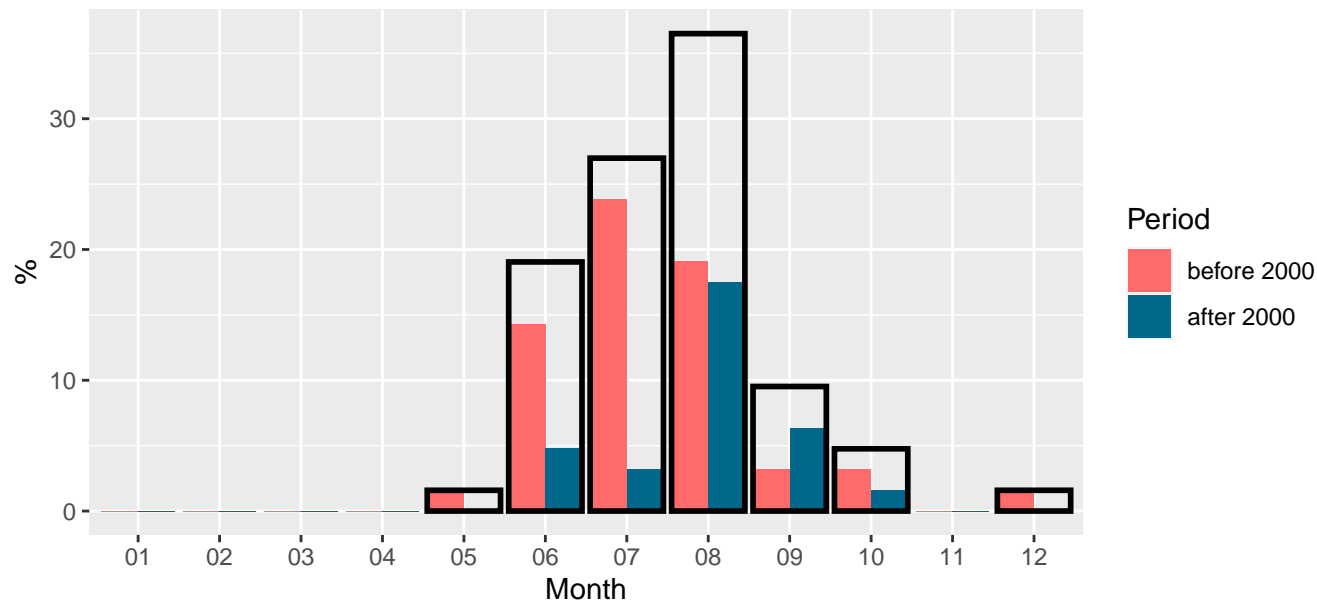
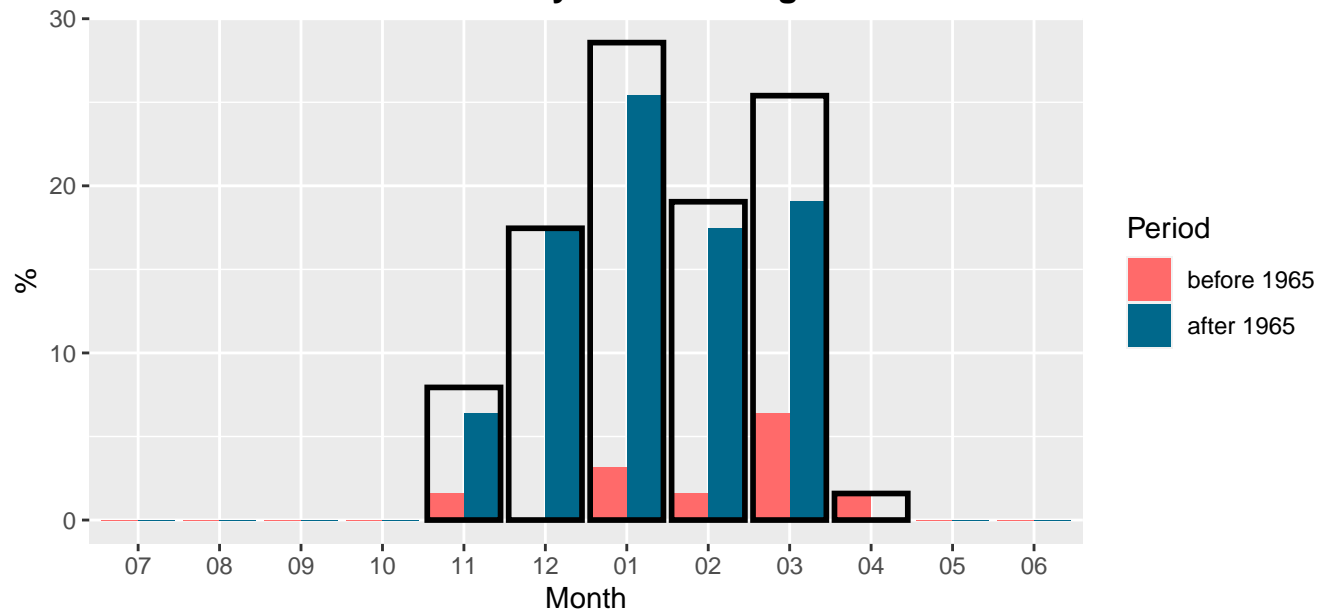


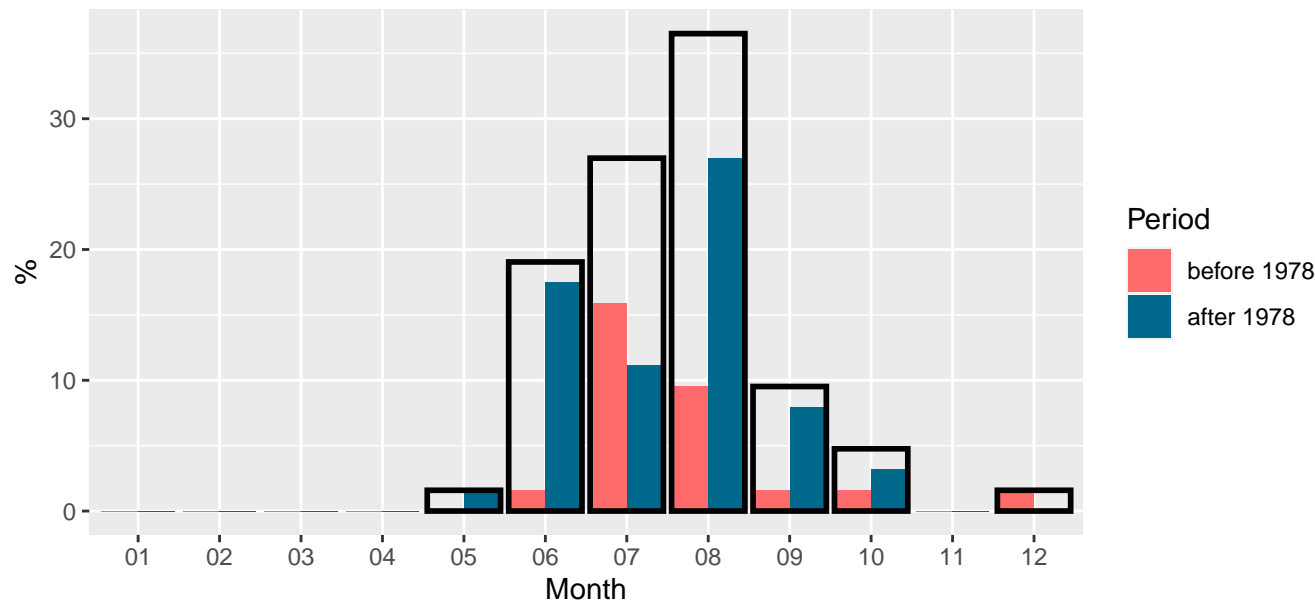
**Month of a minimum monthly runoff during summer**



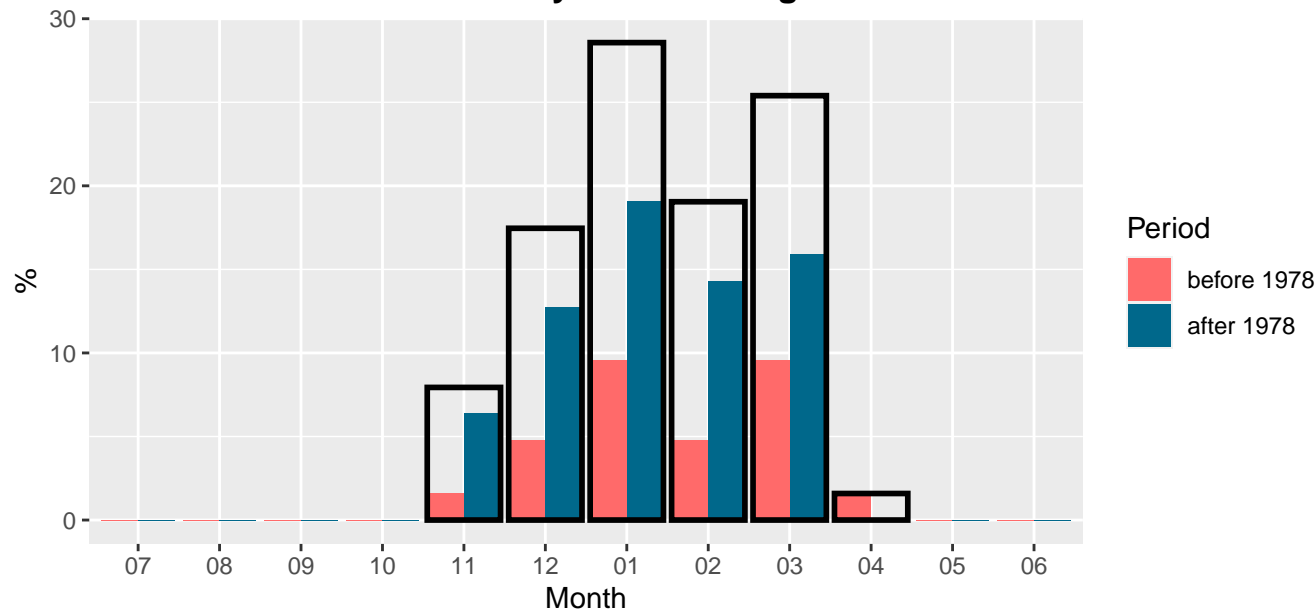
**Month of a minimum monthly runoff during winter**



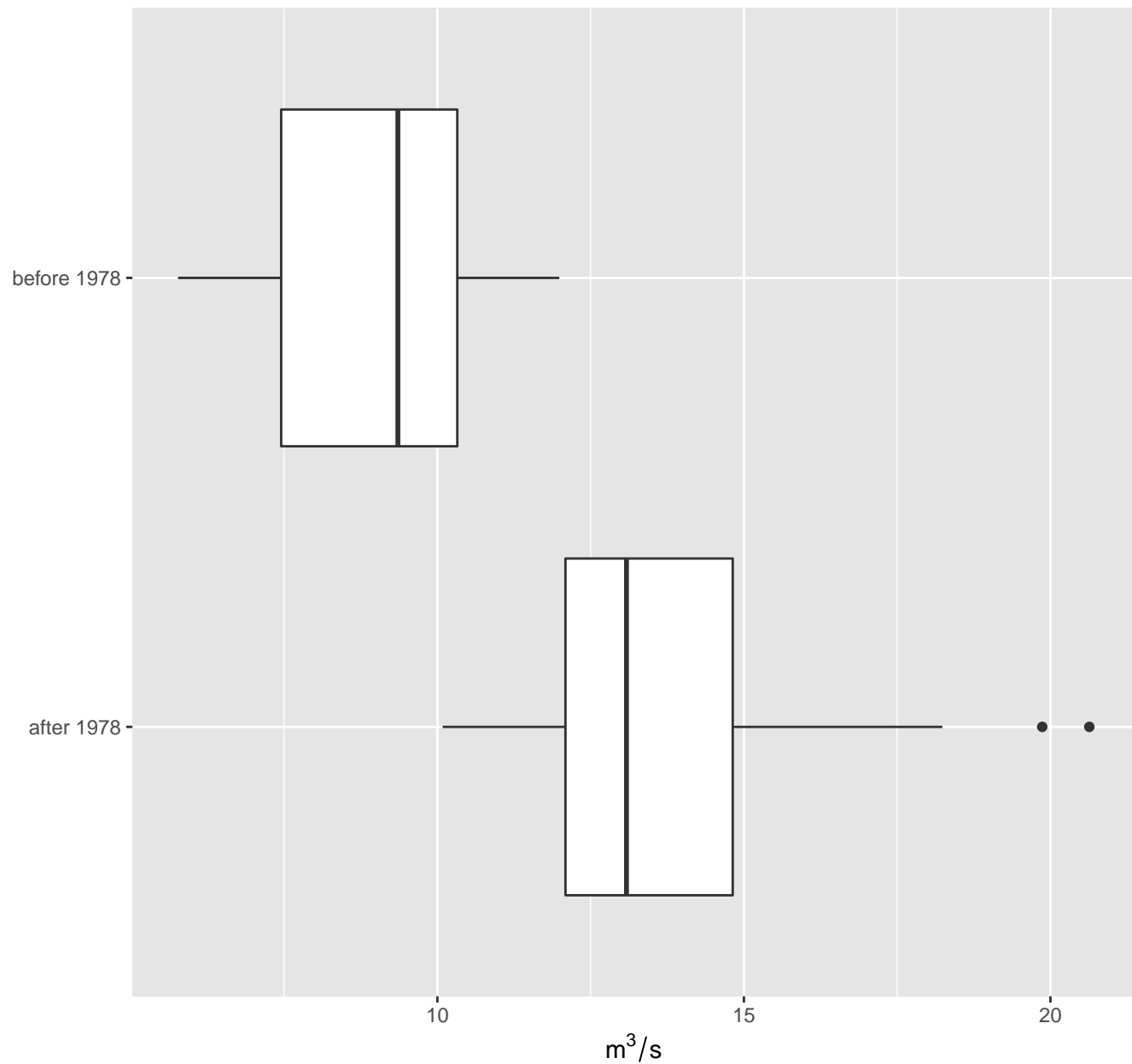
**Month of a minimum monthly runoff during summer**



**Month of a minimum monthly runoff during winter**



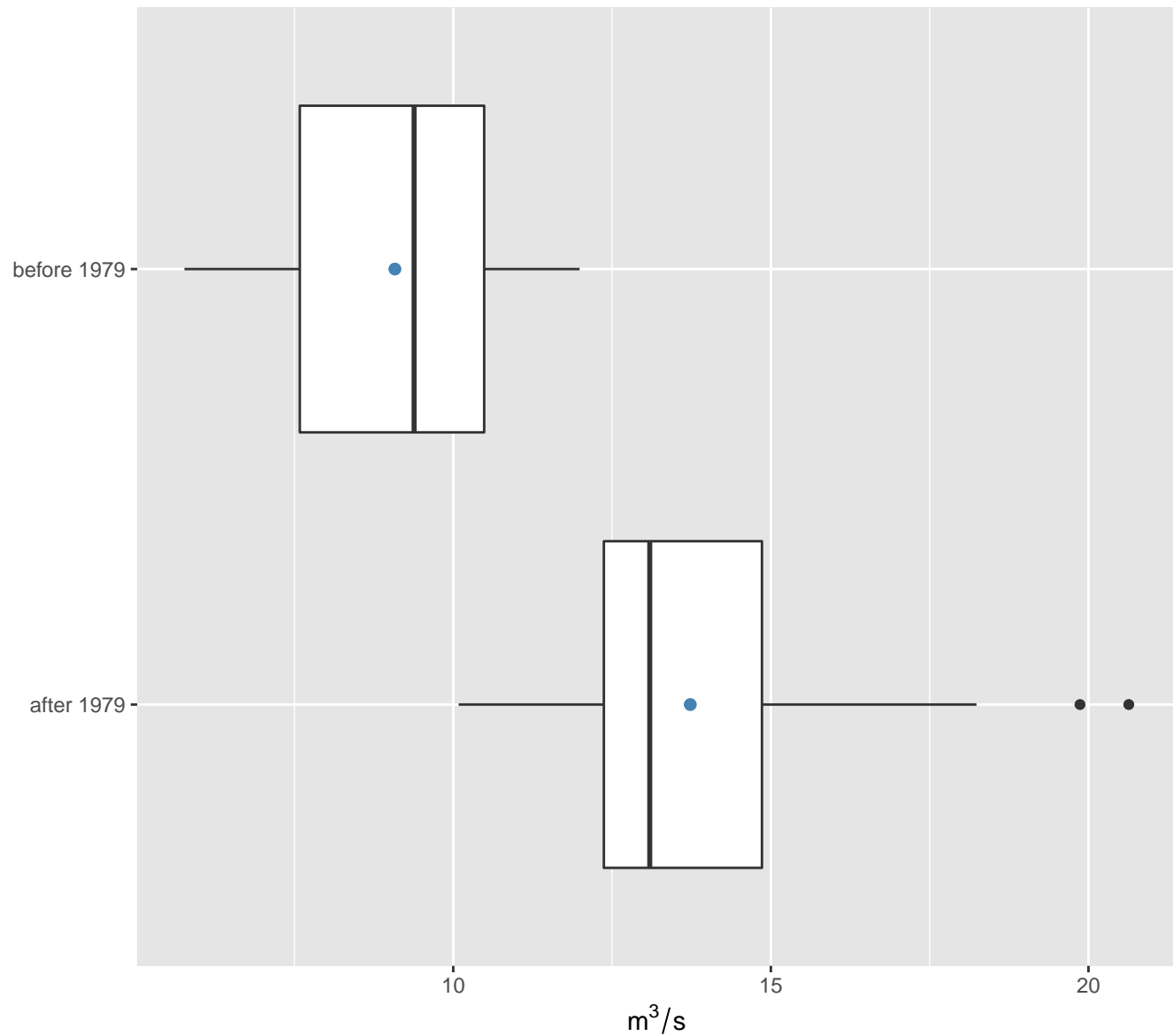
# Annual groundwater discharge ("baseflow") during water-resources year



# Annual groundwater discharge ("baseflow") during water-resources year

Student:  $t = -8.26$ ,  $p = 0$ ,  $m1 = 9.082$ ,  $m2 = 13.732$

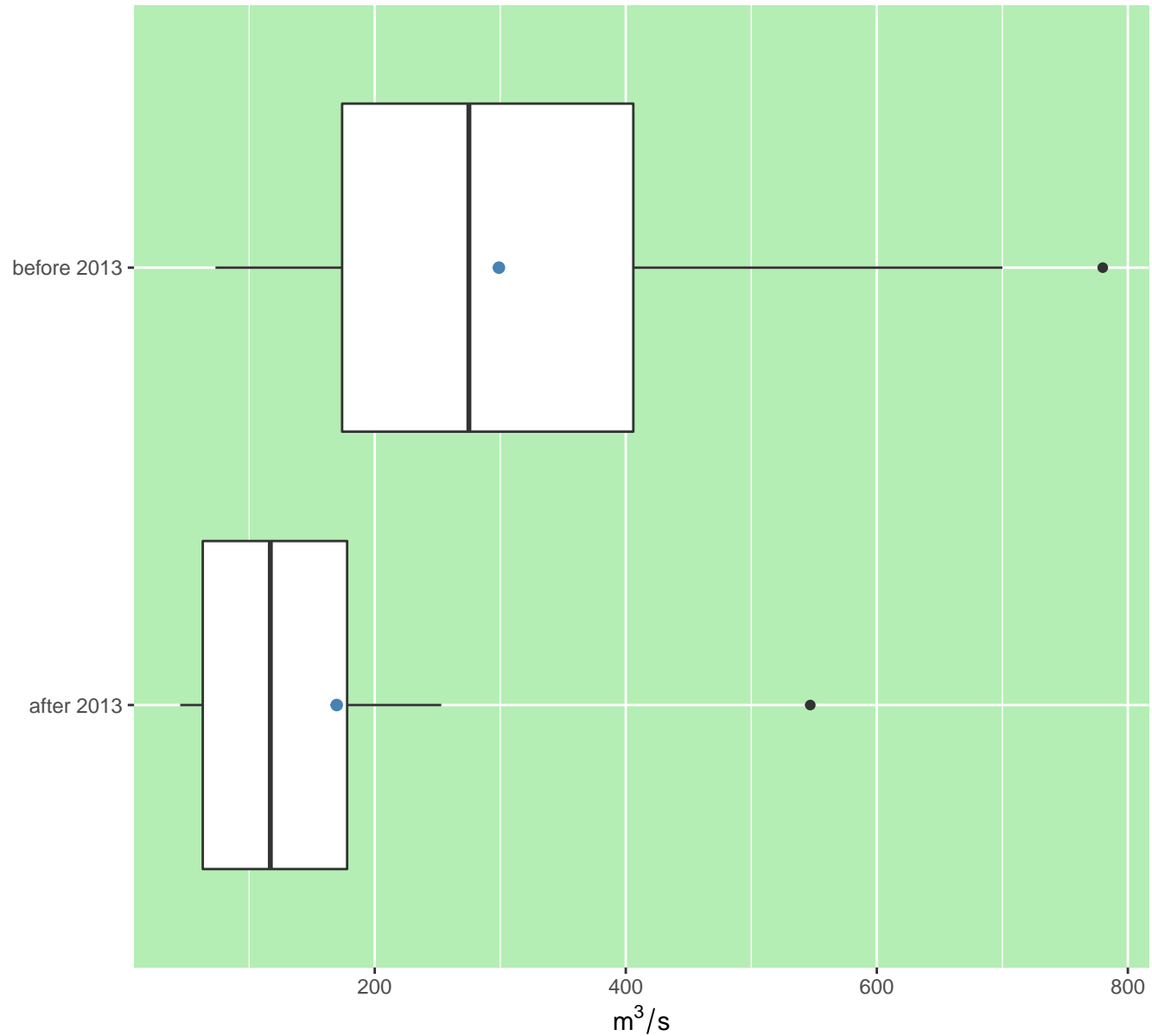
Fisher:  $F = 0.545$ ,  $p = 0.14601$ ,  $cv1 = 0.205$ ,  $cv2 = 0.184$



# Maximum annual discharge during seasonal flood wave

Student:  $t = 1.252$ ,  $p = 0.22789$ ,  $m1 = 298.925$ ,  $m2 = 169.7$

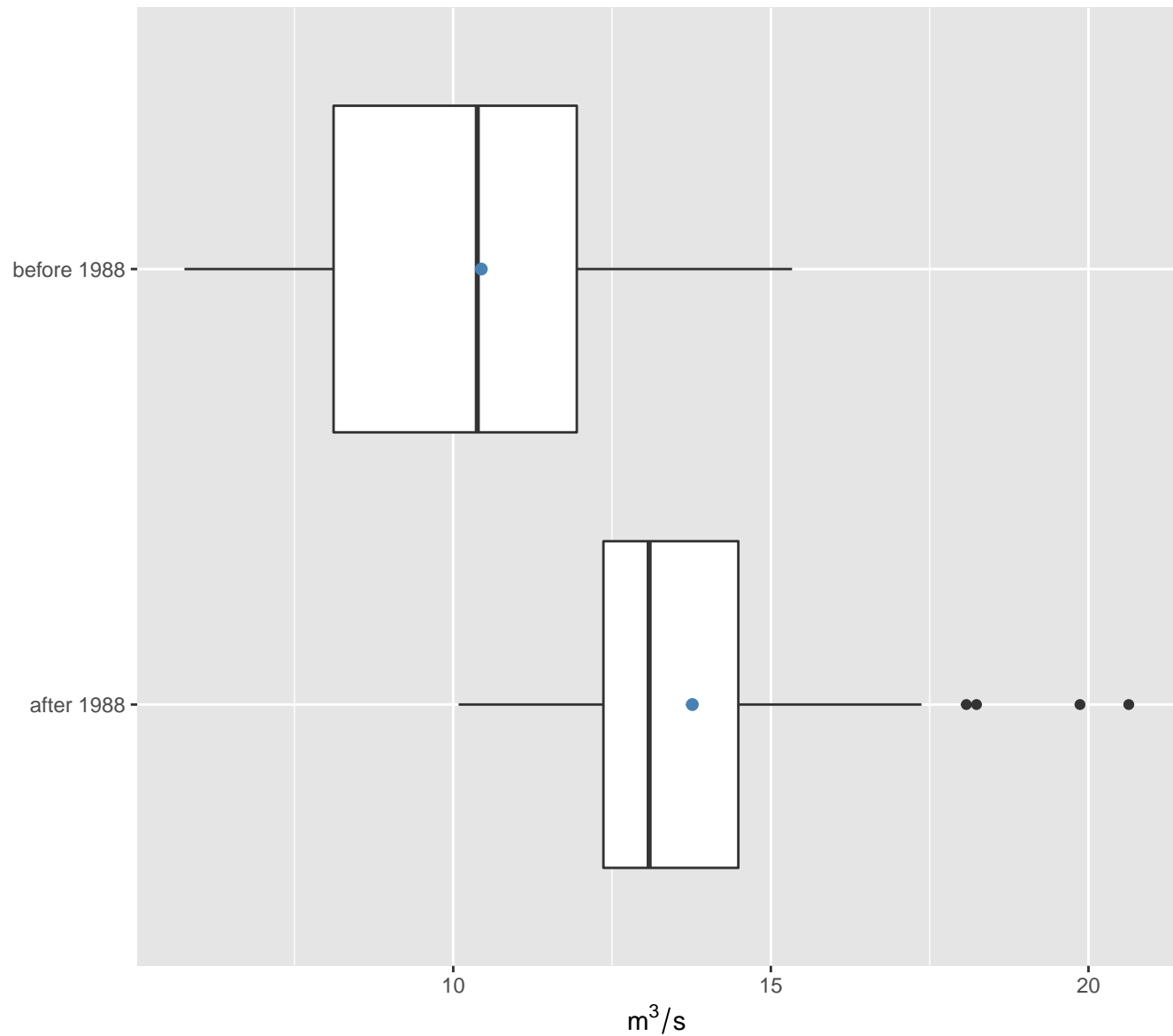
Fisher:  $F = 3.927$ ,  $p = 0.06307$ ,  $cv1 = 0.541$ ,  $cv2 = 0.982$



# Annual groundwater discharge ("baseflow") during water-resources year

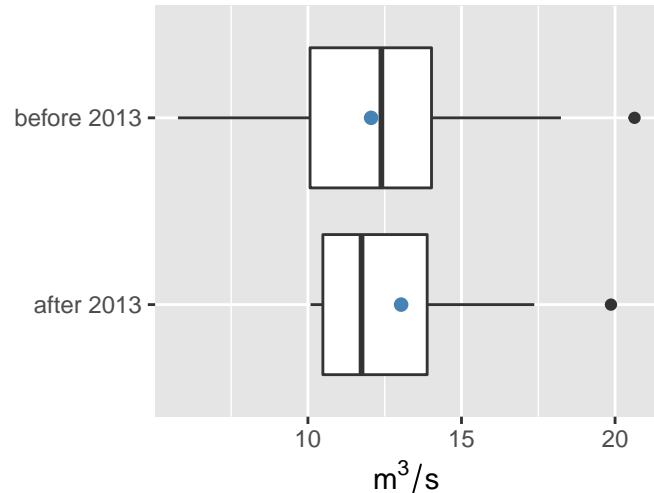
Student:  $t = 3.511$ ,  $p = 0.00088$ ,  $m1 = 10.442$ ,  $m2 = 13.764$

Fisher:  $F = 1.414$ ,  $p = 0.33964$ ,  $cv1 = 0.262$ ,  $cv2 = 0.2$



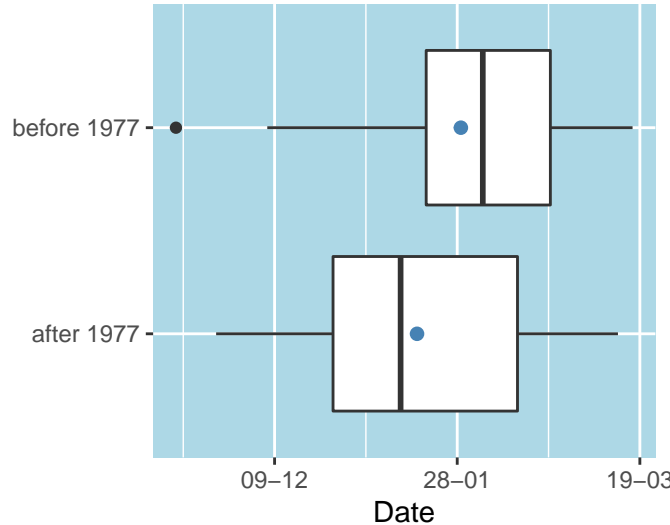
### Annual groundwater discharge ("b resources year

Student:  $t = 1.252$ ,  $p = 0.22789$ ,  $m1 = 1$   
 Fisher:  $F = 3.927$ ,  $p = 0.06307$ ,  $cv1 = 0.$



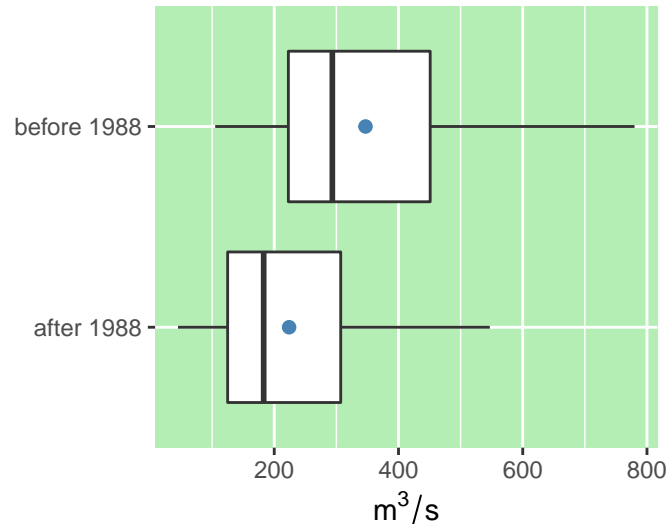
### First date of 10-day window disch

Student:  $t = -2.654$ ,  $p = 0.01412$ ,  $m1 = 2$   
 Fisher:  $F = 3.081$ ,  $p = 0.00254$ ,  $cv1 = 0.$



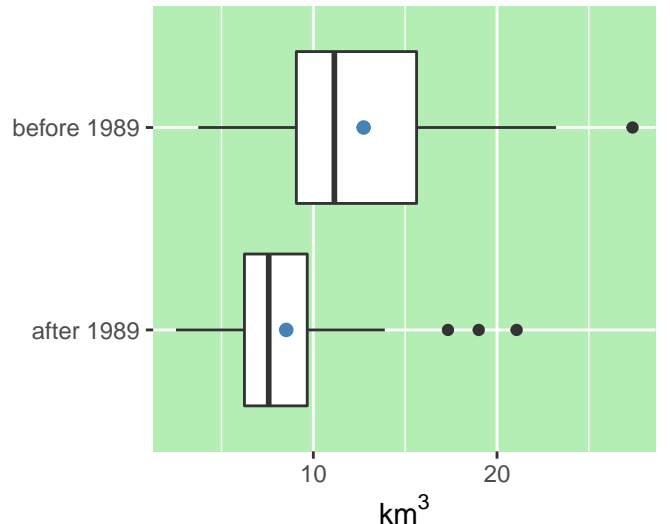
### Maximum annual discharge during

Student:  $t = 3.511$ ,  $p = 0.00088$ ,  $m1 = 3$   
 Fisher:  $F = 1.414$ ,  $p = 0.33964$ ,  $cv1 = 0.$



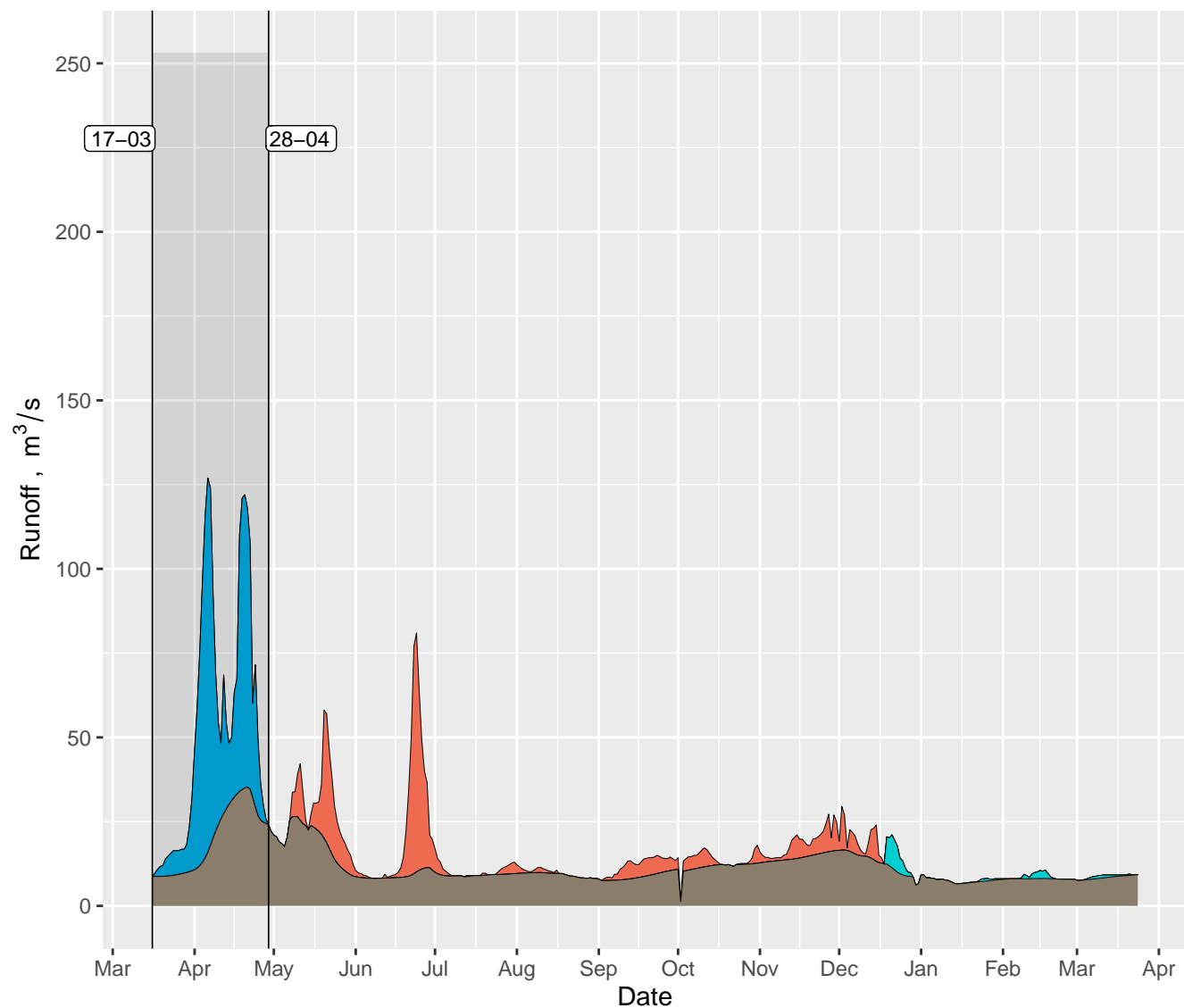
### Seasonal flood runoff (with ground

Student:  $t = 3.357$ ,  $p = 0.0014$ ,  $m1 = 12$   
 Fisher:  $F = 1.51$ ,  $p = 0.25927$ ,  $cv1 = 0.4$



**1978**

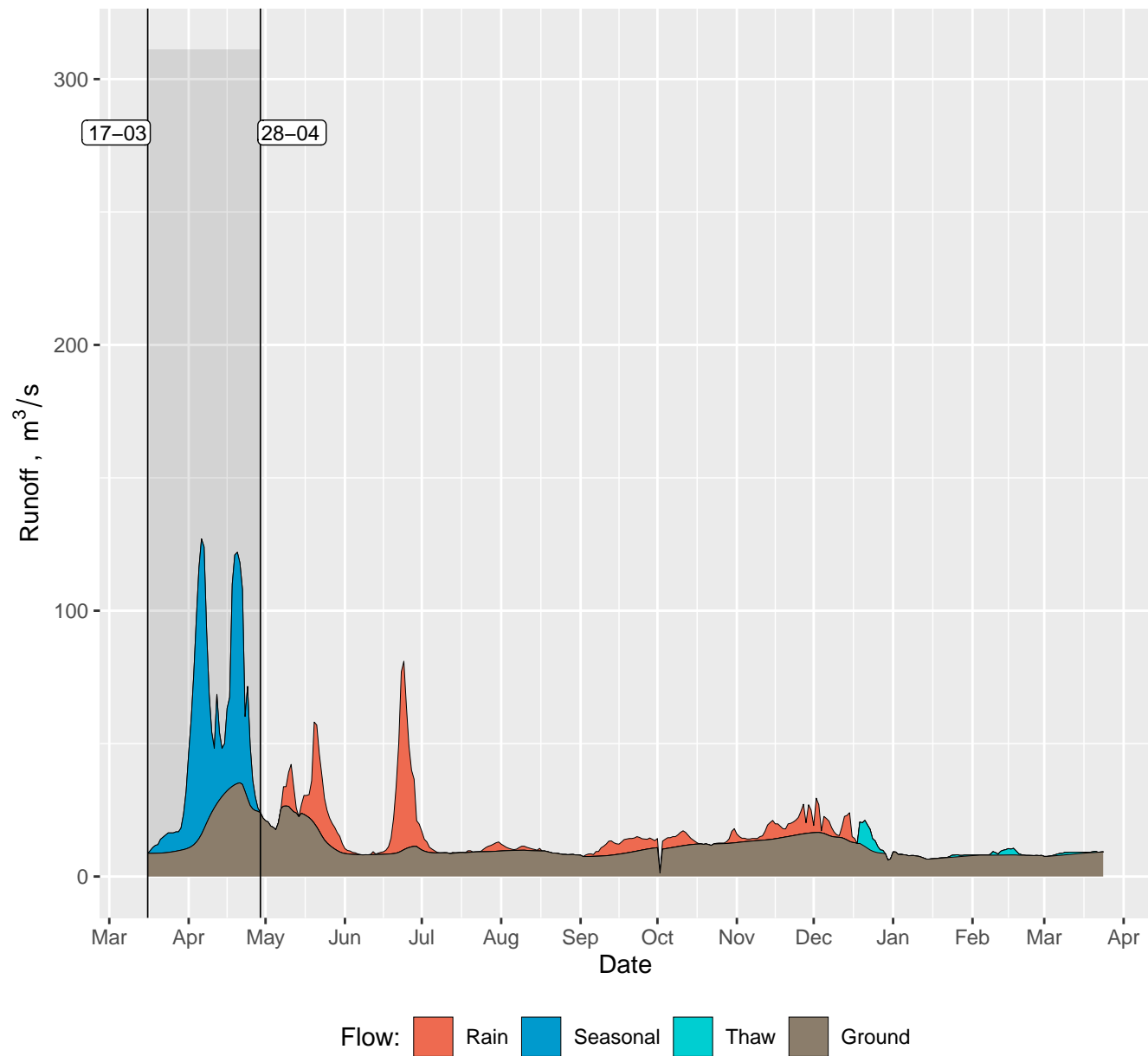
1978-03-17 – 1979-03-24





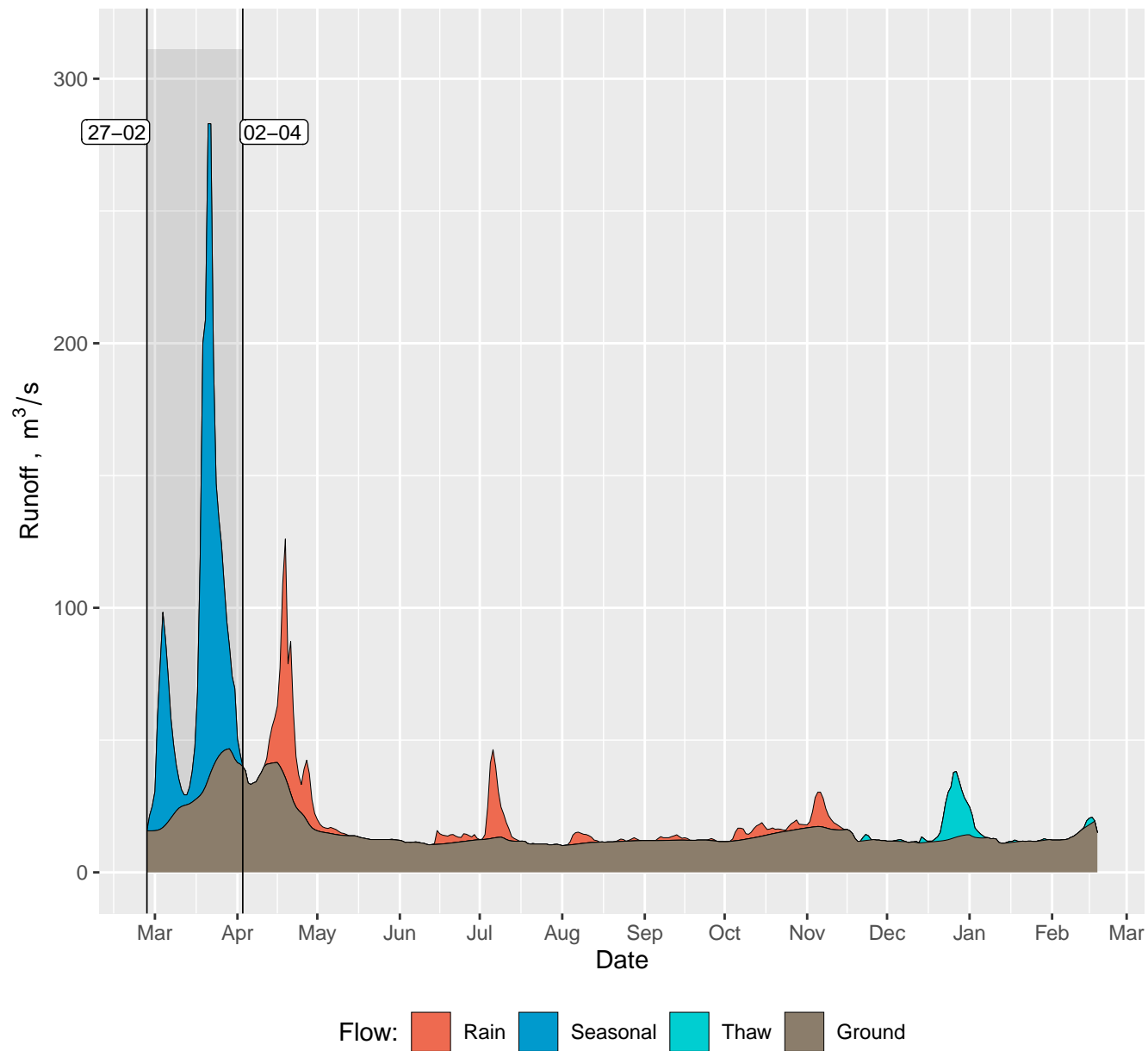
**1978**

1978-03-17 – 1979-03-24



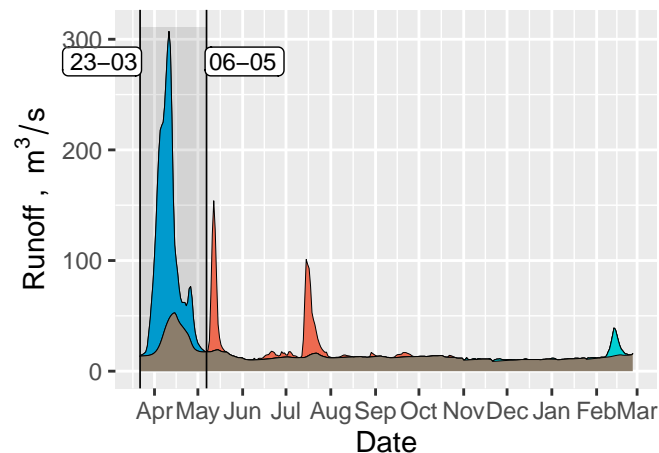
1989

1989-02-27 – 1990-02-18

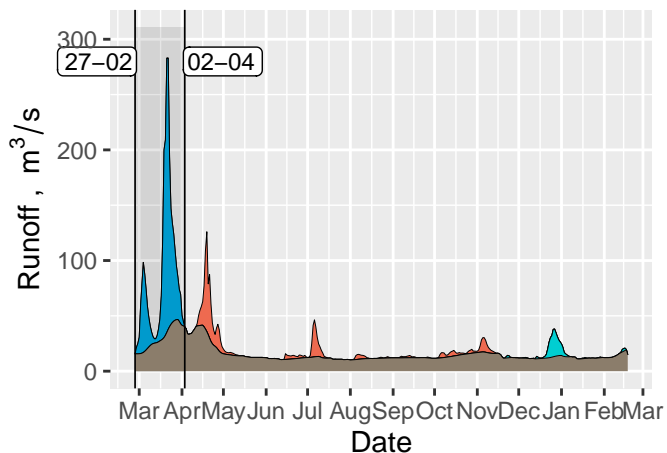


**1988**

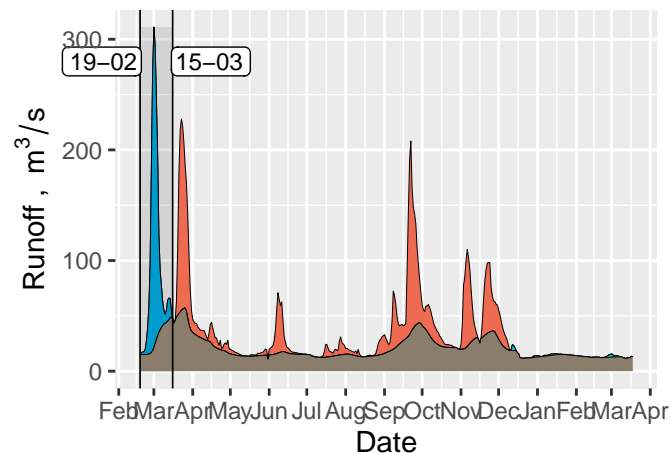
1988-03-23 – 1989-02-26

**1989**

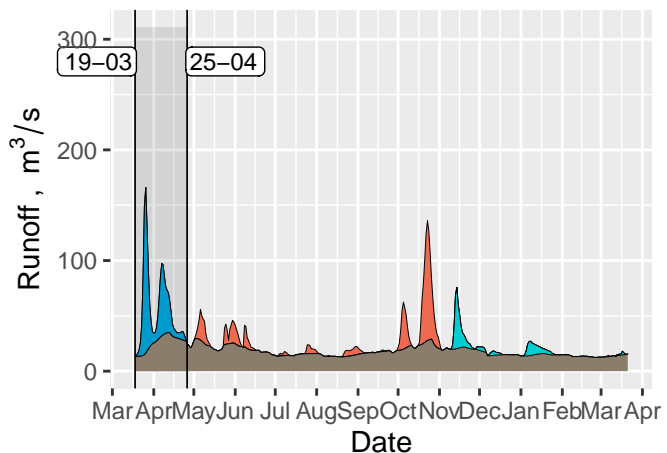
1989-02-27 – 1990-02-18

**1990**

1990-02-19 – 1991-03-18

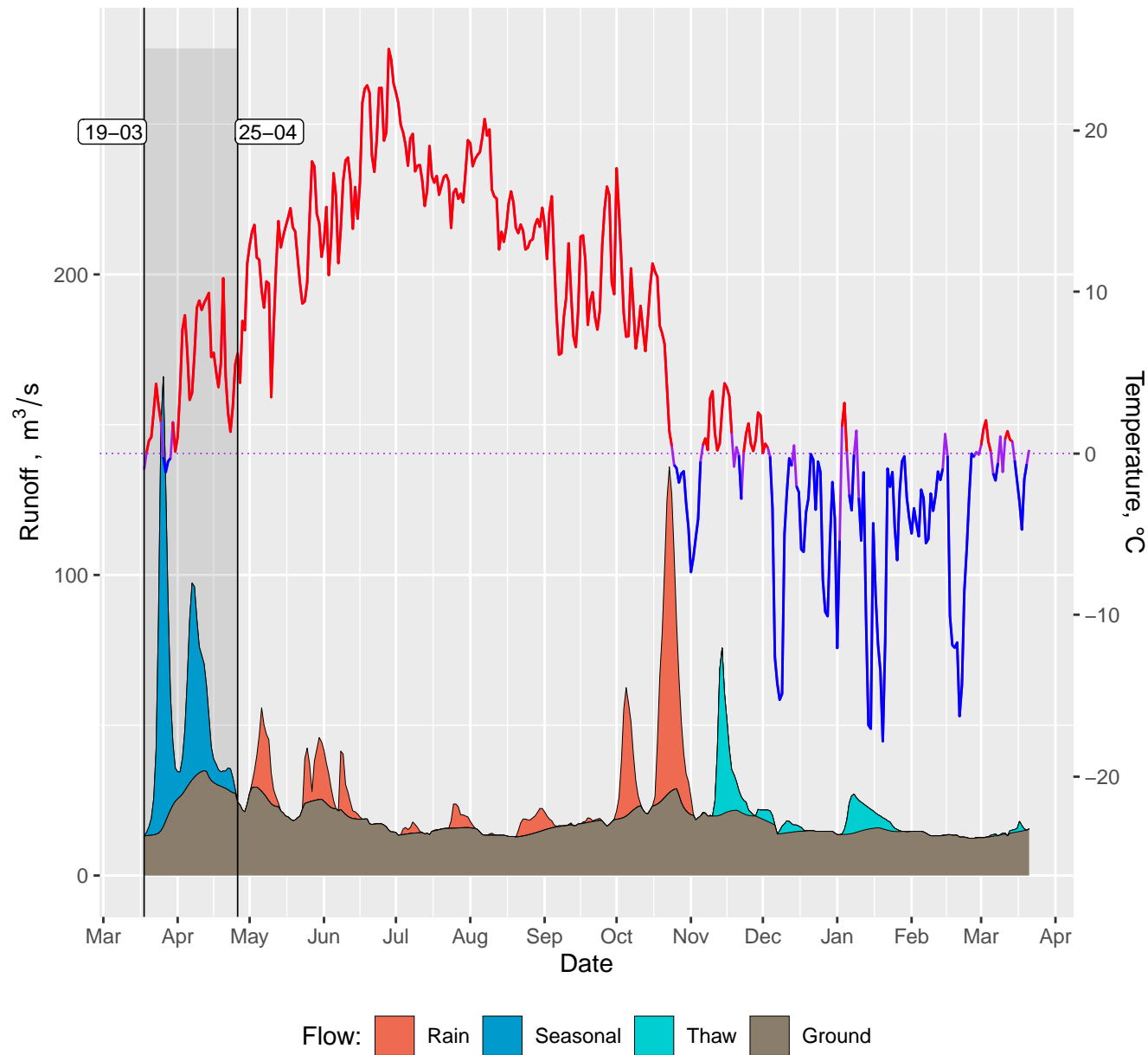
**1991**

1991-03-19 – 1992-03-21



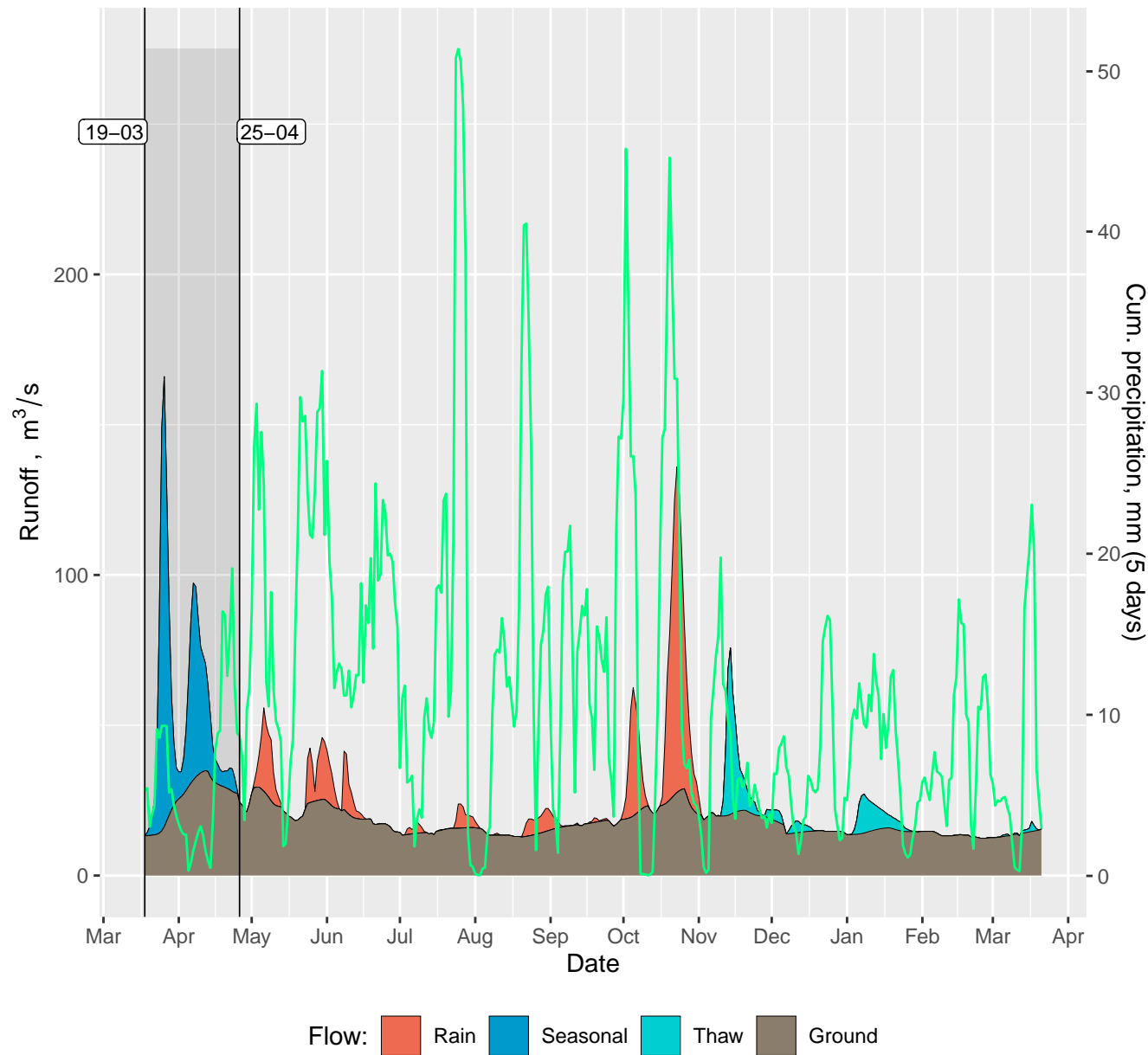
1991

1991-03-19 – 1992-03-21



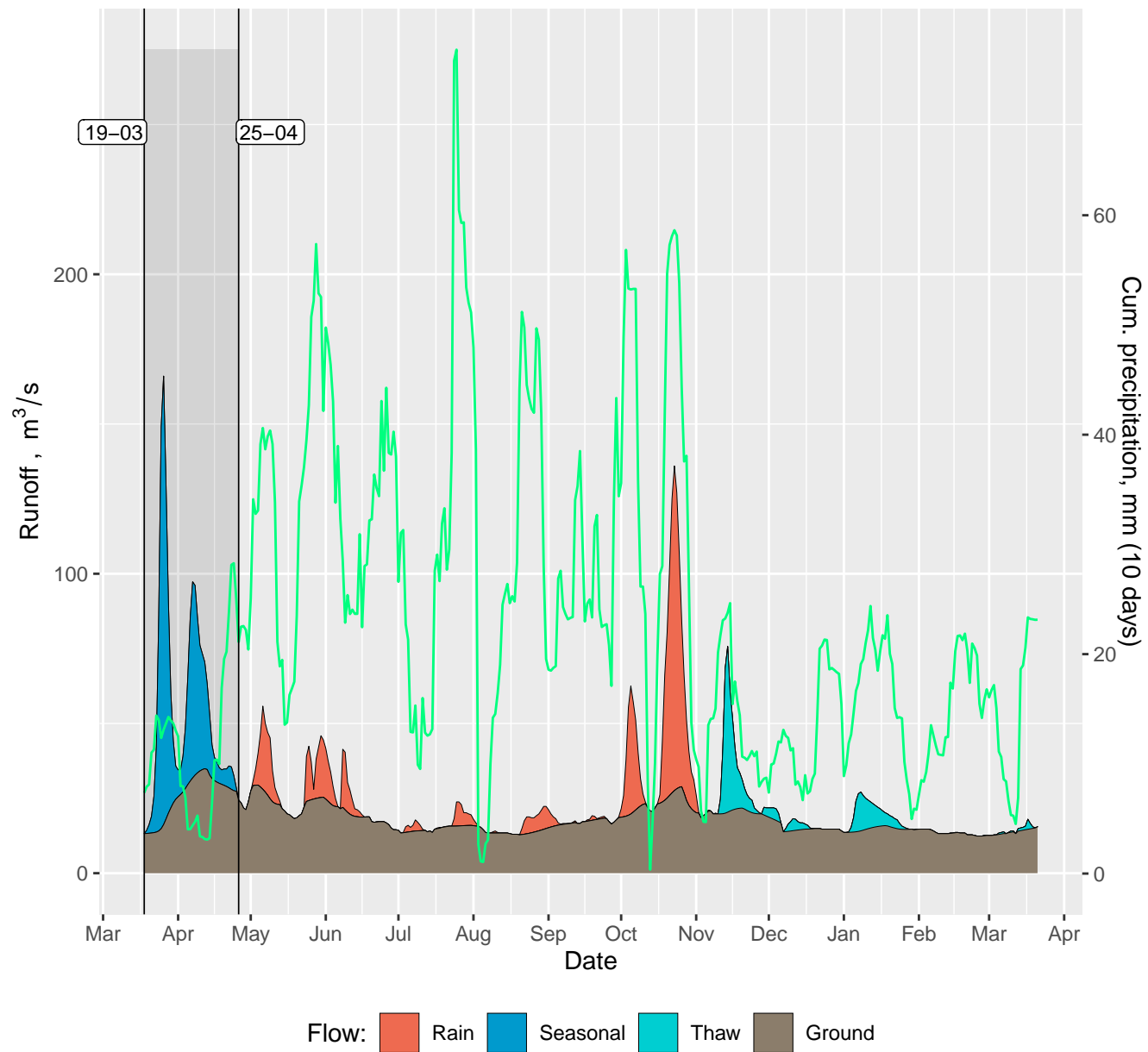
1991

1991-03-19 – 1992-03-21



1991

1991-03-19 – 1992-03-21

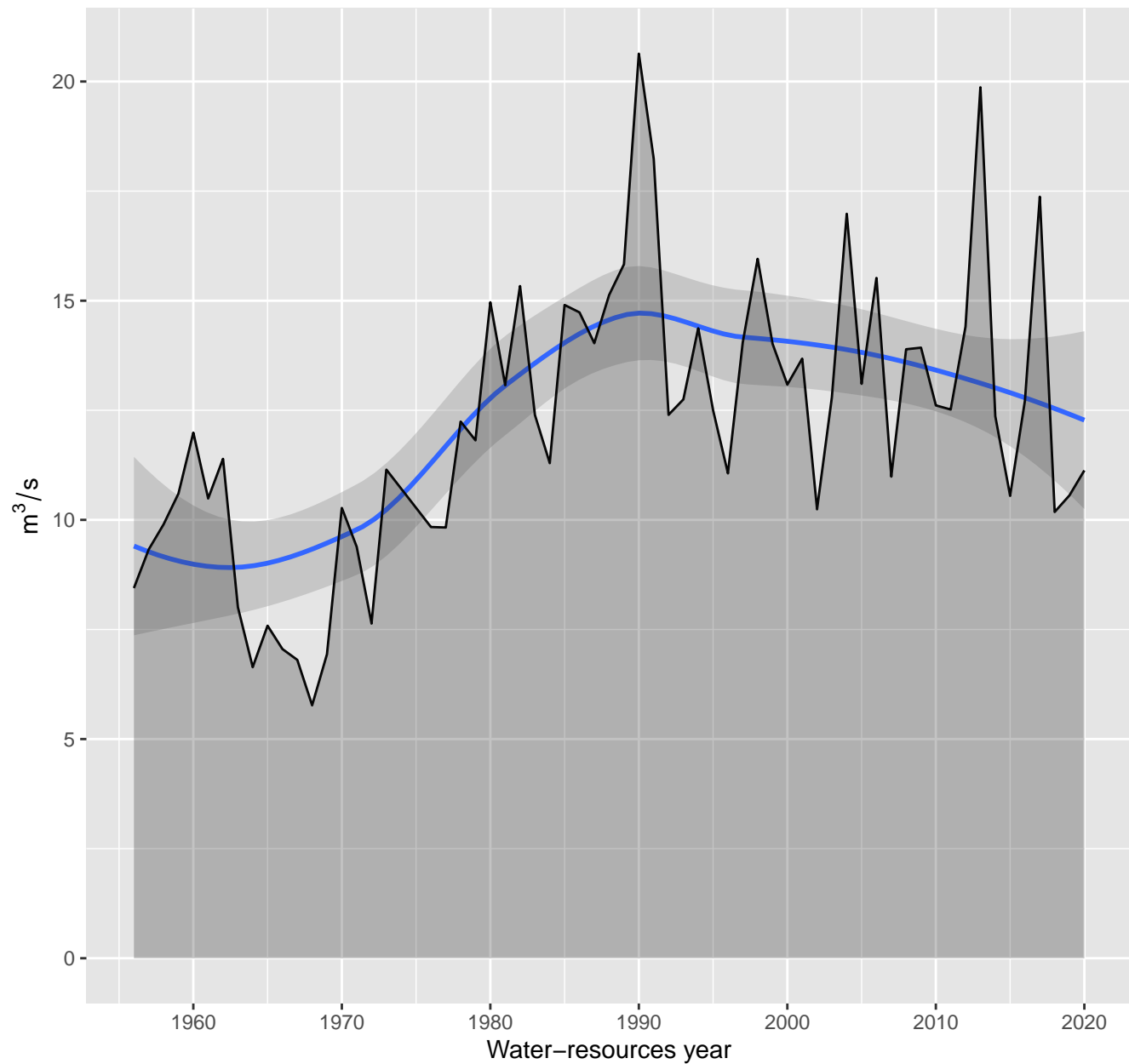


1991

1991-03-19 – 1992-03-21

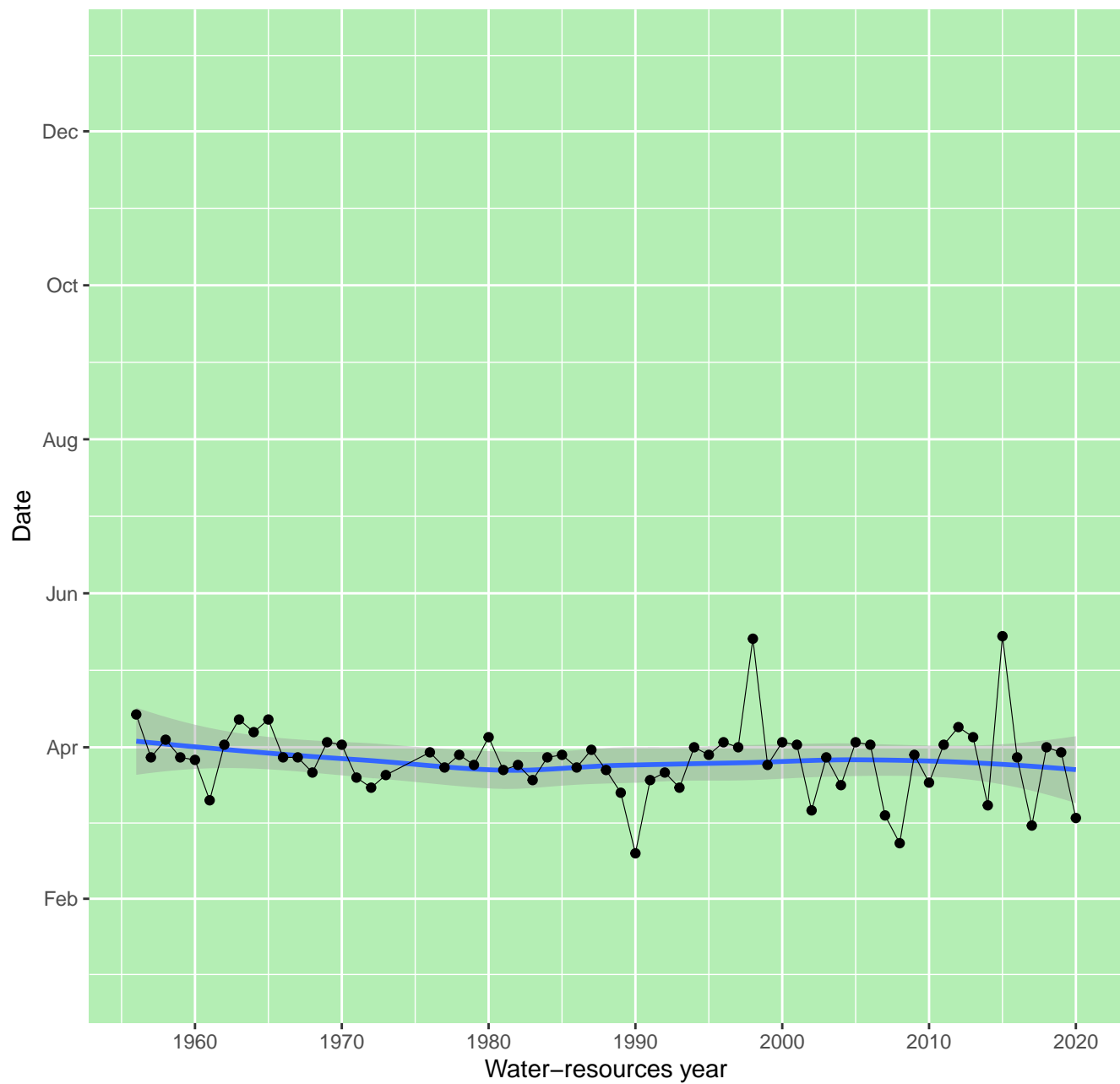


**Annual groundwater discharge ("baseflow") during water-resources year**

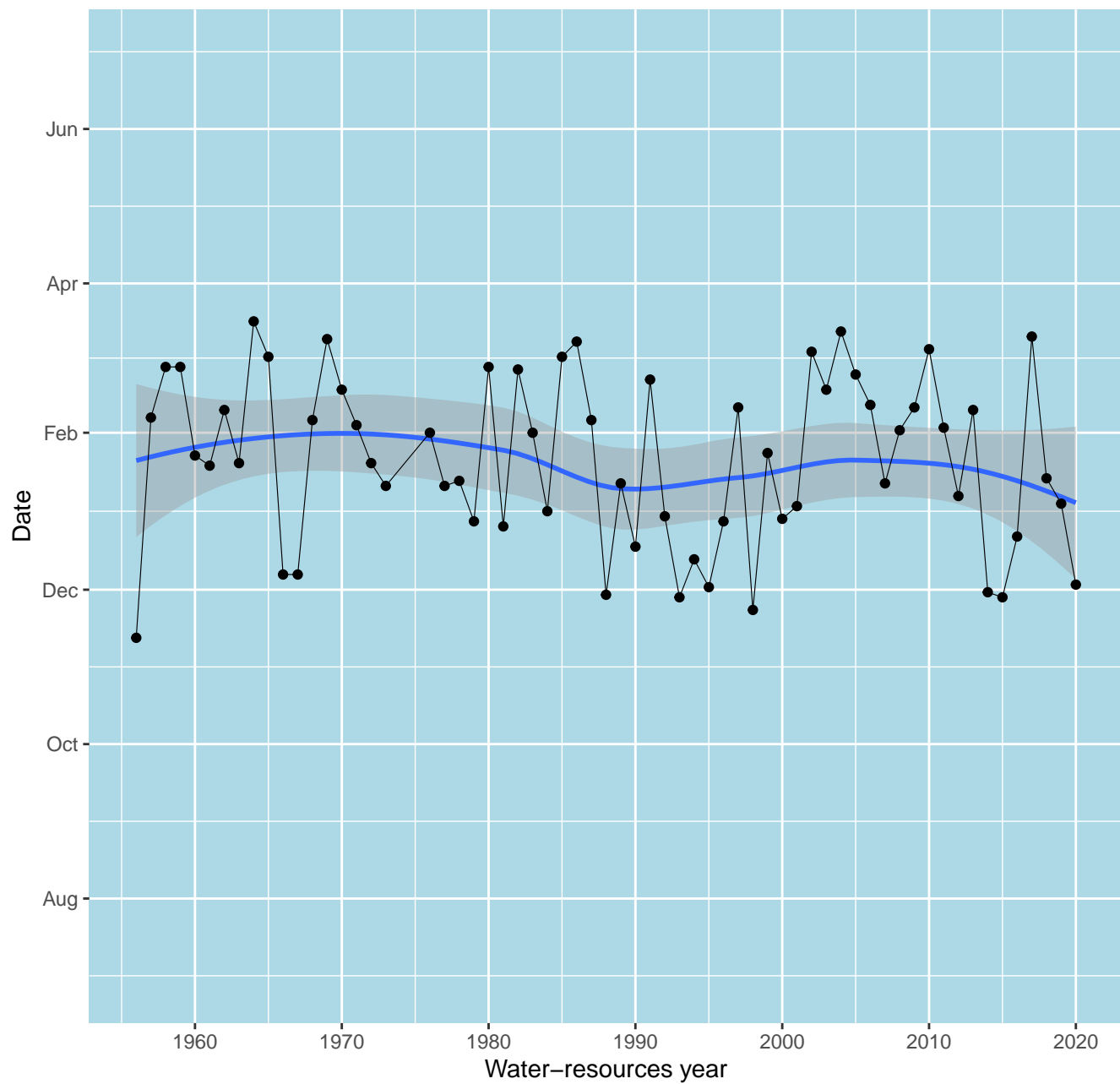




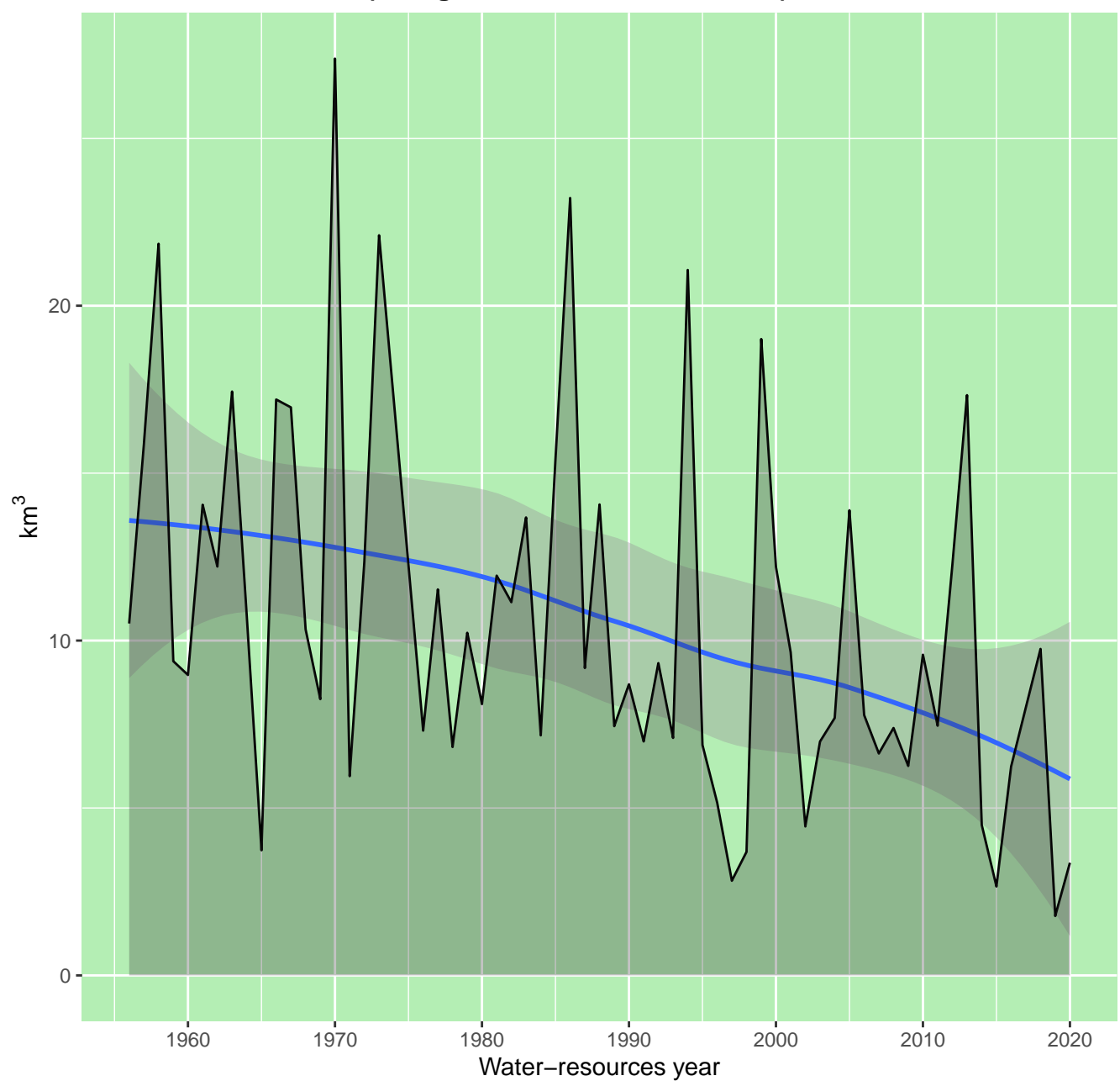
**First date of a seasonal flood wave**



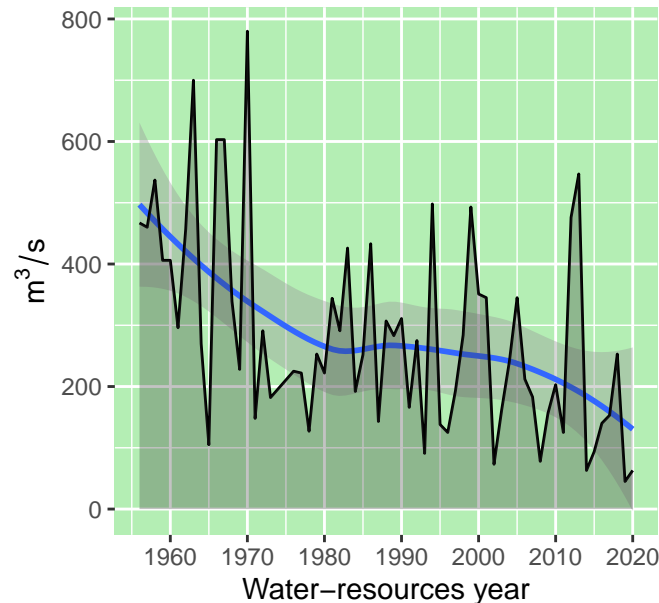
**First date of 10-day window discharge during winter**



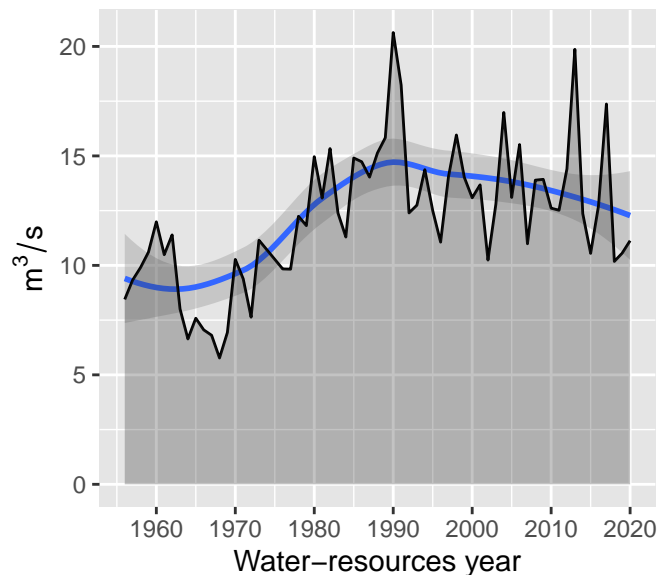
**Seasonal flood runoff (with groundwater and rainwater)**



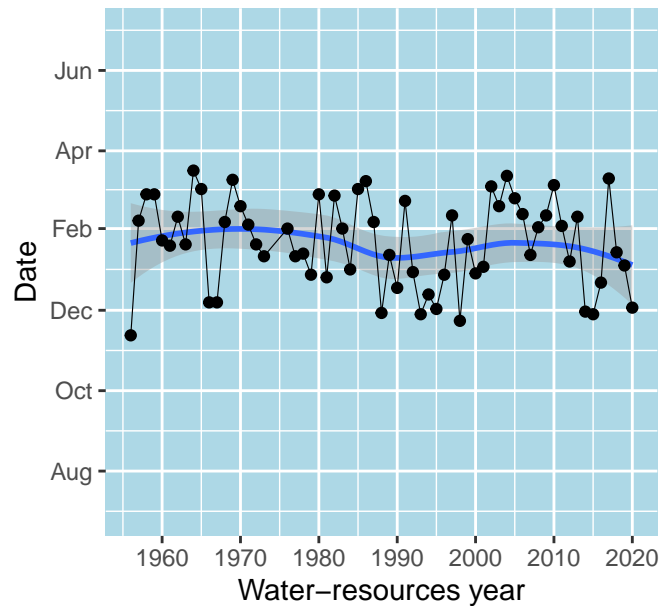
**Maximum annual discharge during snowmelt**



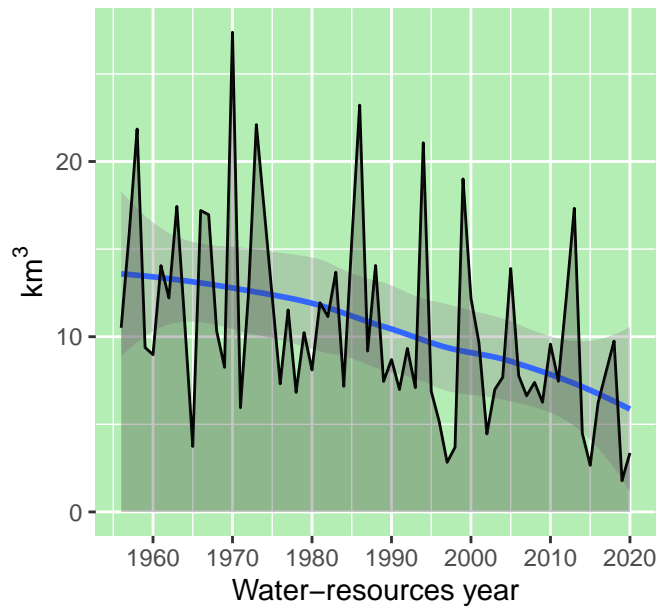
**Annual groundwater discharge ("base resources year"**



**First date of 10-day window discharge**



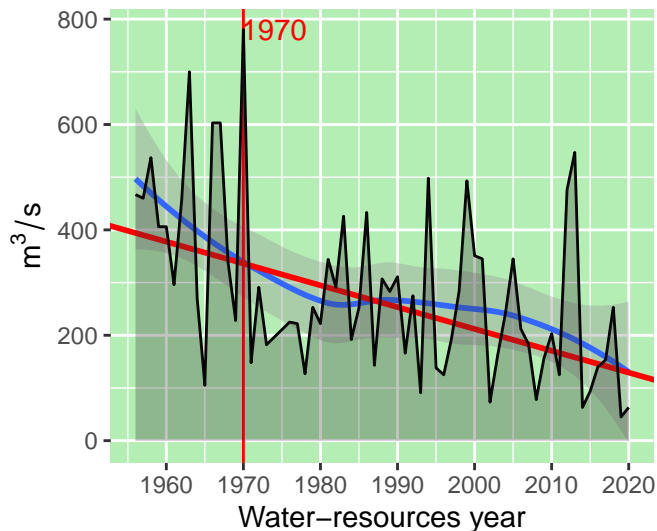
**Seasonal flood runoff (with groundwater**



### Maximum annual discharge during snowmelt

Mann–Kendall:  $z = -3.998$ ,  $p = 6e-05$

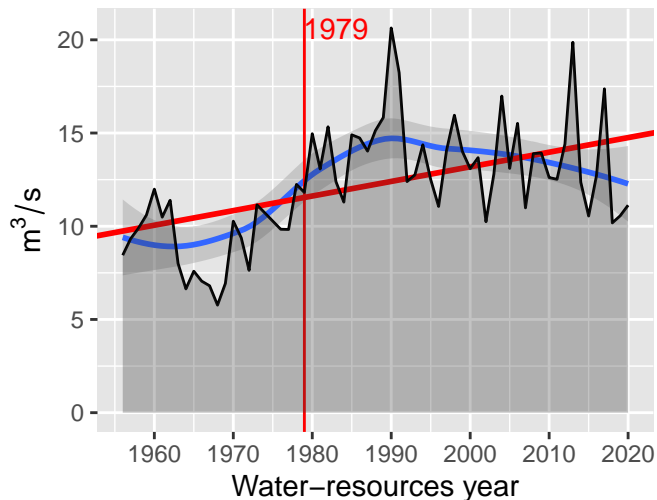
Theil–Sen:  $i = -4.14$ ,  $p = 0$ . Pettitt:  $U^* = 461$



### Annual groundwater discharge ("base flow")

Mann–Kendall:  $z = 3.843$ ,  $p = 0.00012$

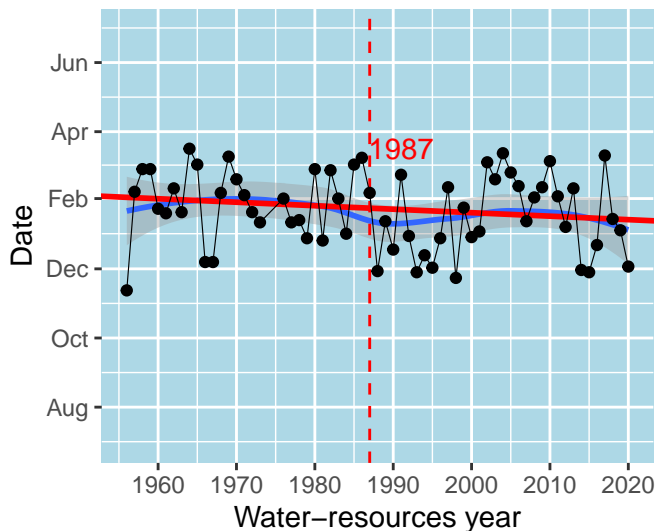
Theil–Sen:  $i = 0.07832$ ,  $p = 0$ . Pettitt:  $U^* = 80$



### First date of 10-day window discharge

Mann–Kendall:  $z = -1.133$ ,  $p = 0.25715$

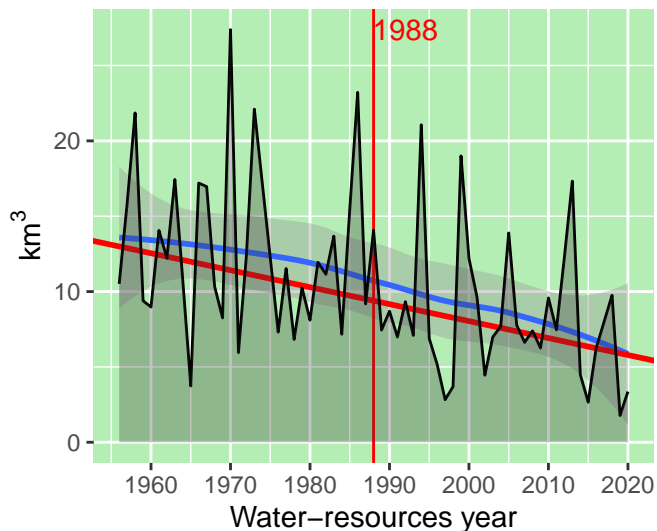
Theil–Sen:  $i = -0.30769$ ,  $p = 5e-05$ . Pettitt:



### Seasonal flood runoff (with groundwater)

Mann–Kendall:  $z = -3.594$ ,  $p = 0.00033$

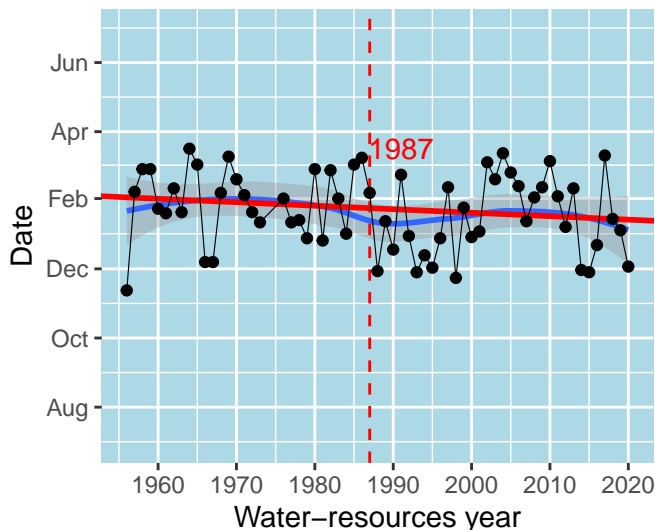
Theil–Sen:  $i = -0.1126$ ,  $p = 0$ . Pettitt:  $U^* = 52$



### First date of 10-day window discharge

Mann-Kendall:  $z = -1.133$ ,  $p = 0.25715$

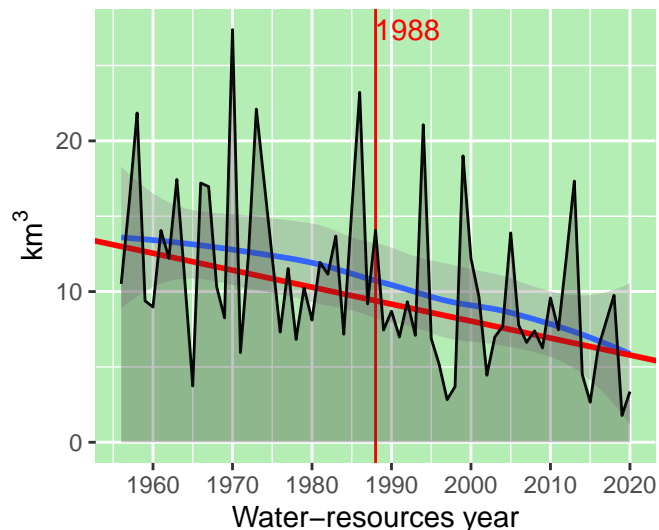
Theil-Sen:  $i = -0.30769$ ,  $p = 5e-05$ . Pettitt:



### Seasonal flood runoff (with groundwater)

Mann-Kendall:  $z = -3.594$ ,  $p = 0.00033$

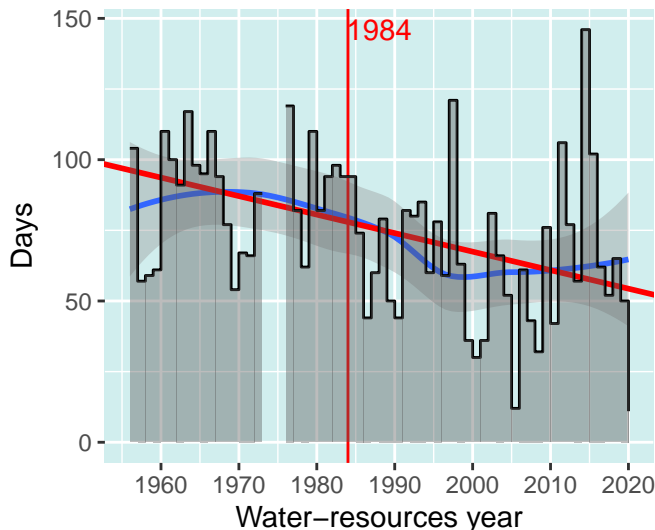
Theil-Sen:  $i = -0.1126$ ,  $p = 0$ . Pettitt:  $U^* = 52$



### Number of days with thaw-flood ever

Mann-Kendall:  $z = -3.488$ ,  $p = 0.00049$

Theil-Sen:  $i = -0.65517$ ,  $p = 0$ . Pettitt:  $U^* =$



### Maximum rain-flood discharge

Mann-Kendall:  $z = 0.302$ ,  $p = 0.76228$

Theil-Sen:  $i = 0.0339$ ,  $p = 0.41942$ . Pettitt:

