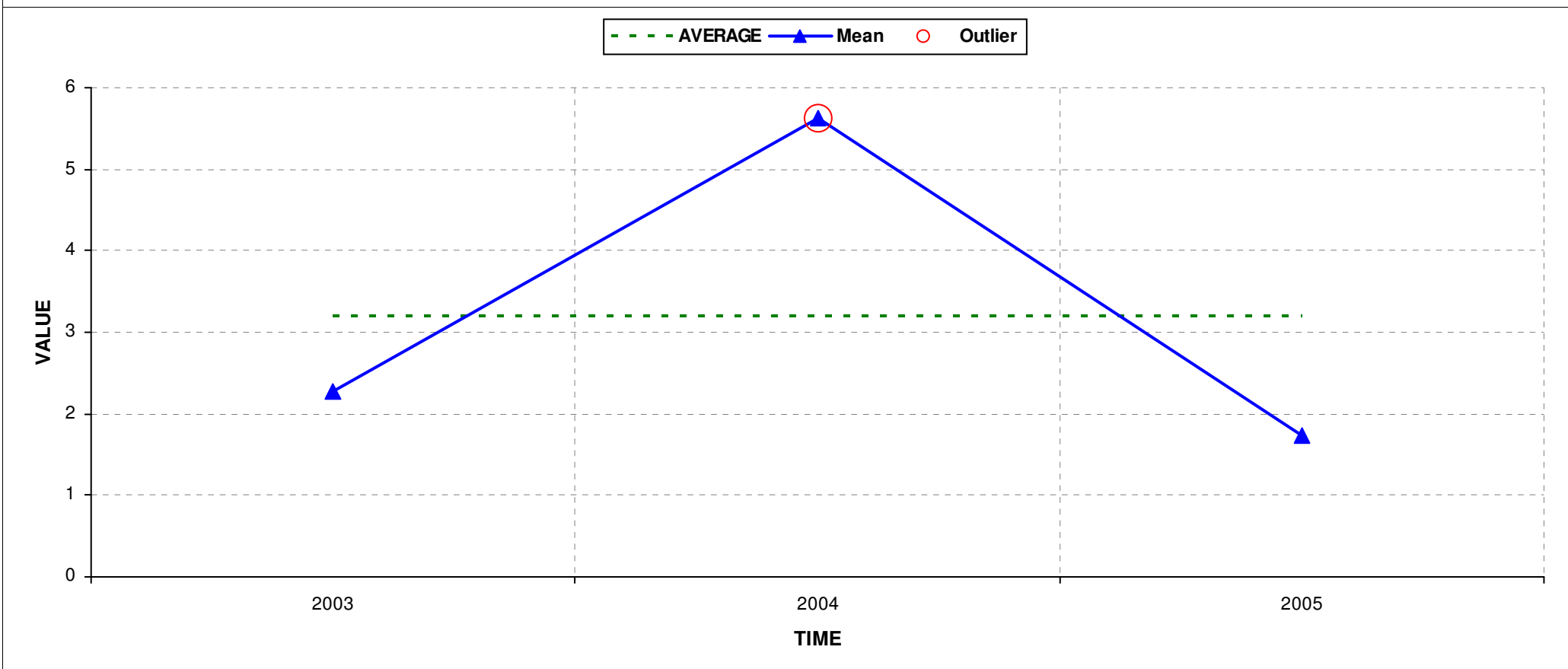
GB_LK_86234

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2004, mg/l N]: 5.62725



Determinand:

Orthophosphate

WaterbaseID:

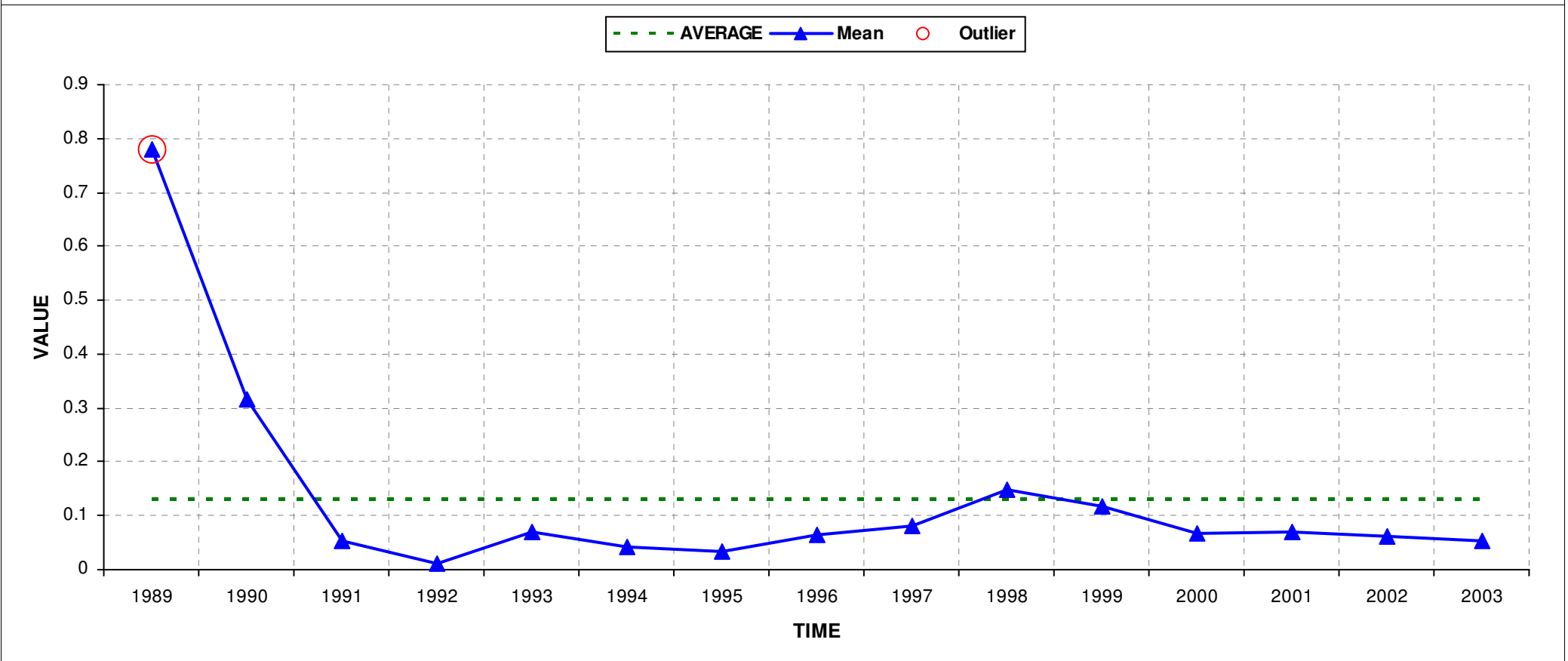
GB_LK_32209

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1989, mg/l P]: 0.78



Determinand:

Orthophosphate

WaterbaseID:

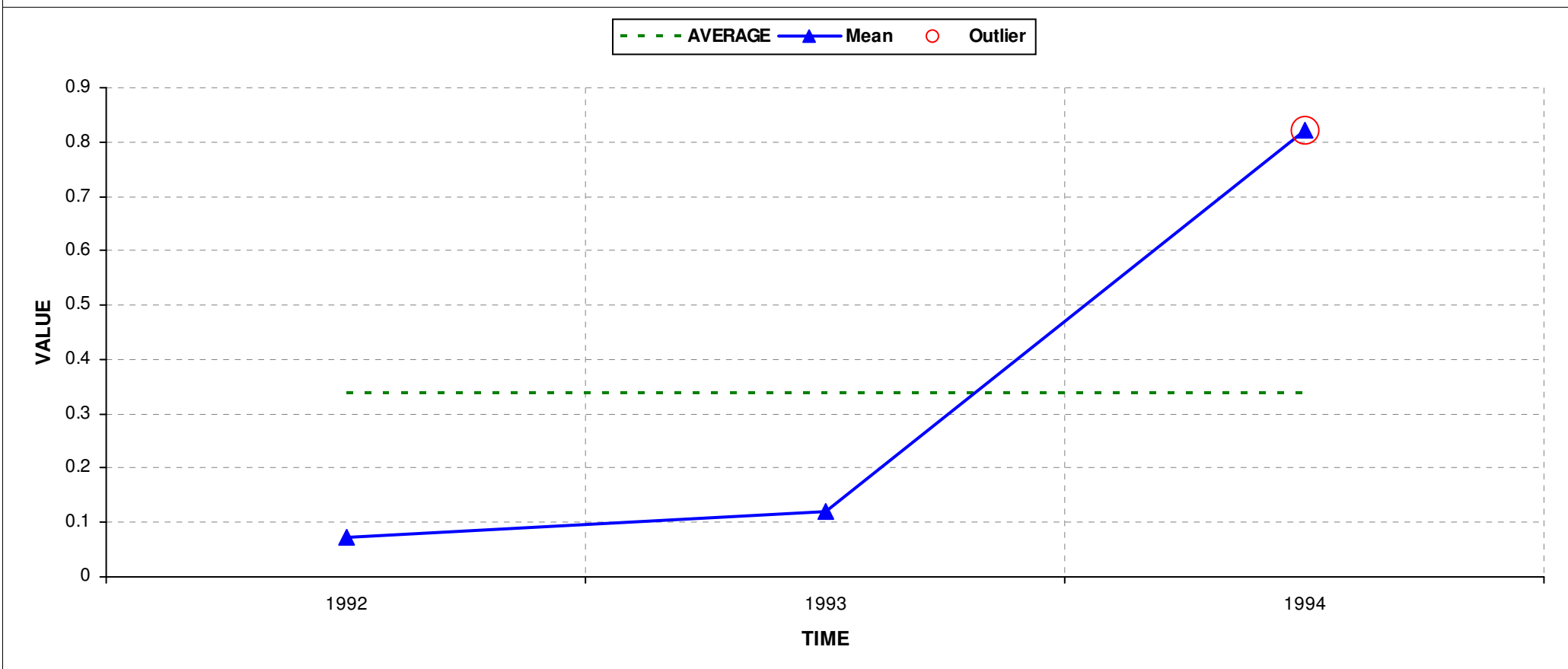
GB_LK_34883

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1994, mg/l P]: 0.821872727



Determinand:

Orthophosphate

WaterbaseID:

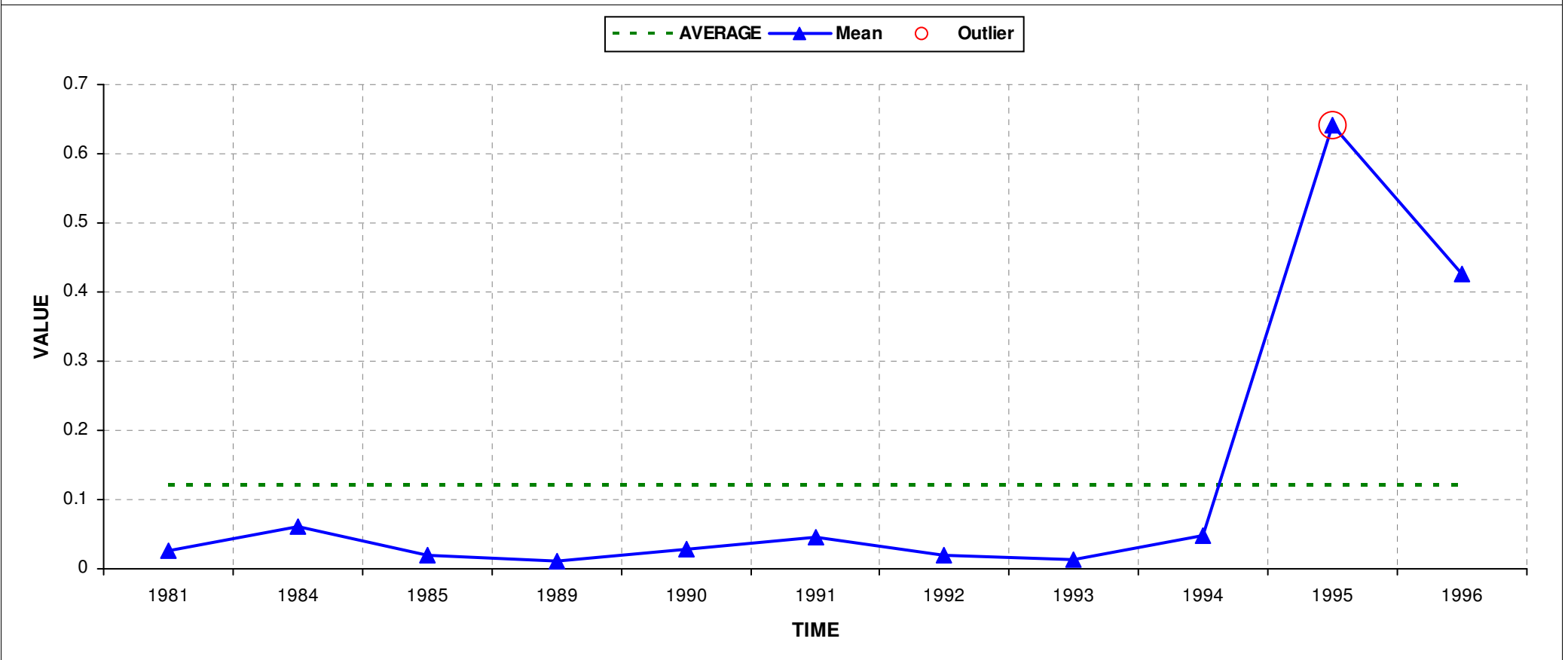
GB_LK_35645

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1995, mg/l P]: 0.640555556



Determinand:

Orthophosphate

WaterbaseID:

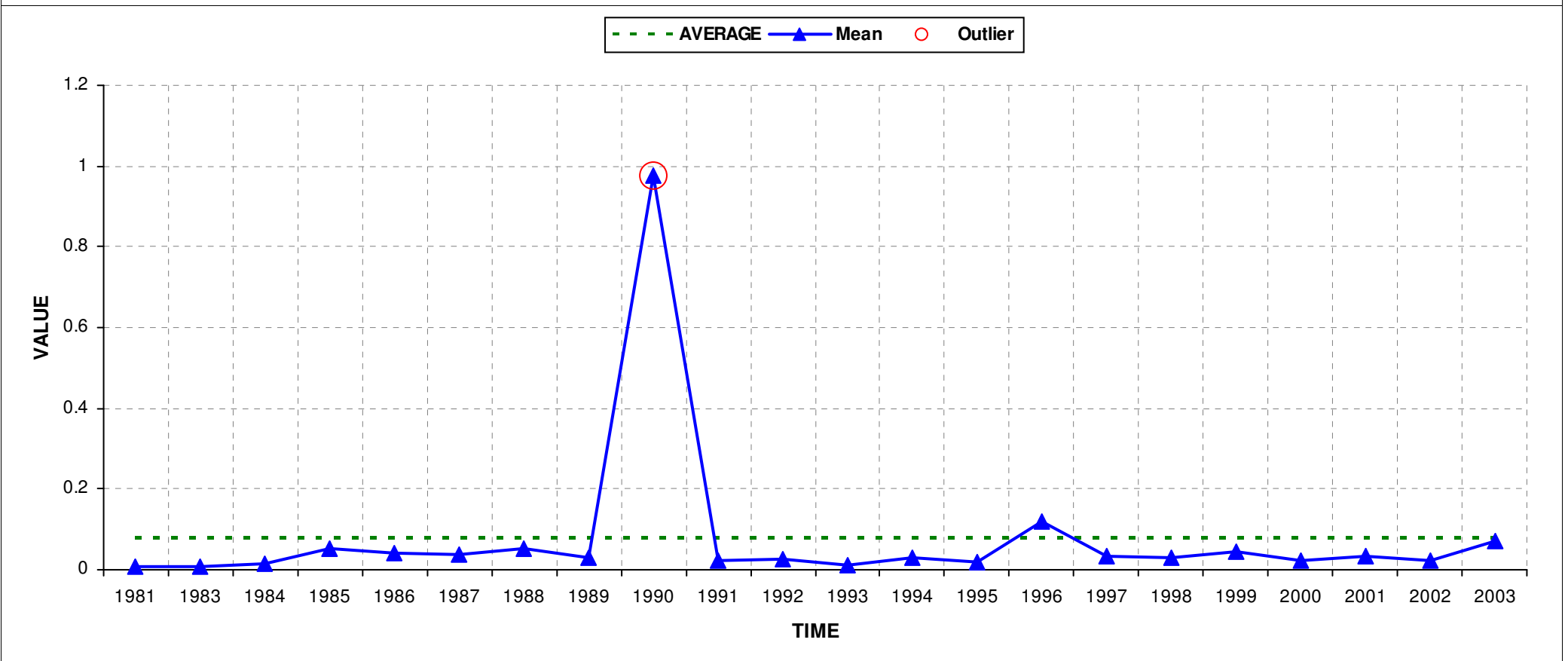
GB_LK_35981

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1990, mg/l P]: 0.975



Determinand:

Orthophosphate

WaterbaseID:

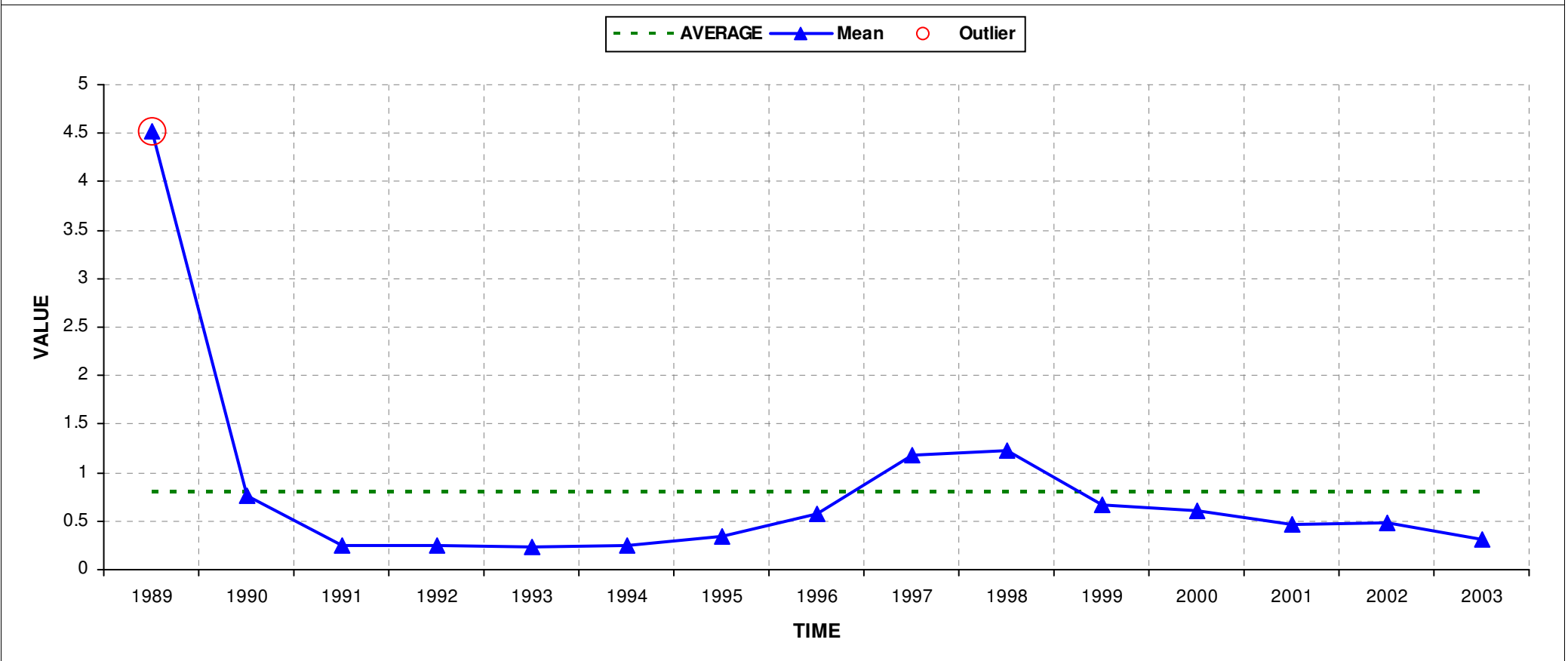
GB_LK_38310

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1989, mg/l P]: 4.51666667



Determinand:

Orthophosphate

WaterbaseID:

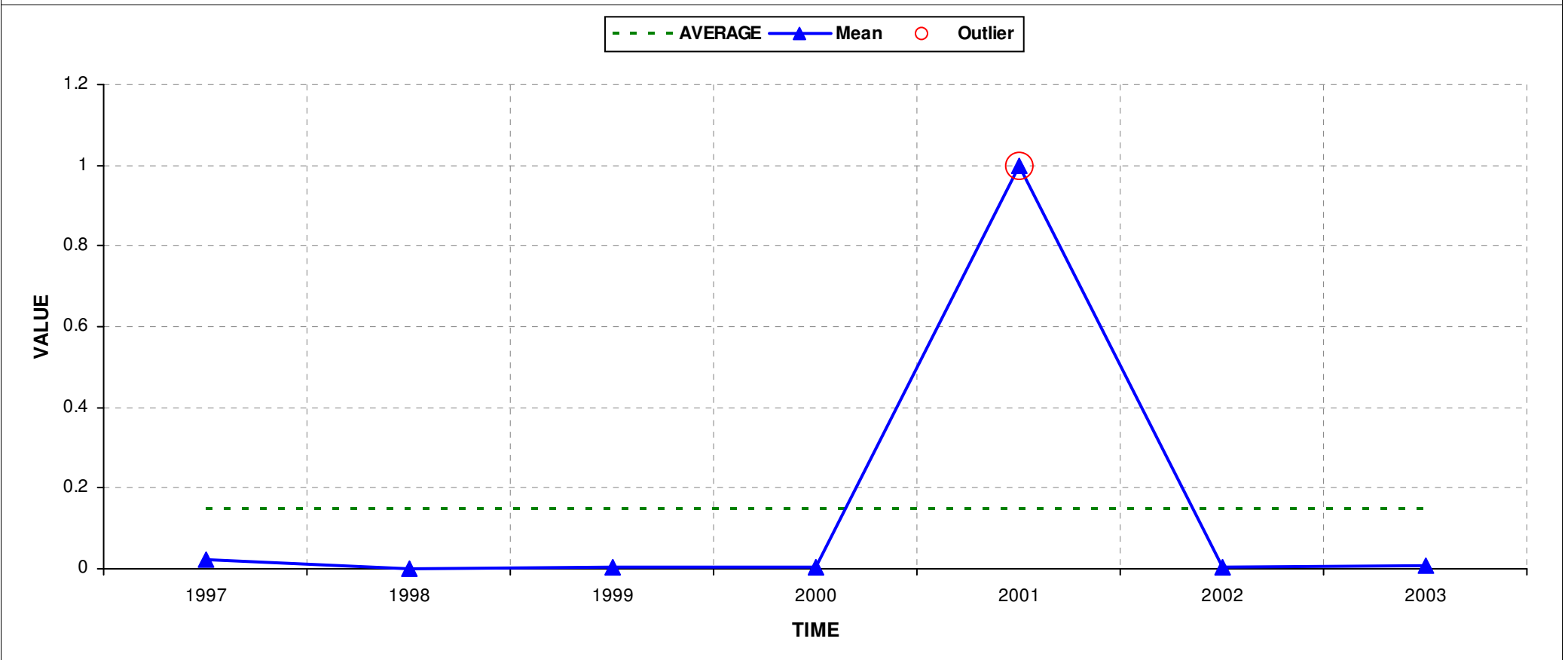
GB_LK_40457

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2001, mg/l P]: 1



Determinand:

Orthophosphate

WaterbaseID:

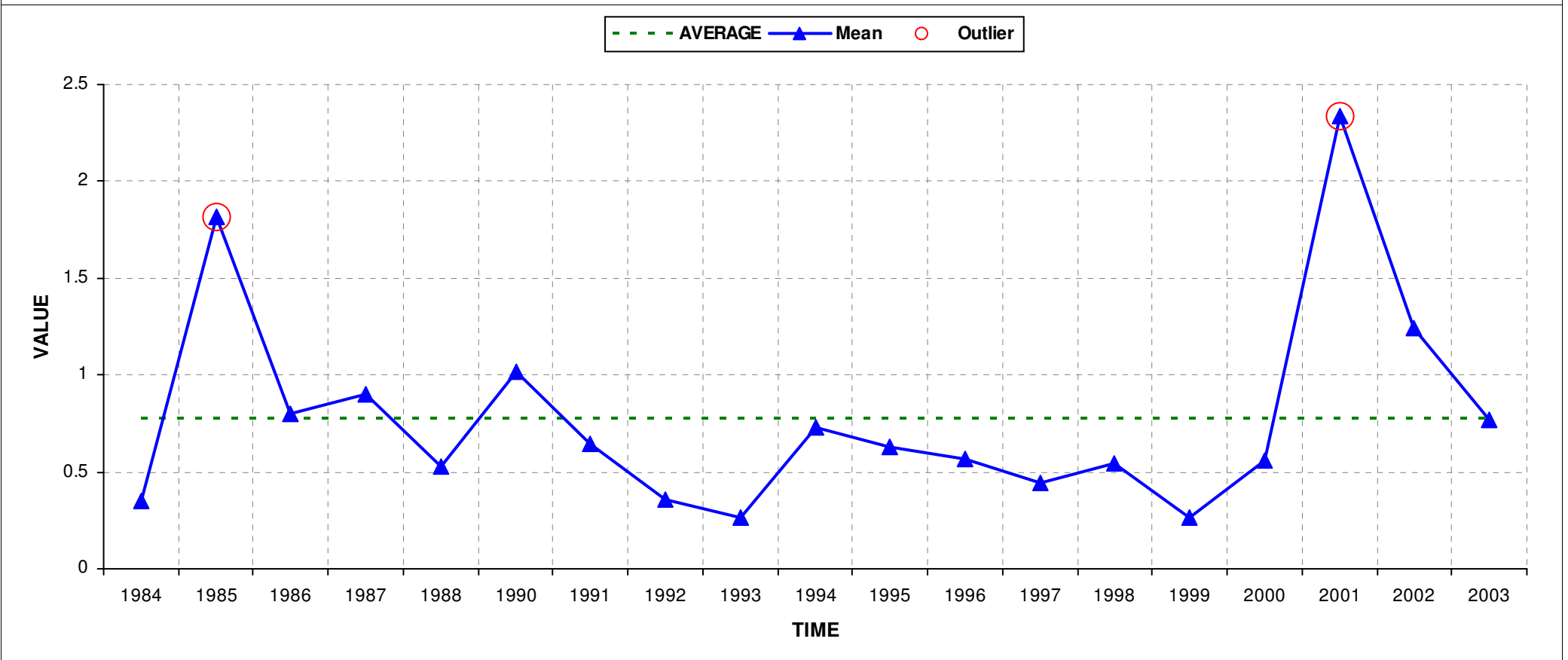
GB_LK_42002

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1985, mg/l P]: 1.813333333; [2001, mg/l P]: 2.33675



Determinand:

Orthophosphate

WaterbaseID:

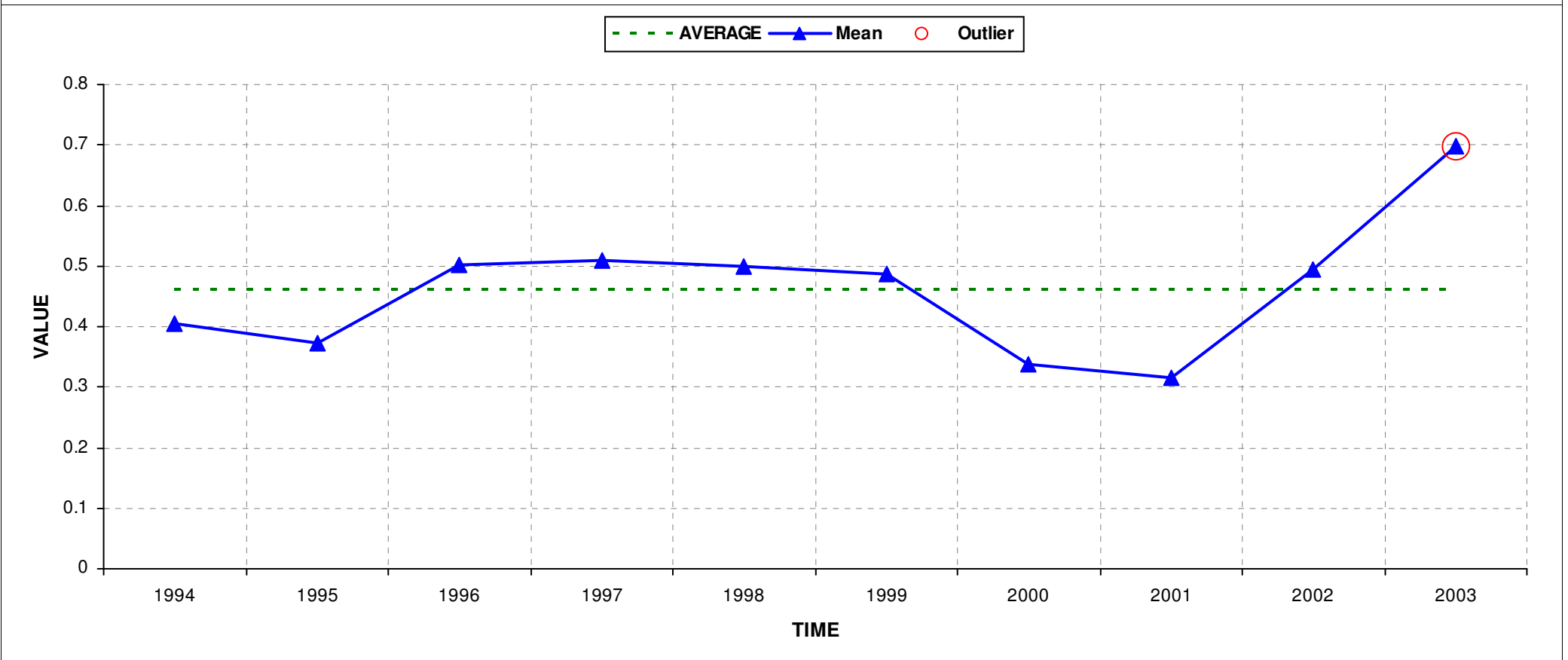
GB_LK_42455

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2003, mg/l P]: 0.697136364



Determinand:

Orthophosphate

WaterbaseID:

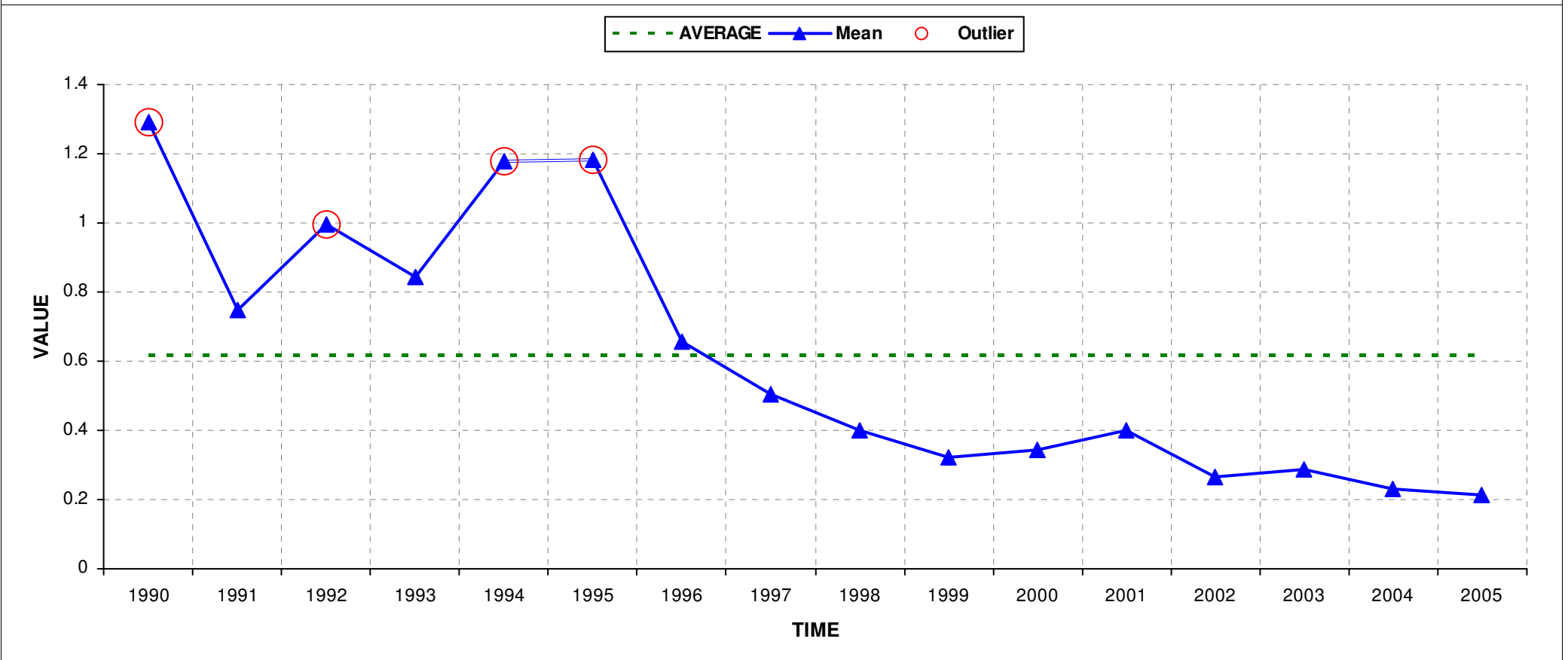
GB_LK_5308

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1990, mg/l P]: 1.2918; [1992, mg/l P]: 0.9948; [1994, mg/l P]: 1.178; [1995, mg/l P]: 1.1833

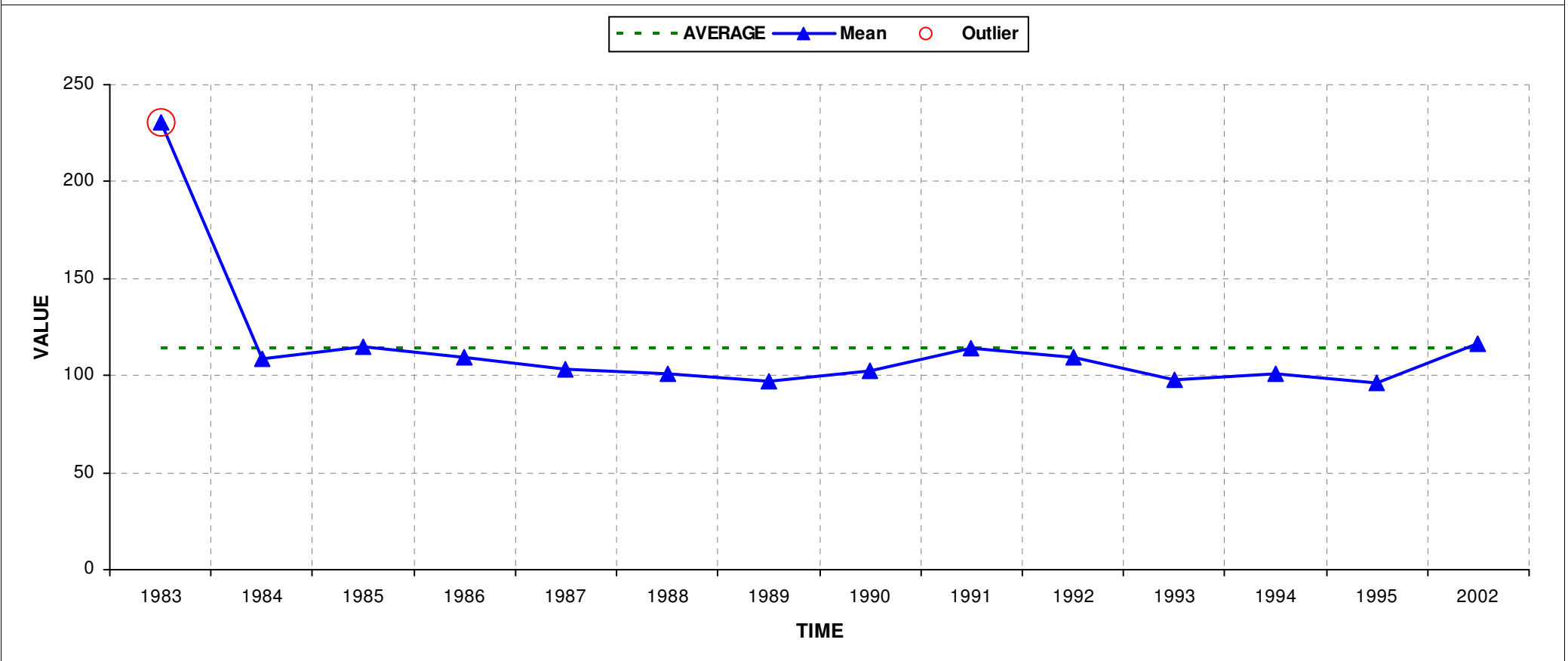


Determinand:
Oxygen Saturation

WaterbaseID:
GB_LK_36050

AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[1983, %]: 230.3333333

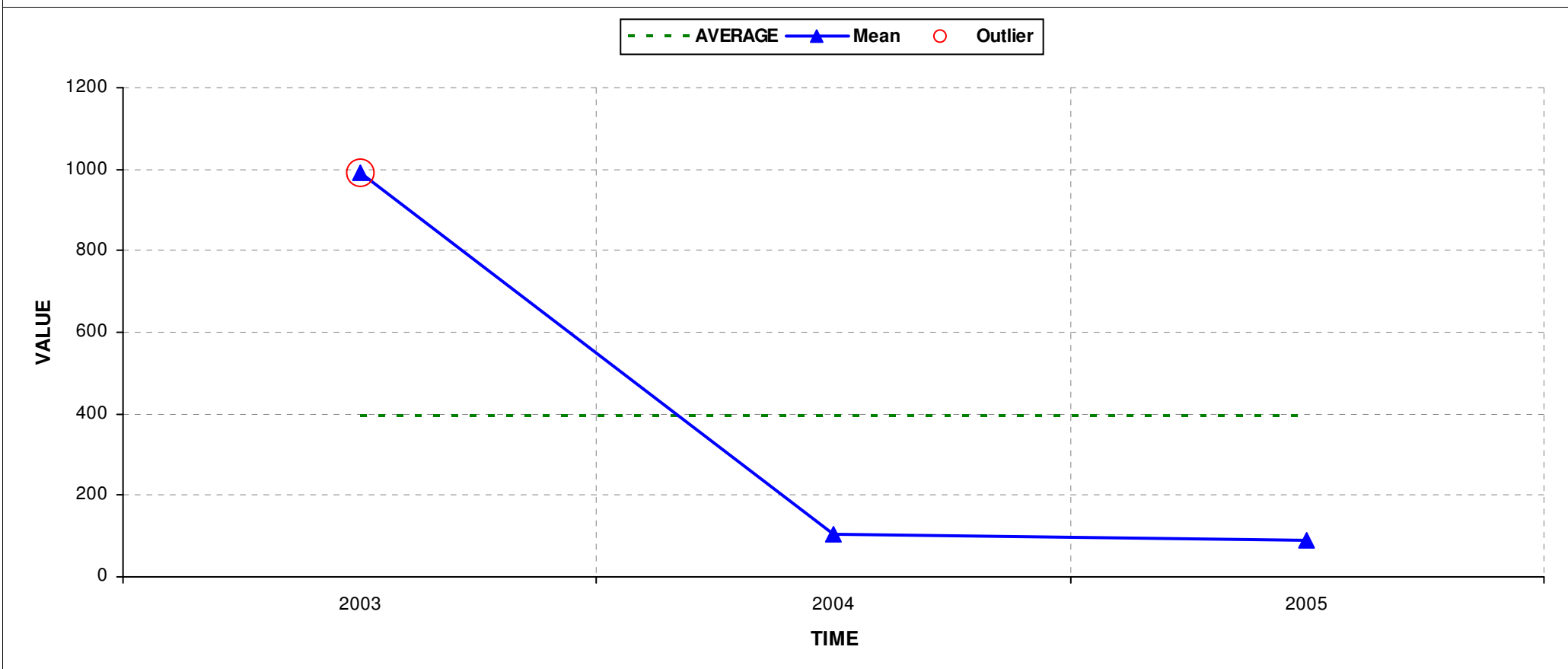


Determinand:
Oxygen Saturation

WaterbaseID:
GB_LK_ANT160

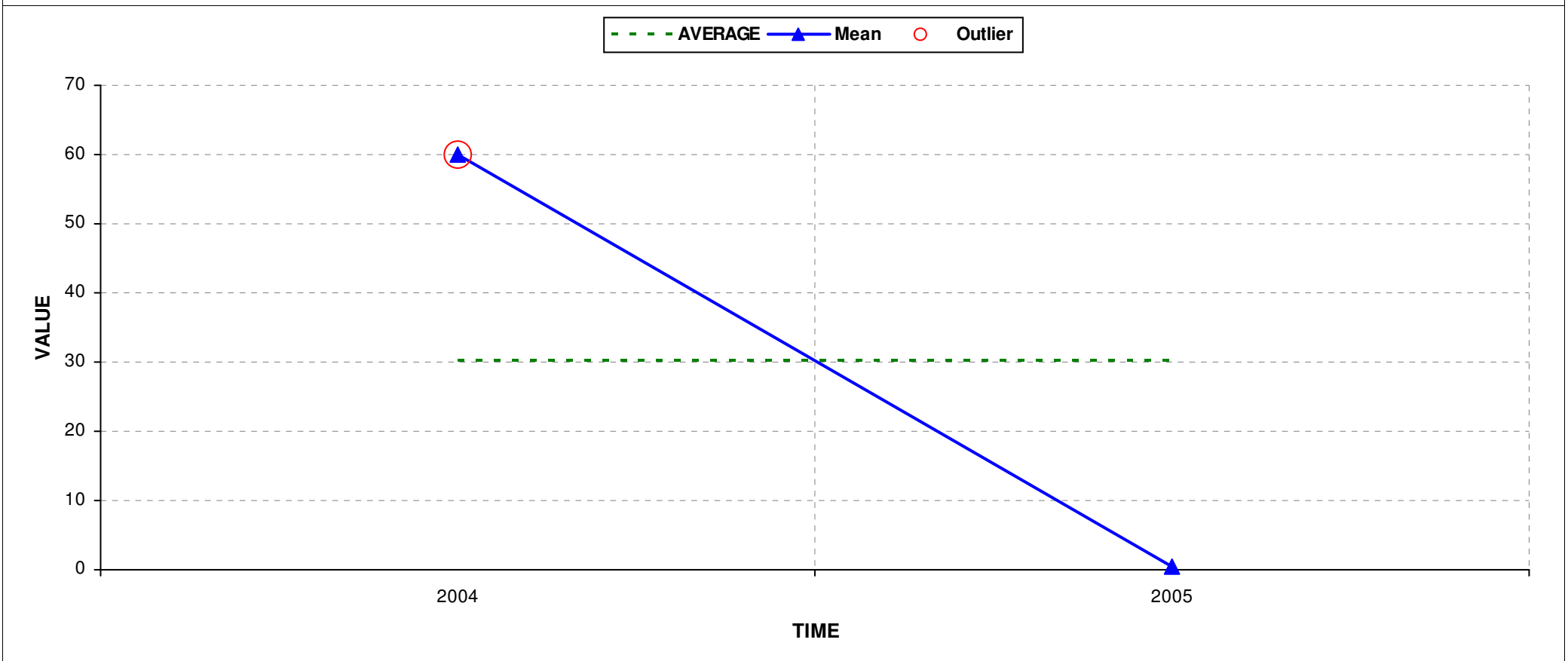
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[2003, %]: 990



Determinand:
Secchi Depth Transparency
WaterbaseID:
GB_LK_91210318
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[2004, m]: 60

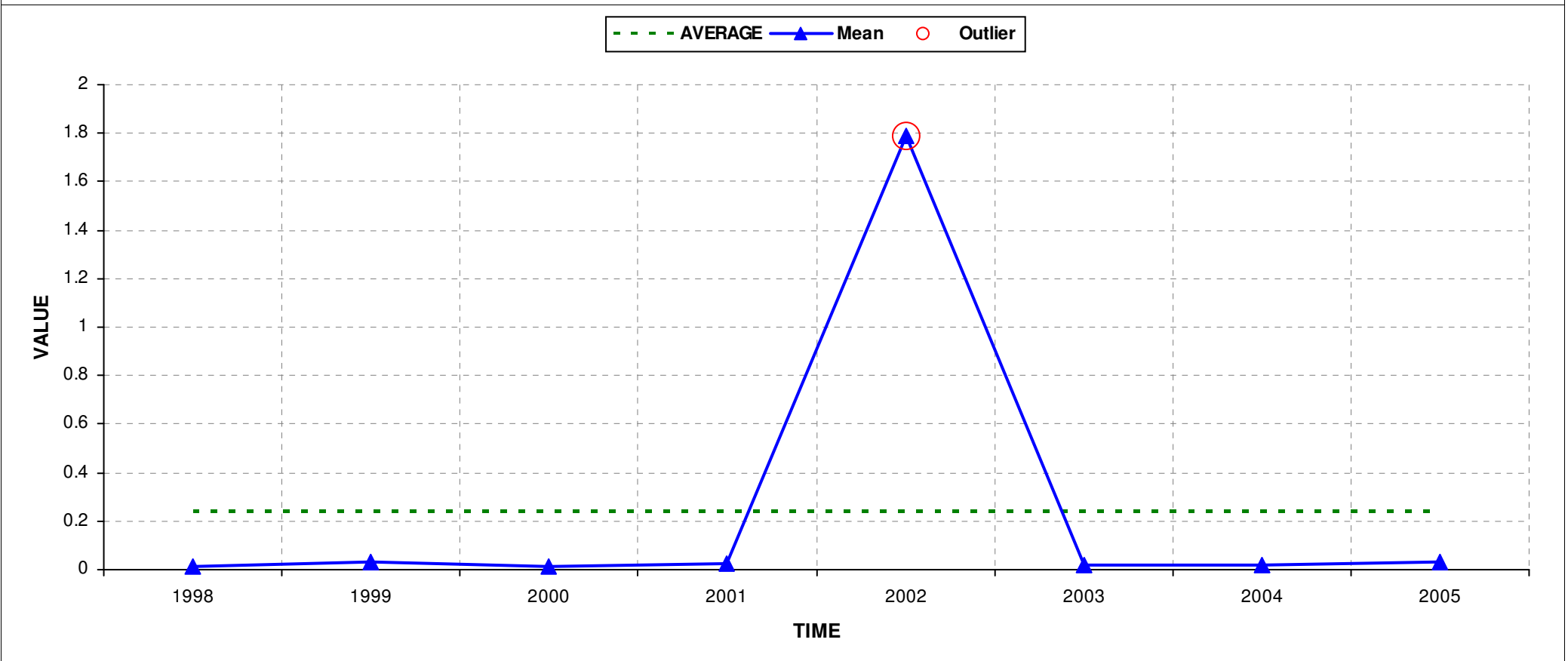


Determinand:
Total Ammonium

WaterbaseID:
GB_LK_233780

AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[2002, mg/l N]: 1.7893



Determinand:

Total Ammonium

WaterbaseID:

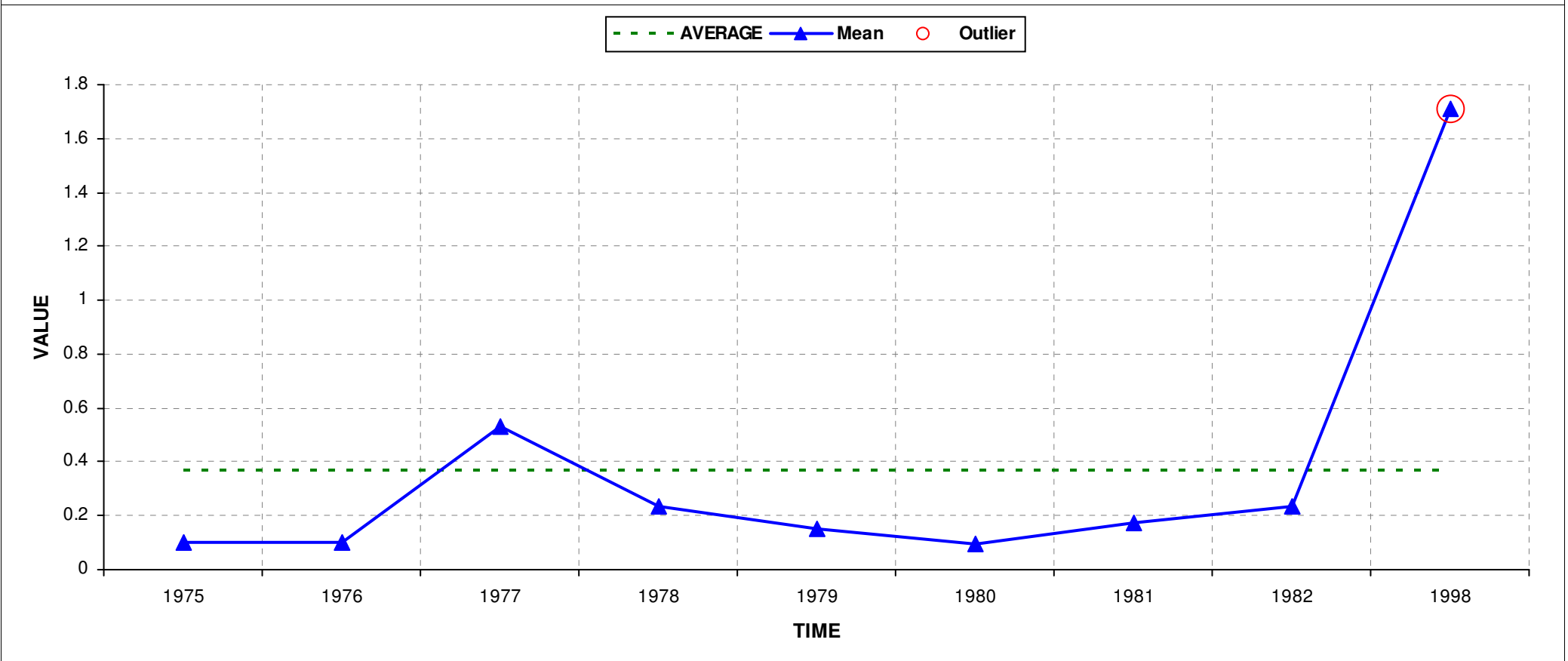
GB_LK_29328

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1998, mg/l N]: 1.71



Determinand:

Total Ammonium

WaterbaseID:

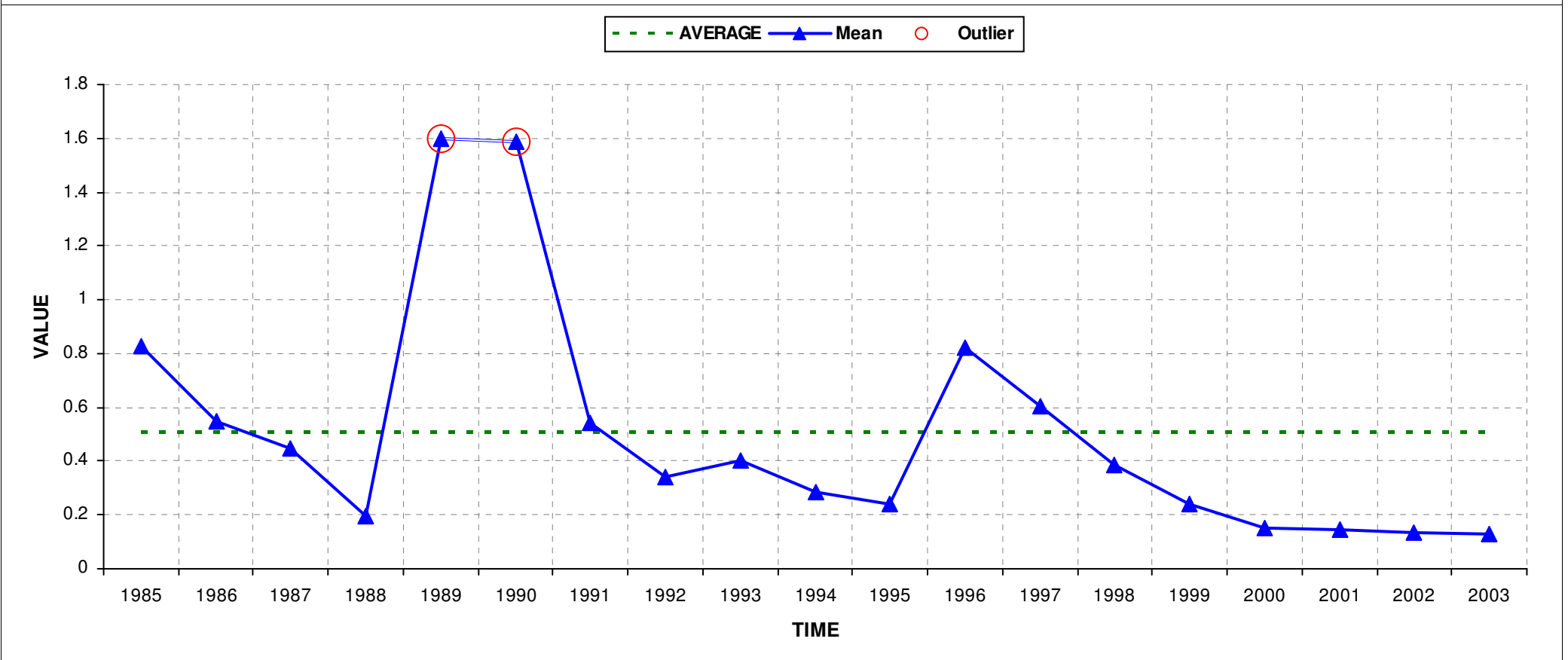
GB_LK_31168

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1989, mg/l N]: 1.6; [1990, mg/l N]: 1.59



Determinand:

Total Ammonium

WaterbaseID:

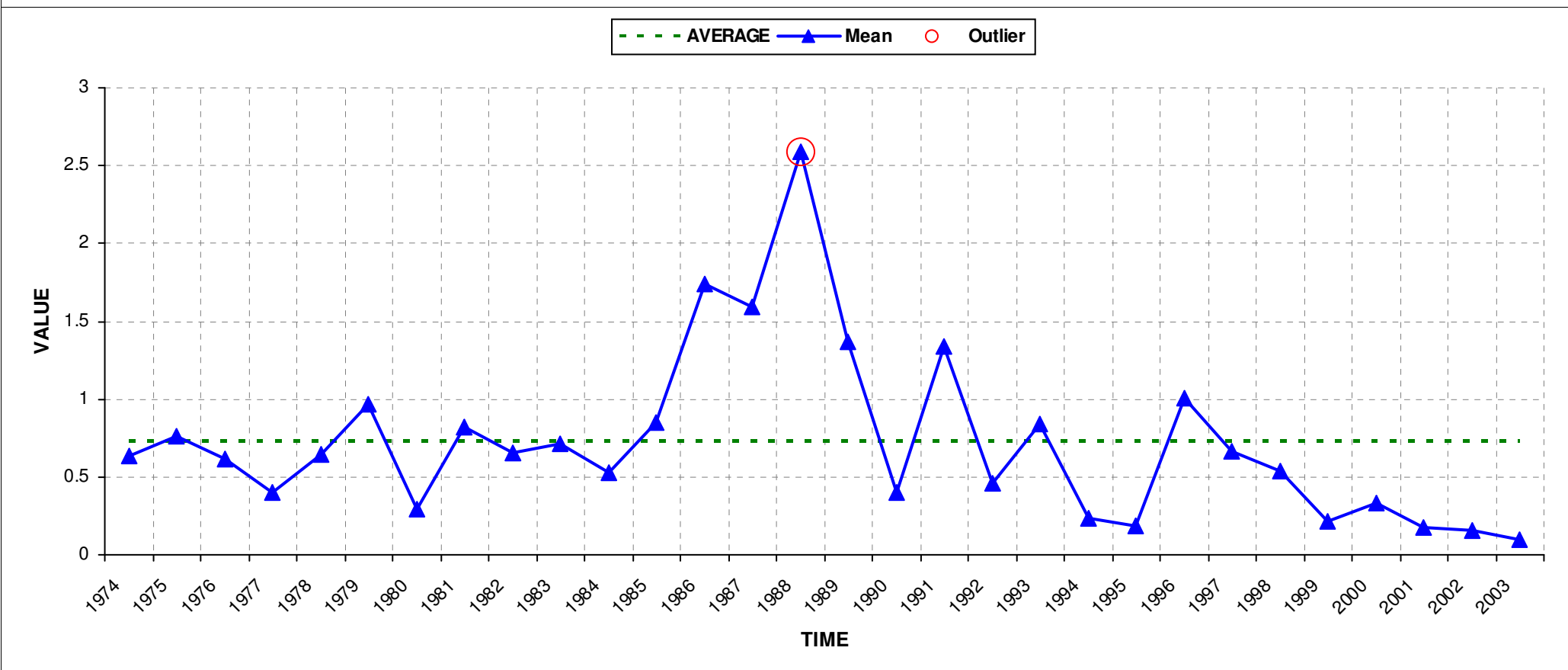
GB_LK_33589

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1988, mg/l N]: 2.5925



Determinand:

Total Ammonium

WaterbaseID:

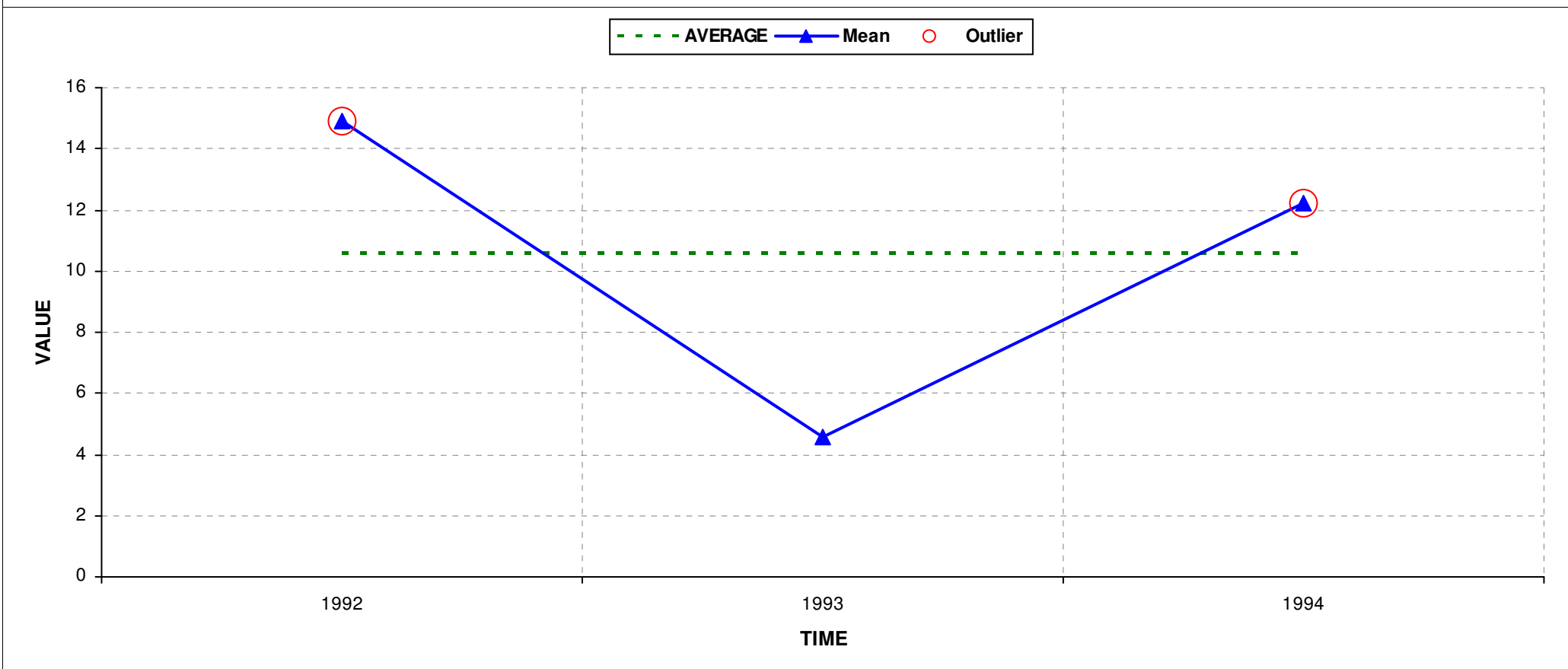
GB_LK_34883

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1992, mg/l N]: 14.90142857; [1994, mg/l N]: 12.213



Determinand:

Total Ammonium

WaterbaseID:

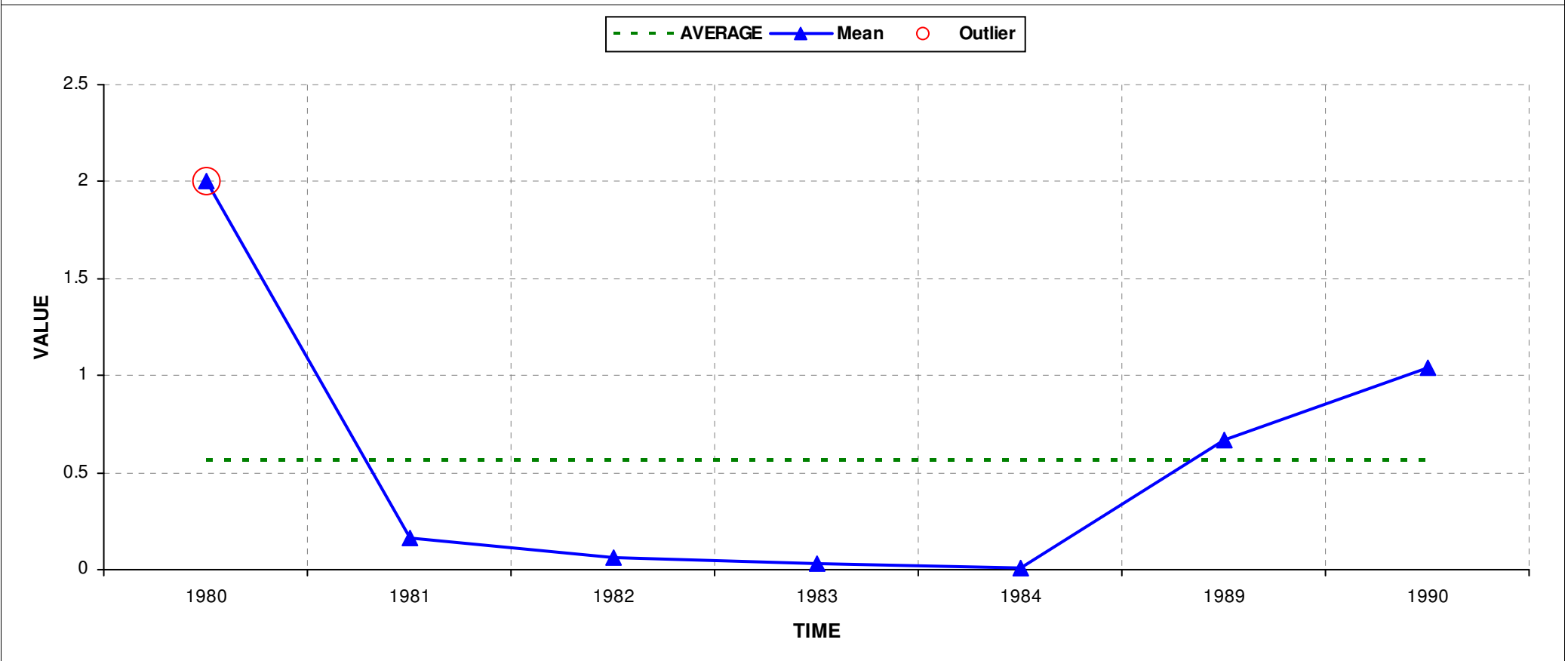
GB_LK_35574

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1980, mg/l N]: 2



Determinand:

Total Ammonium

WaterbaseID:

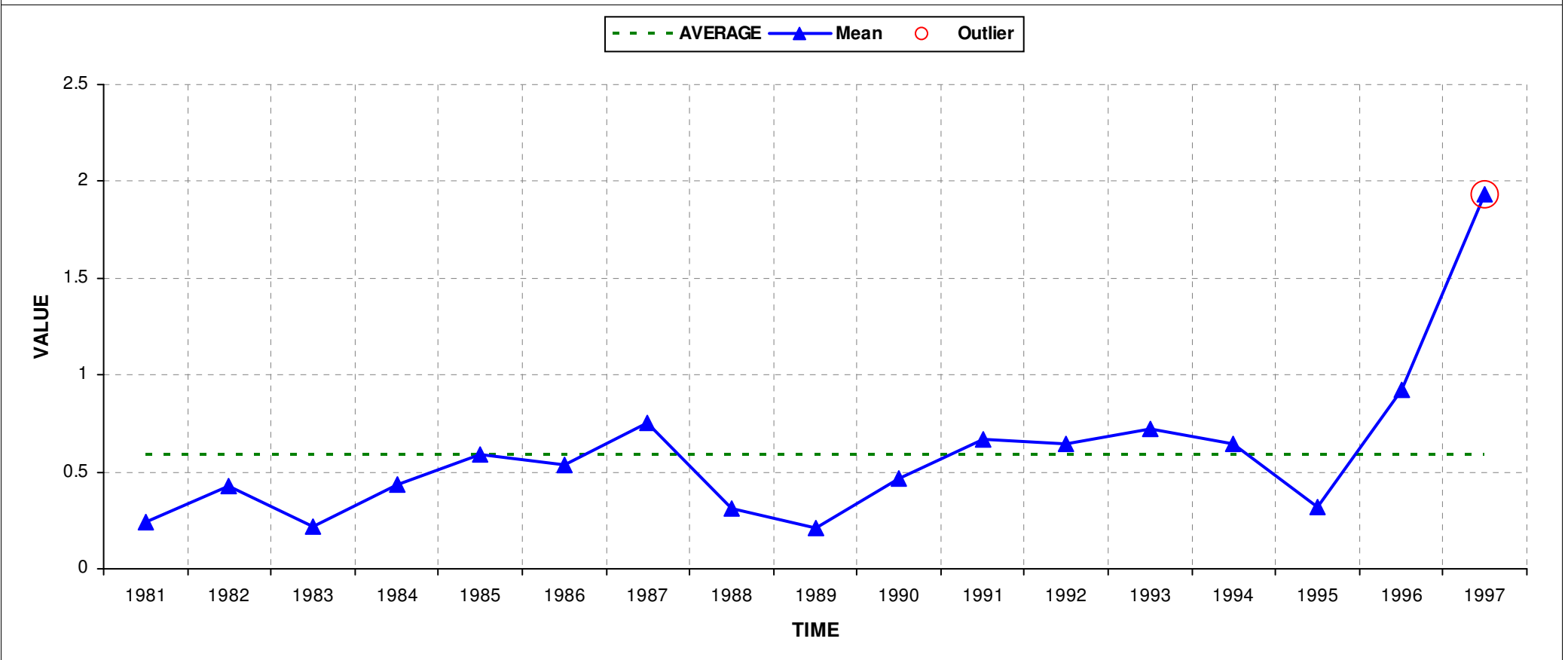
GB_LK_35645

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1997, mg/l N]: 1.93



Determinand:

Total Ammonium

WaterbaseID:

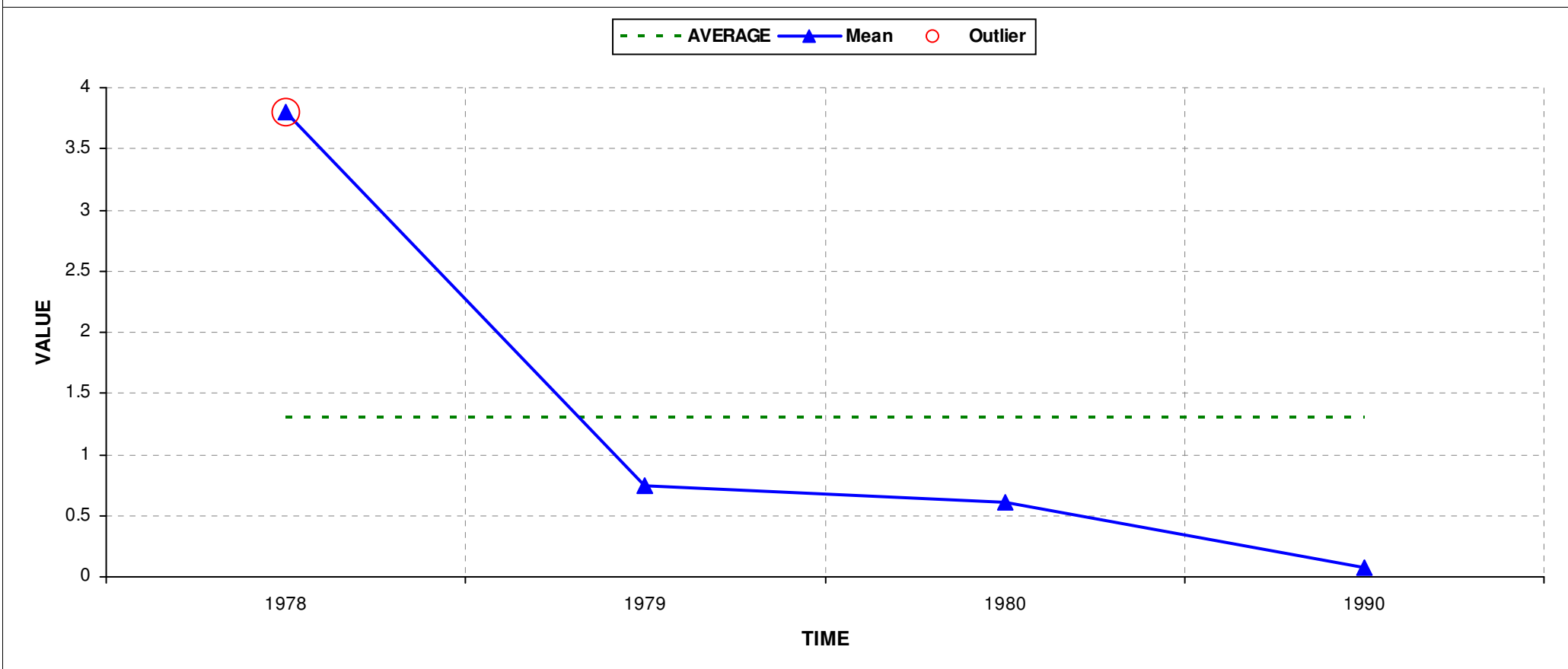
GB_LK_41960

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1978, mg/l N]: 3.8



Determinand:

Total Ammonium

WaterbaseID:

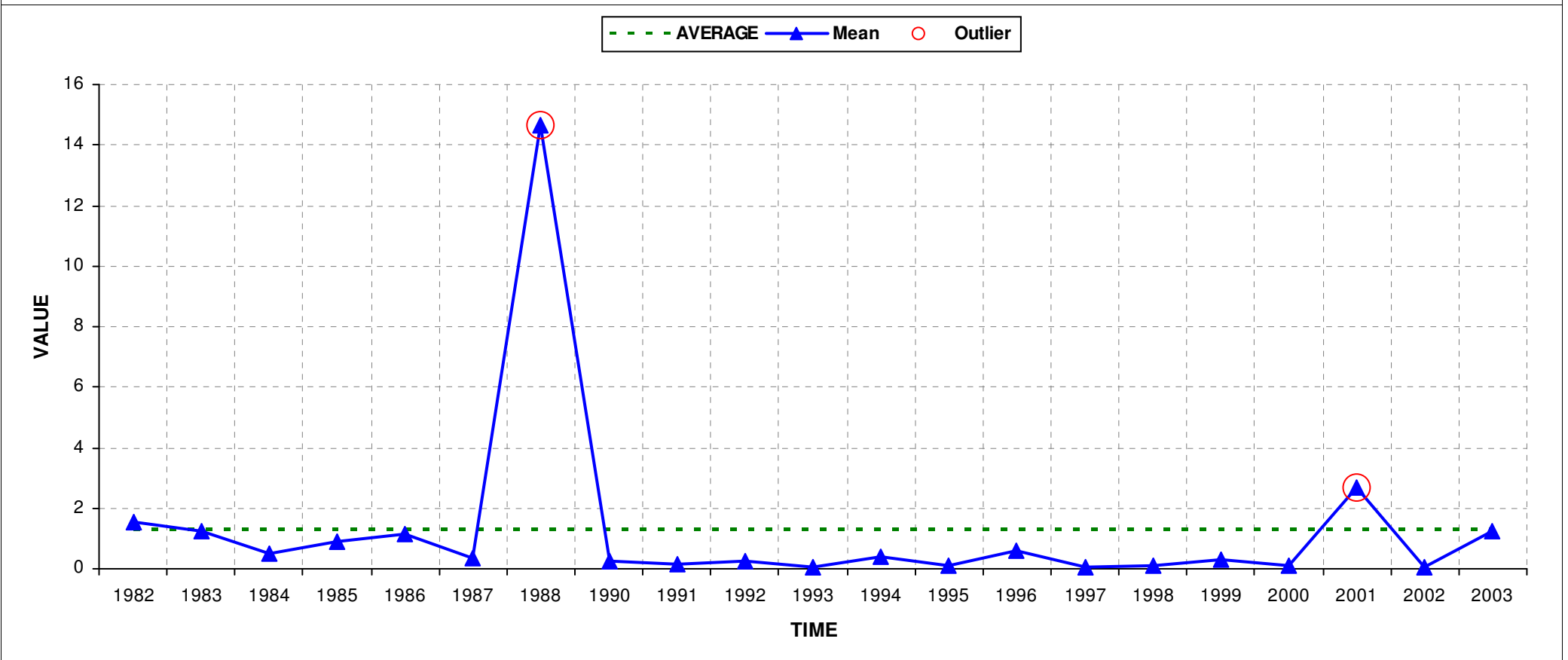
GB_LK_42002

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1988, mg/l N]: 14.68; [2001, mg/l N]: 2.6655



Determinand:

Total Ammonium

WaterbaseID:

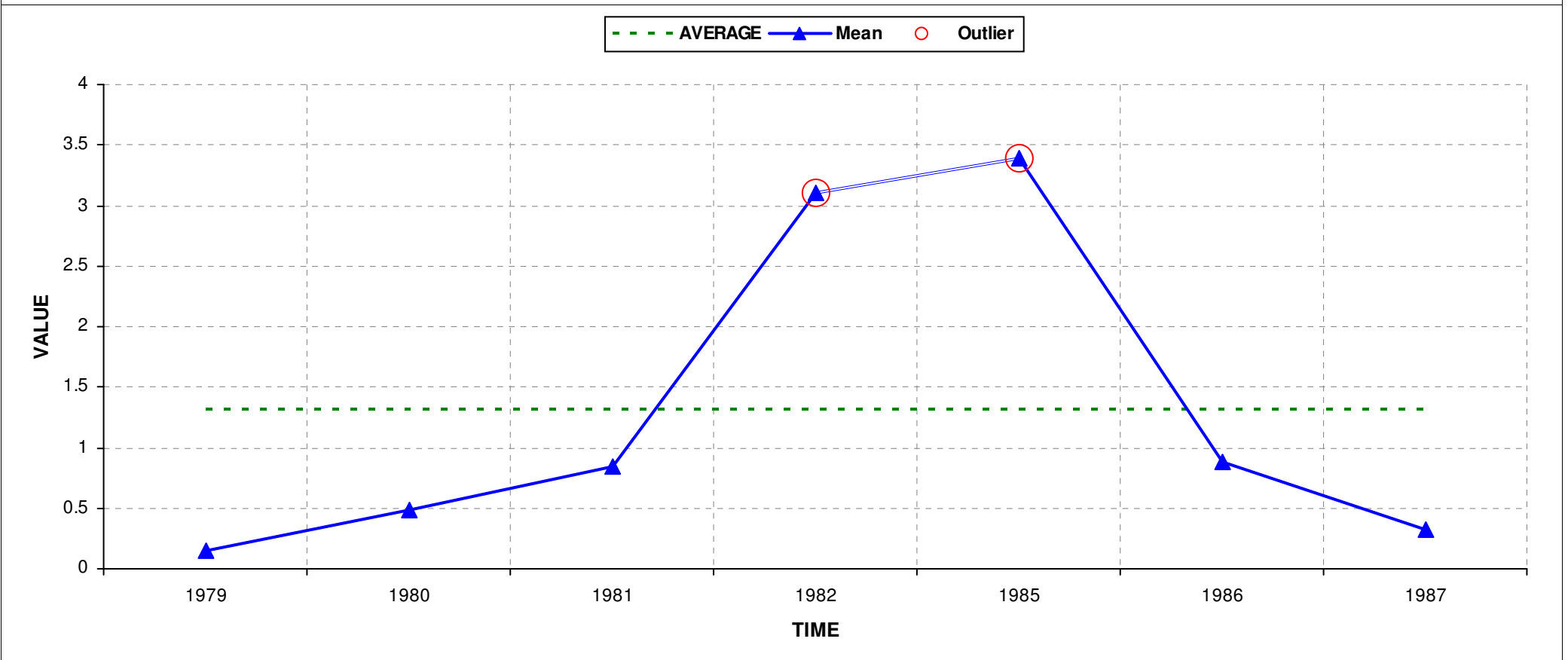
GB_LK_42423

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1982, mg/l N]: 3.111764706; [1985, mg/l N]: 3.3925



Determinand:

Total Ammonium

WaterbaseID:

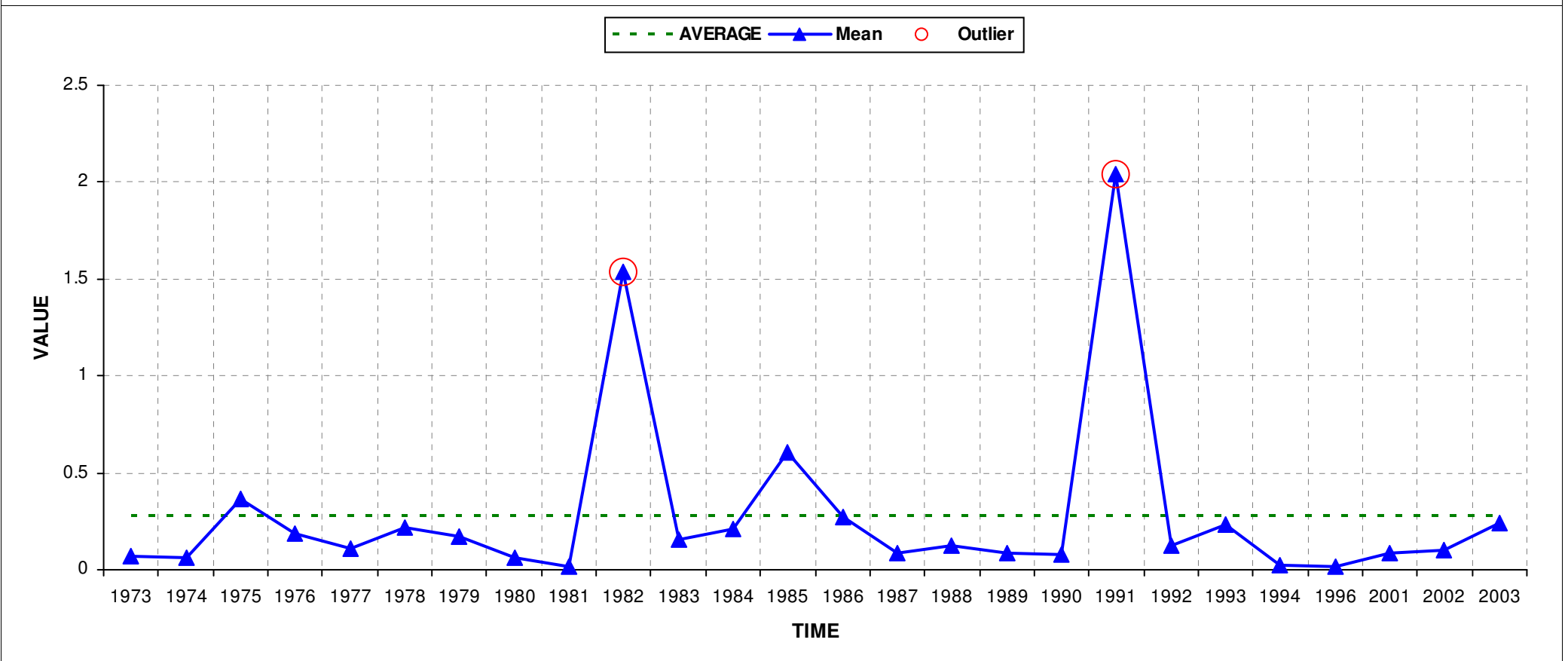
GB_LK_42537

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1982, mg/l N]: 1.539090909; [1991, mg/l N]: 2.045



Determinand:

Total Nitrogen

WaterbaseID:

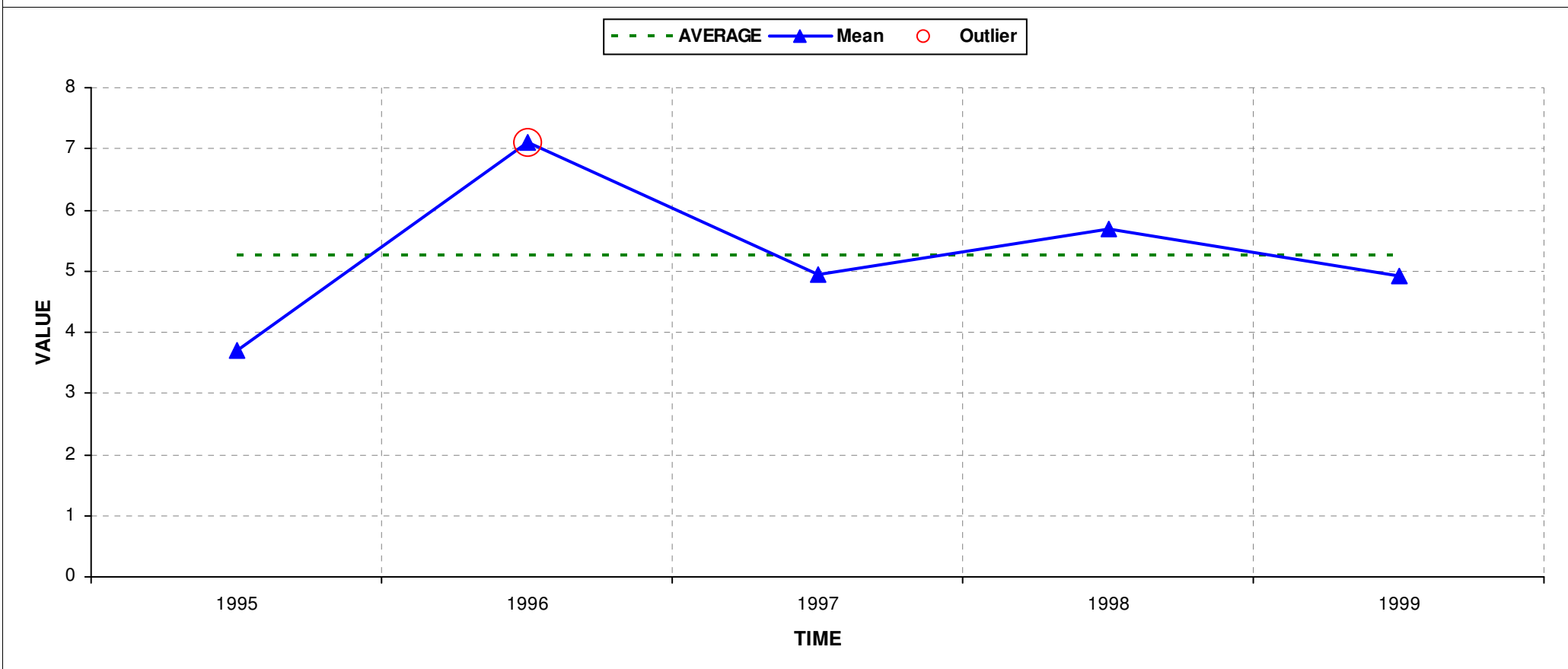
GB_LK_36479

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1996, mg/l N]: 7.112



Determinand:

Total Nitrogen

WaterbaseID:

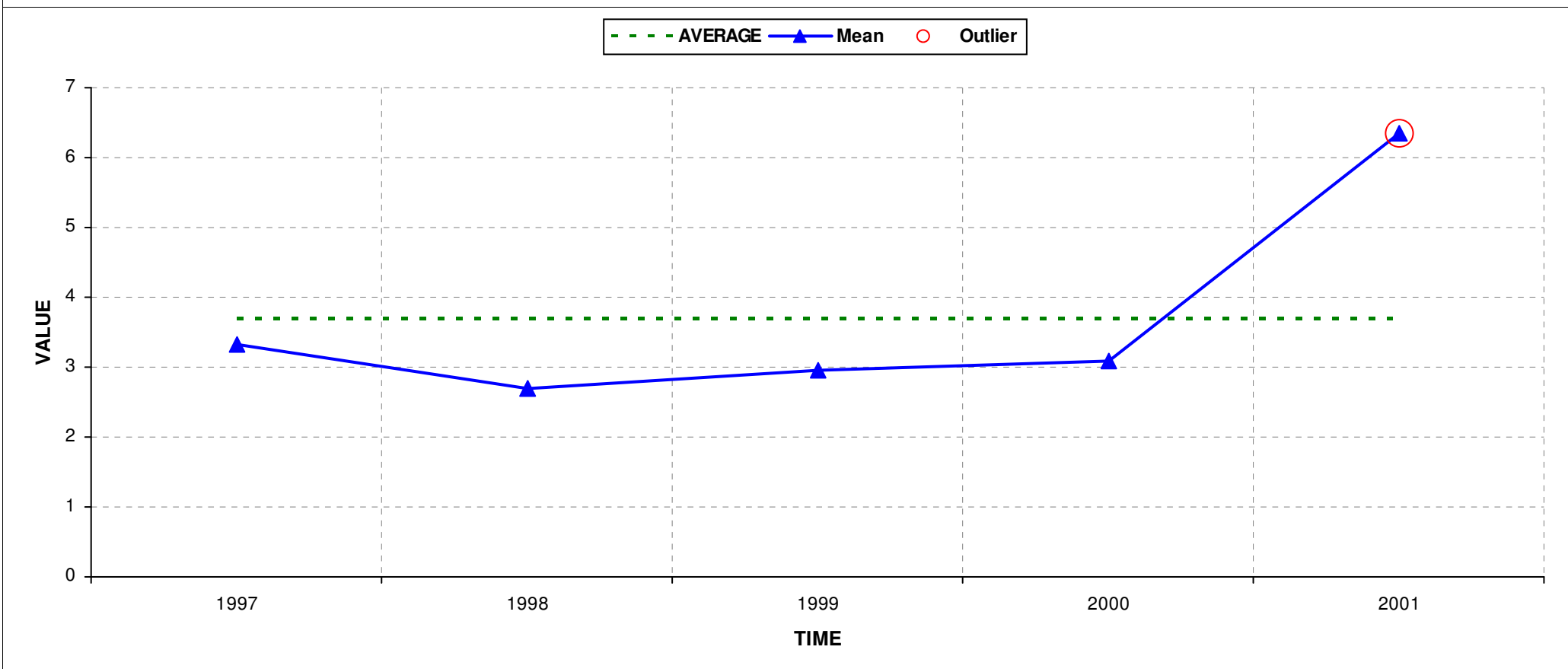
GB_LK_36980

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[2001, mg/l N]: 6.355



Determinand:

Total Nitrogen

WaterbaseID:

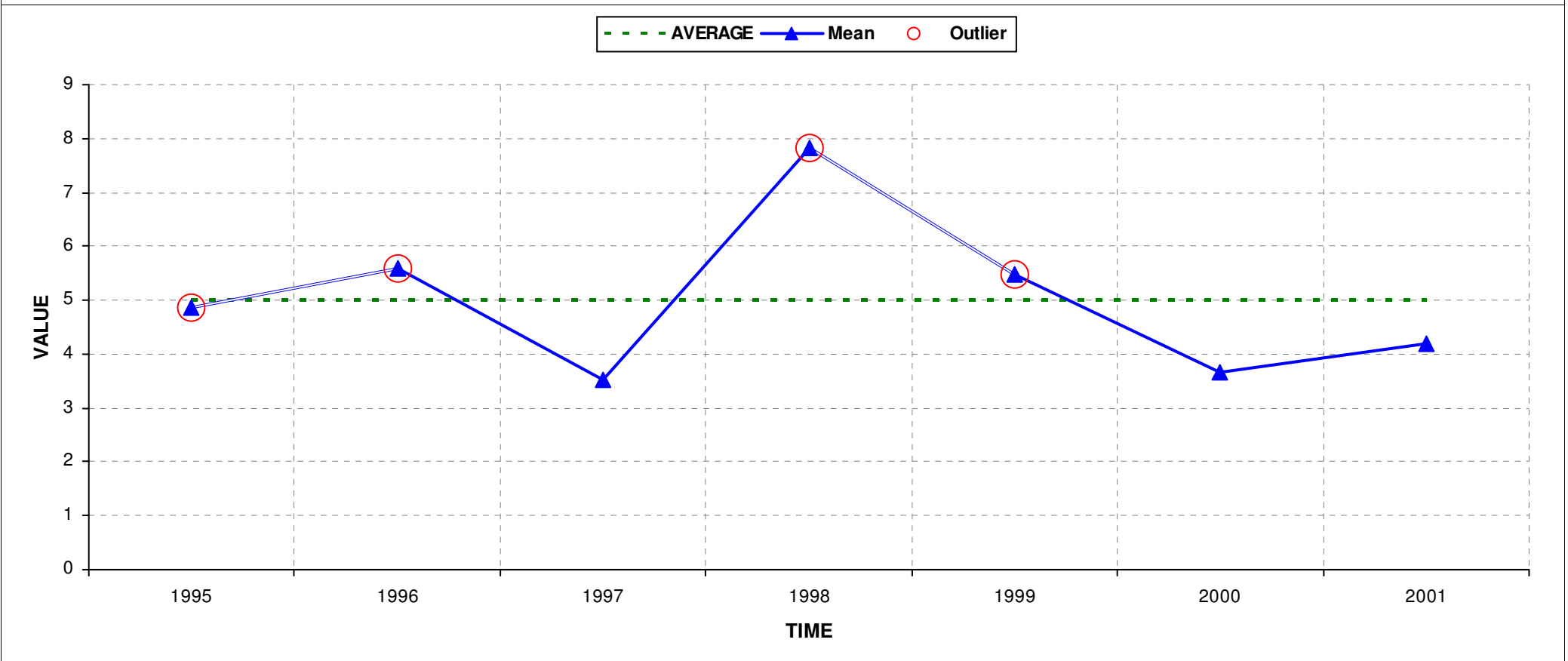
GB_LK_38199

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1995, mg/l N]: 4.865714286; [1996, mg/l N]: 5.583333333; [1998, mg/l N]: 7.815909091; [1999, mg/l N]: 5.475



Determinand:

Total Nitrogen

WaterbaseID:

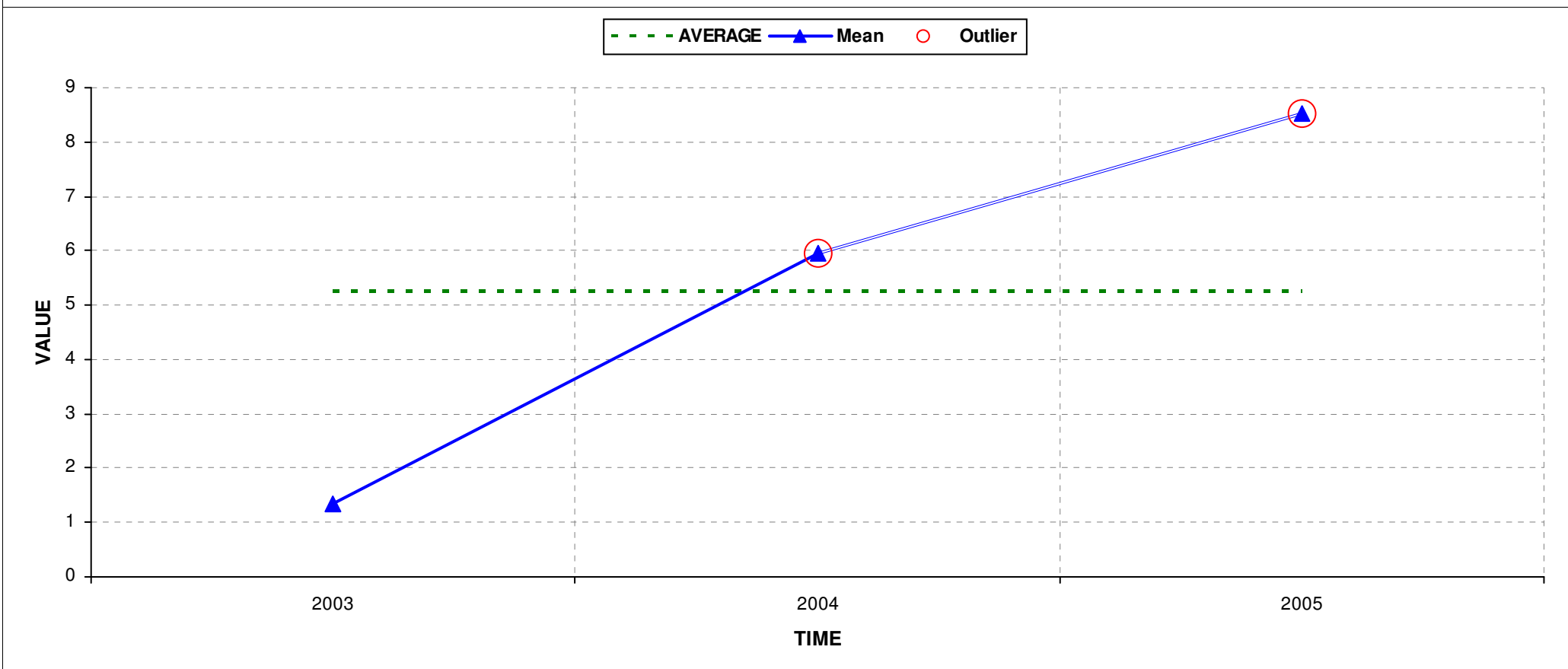
GB_LK_86234

AggregationPeriod:

Annual

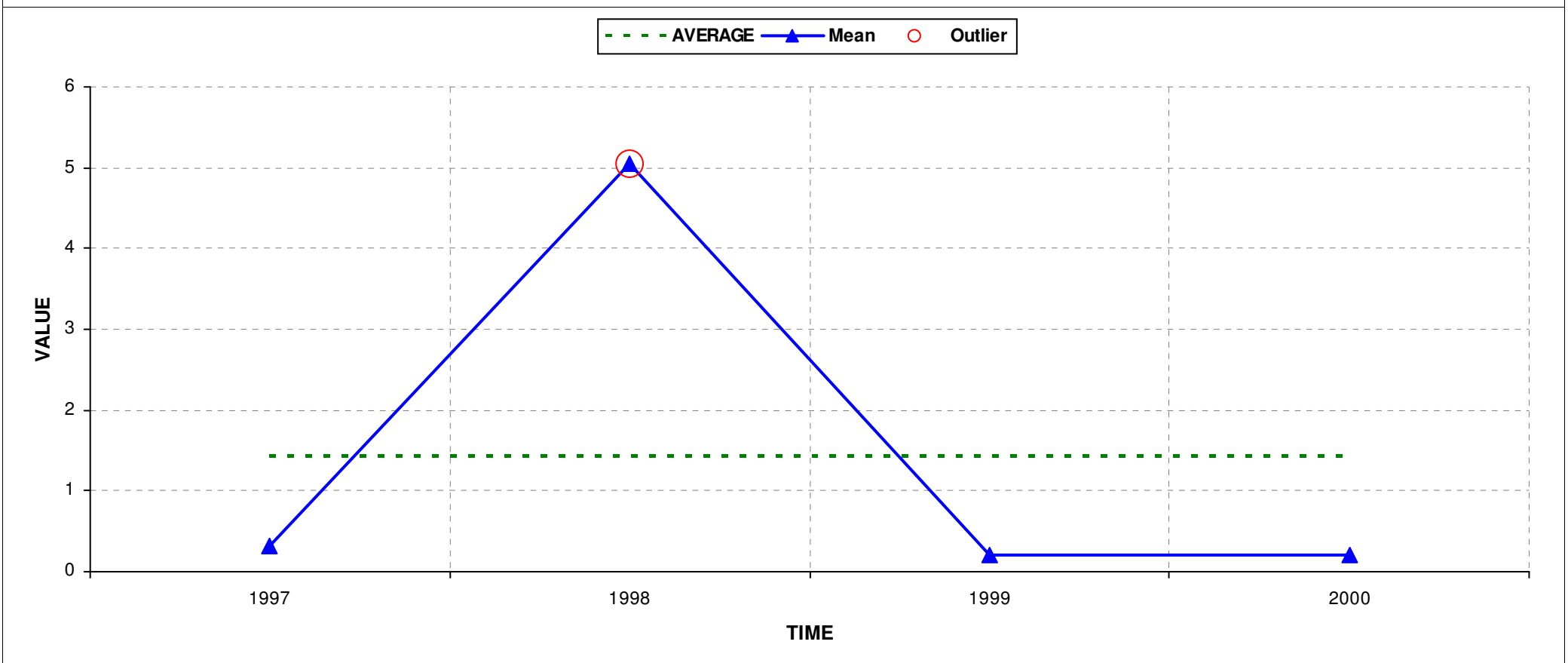
Outlier values ([Year, Unit]: Mean):

[2004, mg/l N]: 5.94; [2005, mg/l N]: 8.51875



Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_29328
AggregationPeriod:
Annual

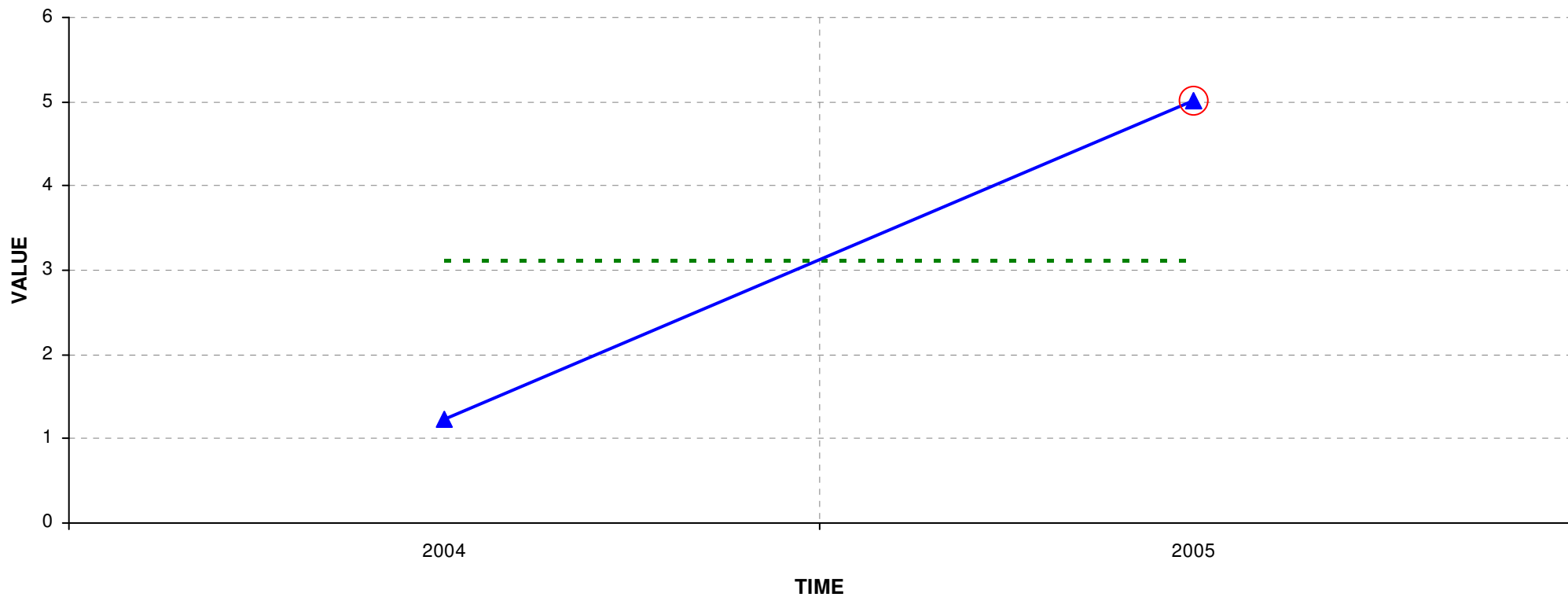
Outlier values ([Year, Unit]: Mean):
[1998, mg/l N]: 5.042333333



Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_3067
AggregationPeriod:
Annual

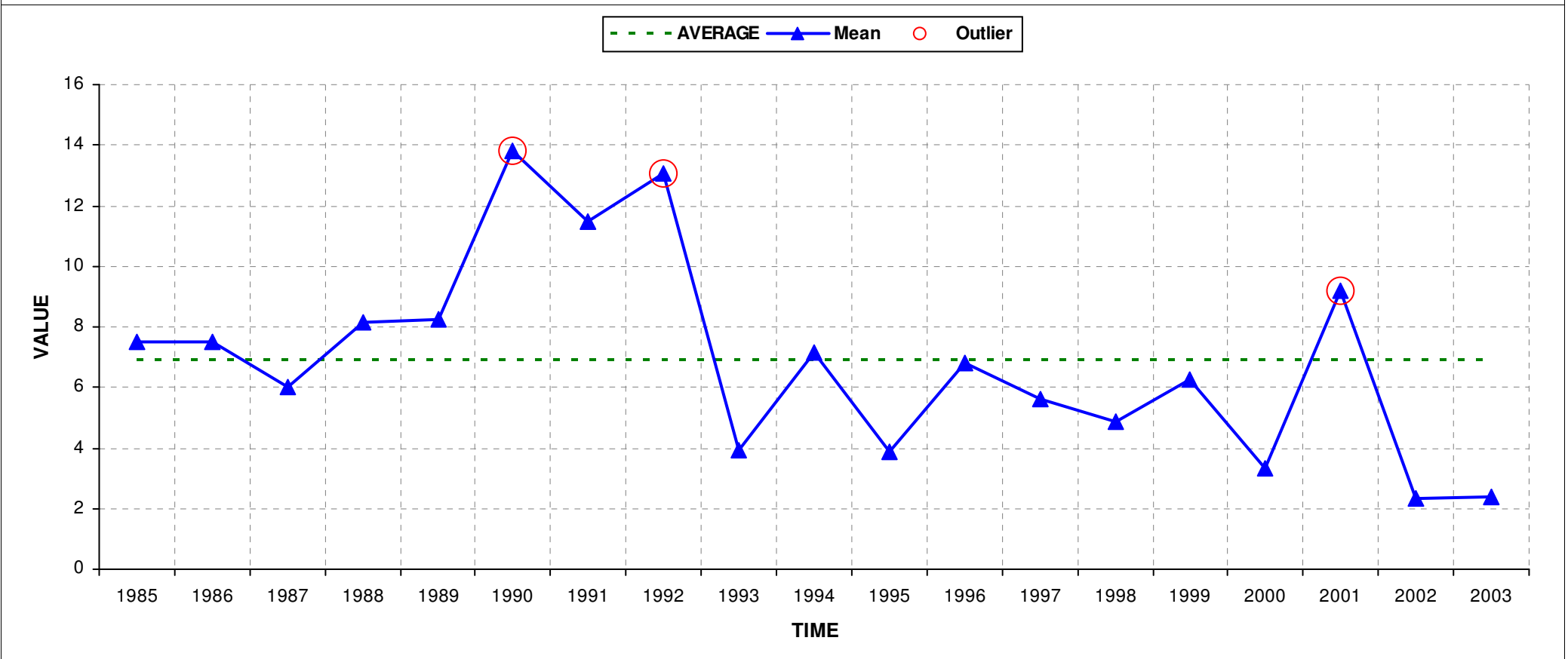
Outlier values ([Year, Unit]: Mean):
[2005, mg/l N]: 5.004625

--- AVERAGE ▲ Mean ○ Outlier



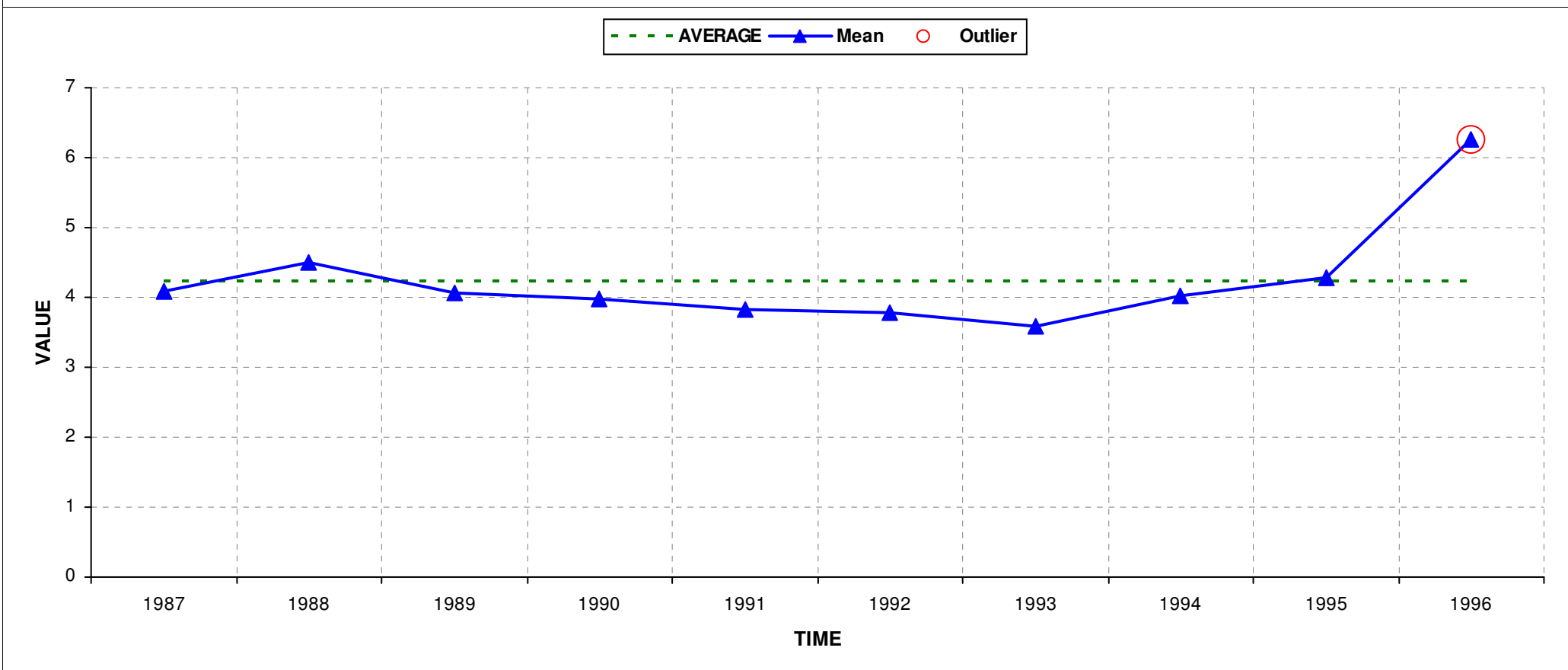
Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_35548
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[1990, mg/l N]: 13.8375; [1992, mg/l N]: 13.08857143; [2001, mg/l N]: 9.184



Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_35952
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[1996, mg/l N]: 6.266666667



Determinand:

Total Oxidised Nitrogen

WaterbaseID:

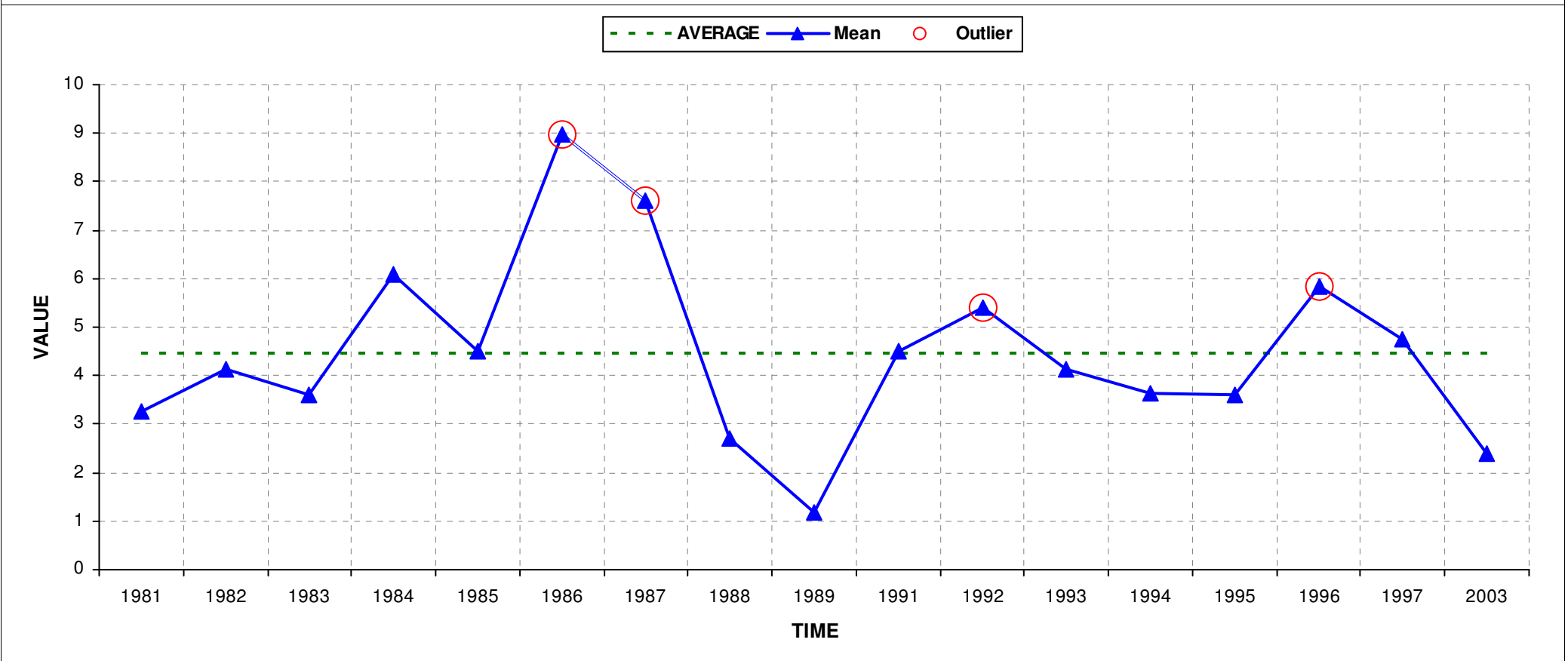
GB_LK_36479

AggregationPeriod:

Annual

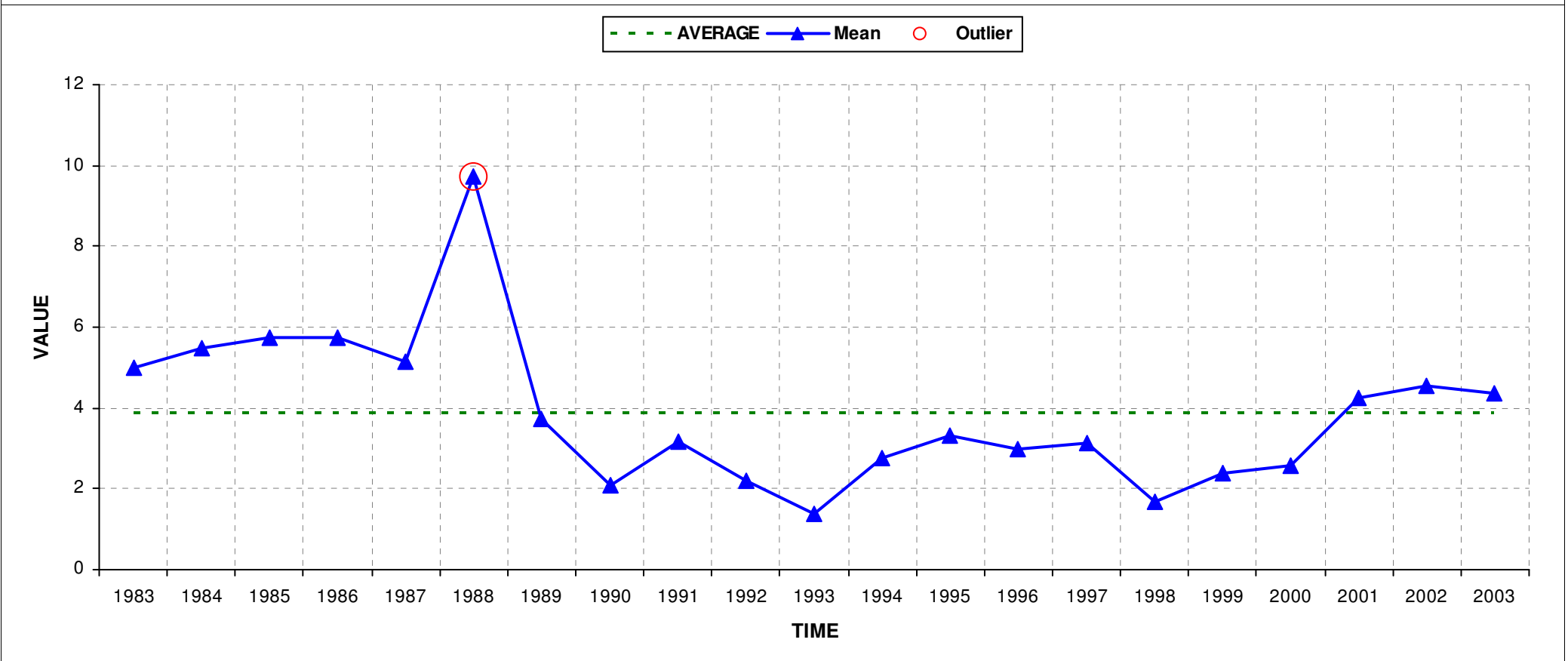
Outlier values ([Year, Unit]: Mean):

[1986, mg/l N]: 8.96; [1987, mg/l N]: 7.598333333; [1992, mg/l N]: 5.391190476; [1996, mg/l N]: 5.845



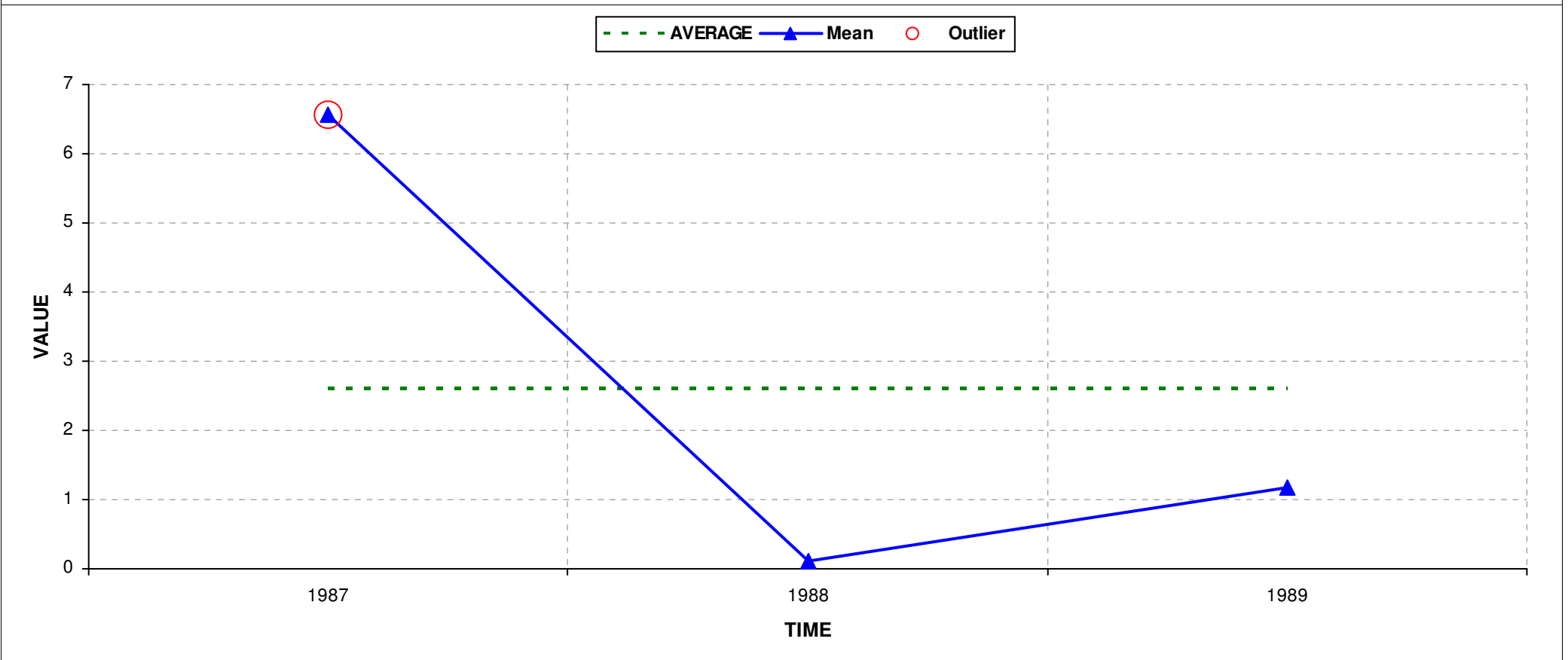
Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_36980
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[1988, mg/l N]: 9.74



Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_37497
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[1987, mg/l N]: 6.566666667



Determinand:

Total Oxidised Nitrogen

WaterbaseID:

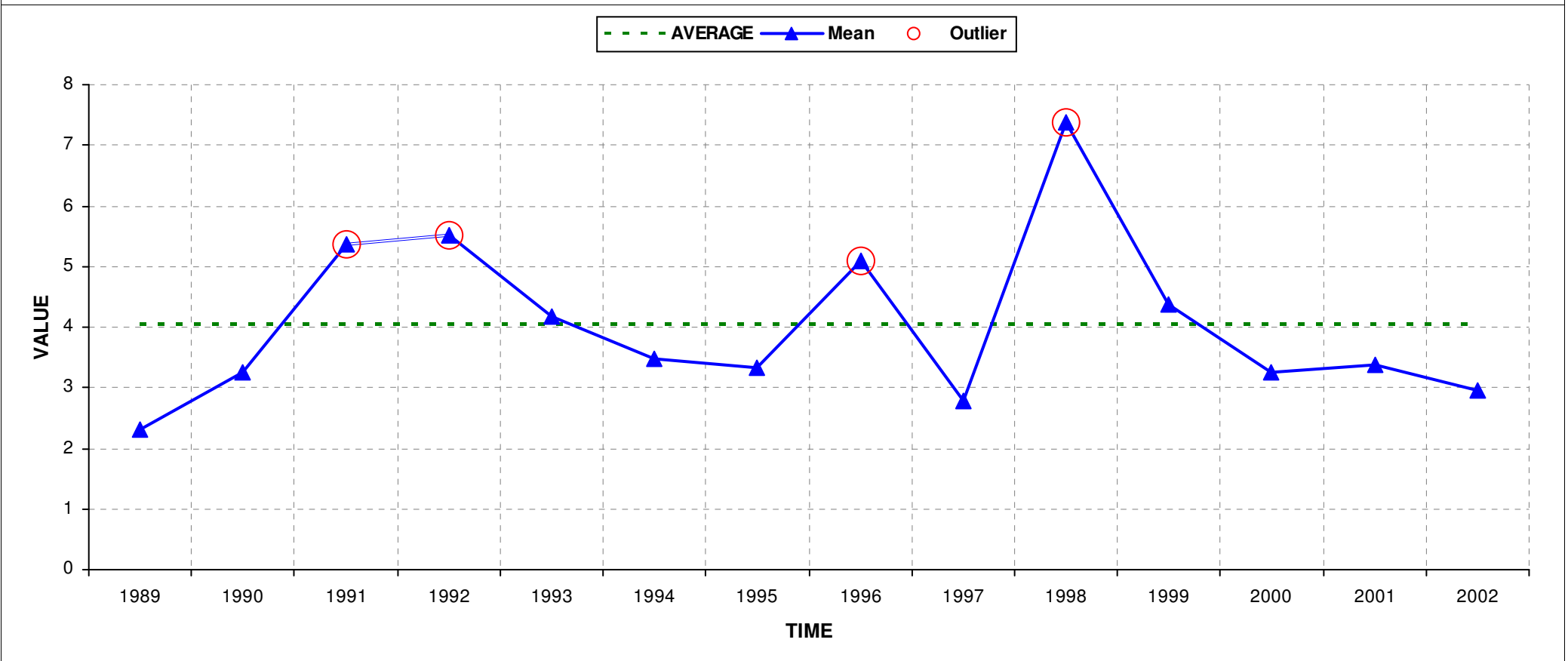
GB_LK_38199

AggregationPeriod:

Annual

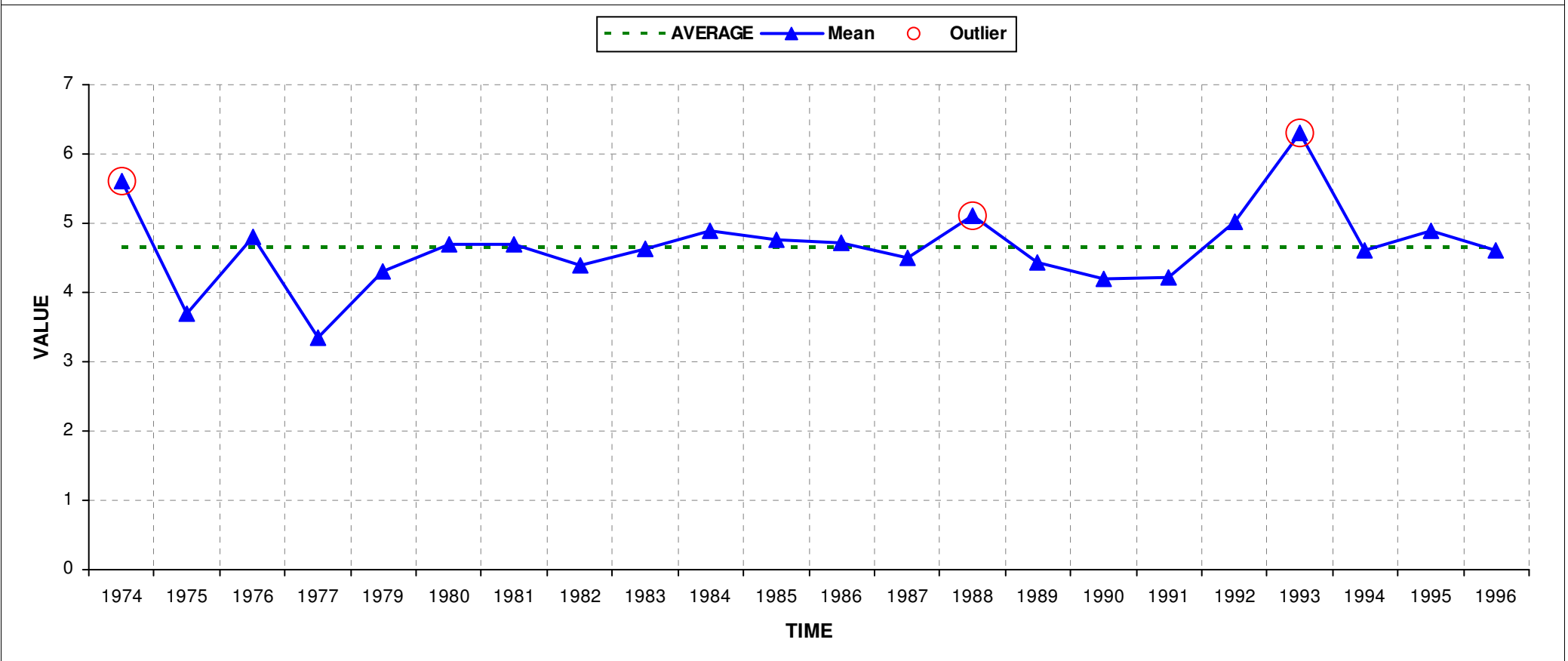
Outlier values ([Year, Unit]: Mean):

[1991, mg/l N]: 5.377037037; [1992, mg/l N]: 5.5271875; [1996, mg/l N]: 5.085714286; [1998, mg/l N]: 7.375



Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_41217
AggregationPeriod:
Annual

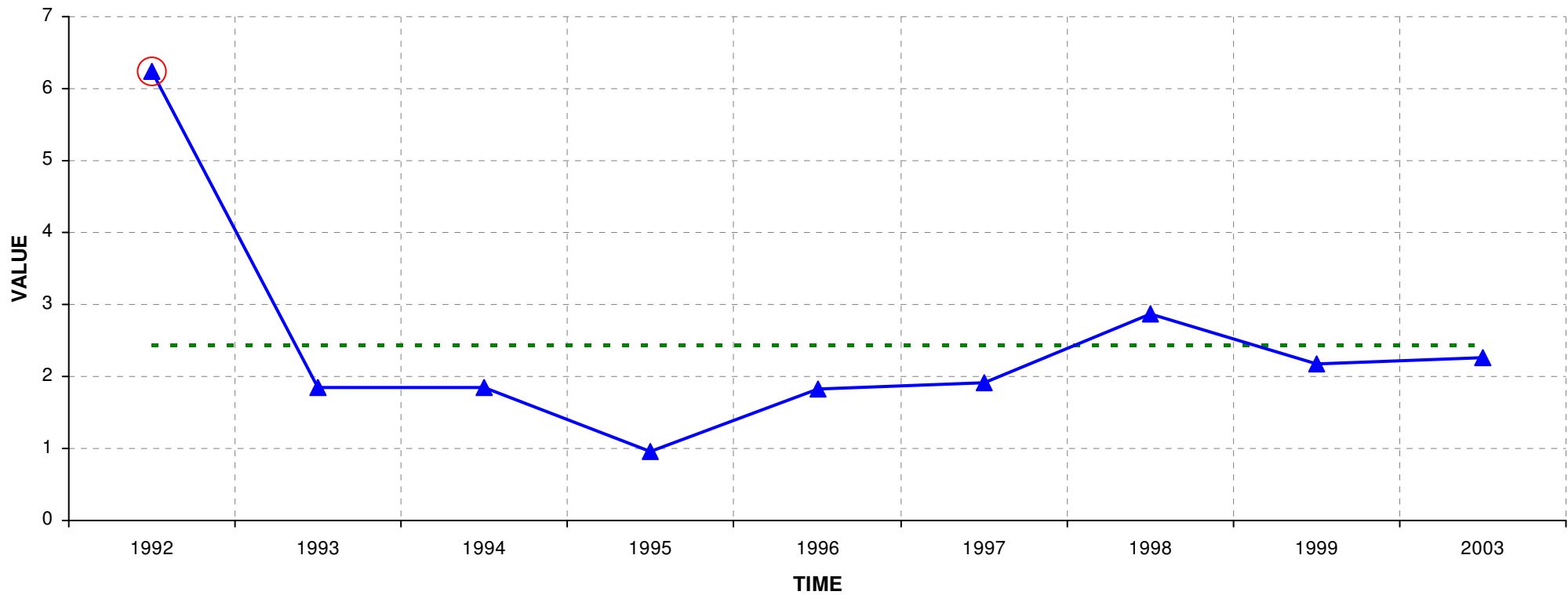
Outlier values ([Year, Unit]: Mean):
[1974, mg/l N]: 5.6; [1988, mg/l N]: 5.1; [1993, mg/l N]: 6.3



Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_41602
AggregationPeriod:
Annual

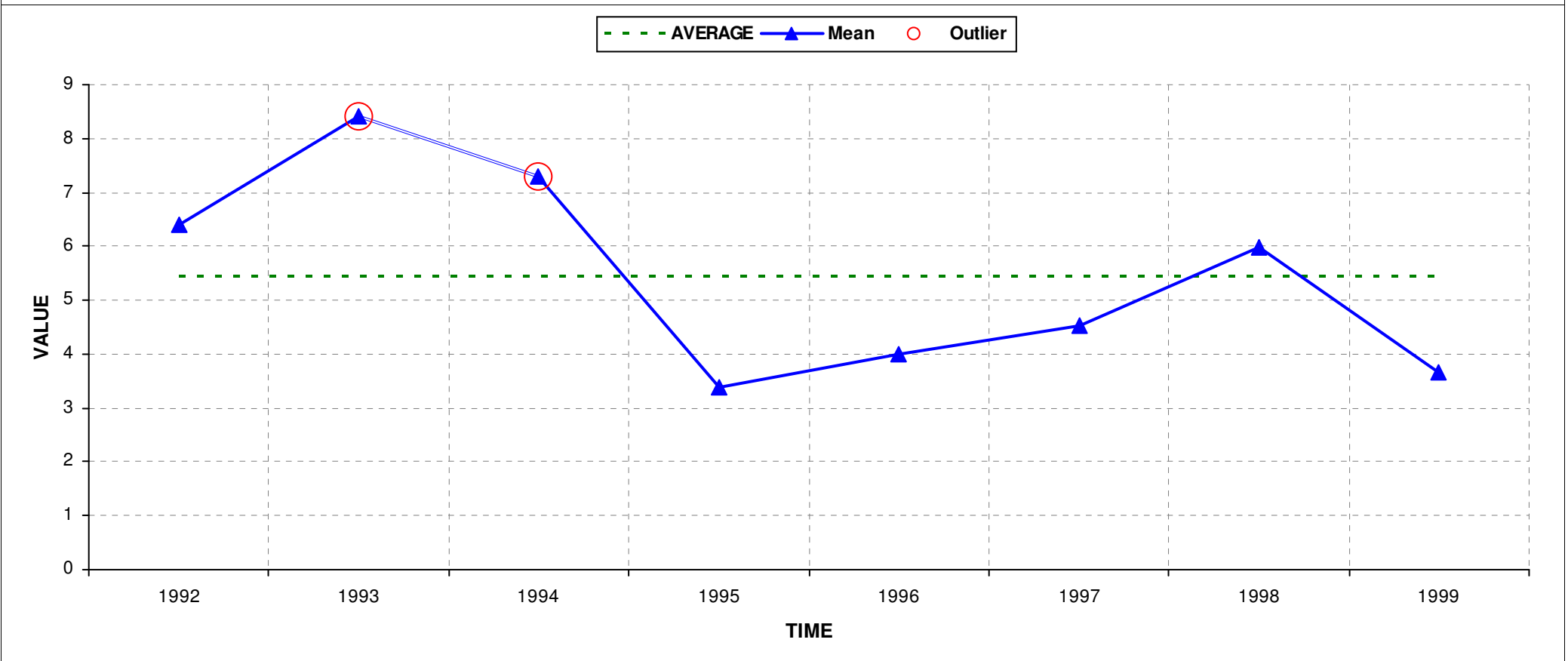
Outlier values ([Year, Unit]: Mean):
[1992, mg/l N]: 6.24

--- AVERAGE ▲ Mean ○ Outlier



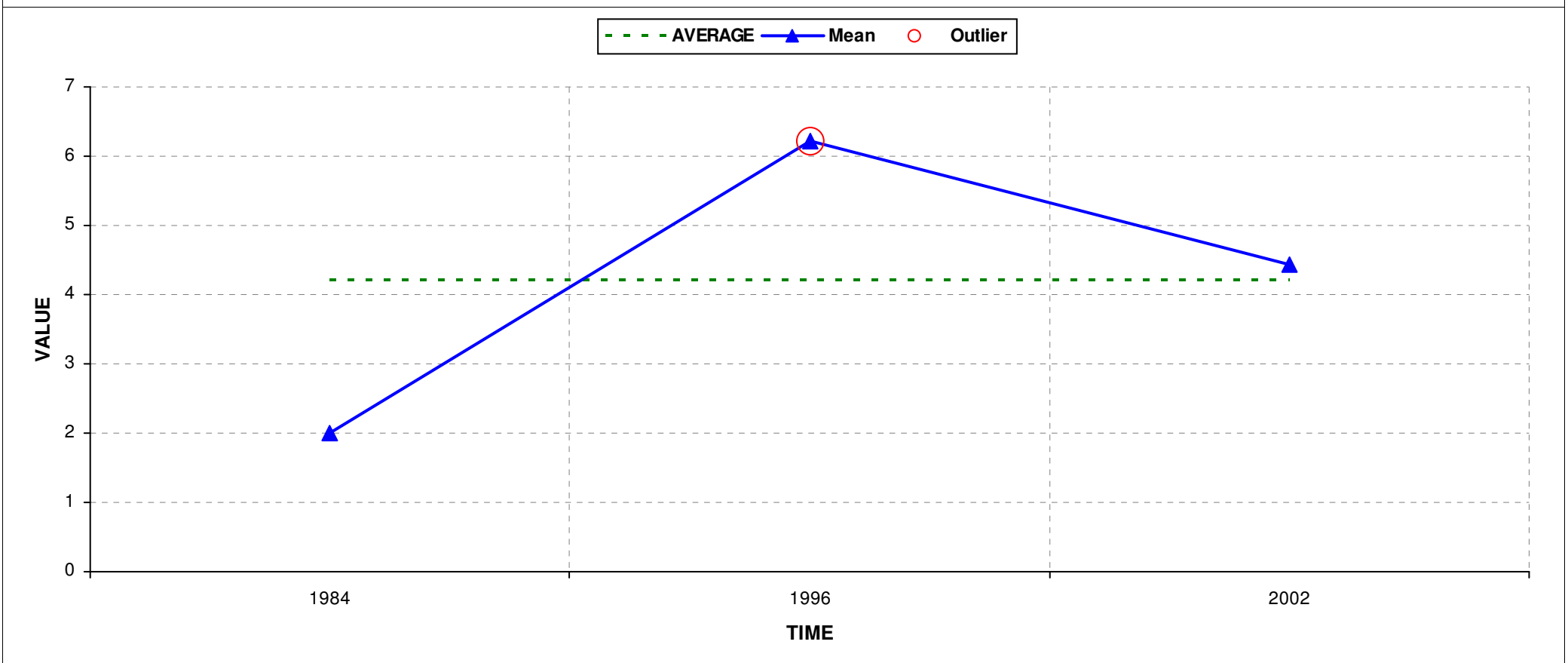
Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_42275
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[1993, mg/l N]: 8.4; [1994, mg/l N]: 7.3



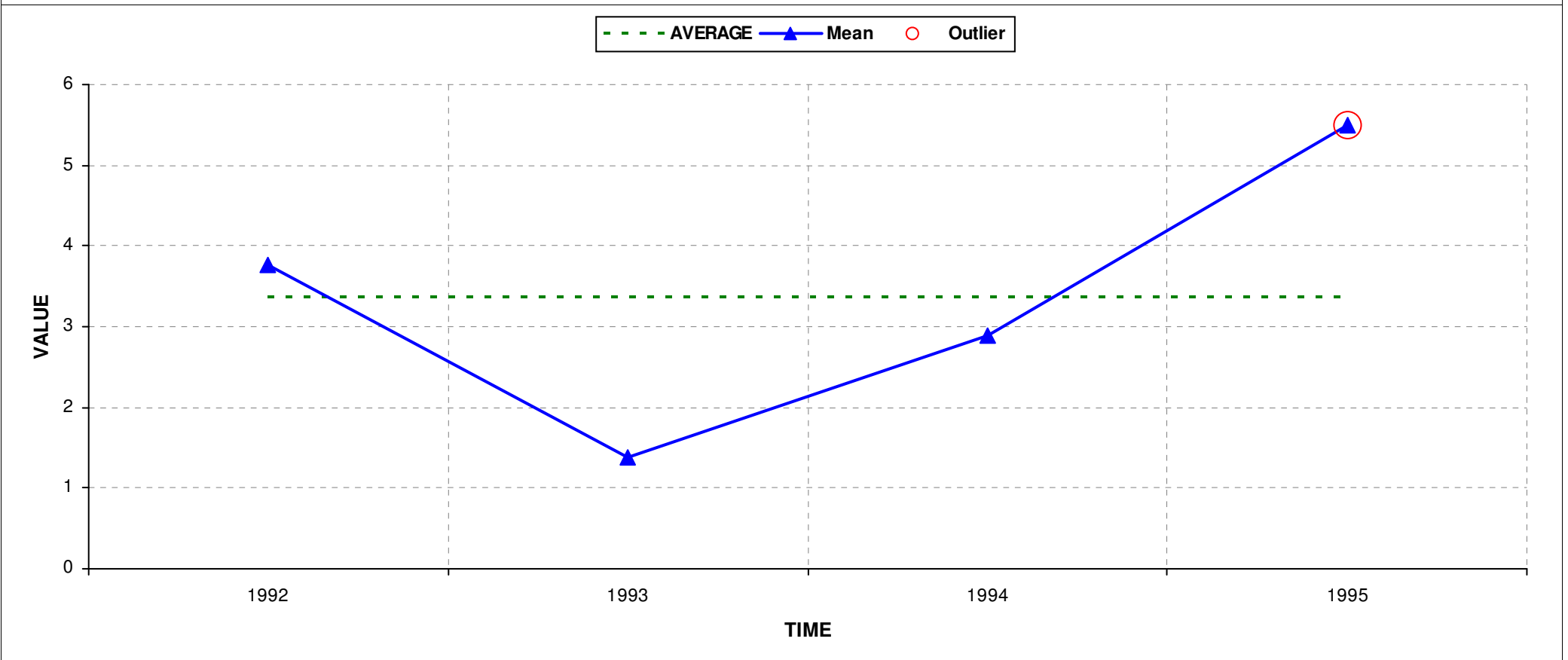
Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_42628
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[1996, mg/l N]: 6.225



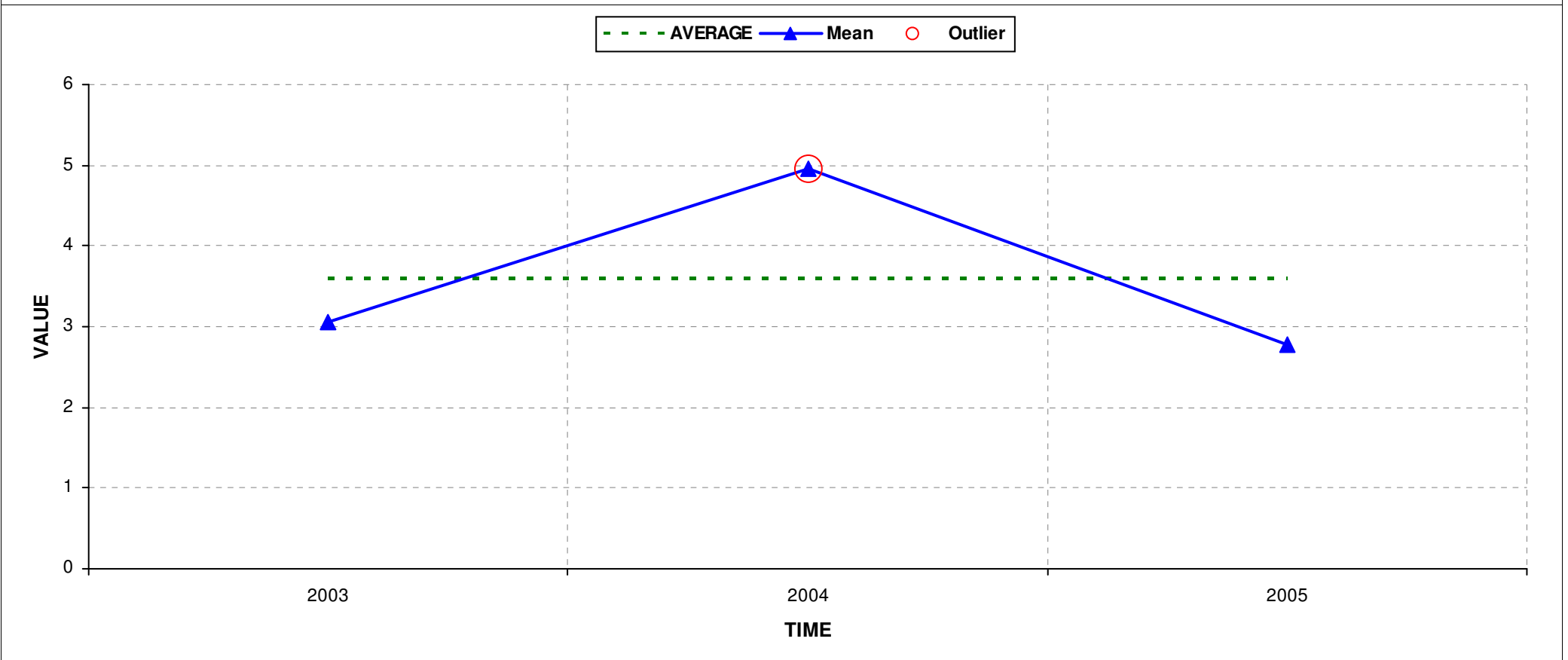
Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_42829
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[1995, mg/l N]: 5.5



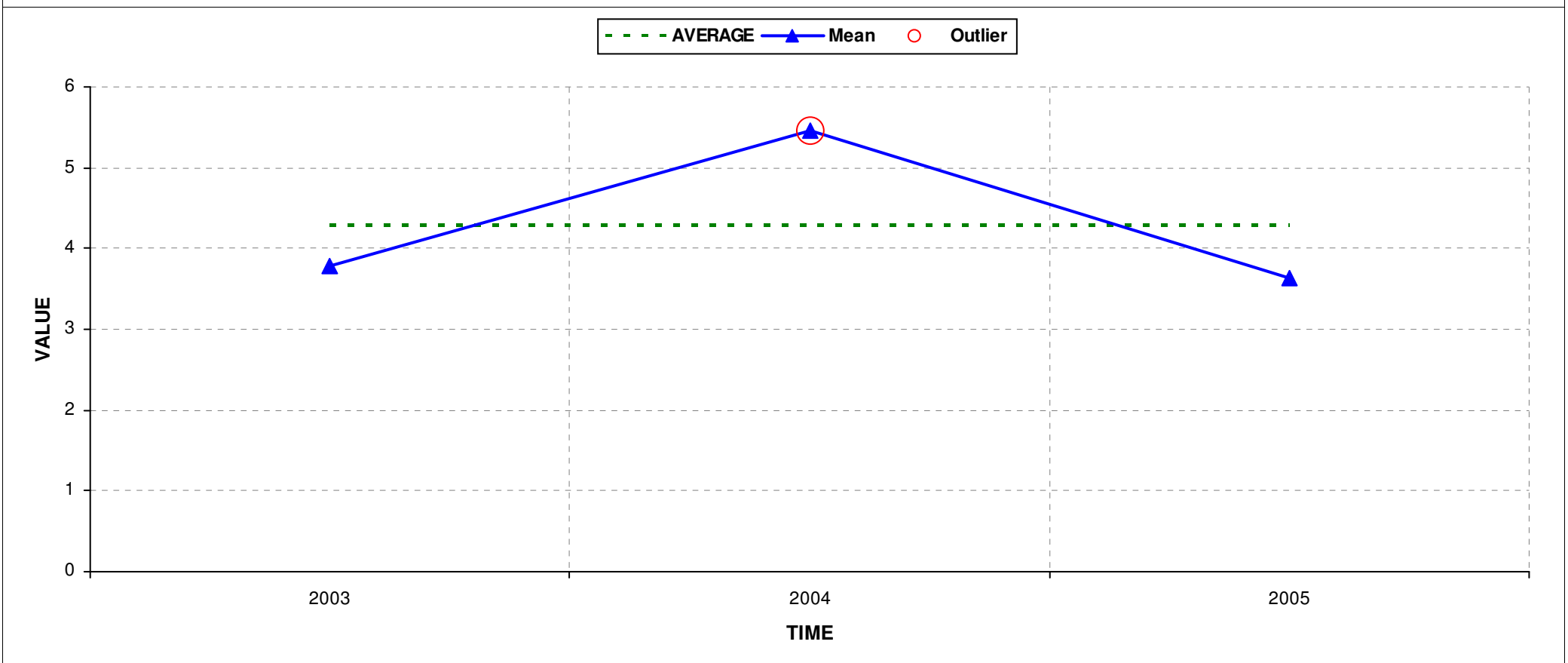
Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_HK086
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[2004, mg/l N]: 4.951667



Determinand:
Total Oxidised Nitrogen
WaterbaseID:
GB_LK_HK089
AggregationPeriod:
Annual

Outlier values ([Year, Unit]: Mean):
[2004, mg/l N]: 5.461667



Determinand:

Total Phosphorus

WaterbaseID:

GB_LK_5308

AggregationPeriod:

Annual

Outlier values ([Year, Unit]: Mean):

[1990, mg/l P]: 1.452; [1994, mg/l P]: 1.2517; [1995, mg/l P]: 1.5005

