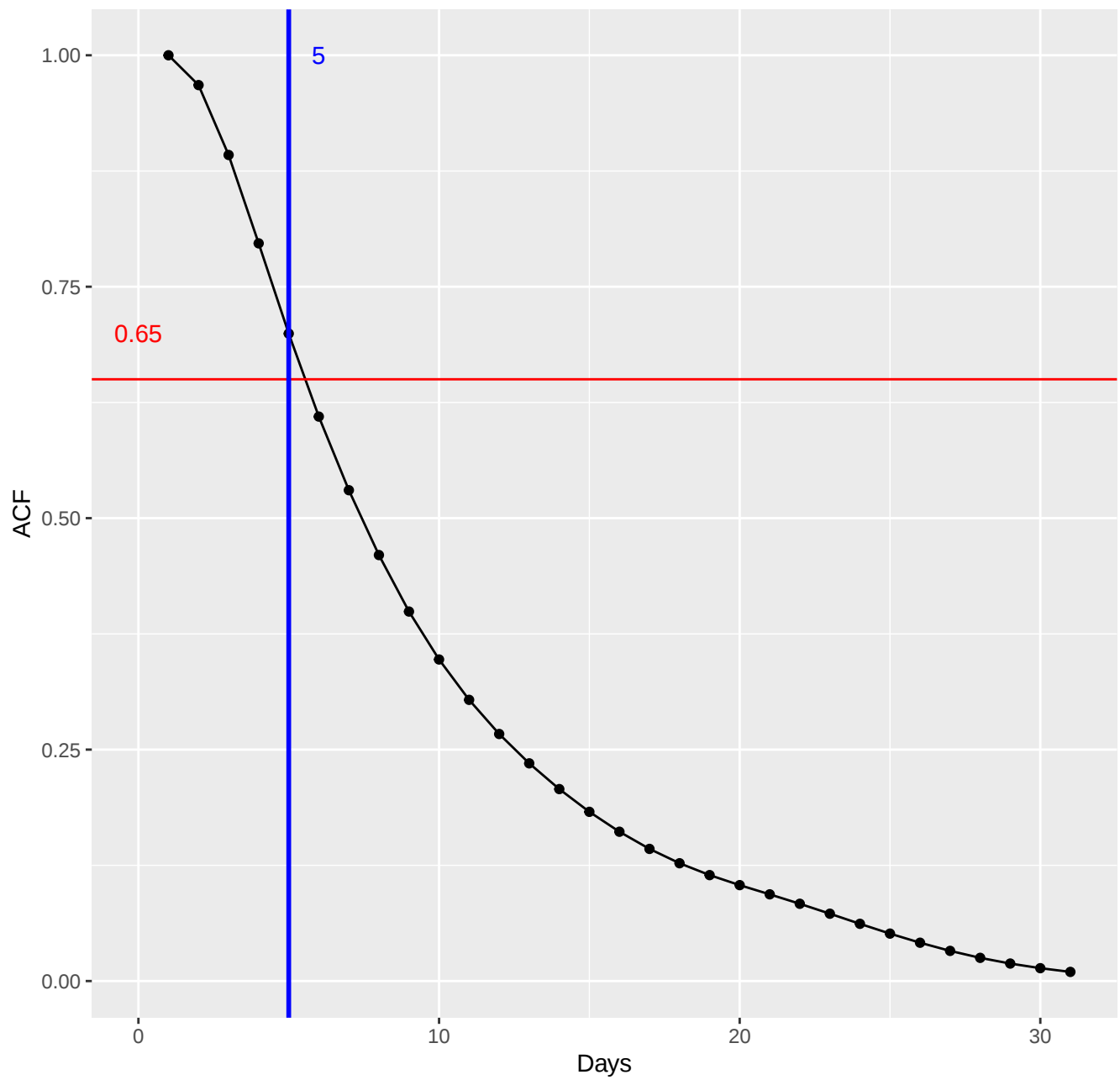
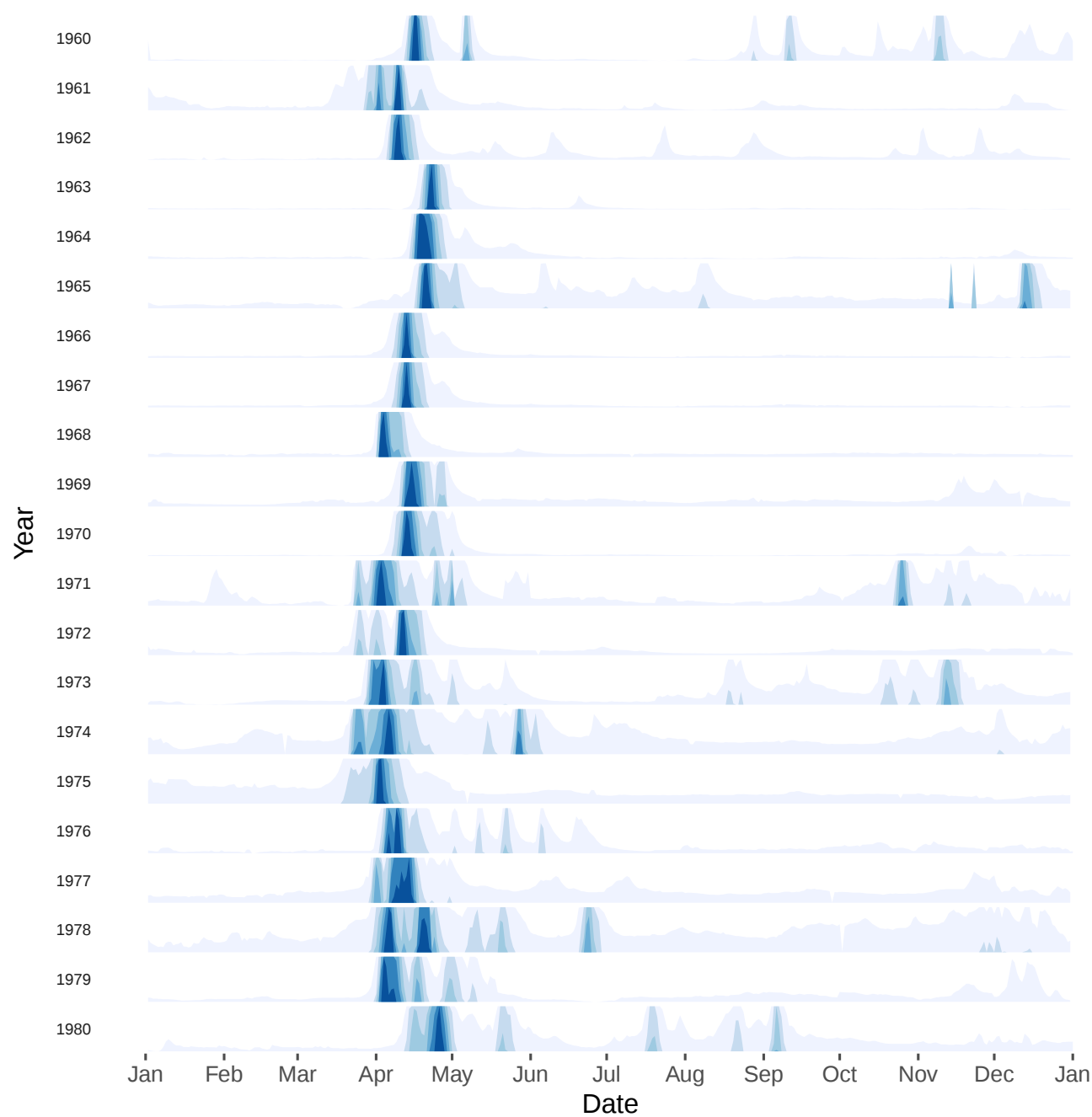
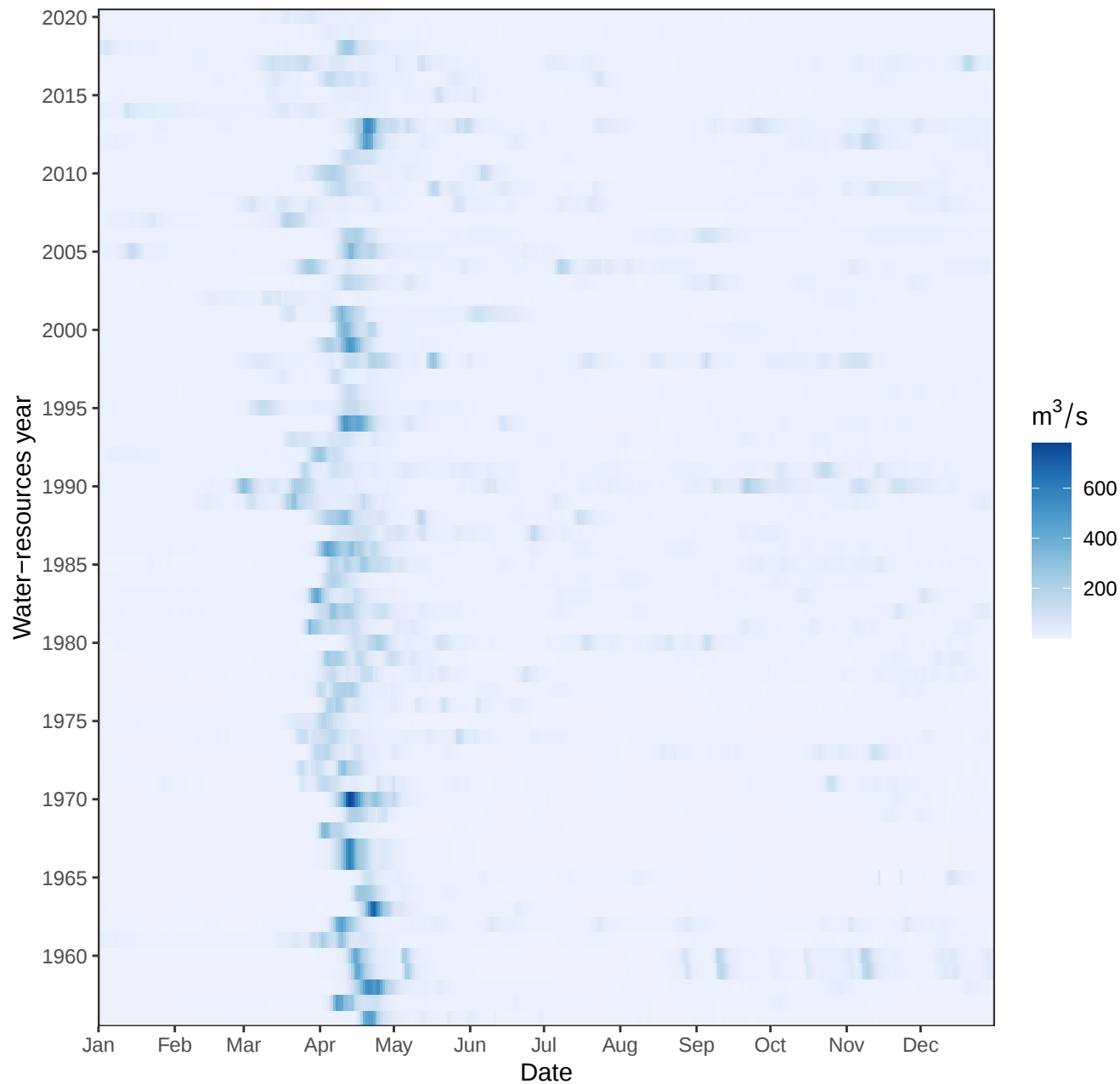


Autocorrelation function (ACF)

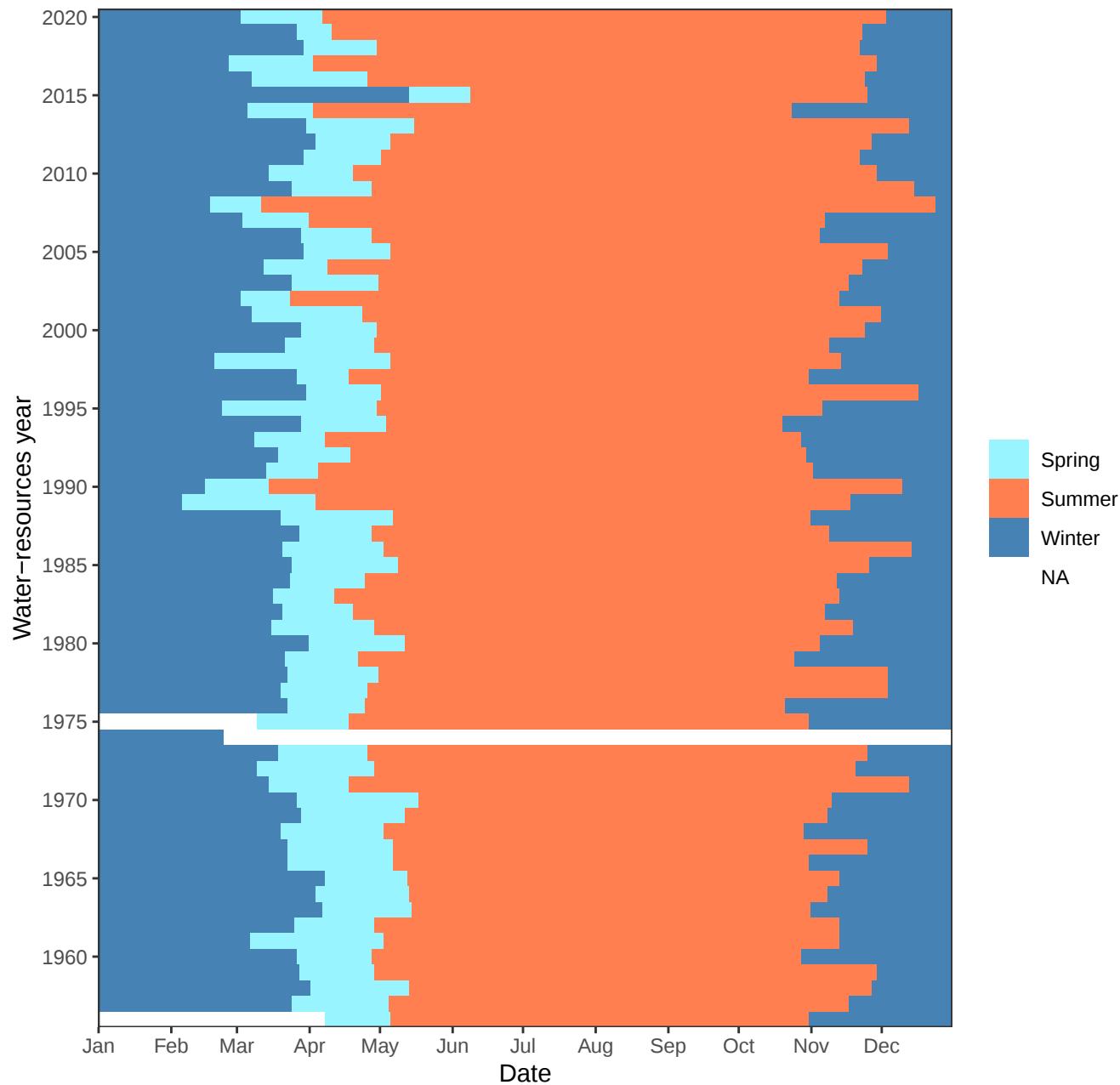




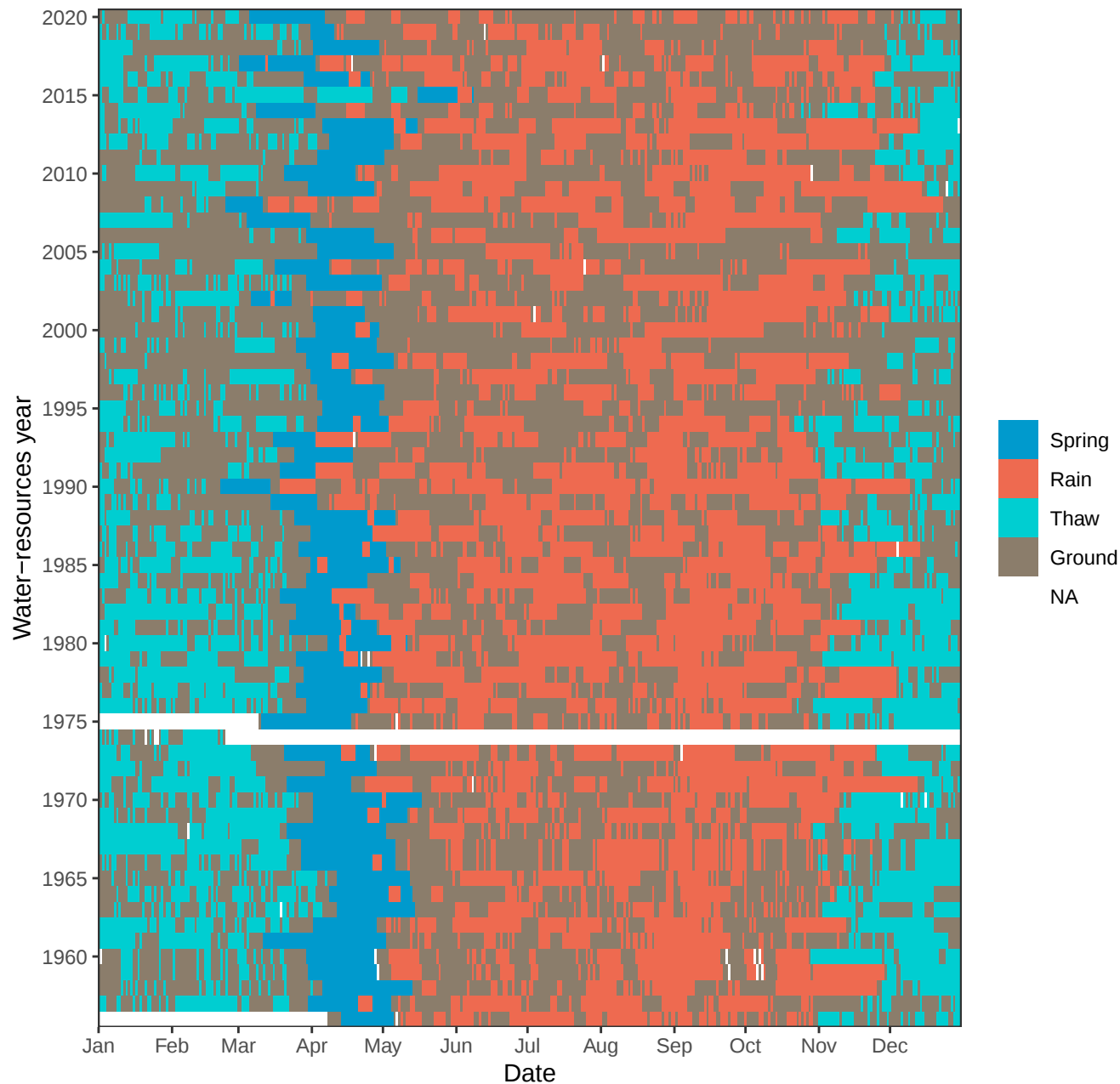
Runoff



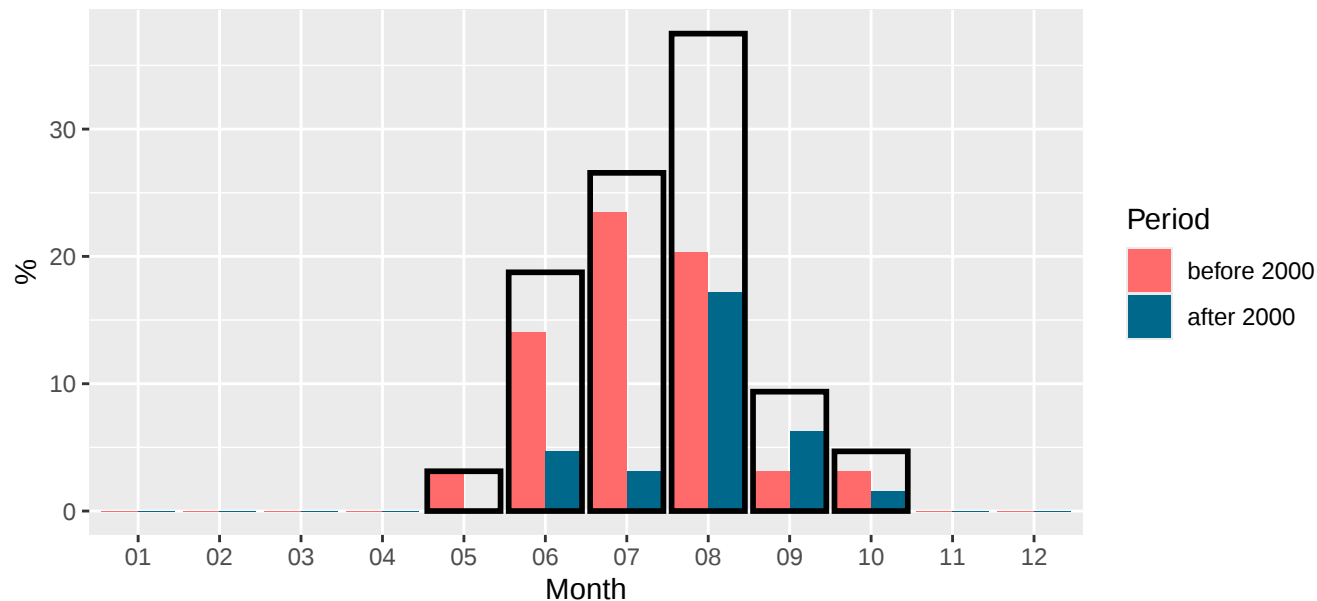
Season of runoff



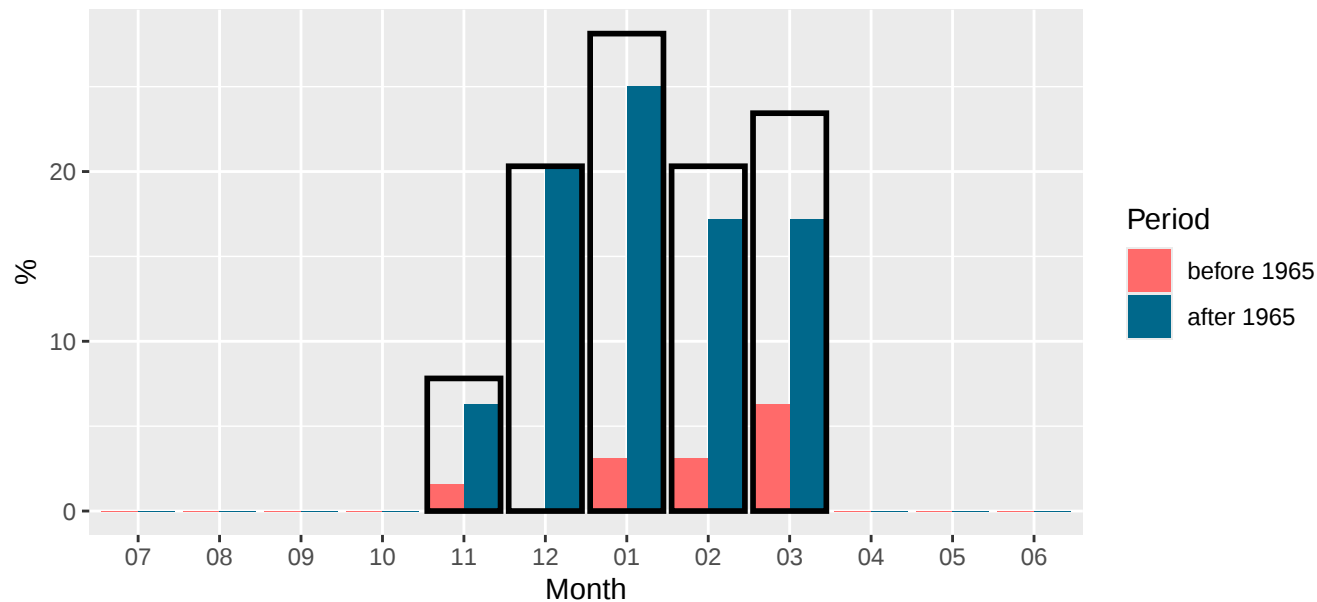
Component of runoff



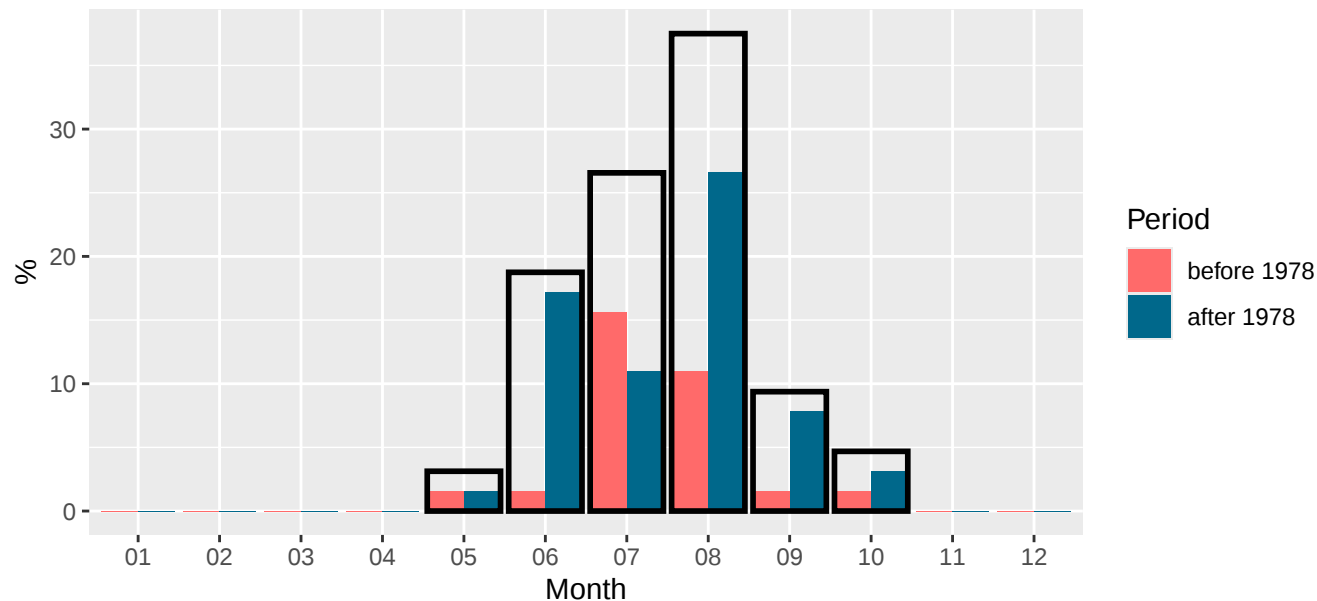
Month of a minimum monthly runoff during summer



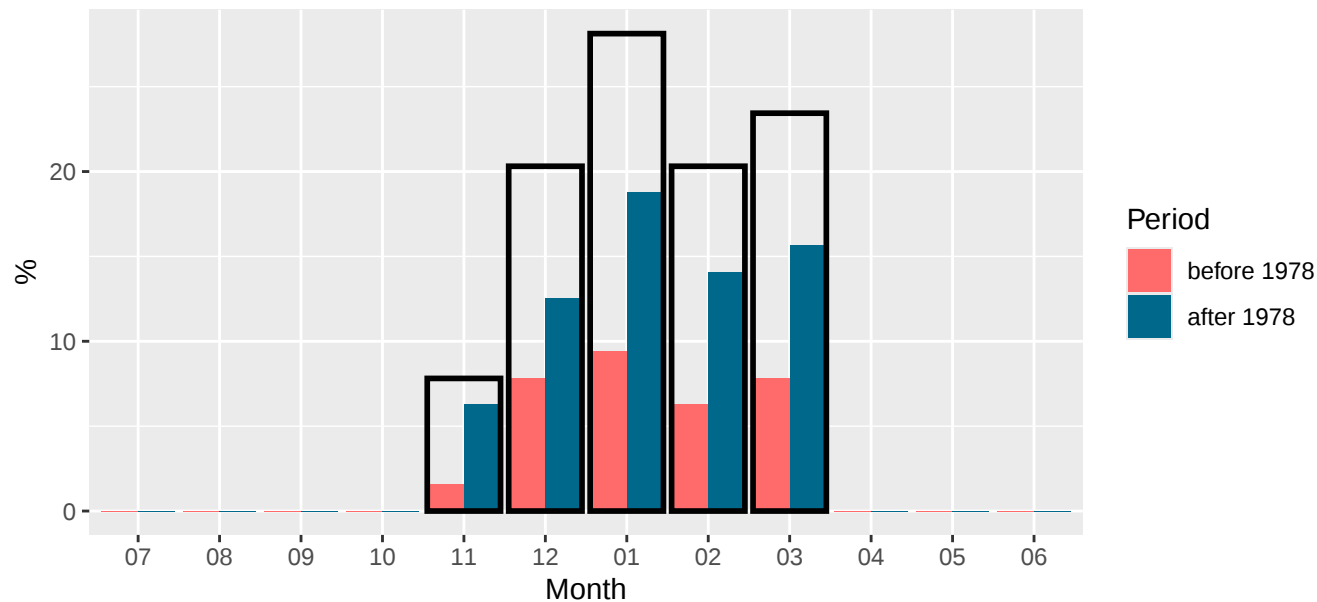
Month of a minimum monthly runoff during winter



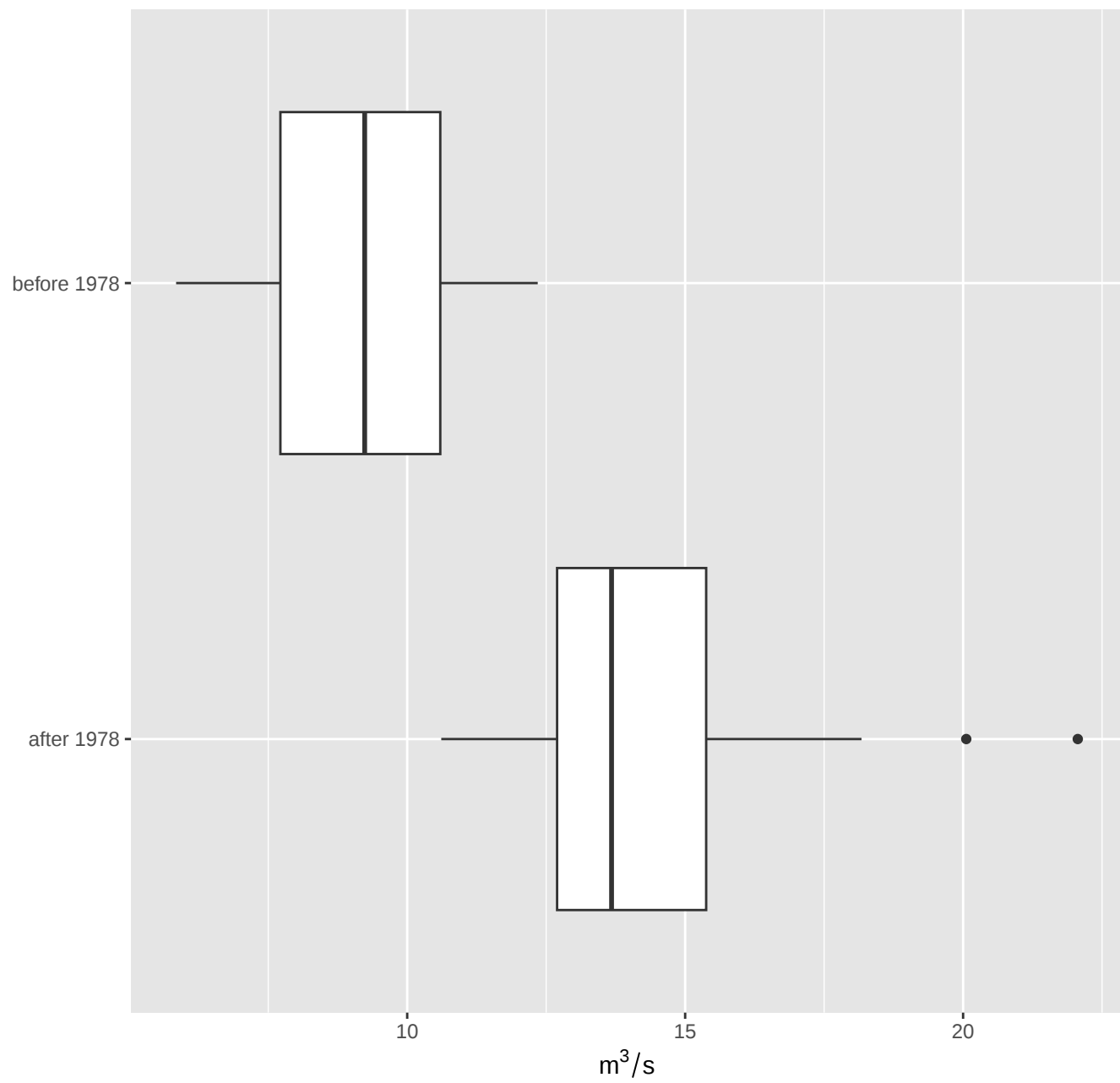
Month of a minimum monthly runoff during summer



Month of a minimum monthly runoff during winter



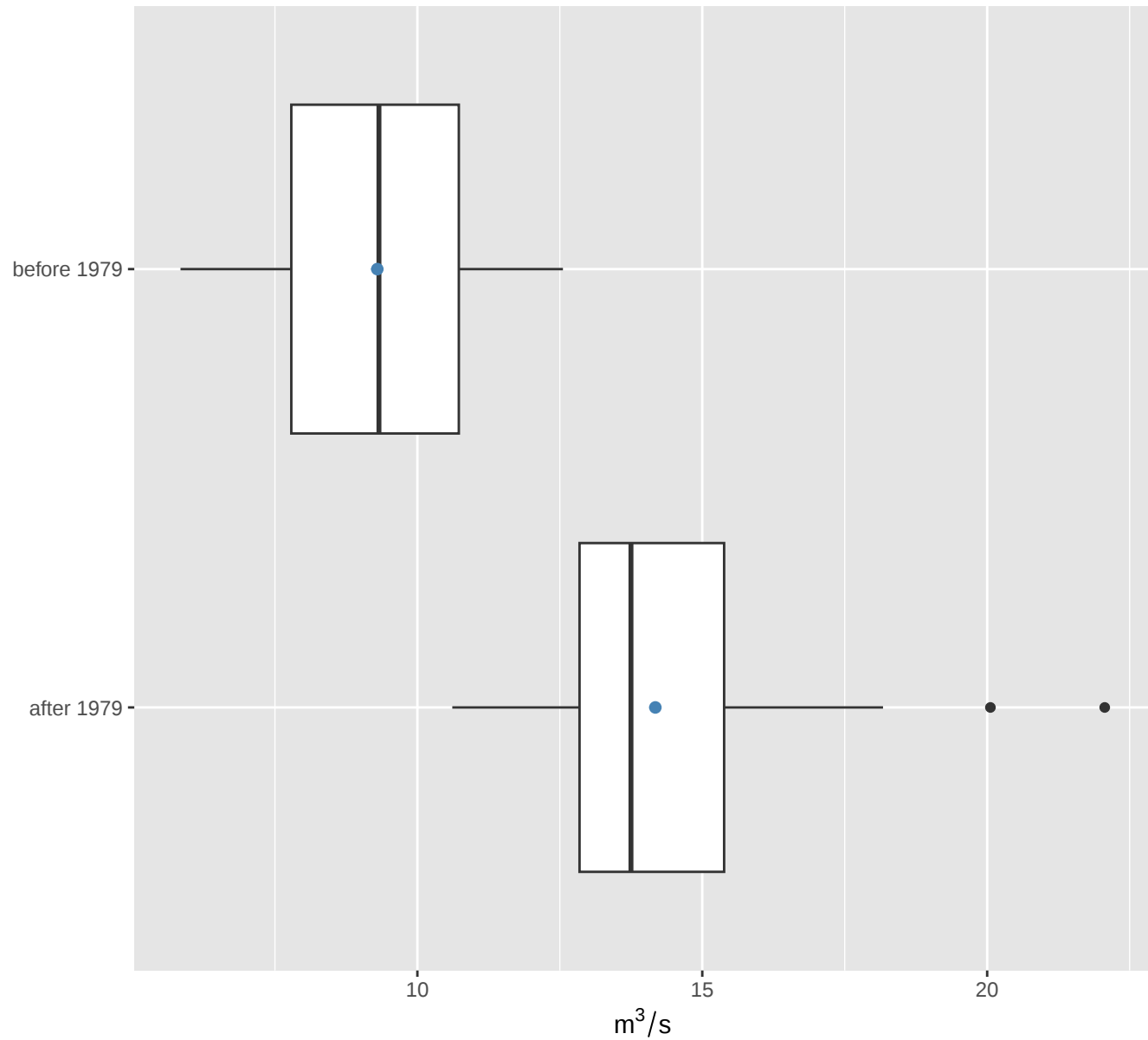
Mean annual groundwater ("baseflow") runoff



Mean annual groundwater ("baseflow") runoff

Student: $t = -8.758$, $p = 0$, $m1 = 9.297$, $m2 = 14.176$

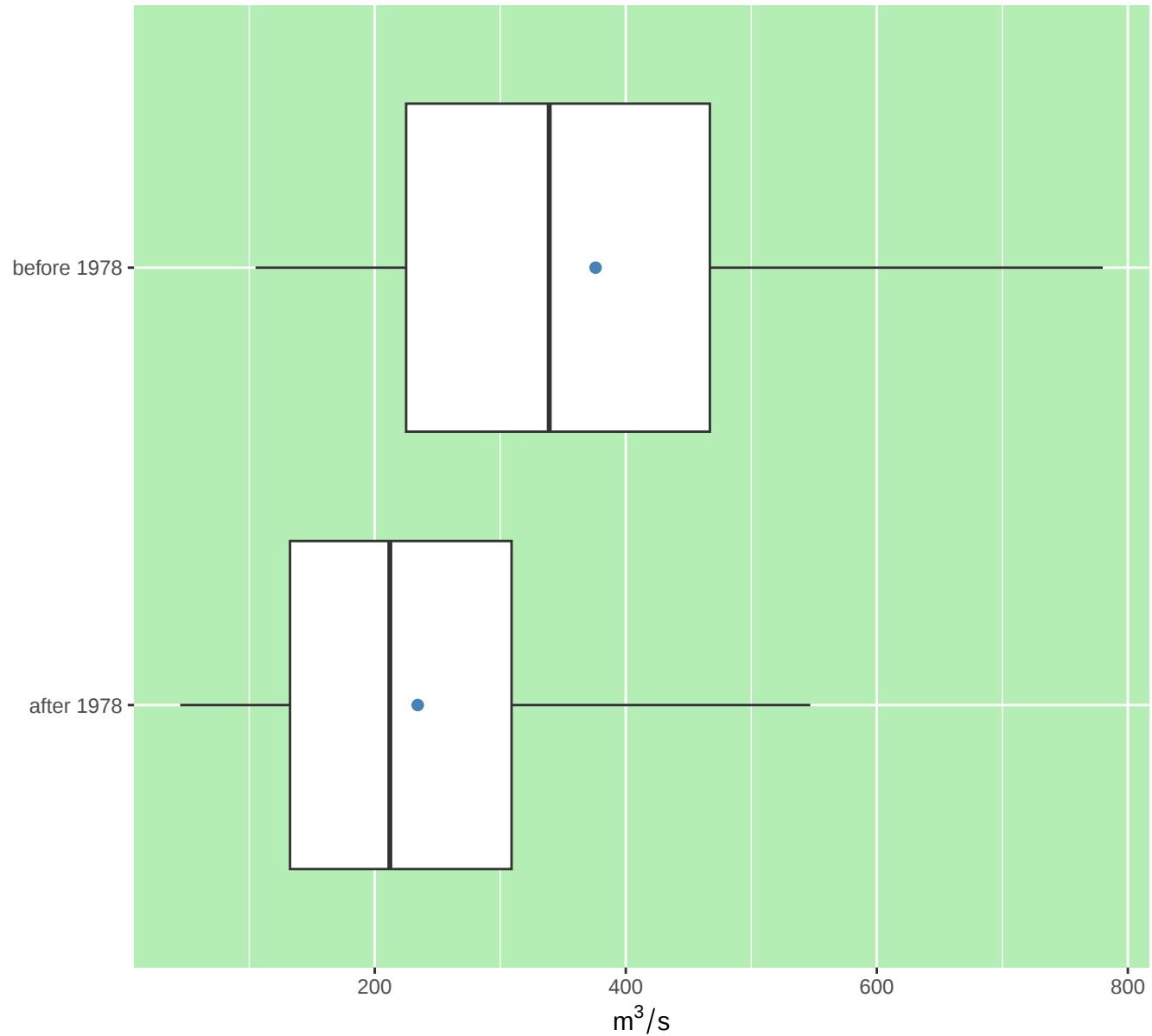
Fisher: $F = 0.569$, $p = 0.16729$, $cv1 = 0.203$, $cv2 = 0.176$



Maximum spring flood runoff

Student: $t = -1.915$, $p = 0.06126$, $m1 = 375.952$, $m2 = 234.267$

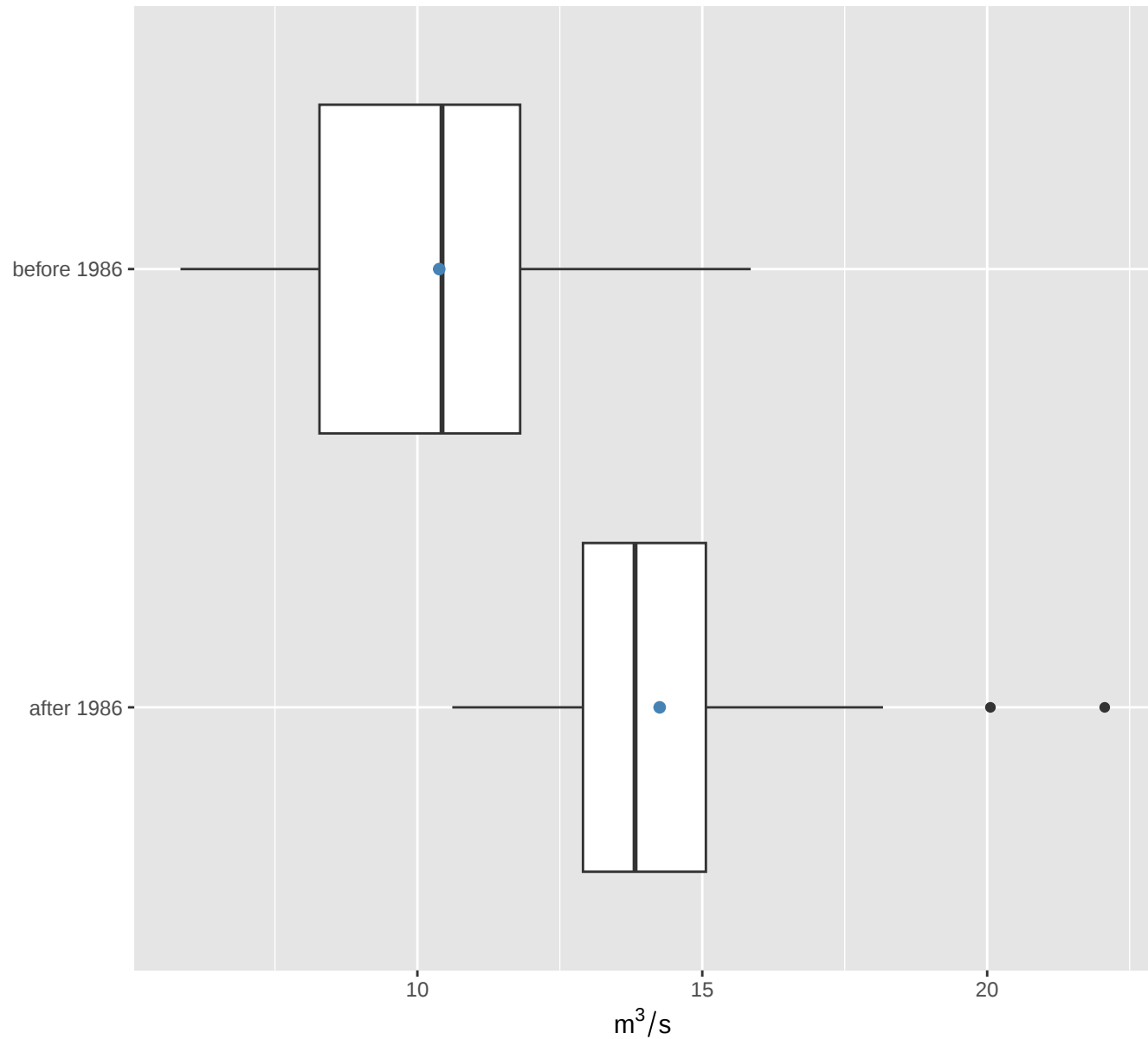
Fisher: $F = 0.615$, $p = 0.24175$, $cv1 = 0.505$, $cv2 = 0.563$



Mean annual groundwater ("baseflow") runoff

Student: $t = 2.686$, $p = 0.00946$, $m1 = 10.383$, $m2 = 14.252$

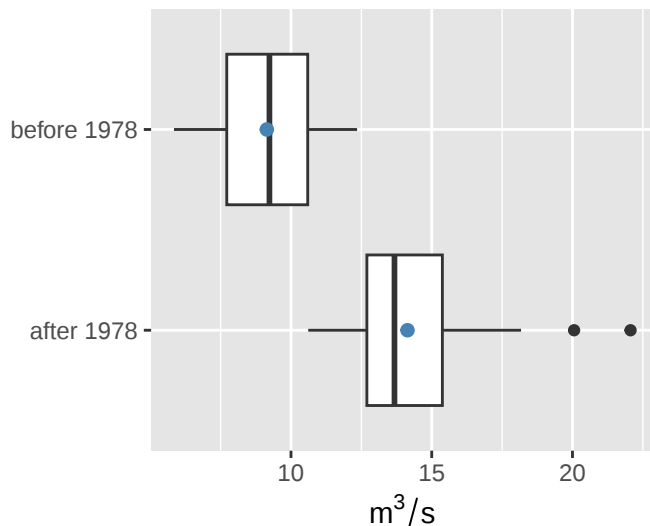
Fisher: $F = 1.247$, $p = 0.5351$, $cv1 = 0.259$, $cv2 = 0.184$



Mean annual groundwater ("baseflow")

Student: $t = -1.915$, $p = 0.06126$, $m1 = 9.5$

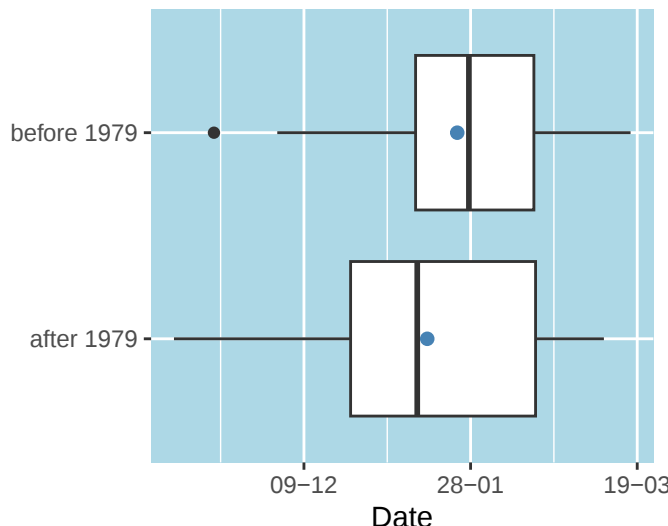
Fisher: $F = 0.615$, $p = 0.24175$, $cv1 = 0$



First date of minimum 10-day average

Student: $t = -8.19$, $p = 0$, $m1 = 24\text{-Jan}$

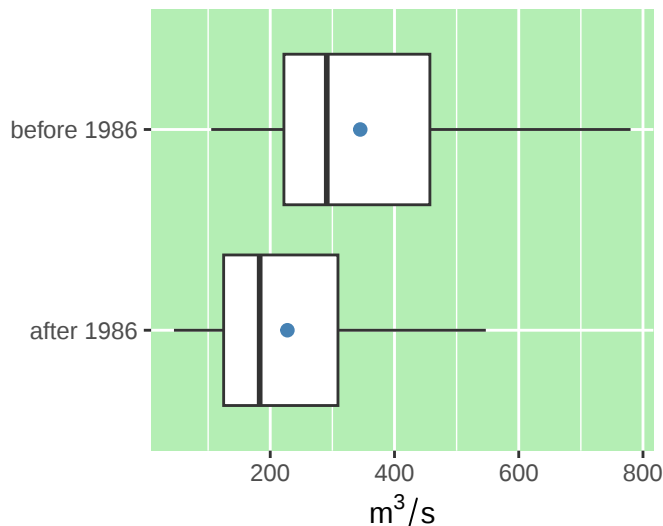
Fisher: $F = 0.401$, $p = 0.02753$, $cv1 = 0$



Maximum spring flood runoff

Student: $t = 2.686$, $p = 0.00946$, $m1 = 340$

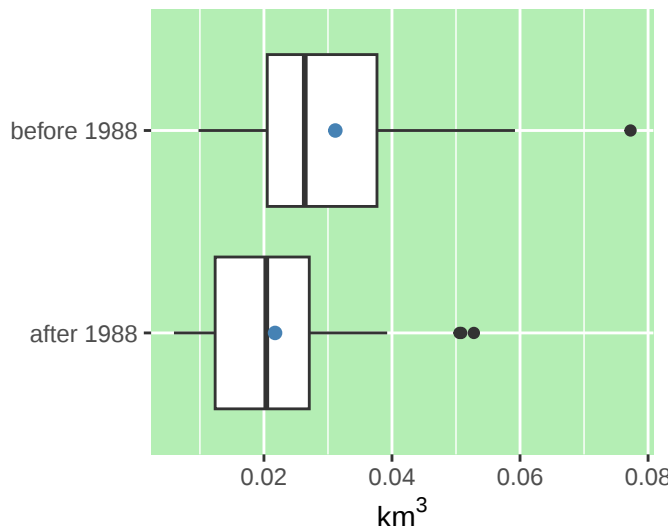
Fisher: $F = 1.247$, $p = 0.5351$, $cv1 = 0.5$



Spring flood runoff volume (with groundwater)

Student: $t = 2.753$, $p = 0.00785$, $m1 = 0.025$

Fisher: $F = 1.419$, $p = 0.33267$, $cv1 = 0$



Year

2012

2001

1989

1965

1960

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

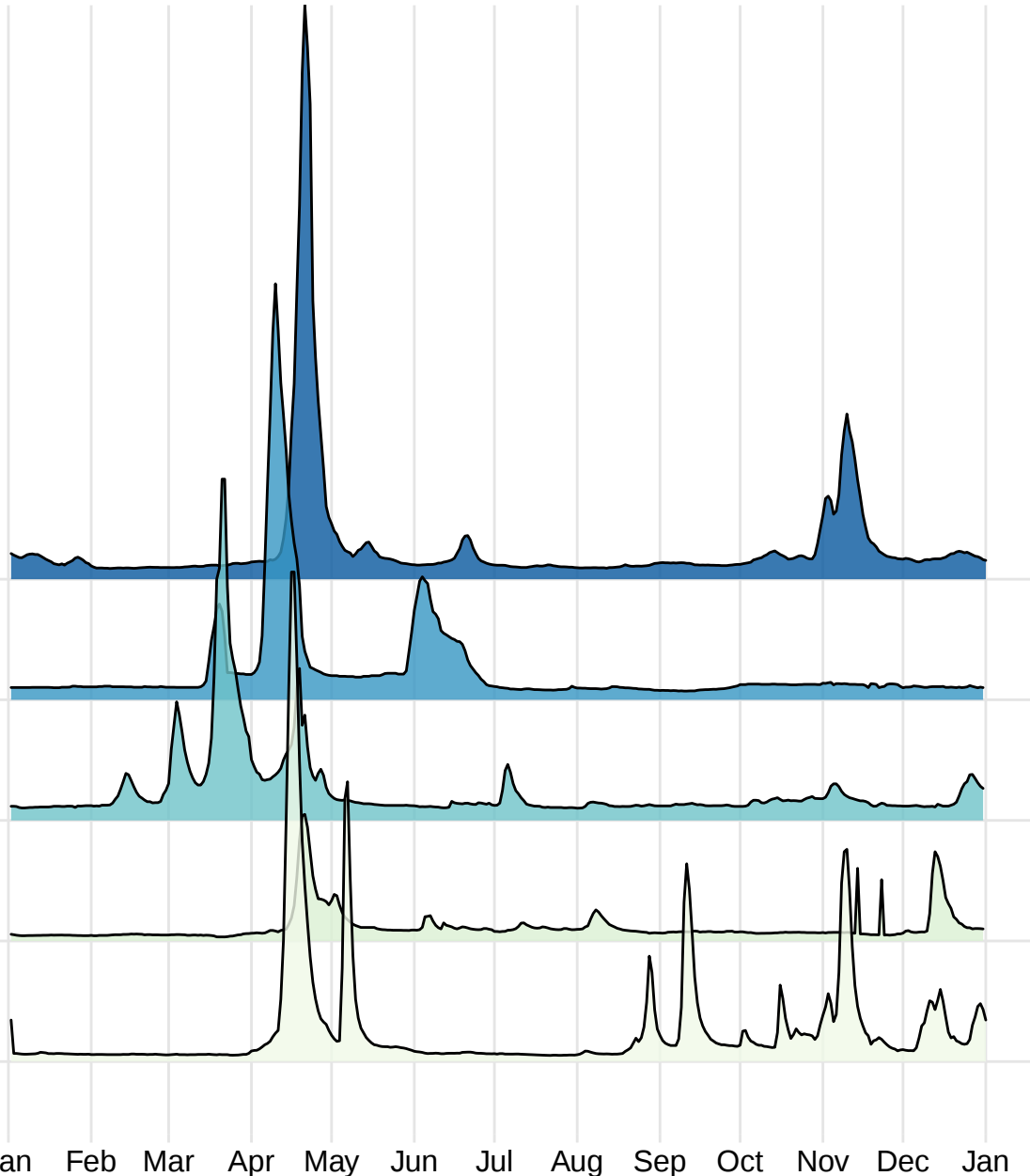
Oct

Nov

Dec

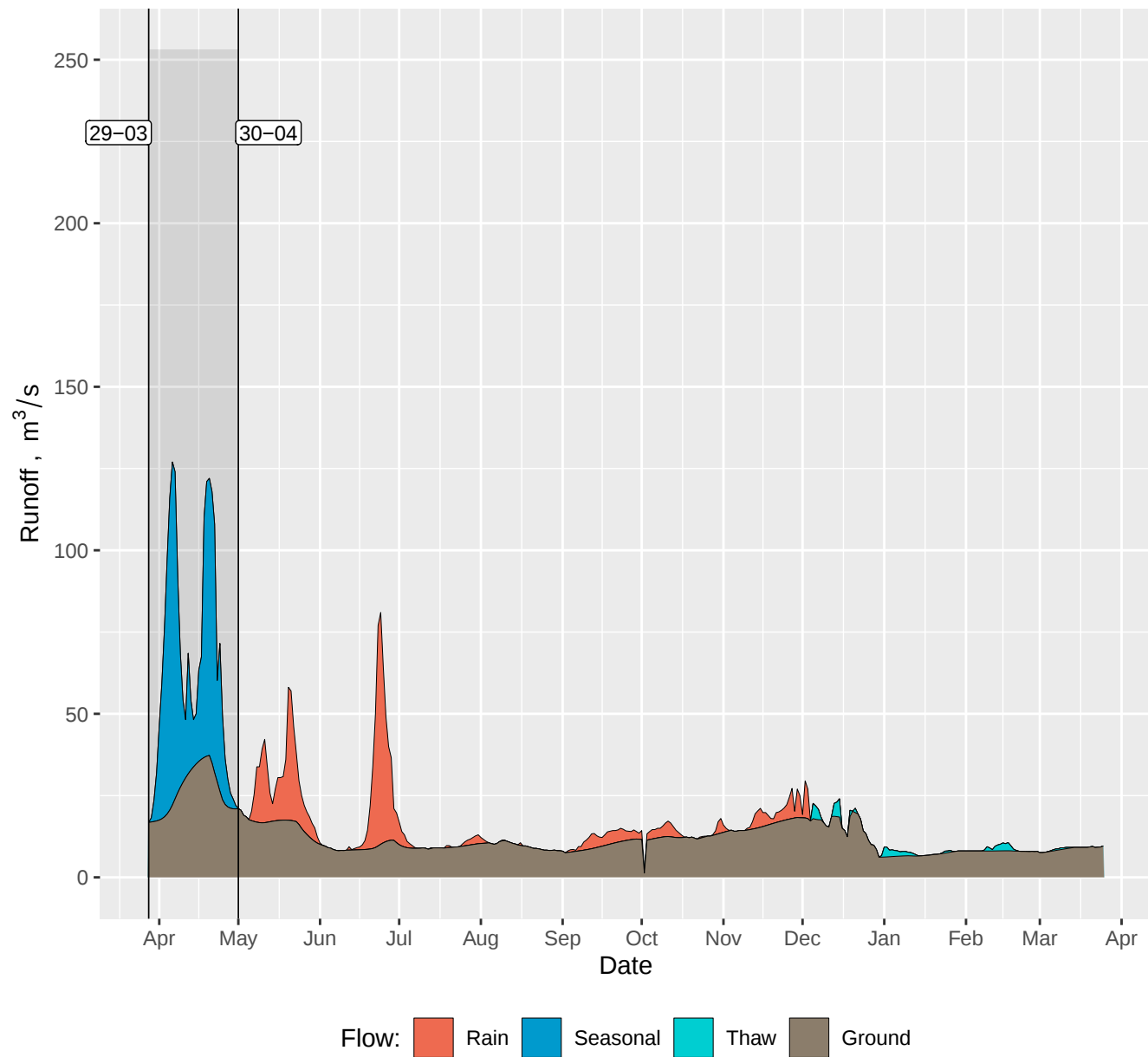
Jan

Date



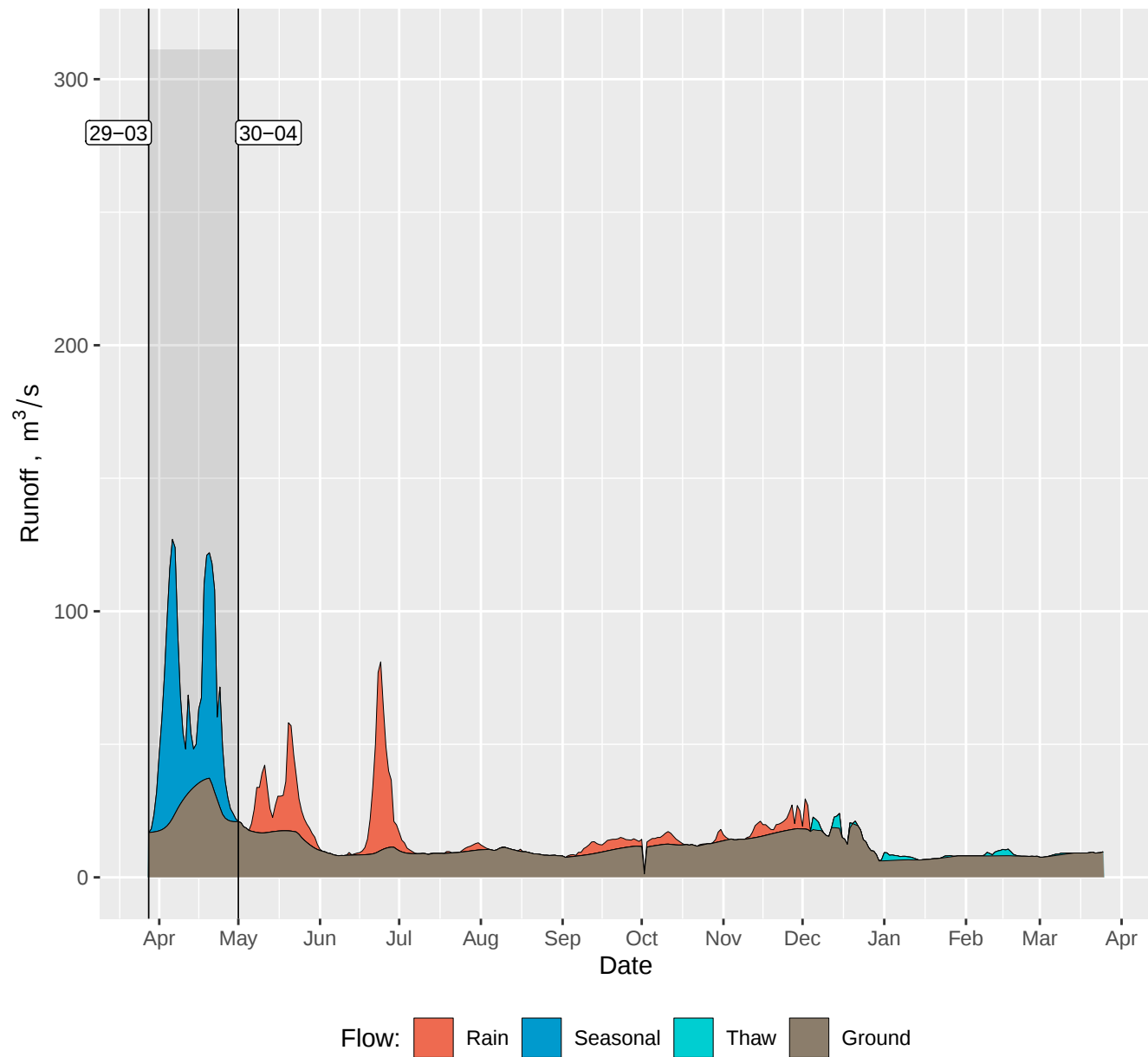
1978

1978-03-29 - 1979-03-25



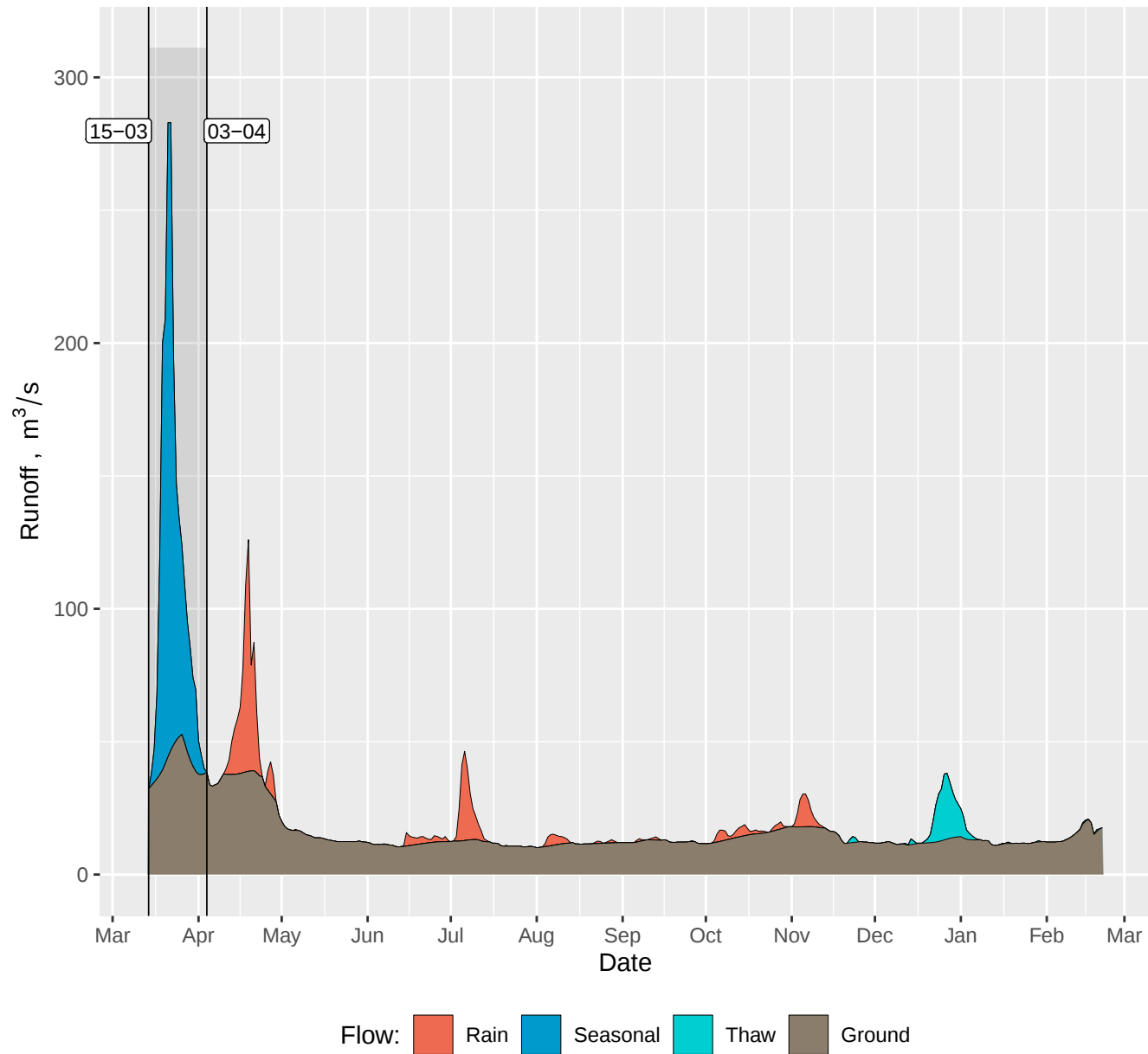
1978

1978-03-29 - 1979-03-25



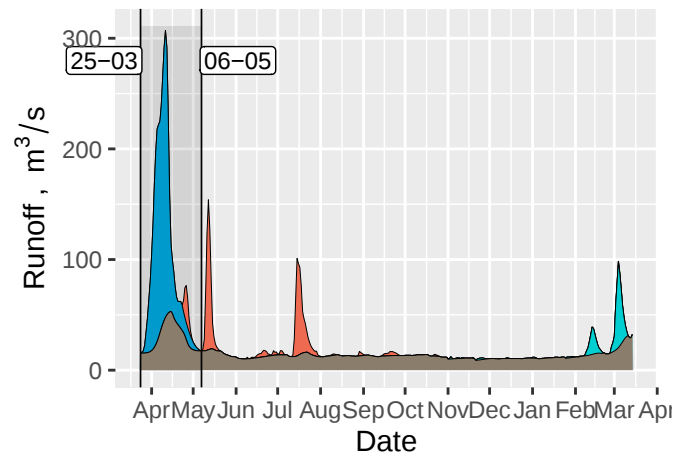
1989

1989-03-15 – 1990-02-21

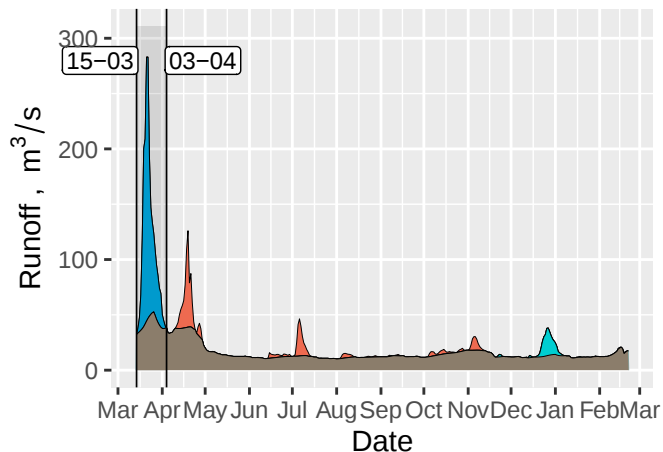


1988

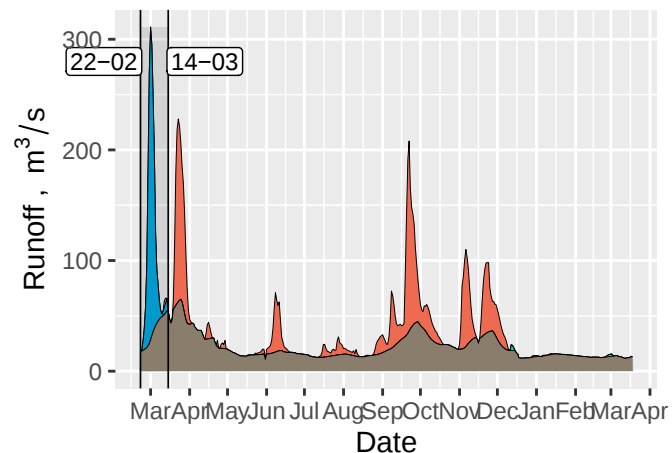
1988-03-25 - 1989-03-14

**1989**

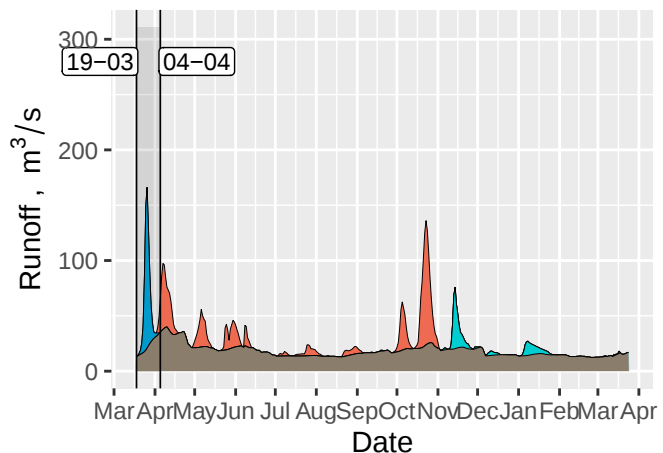
1989-03-15 - 1990-02-21

**1990**

1990-02-22 - 1991-03-18

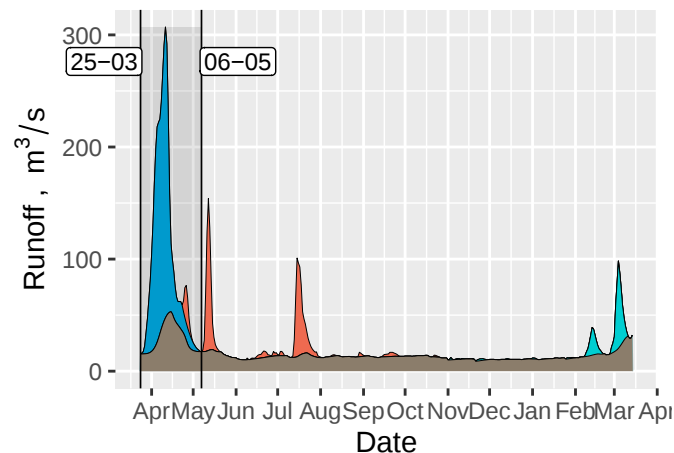
**1991**

1991-03-19 - 1992-03-24

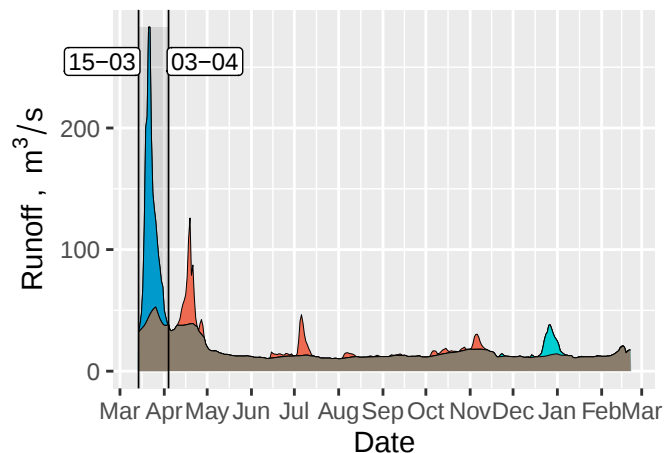


1988

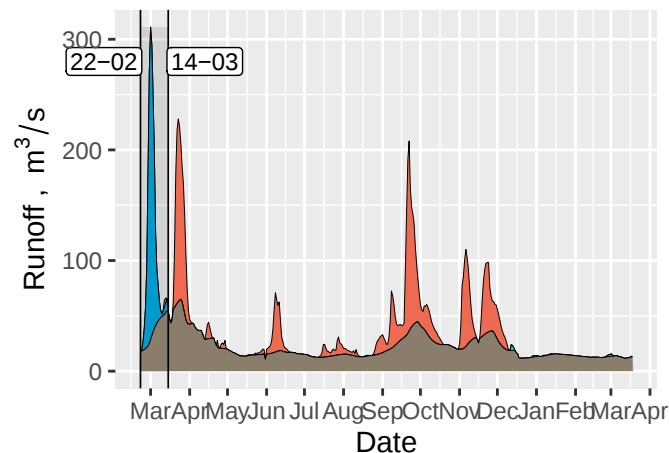
1988-03-25 - 1989-03-14

**1989**

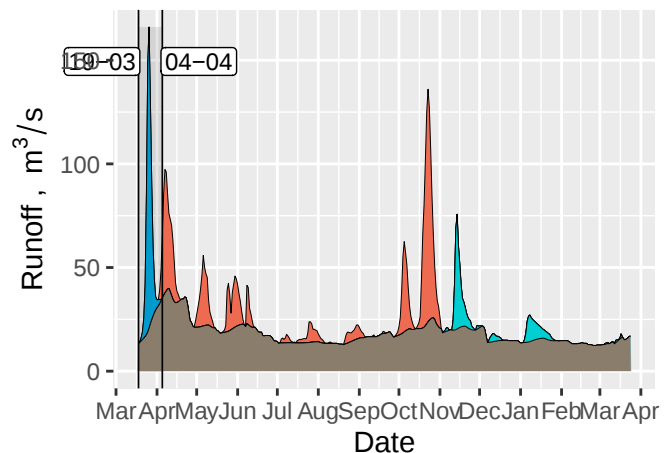
1989-03-15 - 1990-02-21

**1990**

1990-02-22 - 1991-03-18

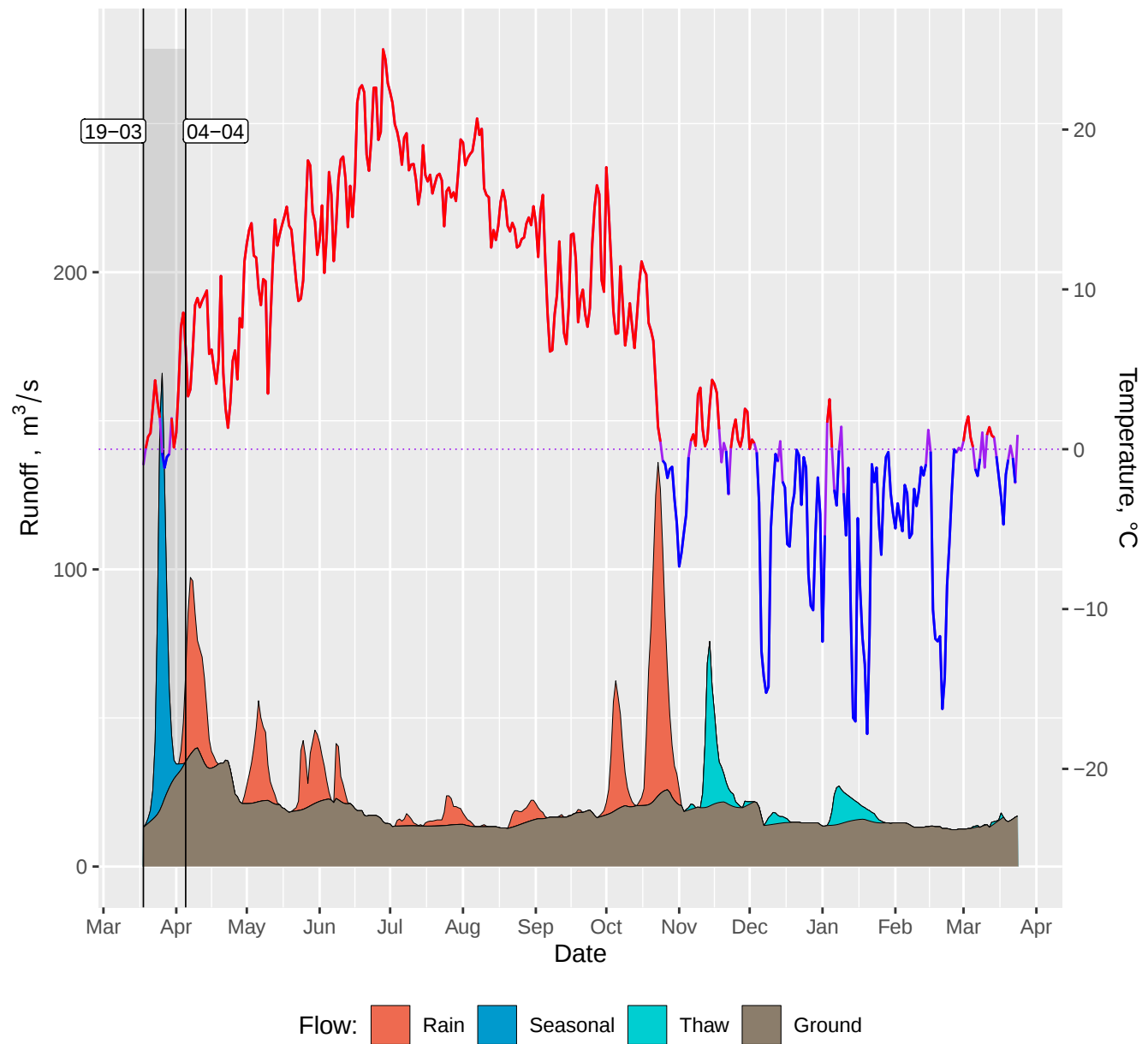
**1991**

1991-03-19 - 1992-03-24



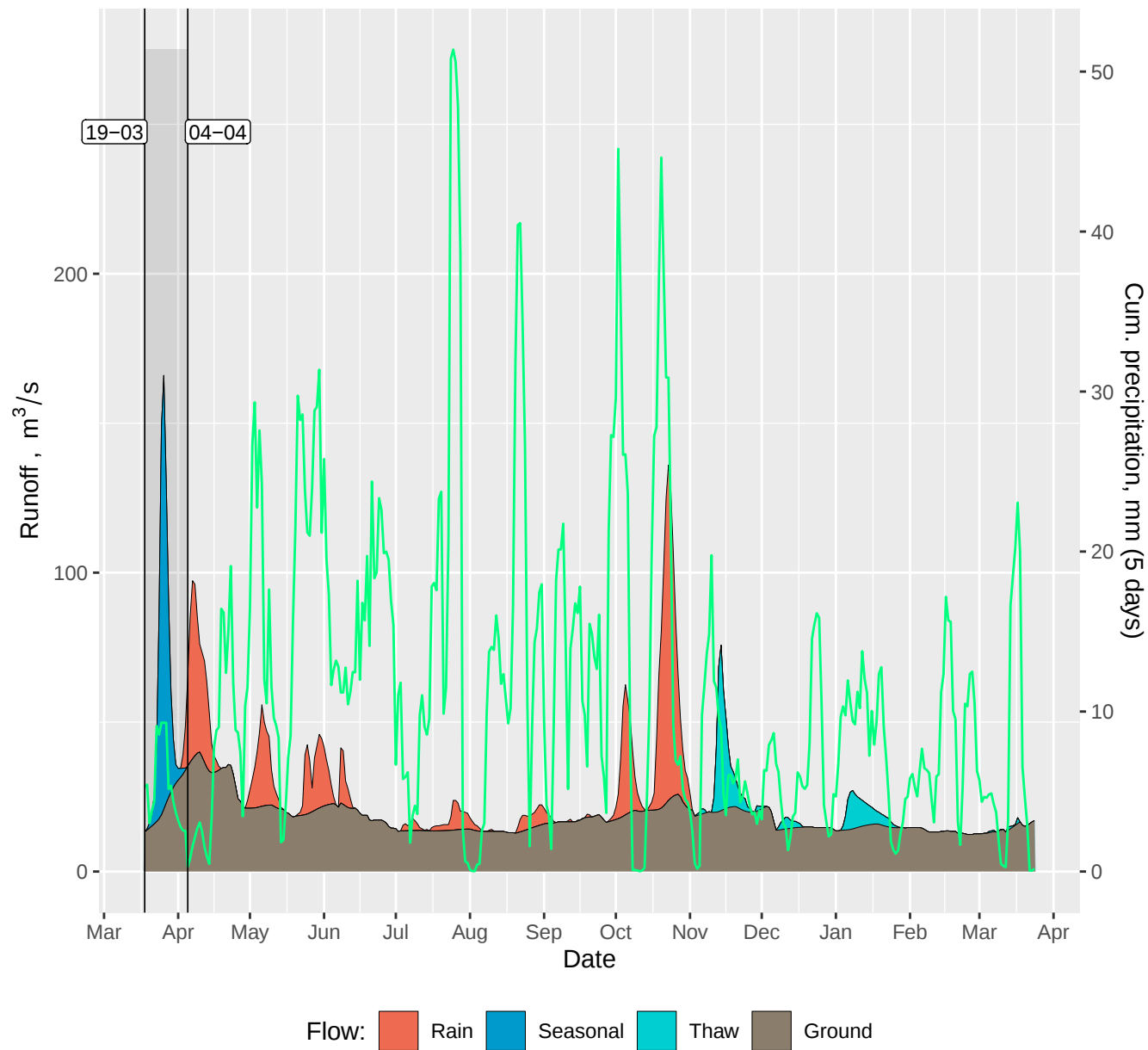
1991

1991-03-19 - 1992-03-24



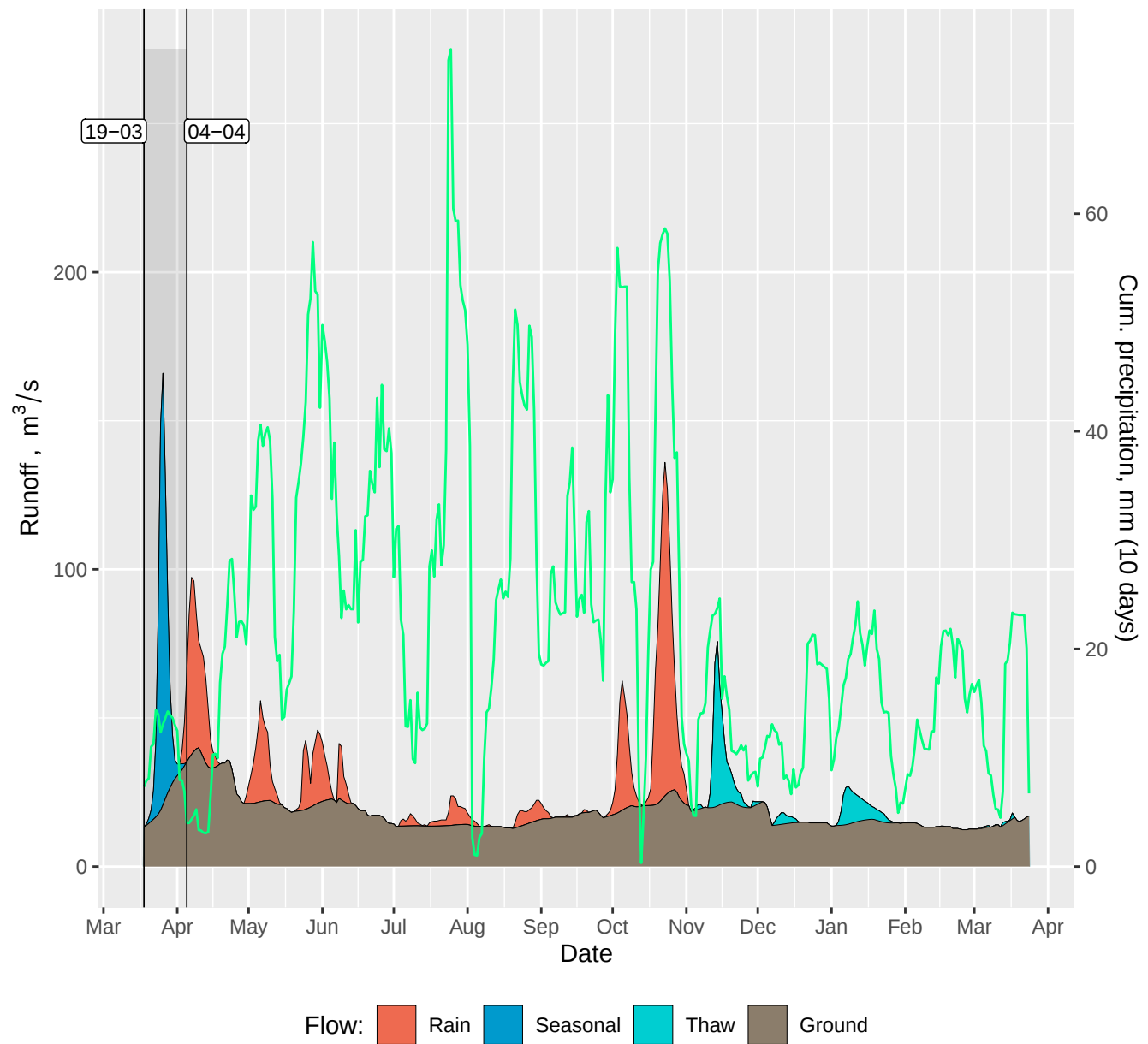
1991

1991-03-19 - 1992-03-24



1991

1991-03-19 - 1992-03-24

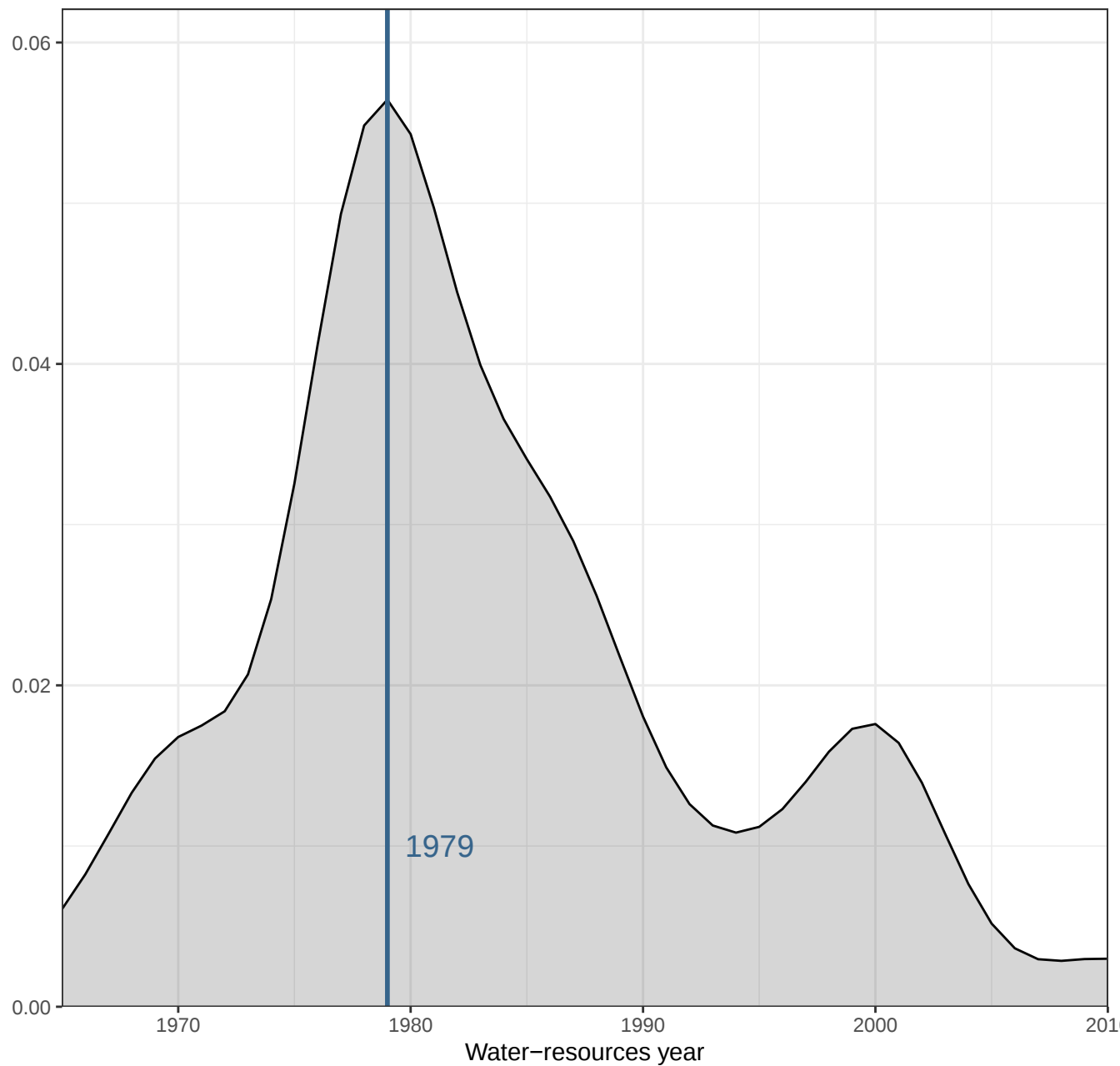


1991

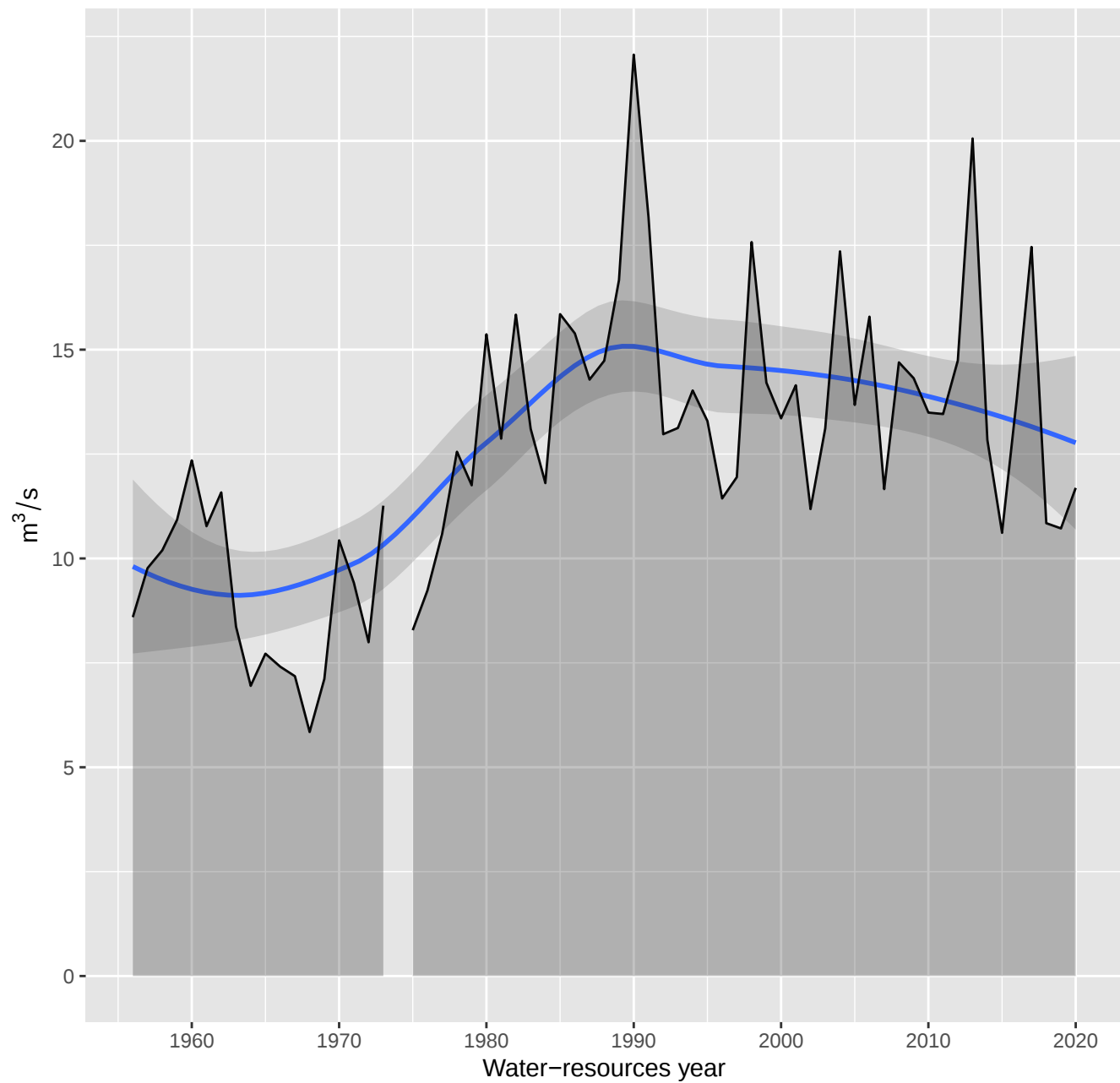
1991-03-19 - 1992-03-24



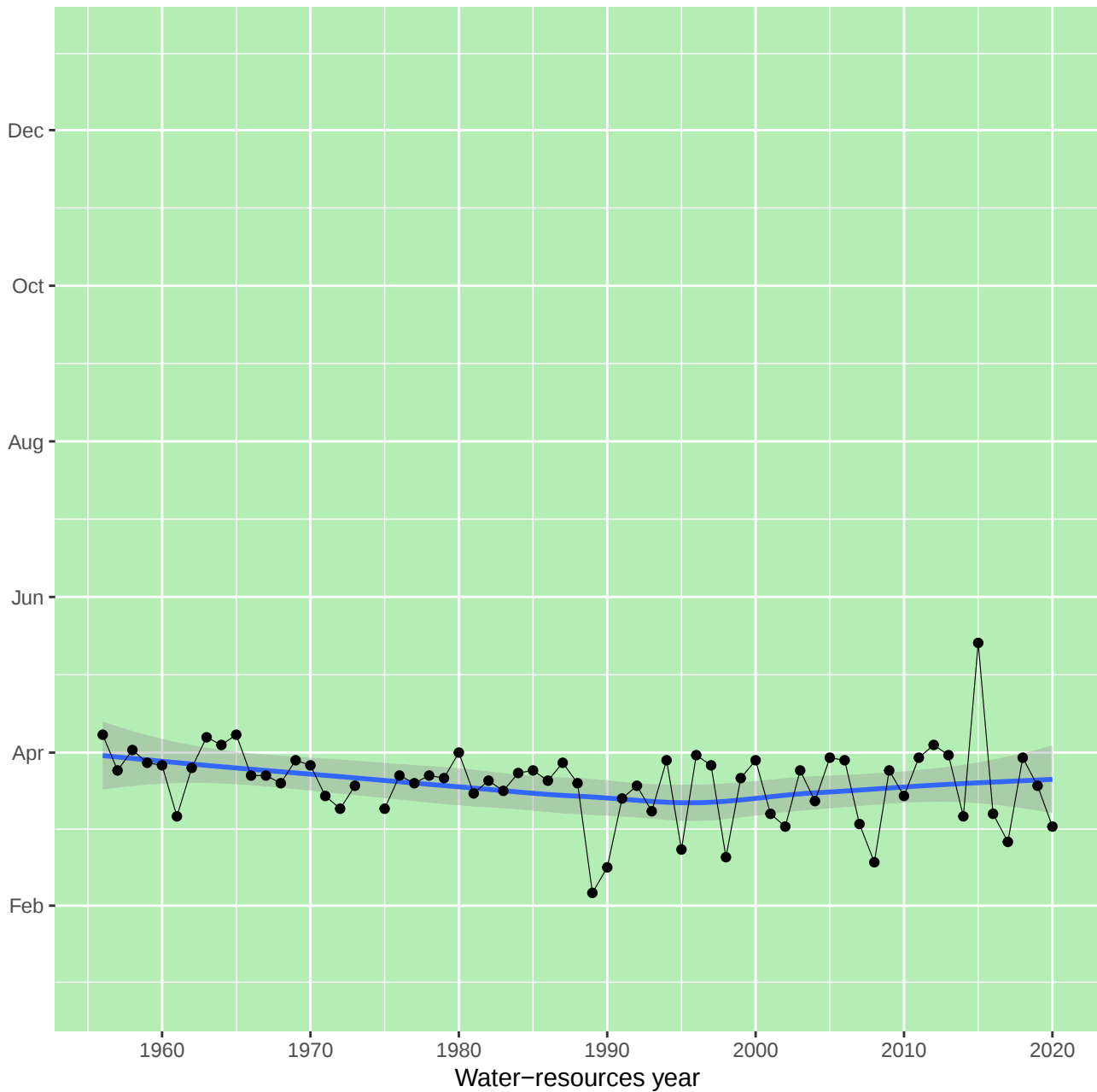
Change year distribution density



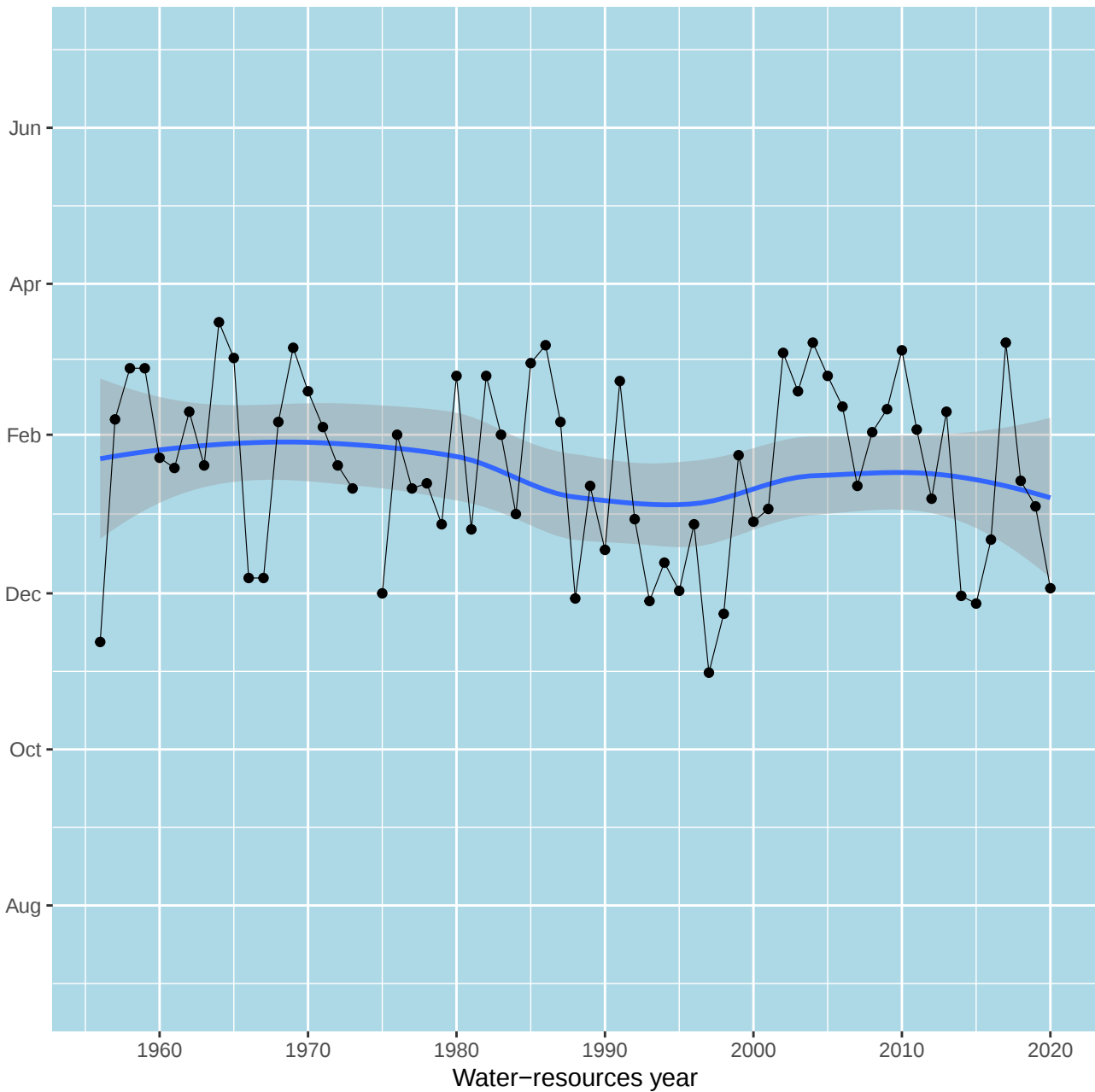
Mean annual groundwater ("baseflow") runoff



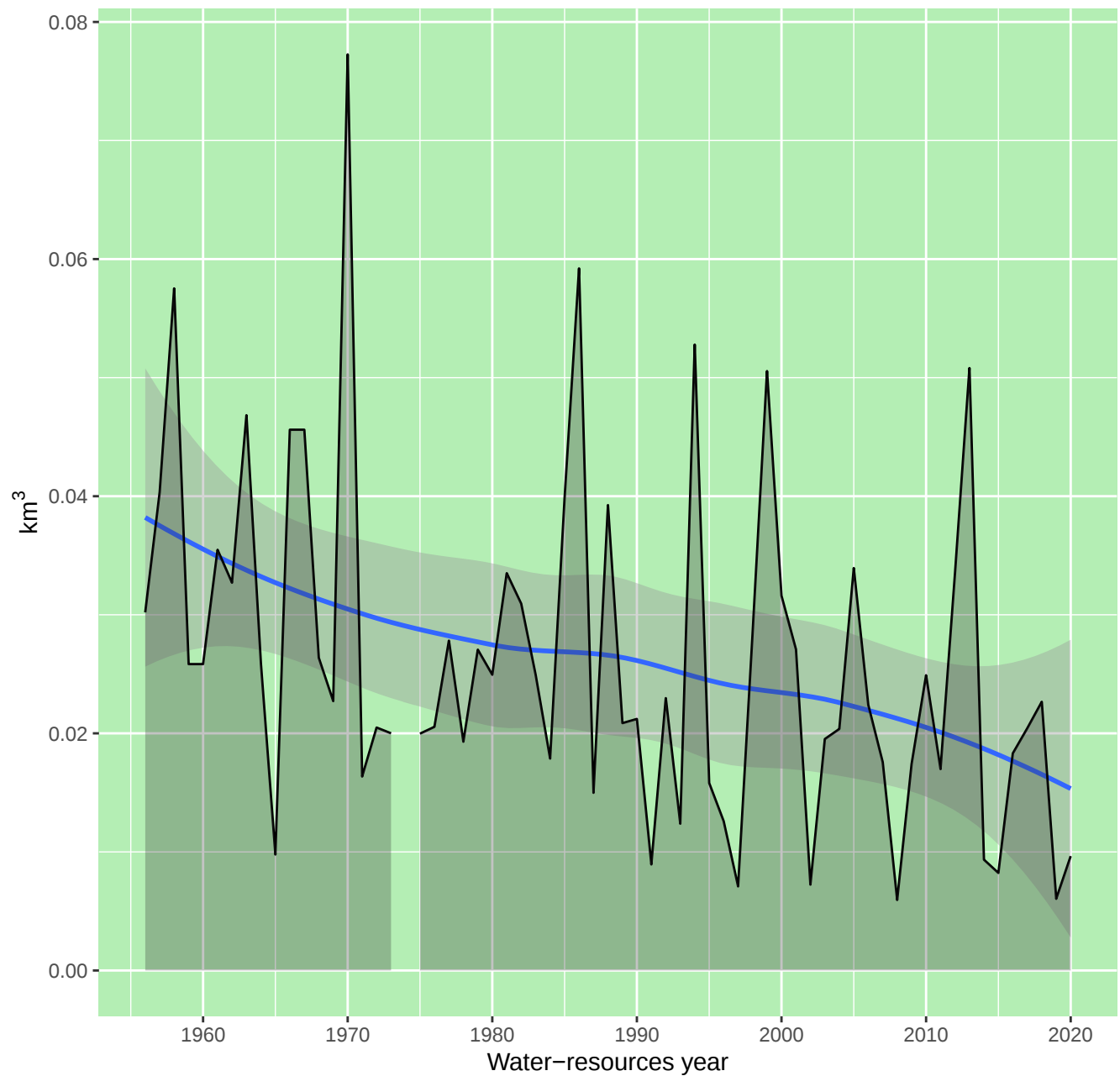
First date of a spring flood



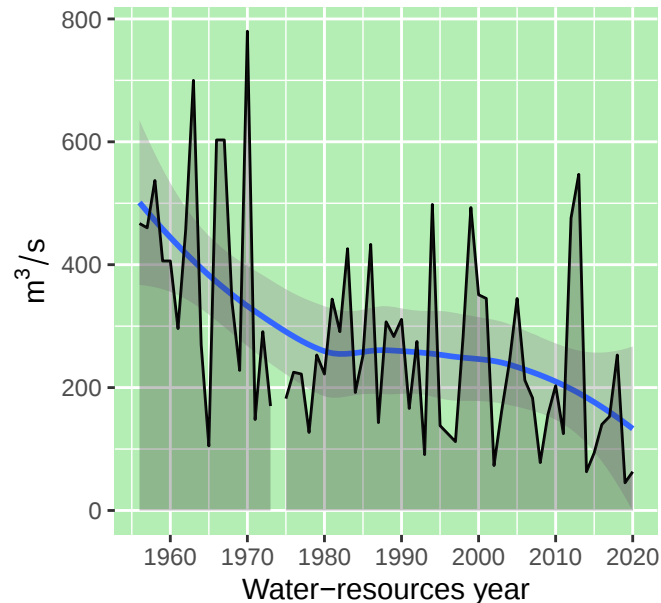
First date of minimum 10-day averaged winter runoff



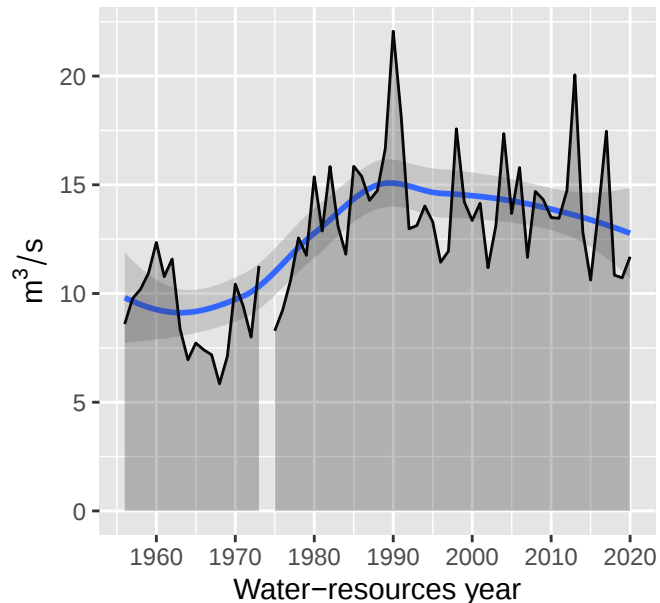
Spring flood runoff volume (with groundwater and rain)



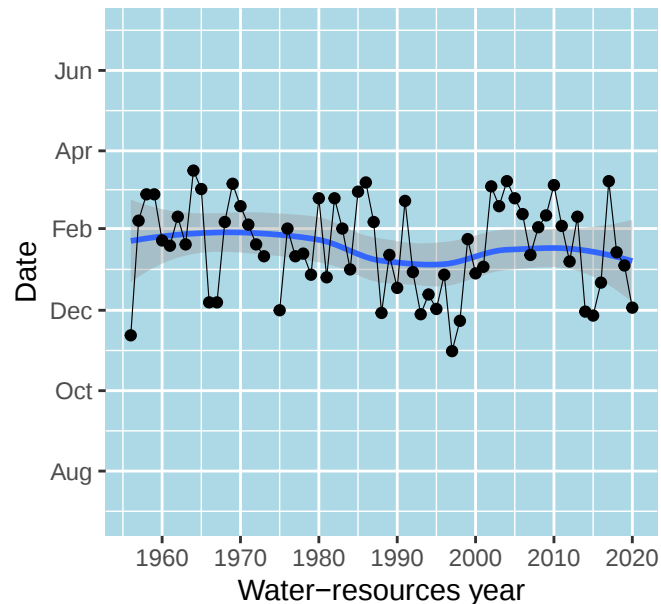
Maximum spring flood runoff



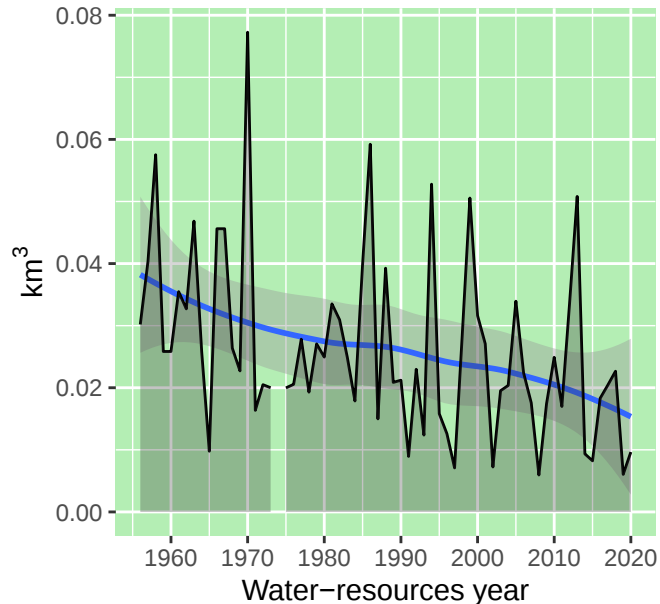
Mean annual groundwater ("baseflow")



First date of minimum 10-day average



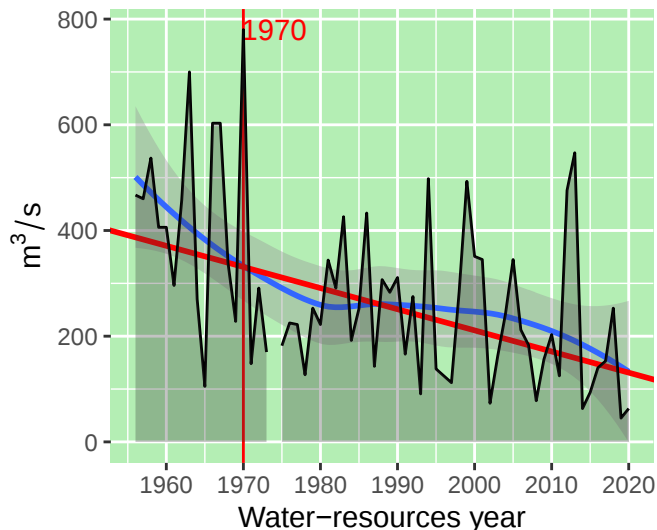
Spring flood runoff volume (with gro



Maximum spring flood runoff

Mann-Kendall: $z = -3.946$, $p = 8e-05$

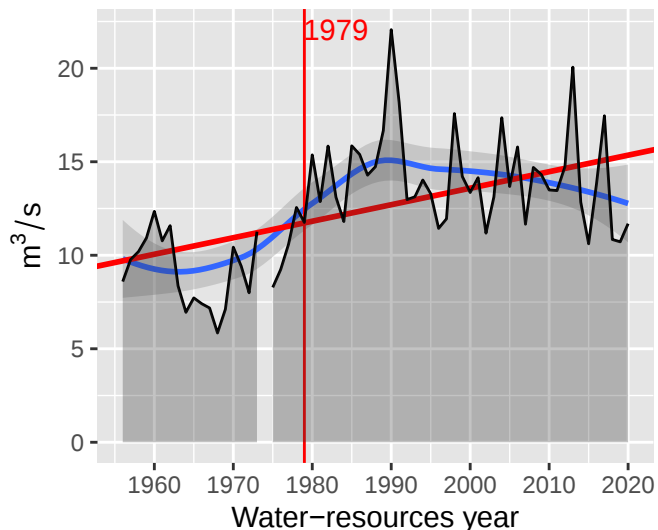
Theil-Sen: $i = -4$, $p = 0$. Pettitt: $U^* = 481$, p



Mean annual groundwater ("baseflow")

Mann-Kendall: $z = 4.339$, $p = 1e-05$

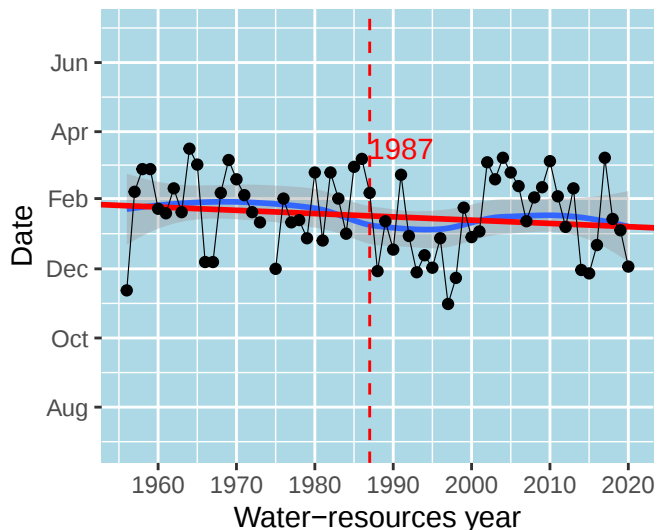
Theil-Sen: $i = 0.0883$, $p = 0$. Pettitt: $U^* = 861$, p



First date of minimum 10-day average

Mann-Kendall: $z = -1.142$, $p = 0.25361$

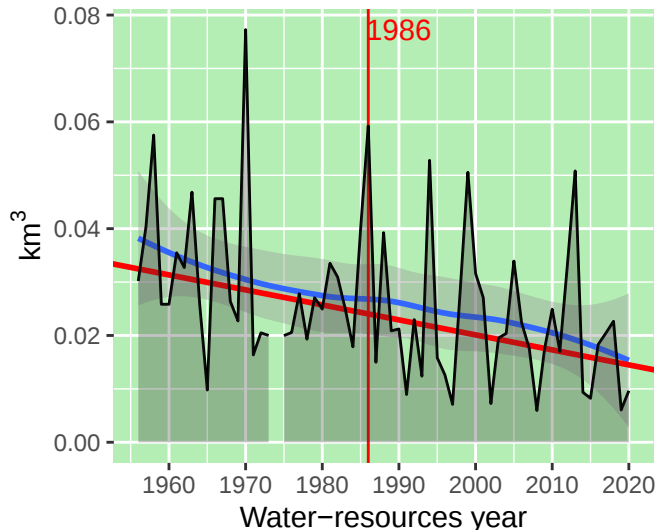
Theil-Sen: $i = -0.2892$, $p = 4e-05$. Pettitt: $U^* = 481$, p



Spring flood runoff volume (with ground)

Mann-Kendall: $z = -3.366$, $p = 0.00076$

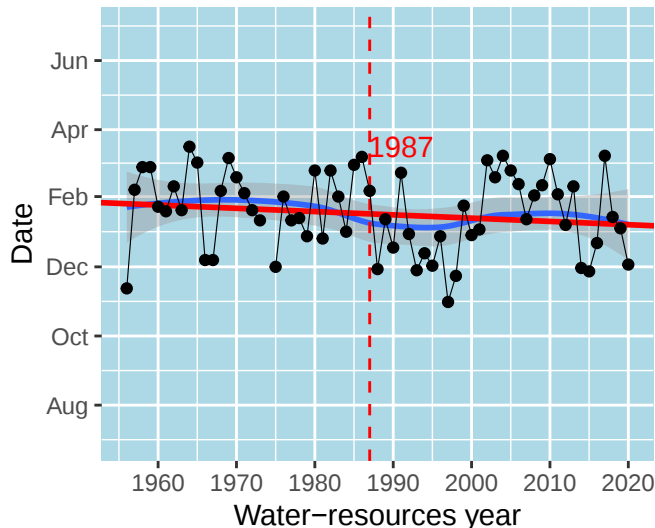
Theil-Sen: $i = -0.00028$, $p = 0$. Pettitt: $U^* = 861$, p



First date of minimum 10-day average

Mann-Kendall: $z = -1.142$, $p = 0.25361$

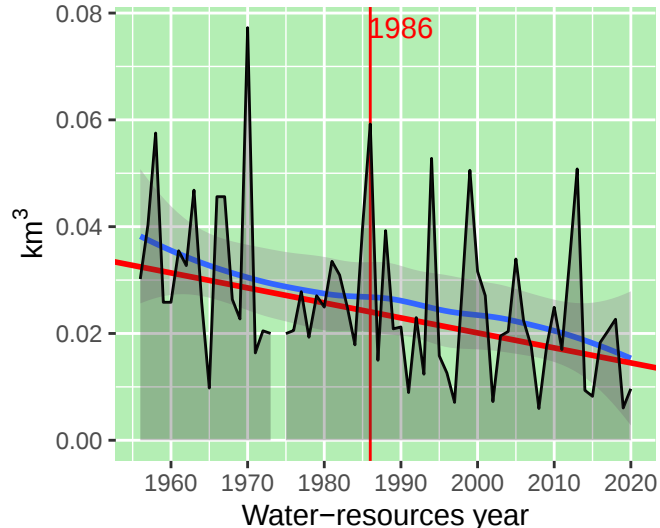
Theil-Sen: $i = -0.2892$, $p = 4e-05$. Pettitt: U =



Spring flood runoff volume (with gro

Mann-Kendall: $z = -3.366$, $p = 0.00076$

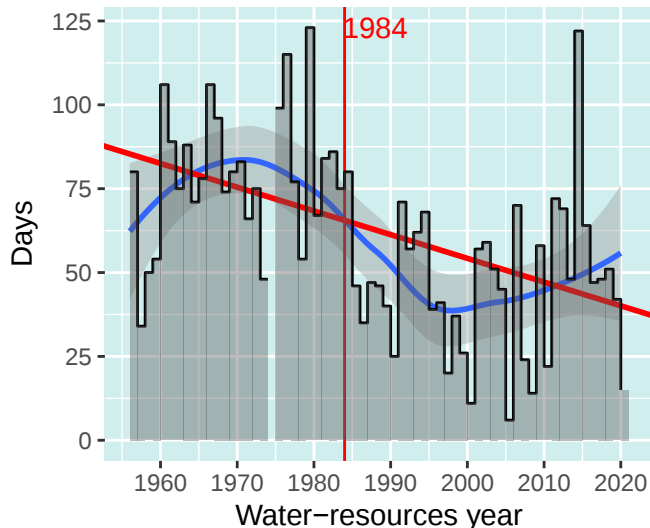
Theil-Sen: $i = -0.00028$, $p = 0$. Pettitt: $U^* =$



Number of thaw flood days

Mann-Kendall: $z = -4.109$, $p = 4e-05$

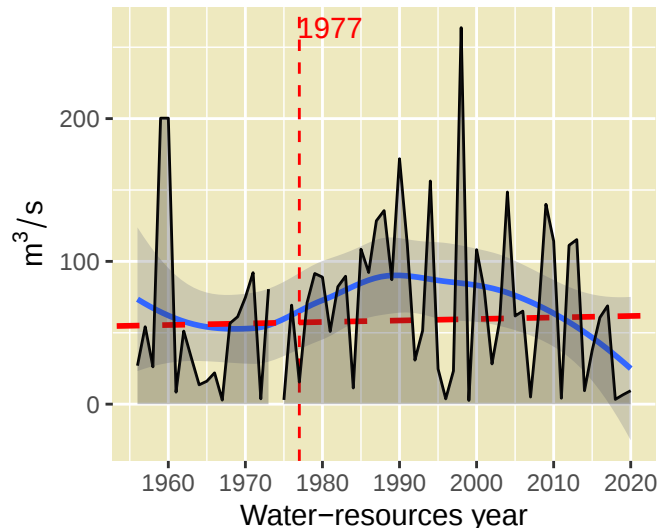
Theil-Sen: $i = -0.70711$, $p = 0$. Pettitt: $U^* =$



Maximum rain flood runoff

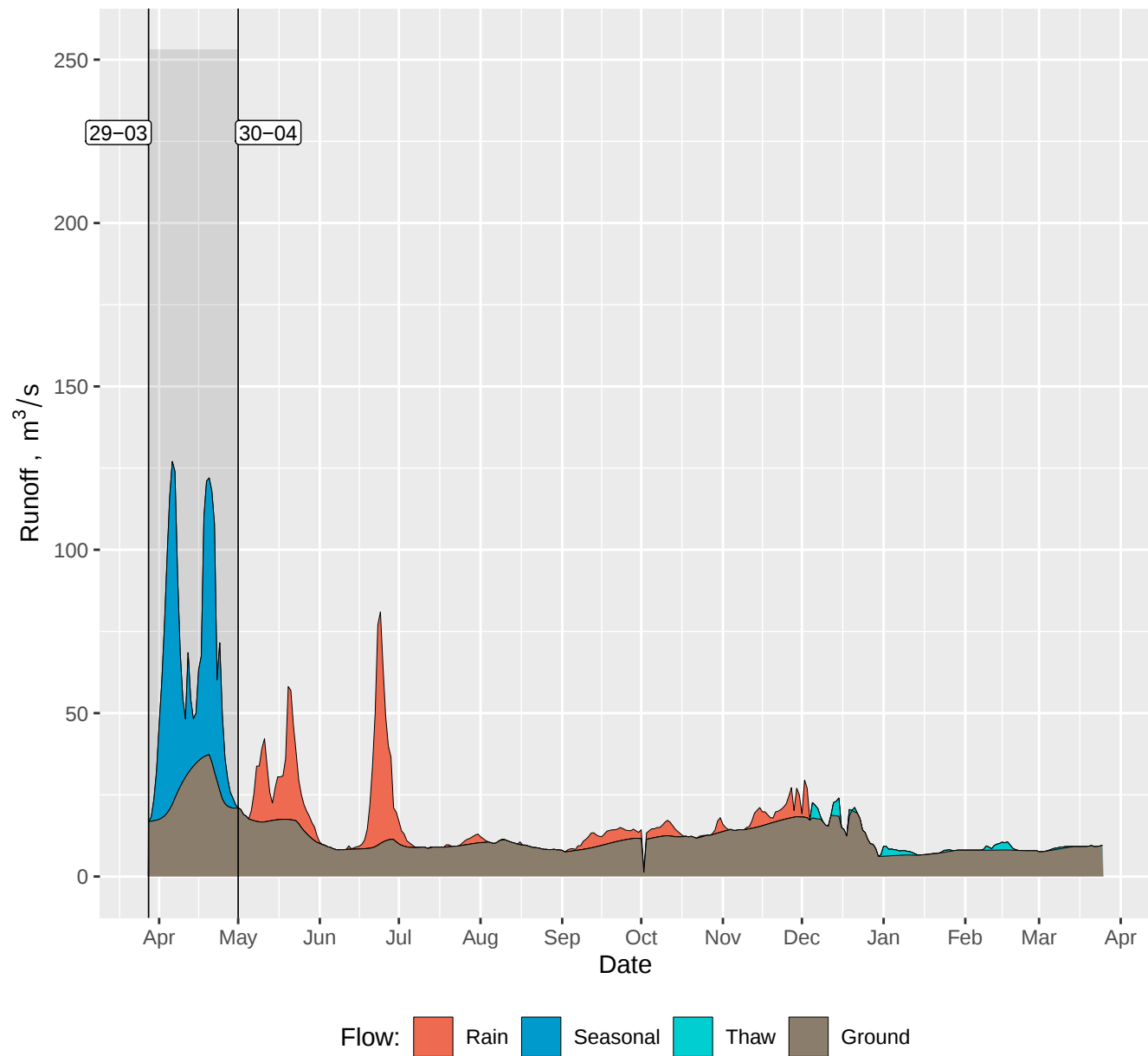
Mann-Kendall: $z = 0.411$, $p = 0.68081$

Theil-Sen: $i = 0.10523$, $p = 0.17458$. Pettitt: $U^* =$



1978

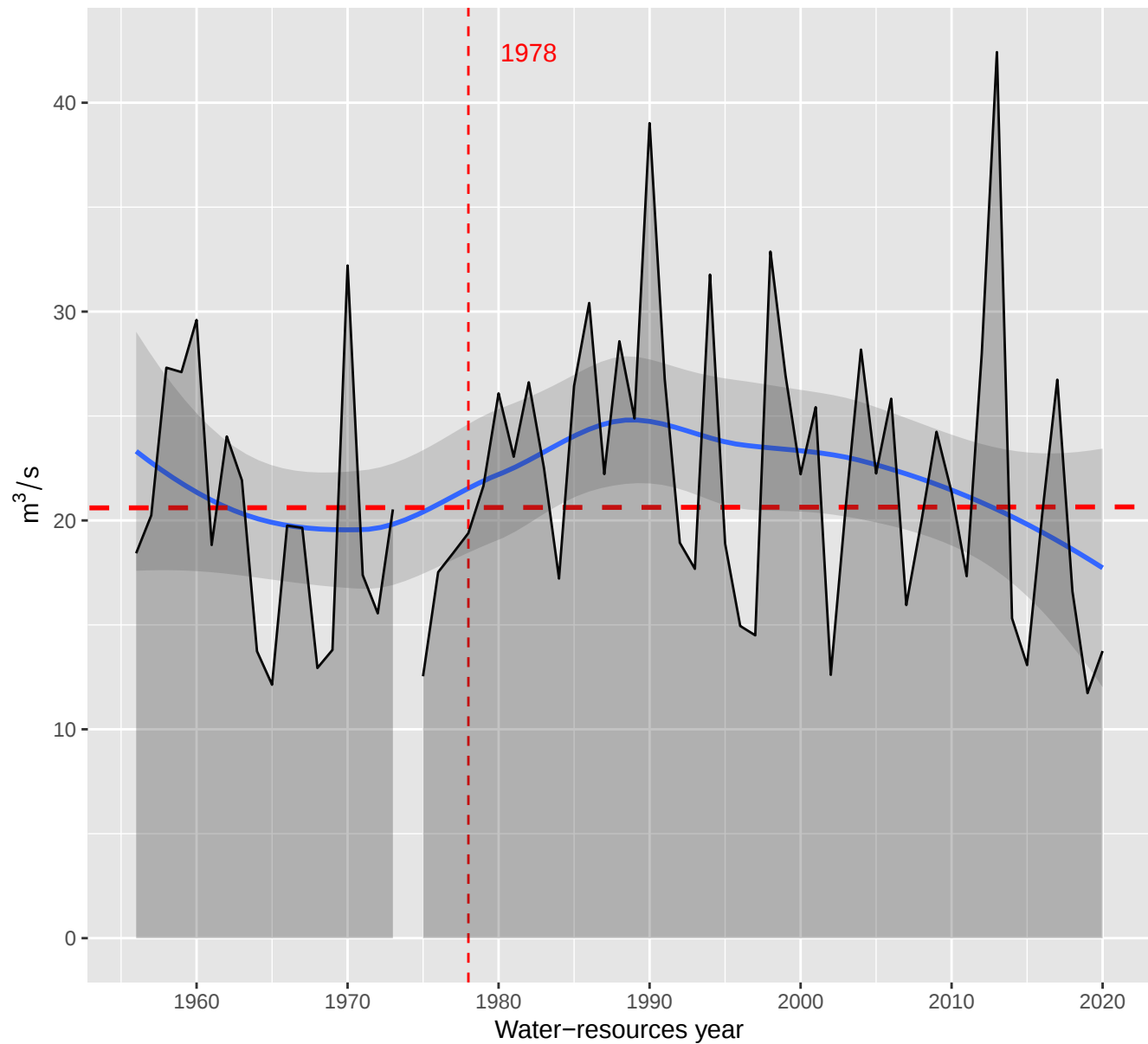
1978-03-29 - 1979-03-25



Mean annual runoff

Mann-Kendall: $z = 0.017$, $p = 0.98613$

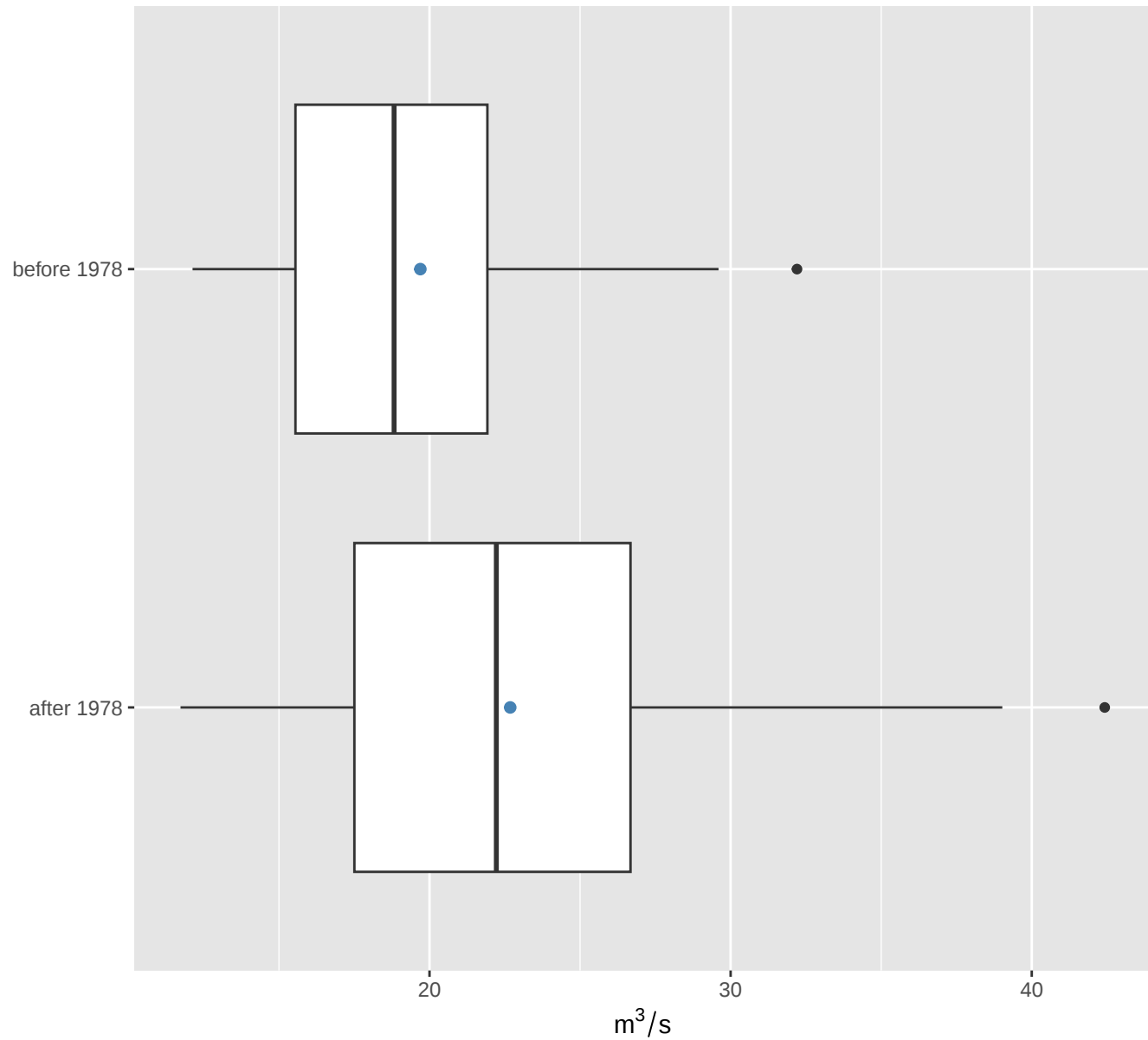
Theil-Sen: $i = 0.00067$, $p = 0.71213$. Pettitt: $U^* = 252$, $p = 0.47808$



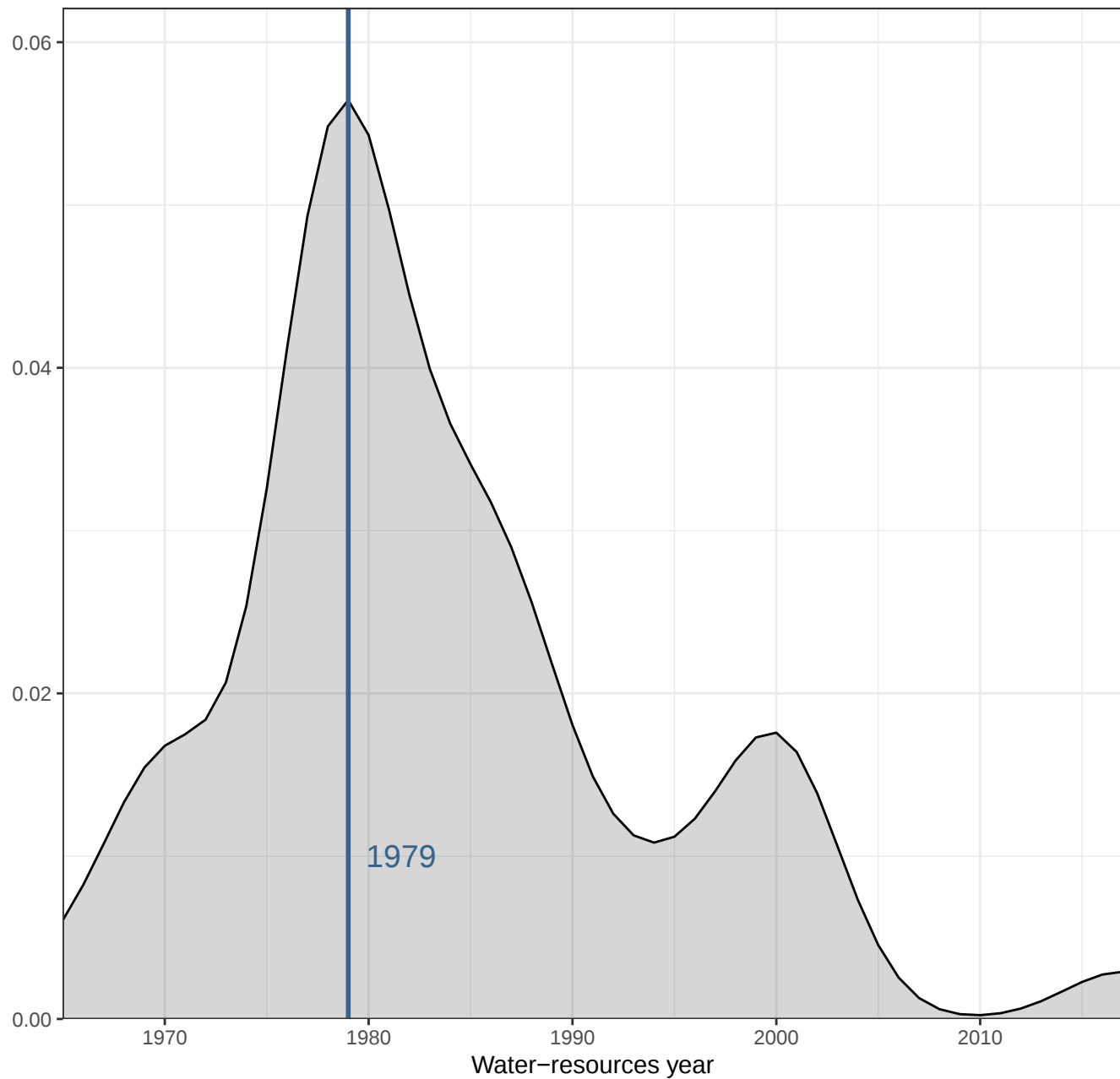
Mean annual runoff

Student: $t = -1.916$, $p = 0.06121$, $m1 = 19.696$, $m2 = 22.68$

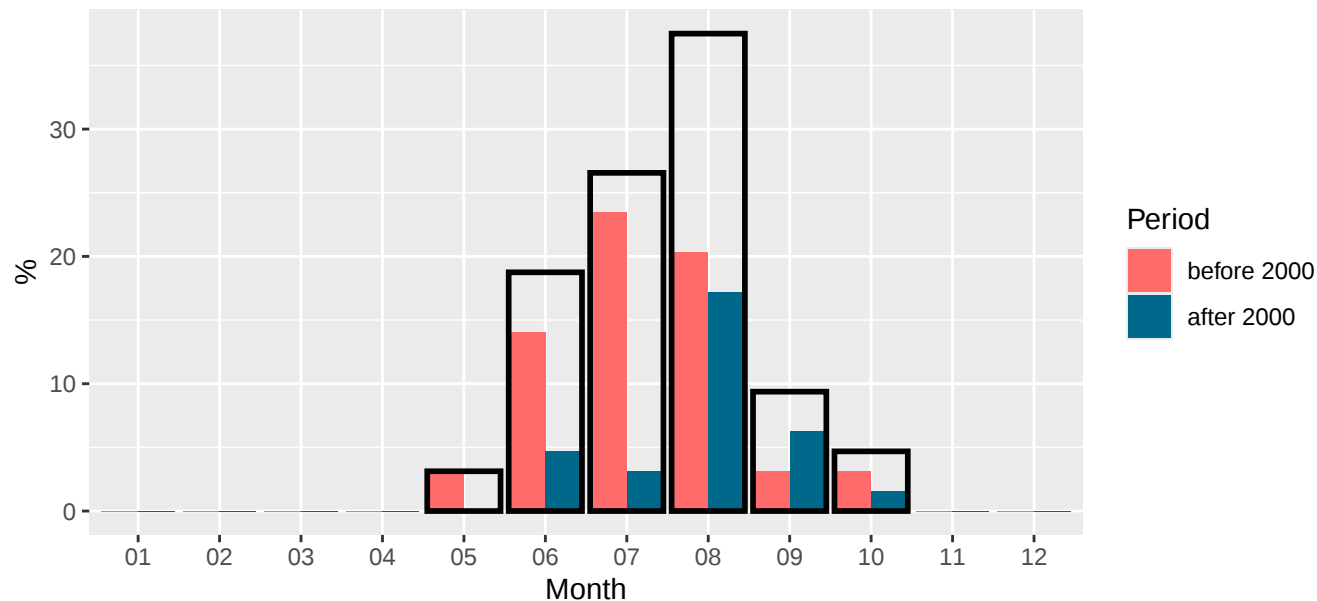
Fisher: $F = 0.615$, $p = 0.24269$, $cv1 = 0.289$, $cv2 = 0.298$



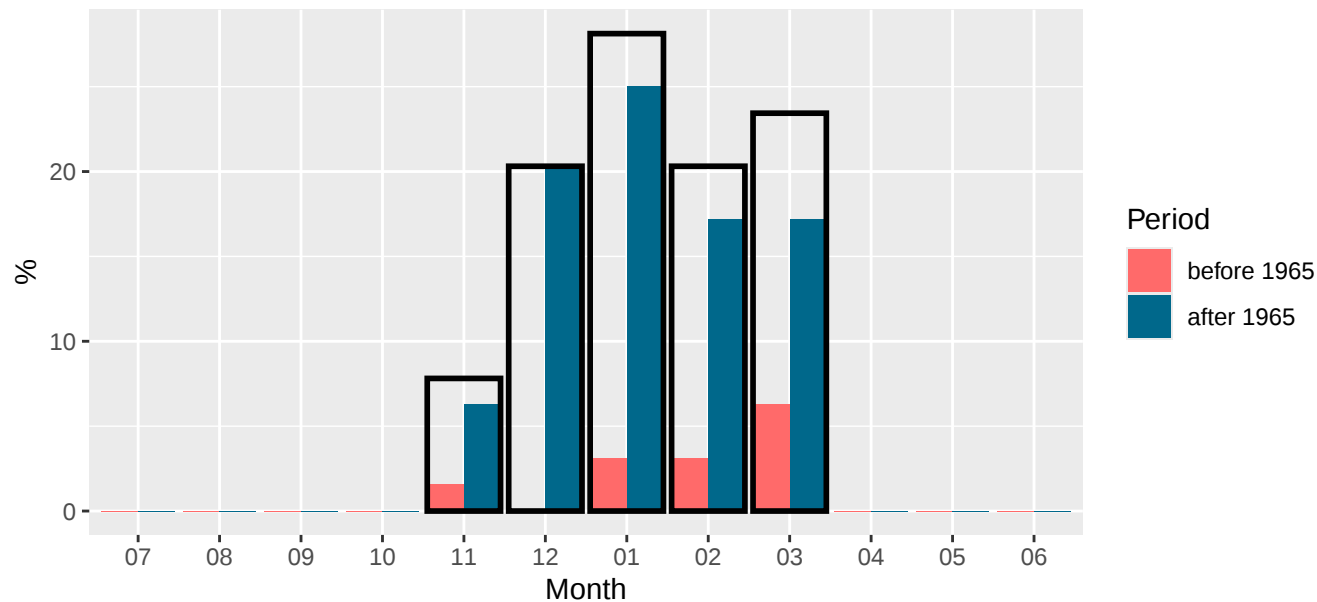
Change year distribution density



Month of a minimum monthly runoff during summer



Month of a minimum monthly runoff during winter



Year

2012

2001

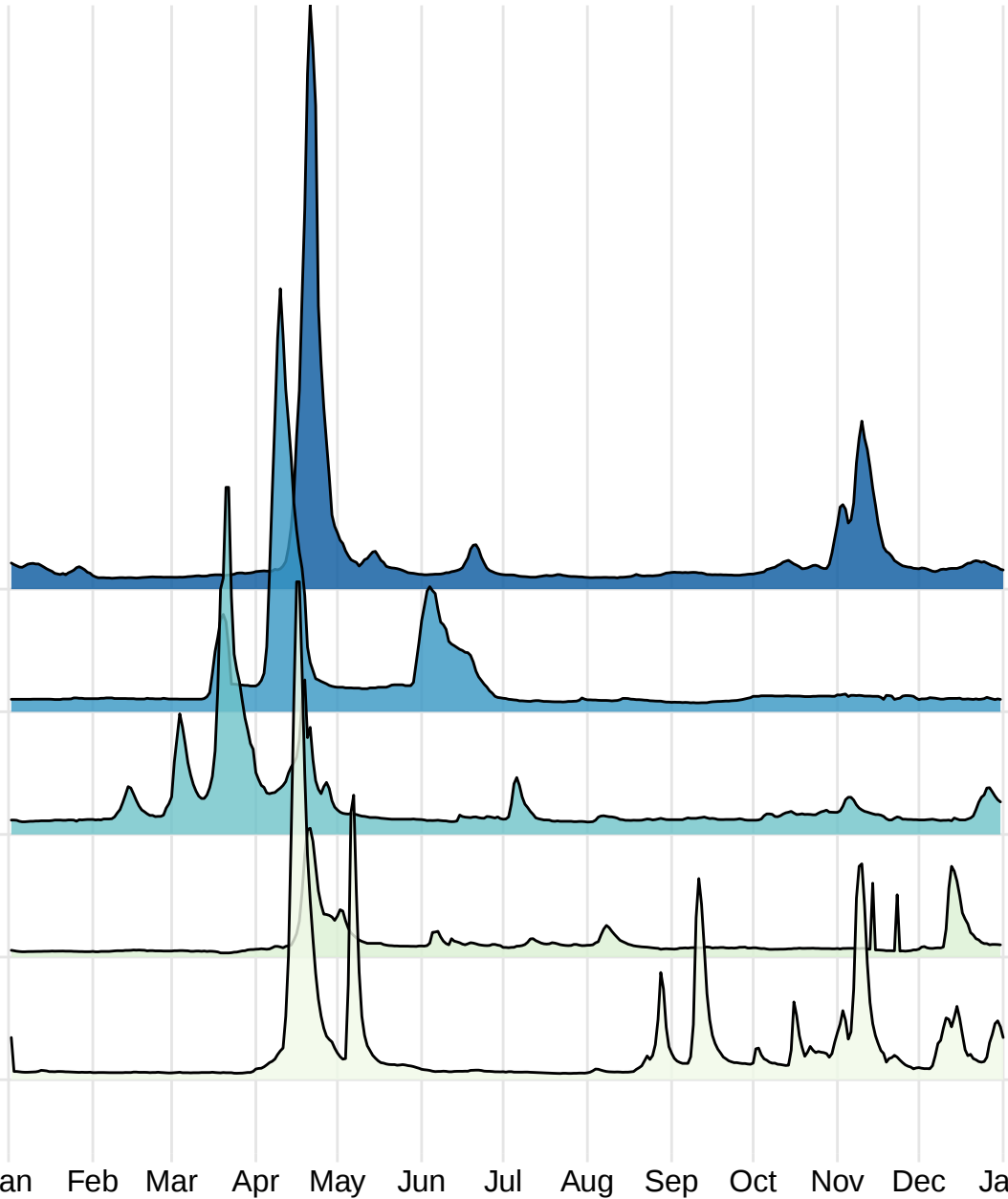
1989

1965

1960

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan

Date



Runoff

