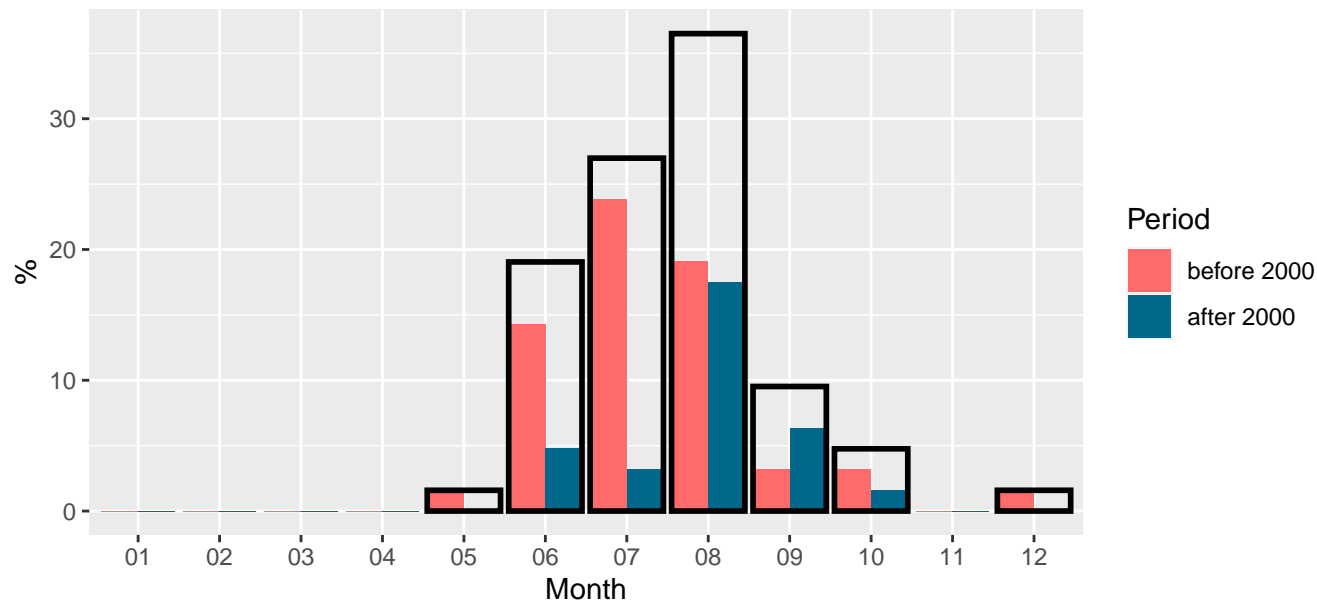
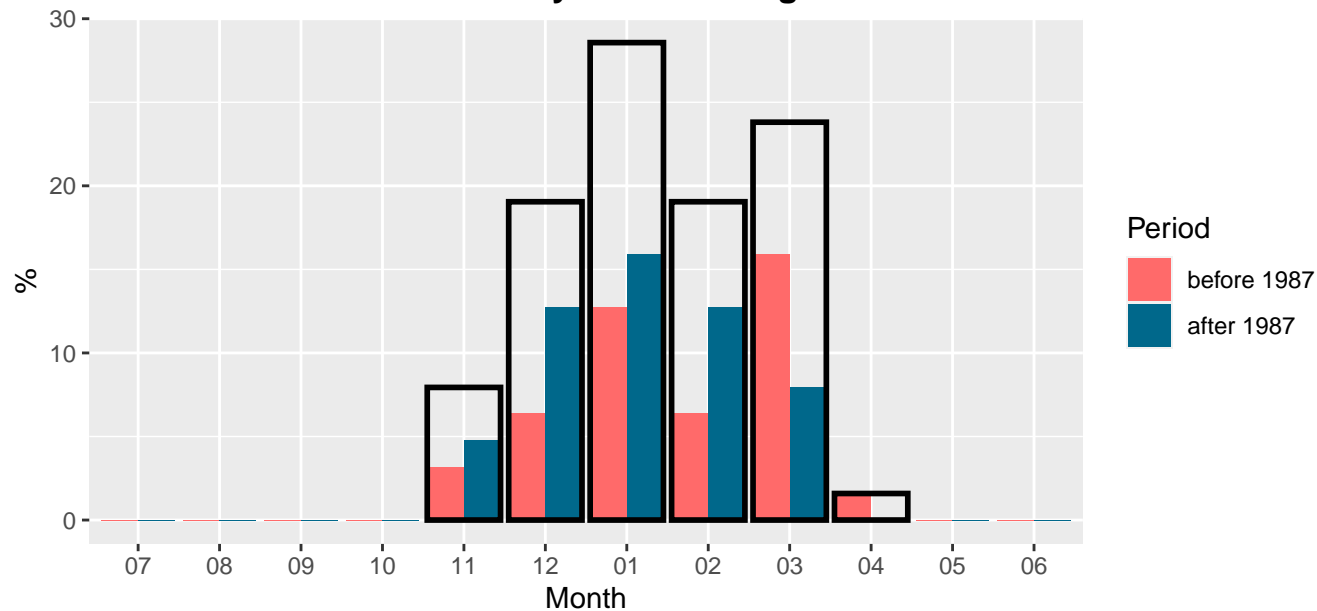


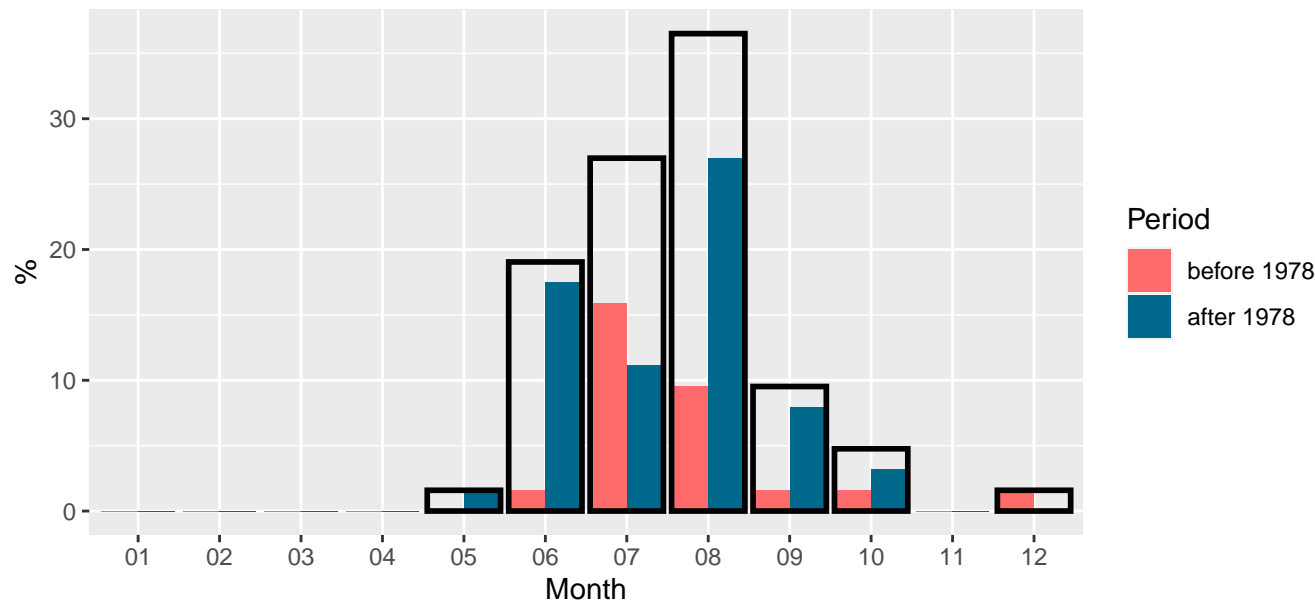
### Month of a minimum monthly runoff during summer



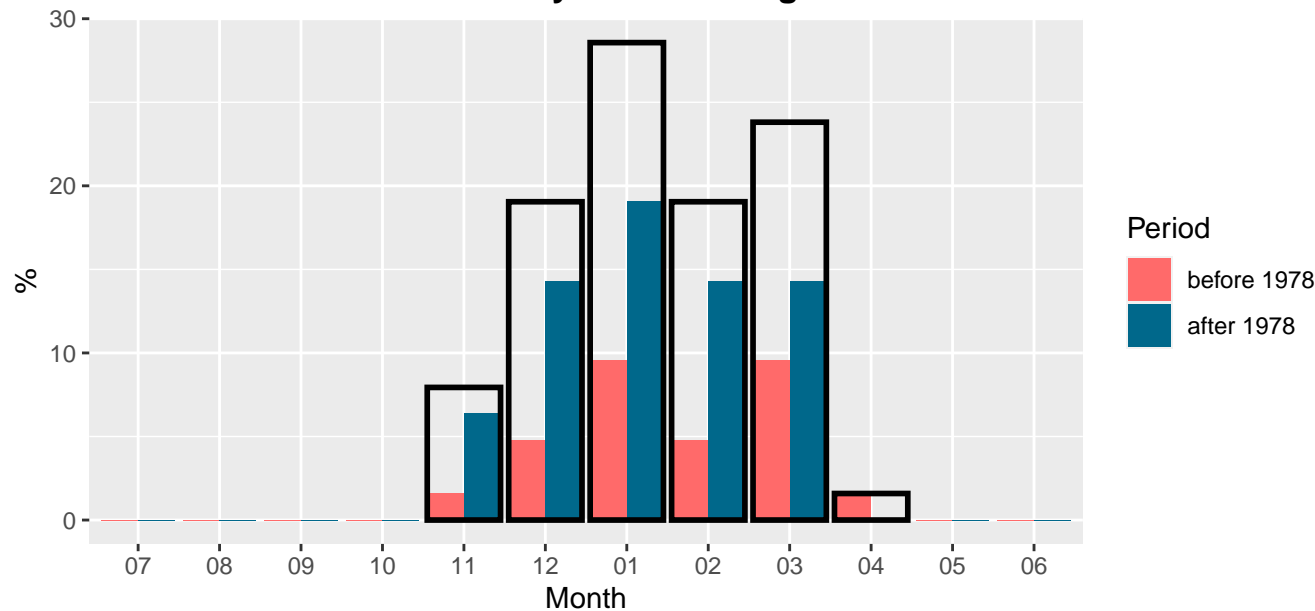
### Month of a minimum monthly runoff during winter



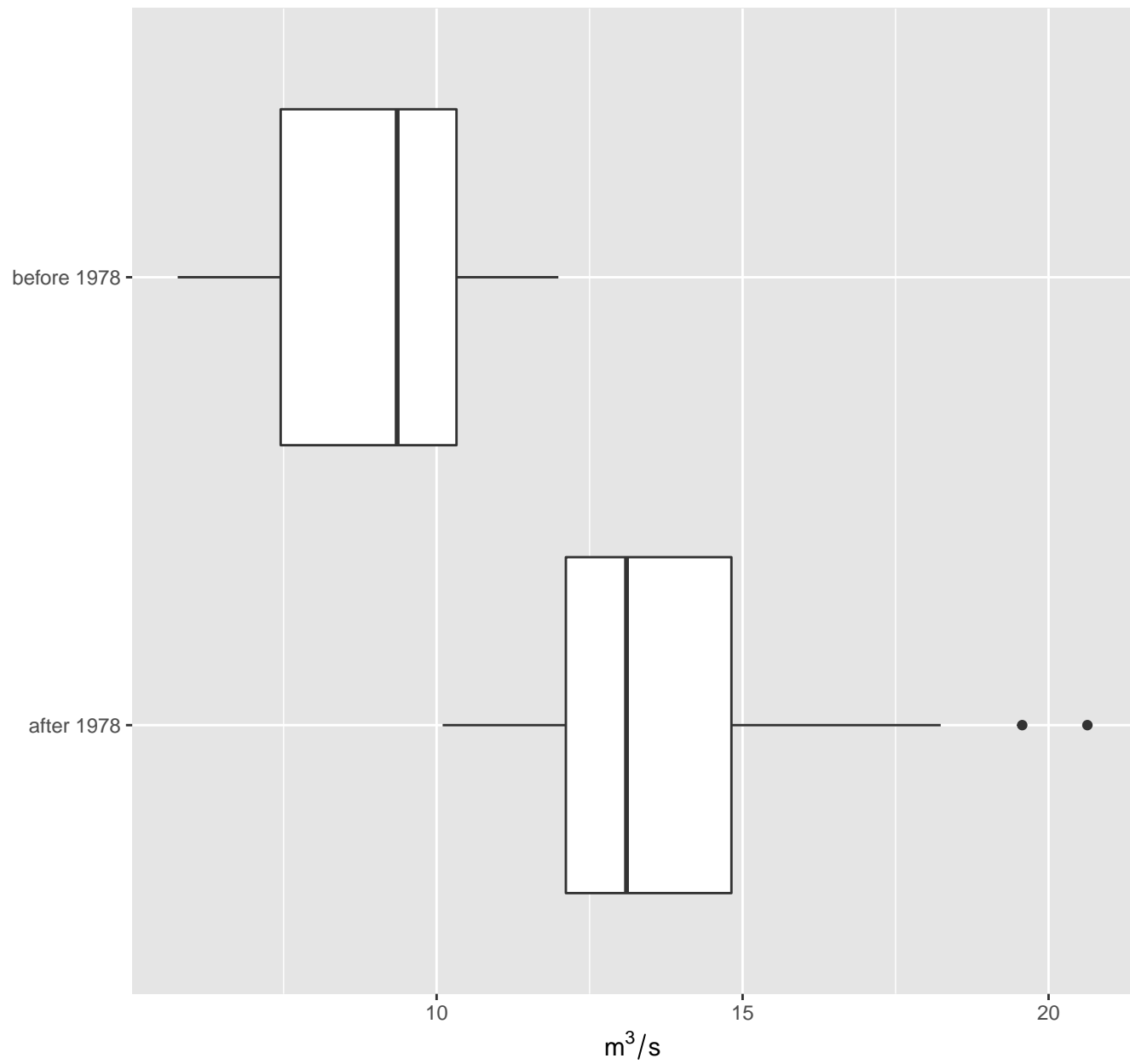
**Month of a minimum monthly runoff during summer**



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



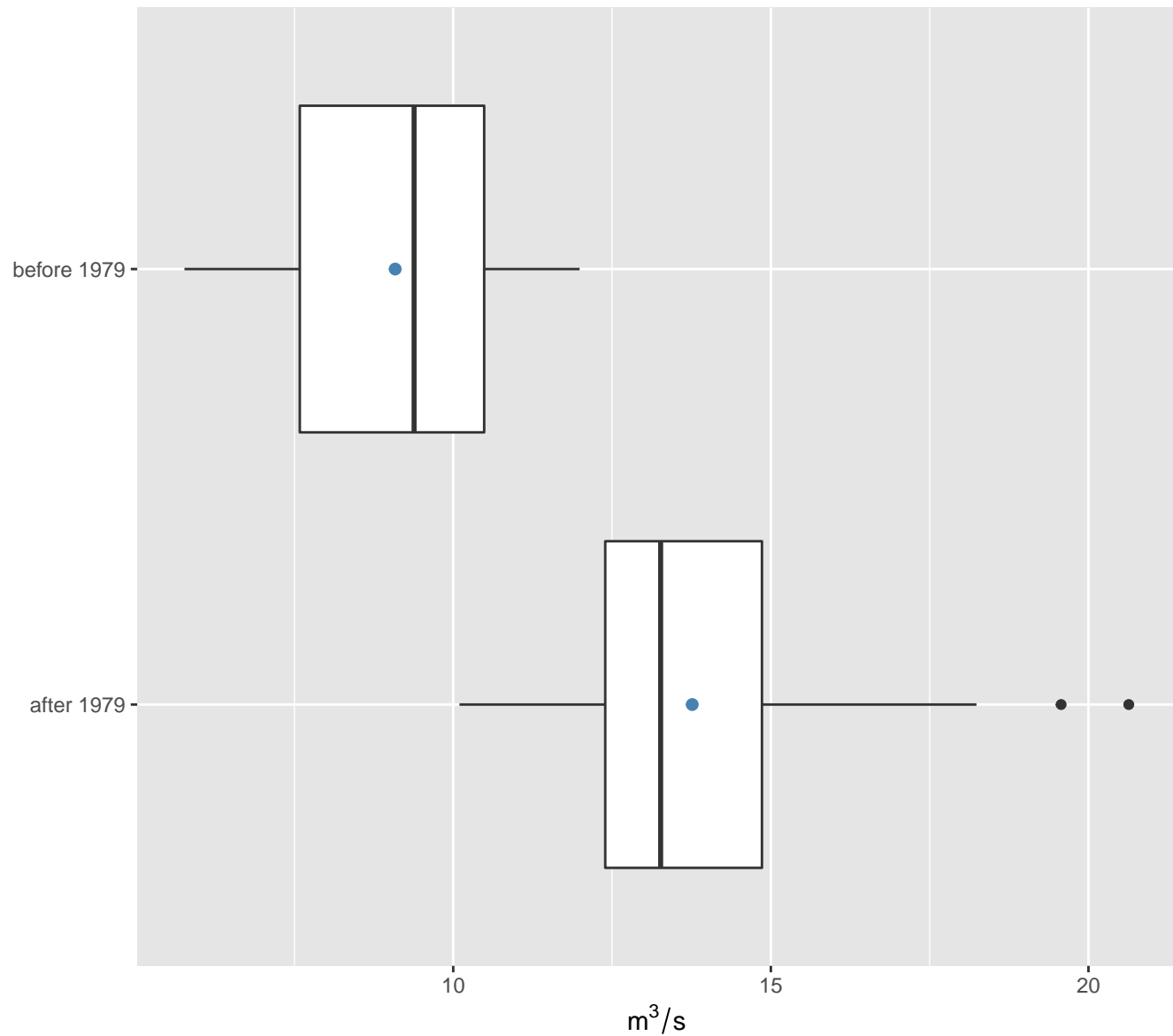
# Annual groundwater discharge ("baseflow") during water-resources year



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

Student:  $t = -8.345$ ,  $p = 0$ ,  $m1 = 9.086$ ,  $m2 = 13.762$

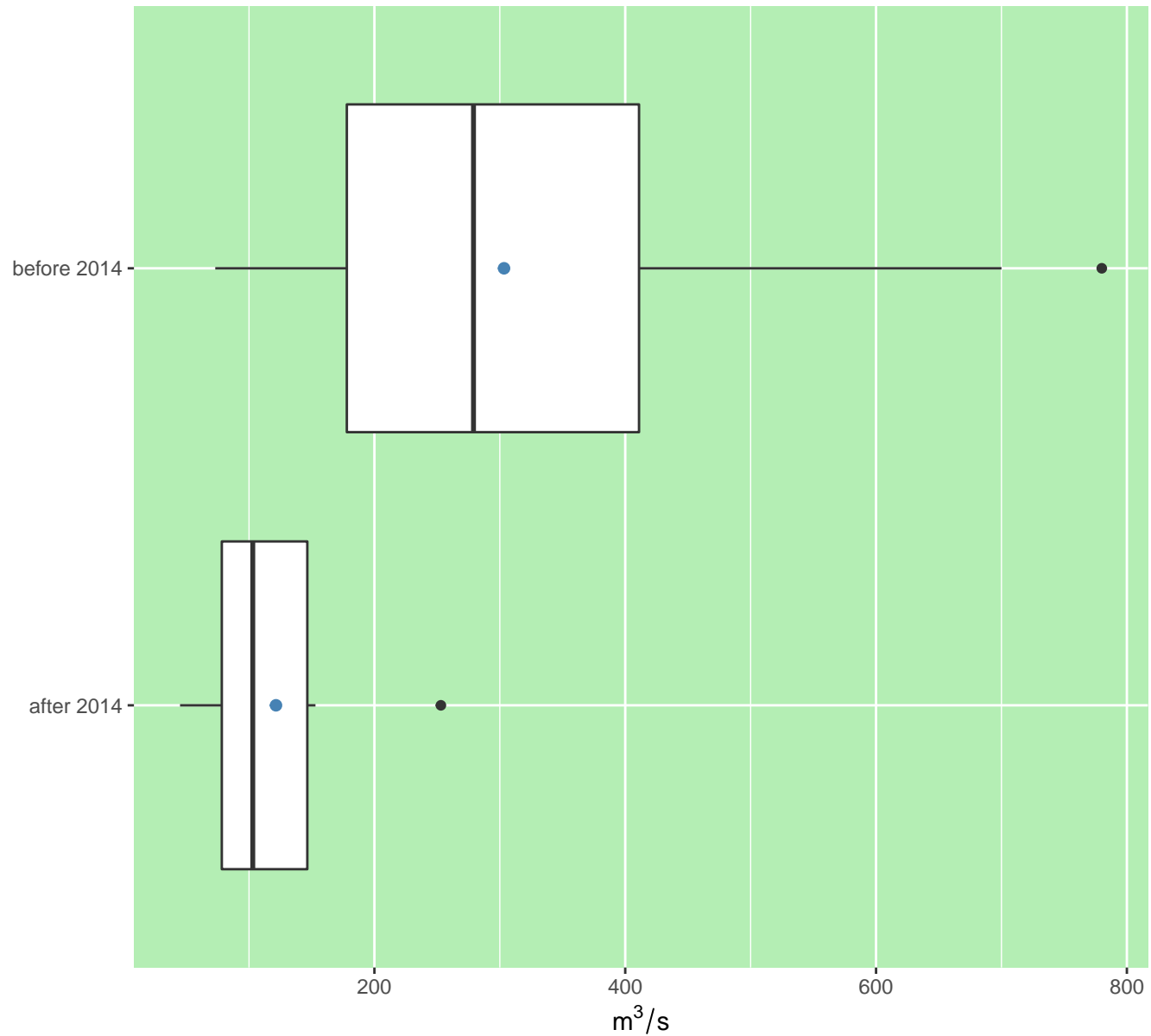
Fisher:  $F = 0.564$ ,  $p = 0.16994$ ,  $cv1 = 0.206$ ,  $cv2 = 0.181$



# Maximum annual discharge during seasonal flood wave

Student:  $t = 1.522$ ,  $p = 0.15035$ ,  $m1 = 303.355$ ,  $m2 = 121.514$

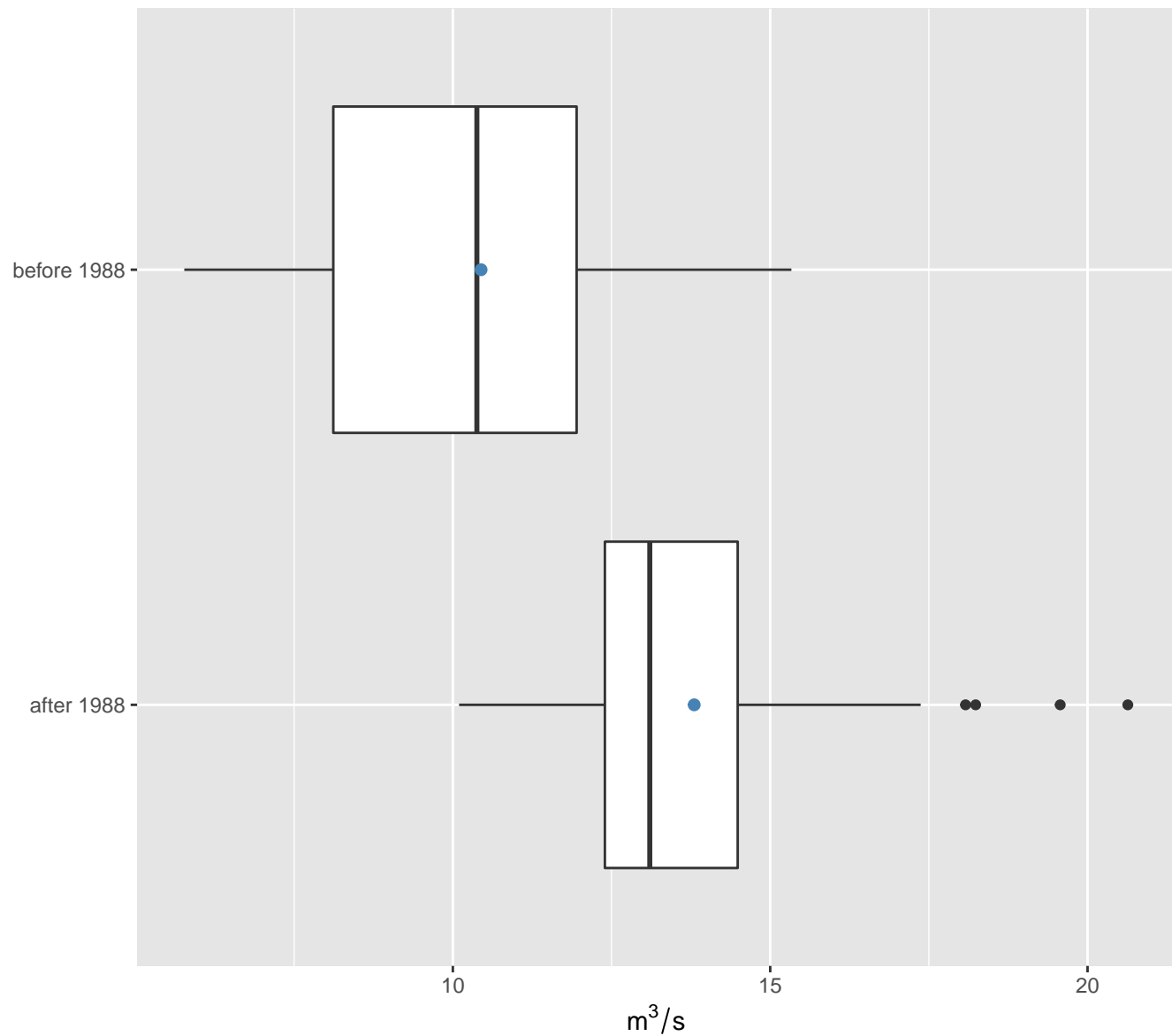
Fisher:  $F = 4.39$ ,  $p = 0.06808$ ,  $cv1 = 0.539$ ,  $cv2 = 0.572$



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

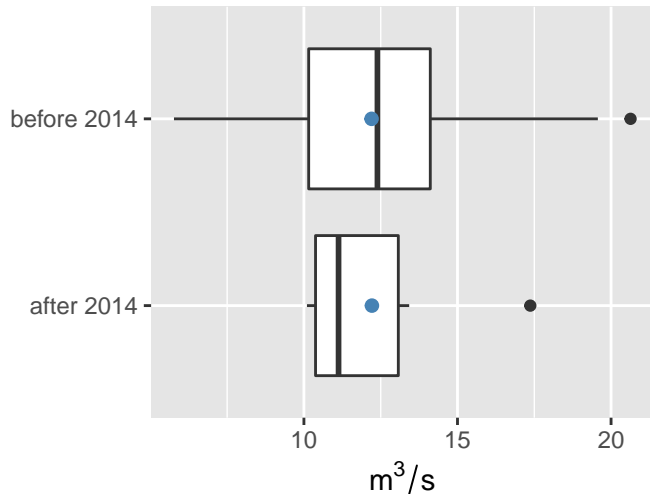
Student:  $t = 3.628$ ,  $p = 0.00062$ ,  $m1 = 10.445$ ,  $m2 = 13.803$

Fisher:  $F = 1.498$ ,  $p = 0.26643$ ,  $cv1 = 0.262$ ,  $cv2 = 0.197$



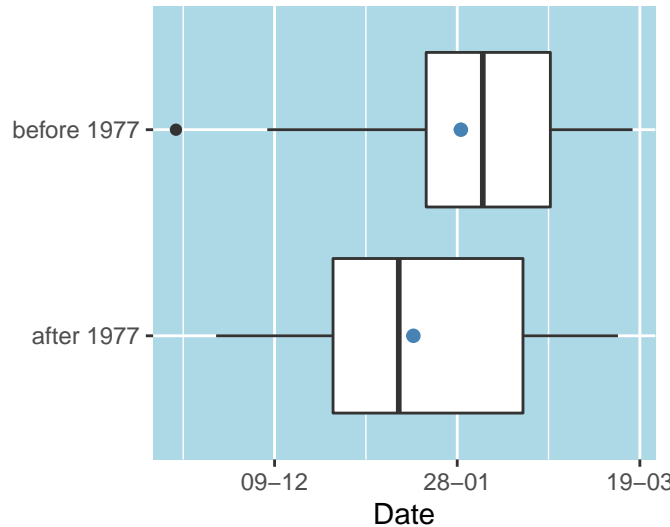
### Annual groundwater discharge ("b resources year

Student:  $t = 1.522$ ,  $p = 0.15035$ ,  $m1 = 1$   
 Fisher:  $F = 4.39$ ,  $p = 0.06808$ ,  $cv1 = 0.2$



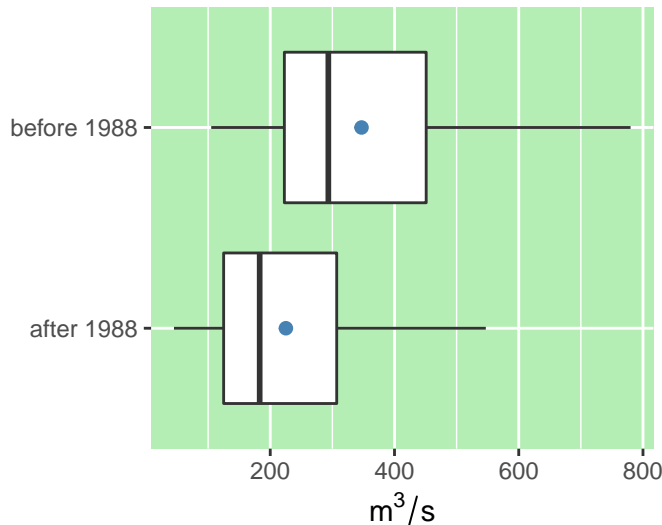
### First date of 10-day window discharge

Student:  $t = -2.654$ ,  $p = 0.01382$ ,  $m1 = 2$   
 Fisher:  $F = 2.545$ ,  $p = 0.01236$ ,  $cv1 = 0.1$



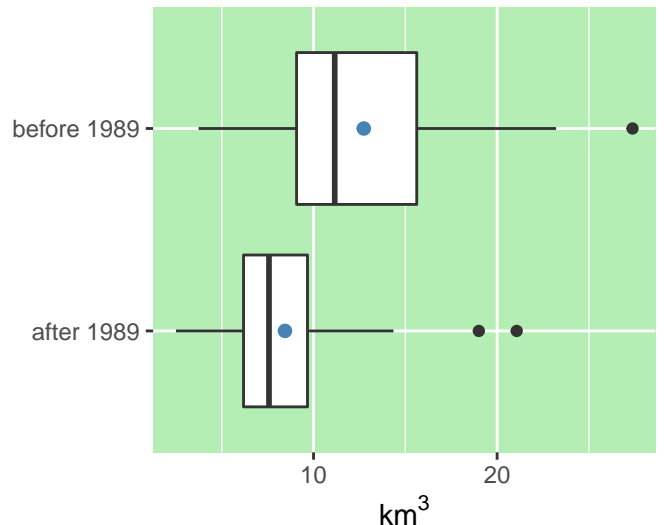
### Maximum annual discharge during

Student:  $t = 3.628$ ,  $p = 0.00062$ ,  $m1 = 3$   
 Fisher:  $F = 1.498$ ,  $p = 0.26643$ ,  $cv1 = 0.1$



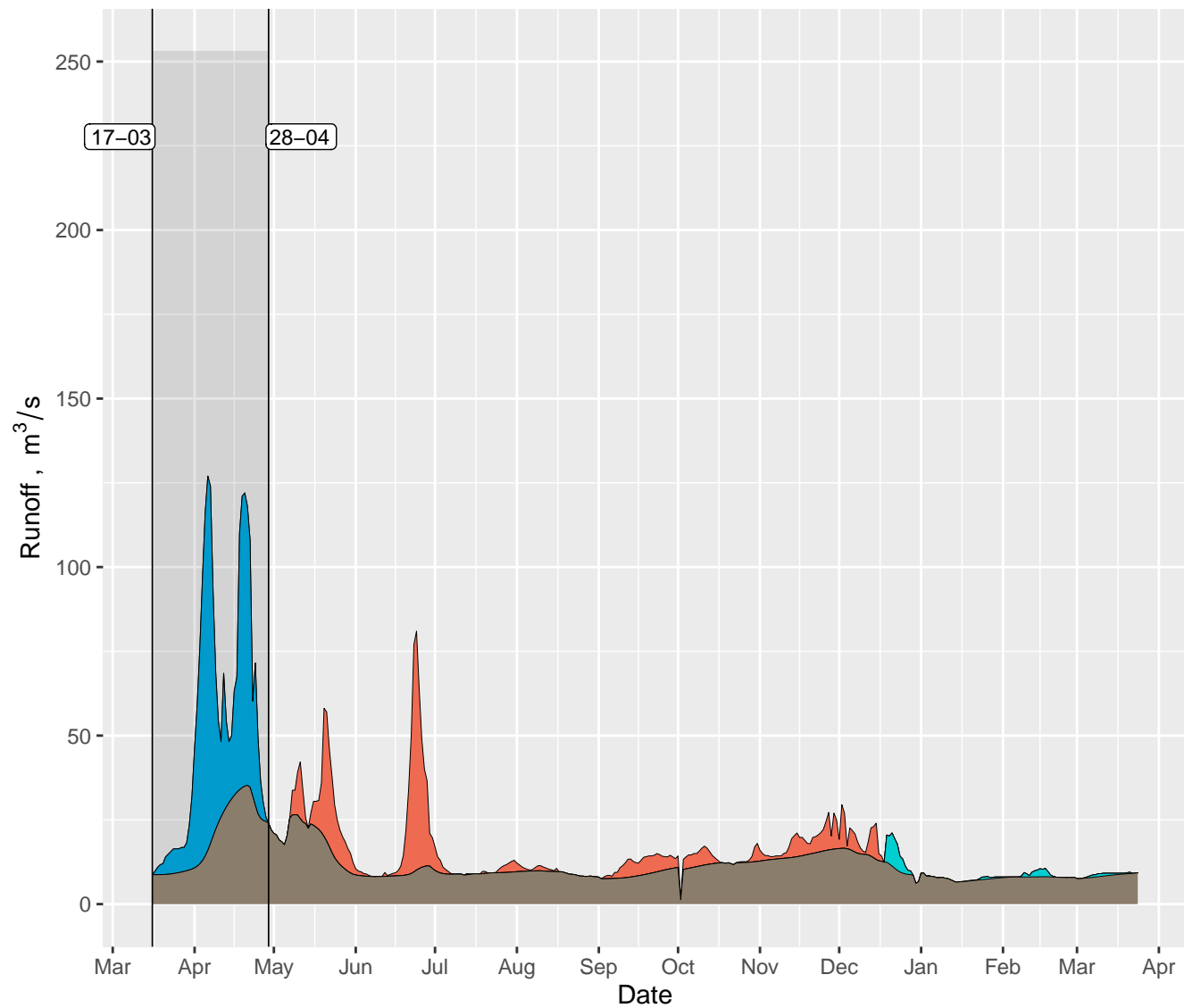
### Seasonal flood runoff (with ground

Student:  $t = 3.467$ ,  $p = 0.00101$ ,  $m1 = 12$   
 Fisher:  $F = 1.636$ ,  $p = 0.17875$ ,  $cv1 = 0.1$



**1978**

1978-03-17 – 1979-03-24

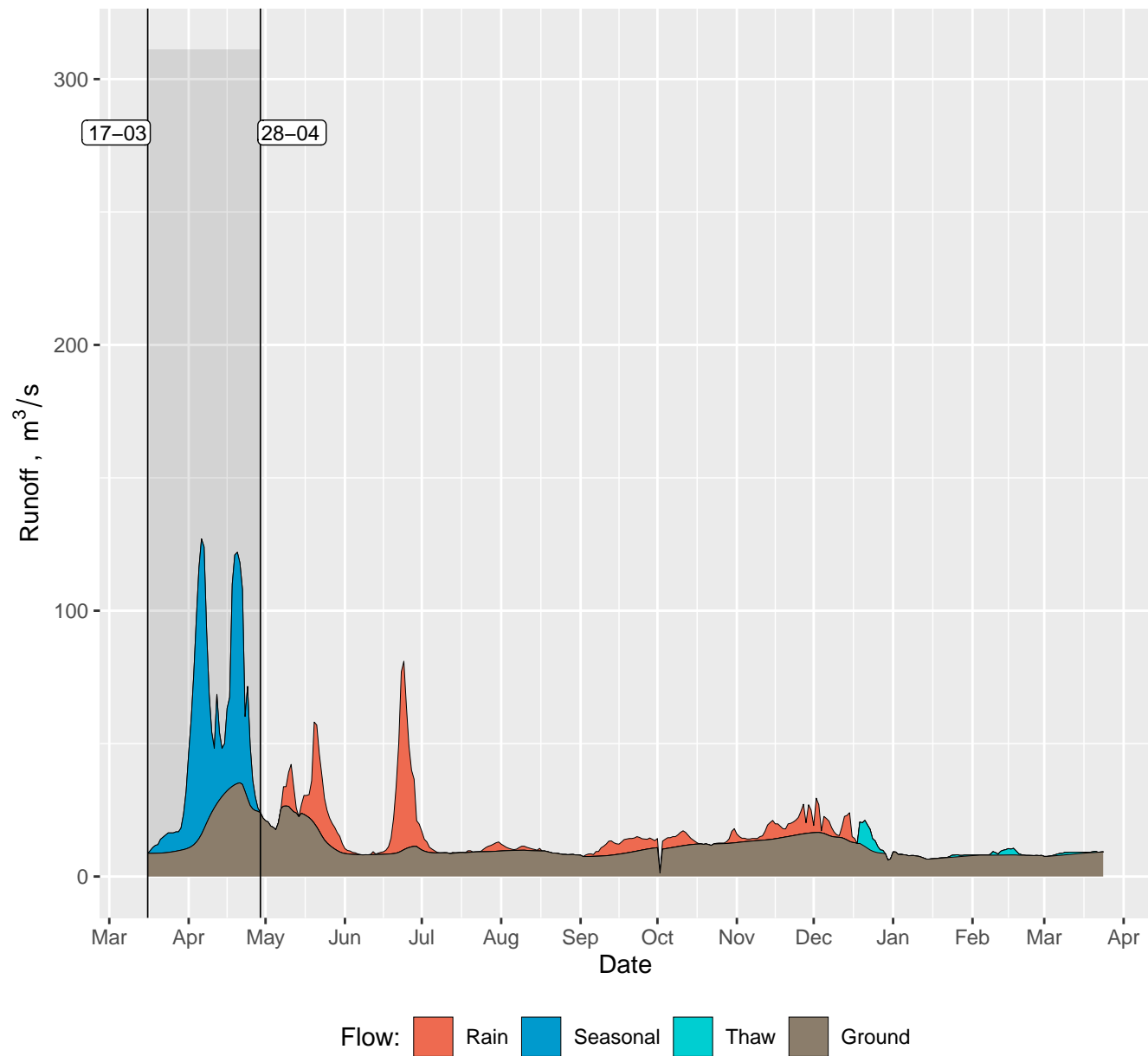


Flow: Rain Seasonal Thaw Ground



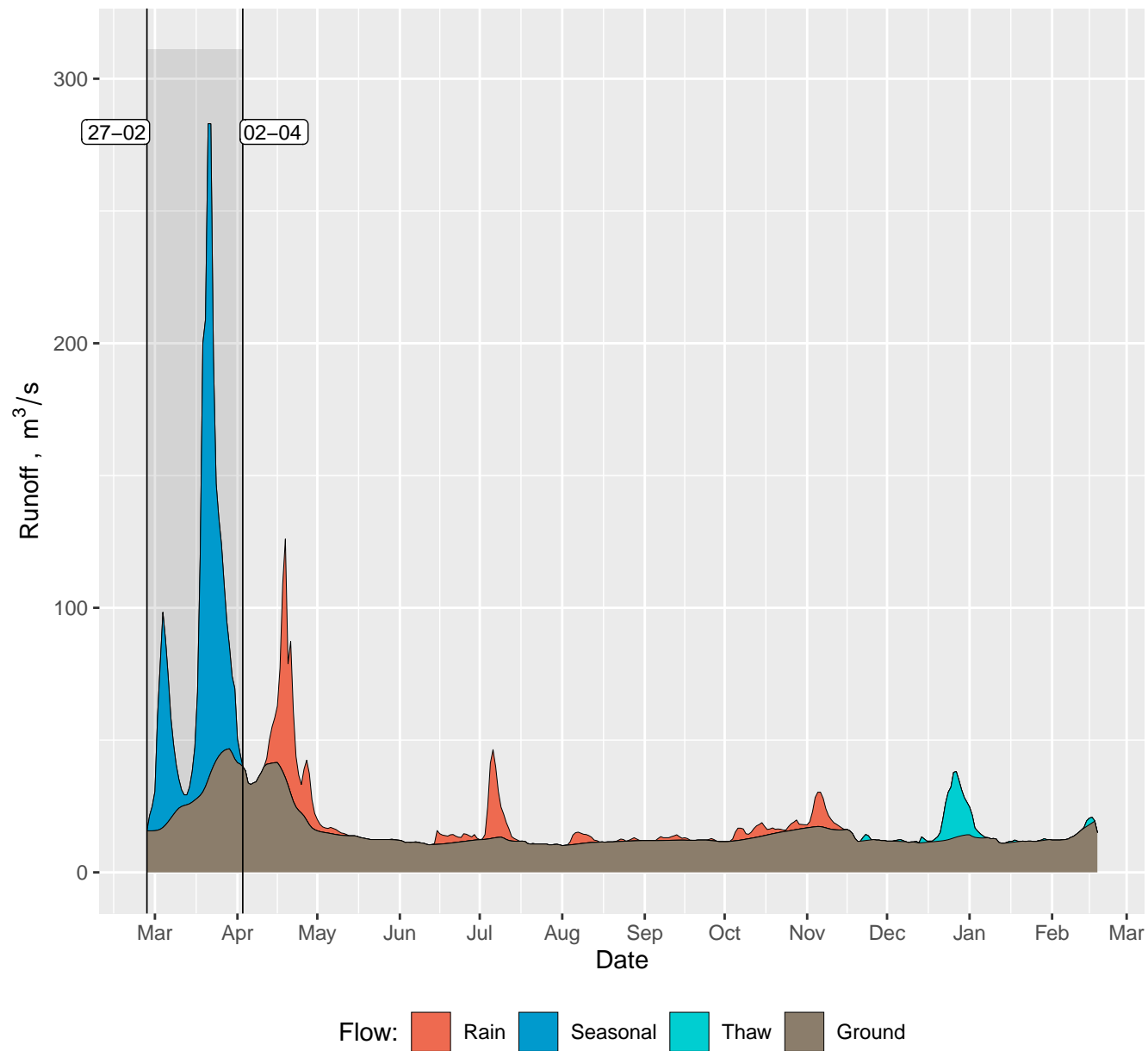
**1978**

1978-03-17 – 1979-03-24



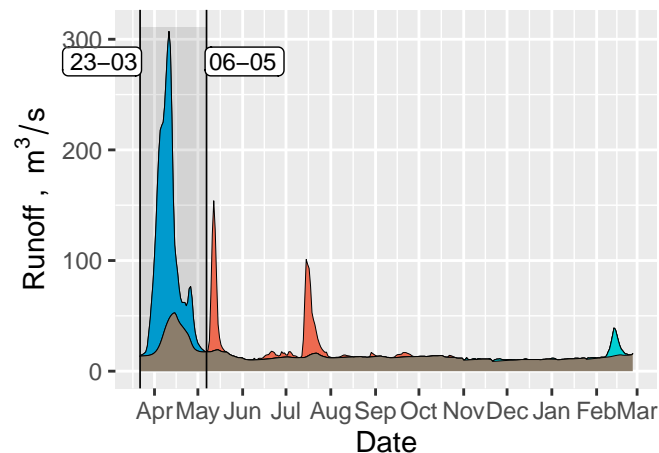
1989

1989-02-27 – 1990-02-18

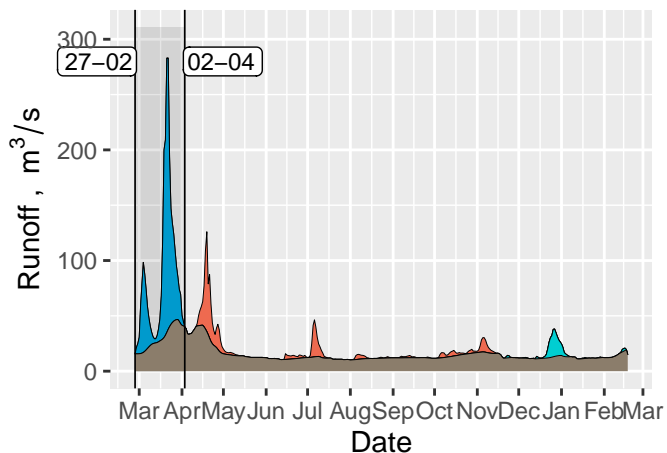


**1988**

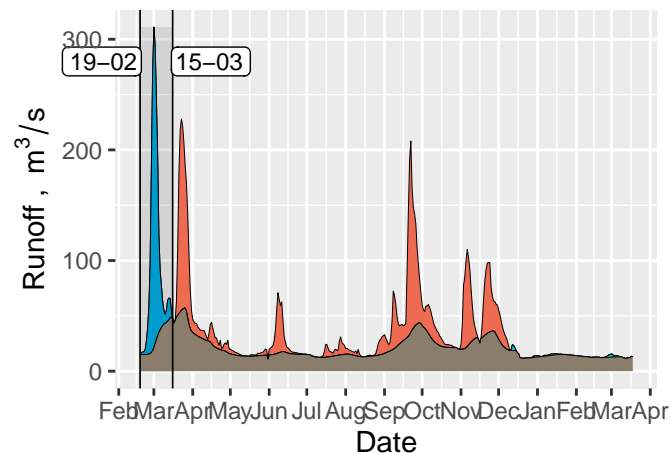
1988-03-23 – 1989-02-26

**1989**

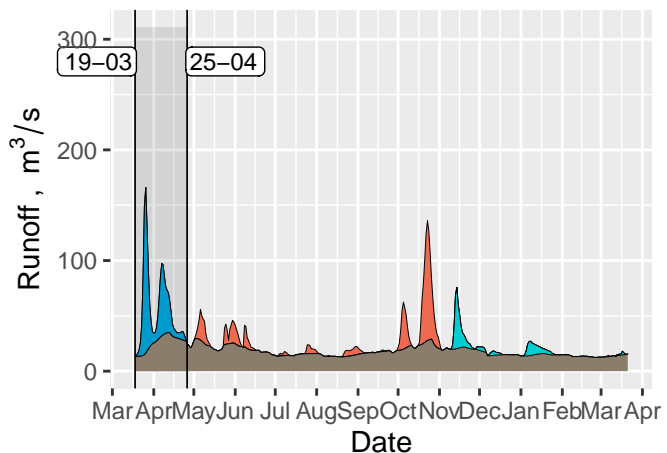
1989-02-27 – 1990-02-18

**1990**

1990-02-19 – 1991-03-18

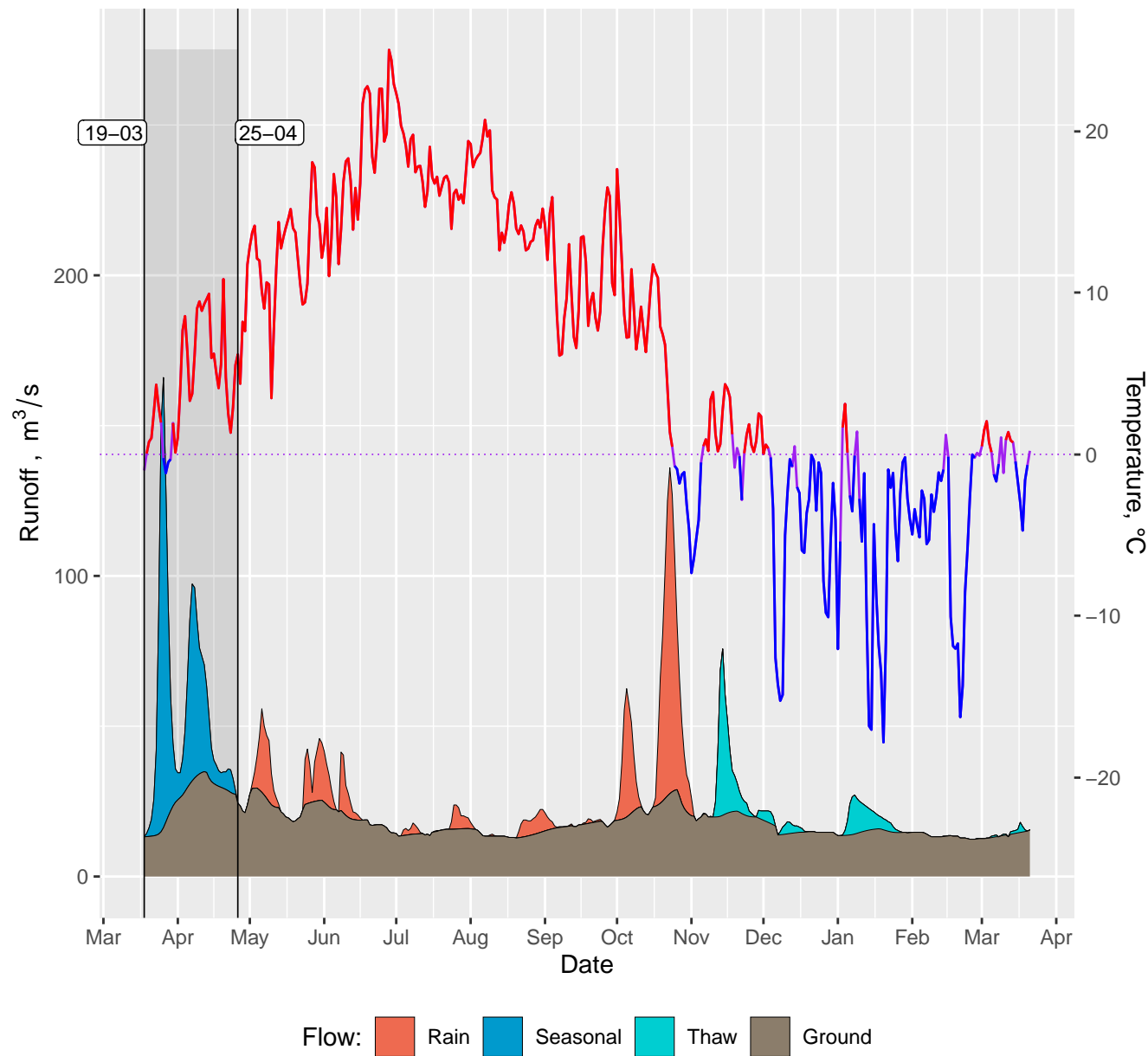
**1991**

1991-03-19 – 1992-03-21



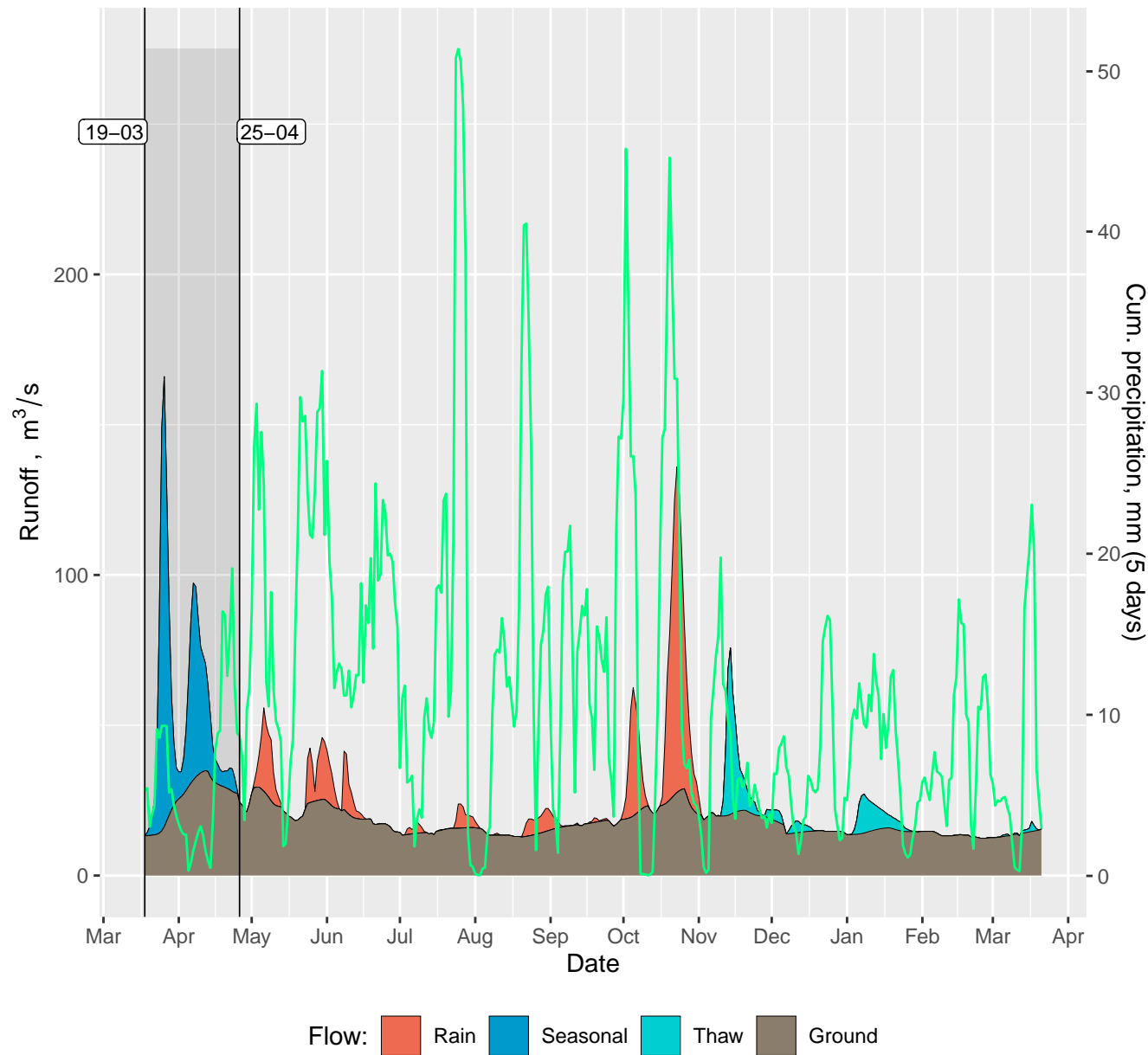
1991

1991-03-19 – 1992-03-21



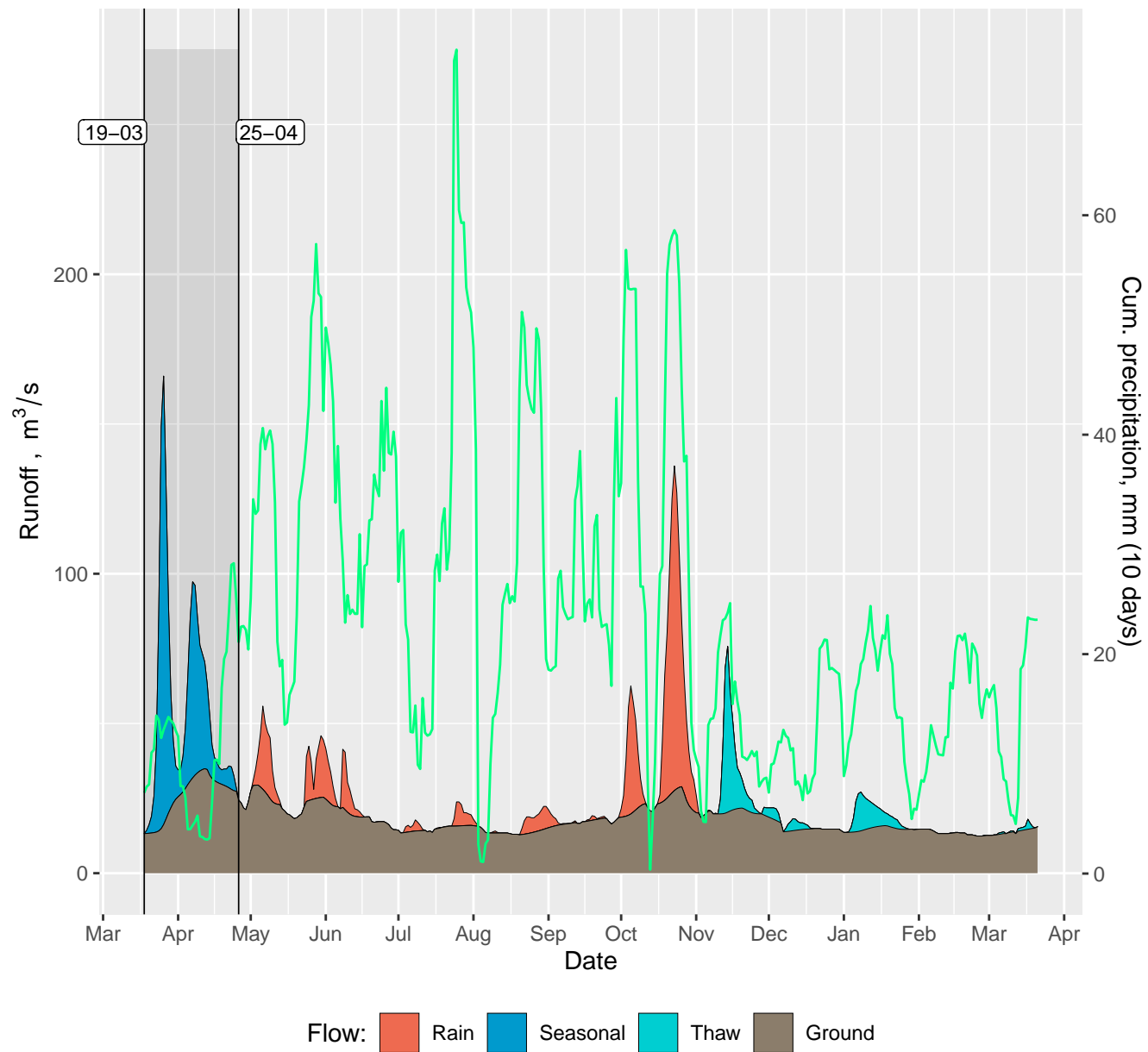
1991

1991-03-19 – 1992-03-21



1991

1991-03-19 – 1992-03-21

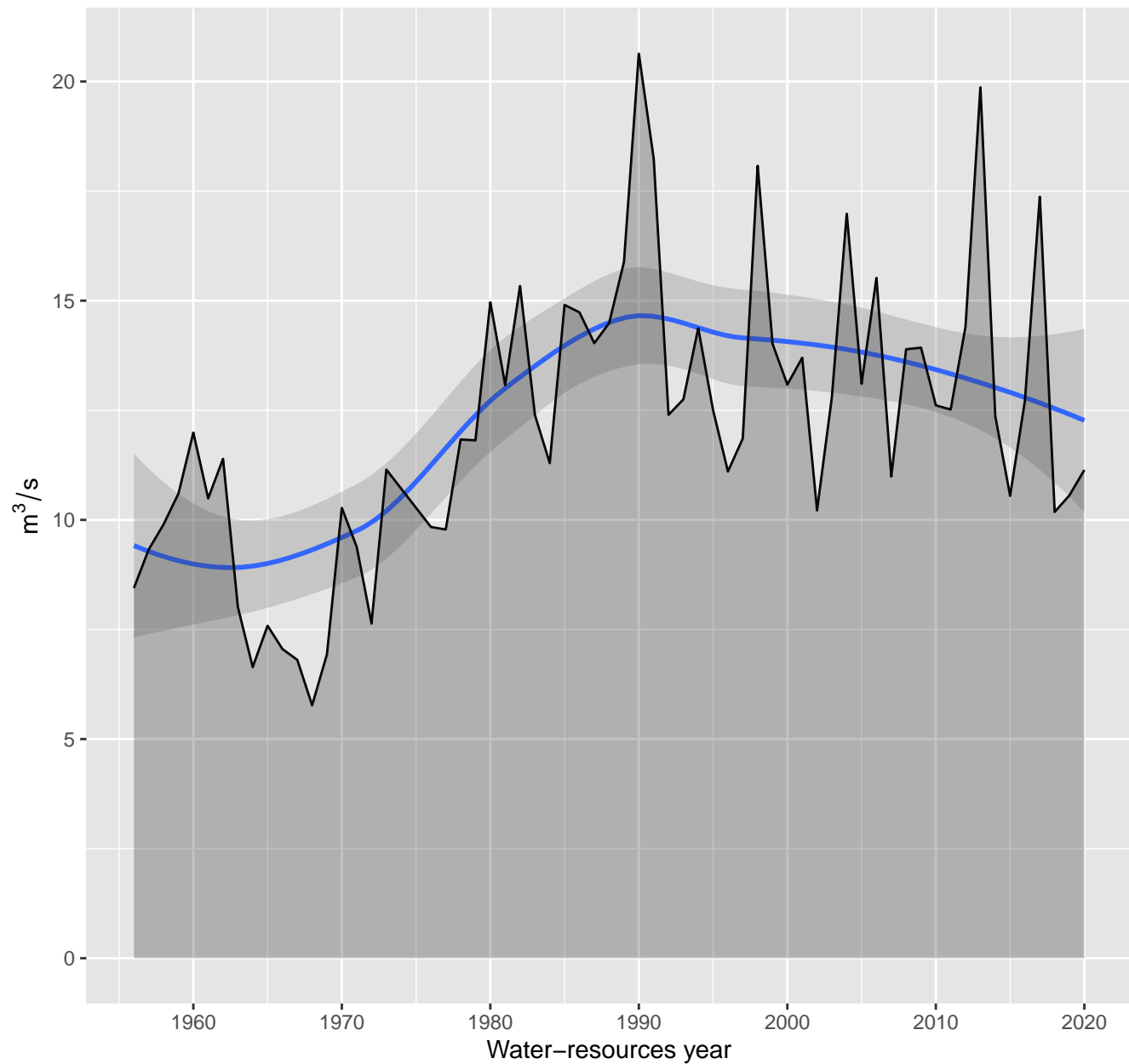


1991

1991-03-19 - 1992-03-21

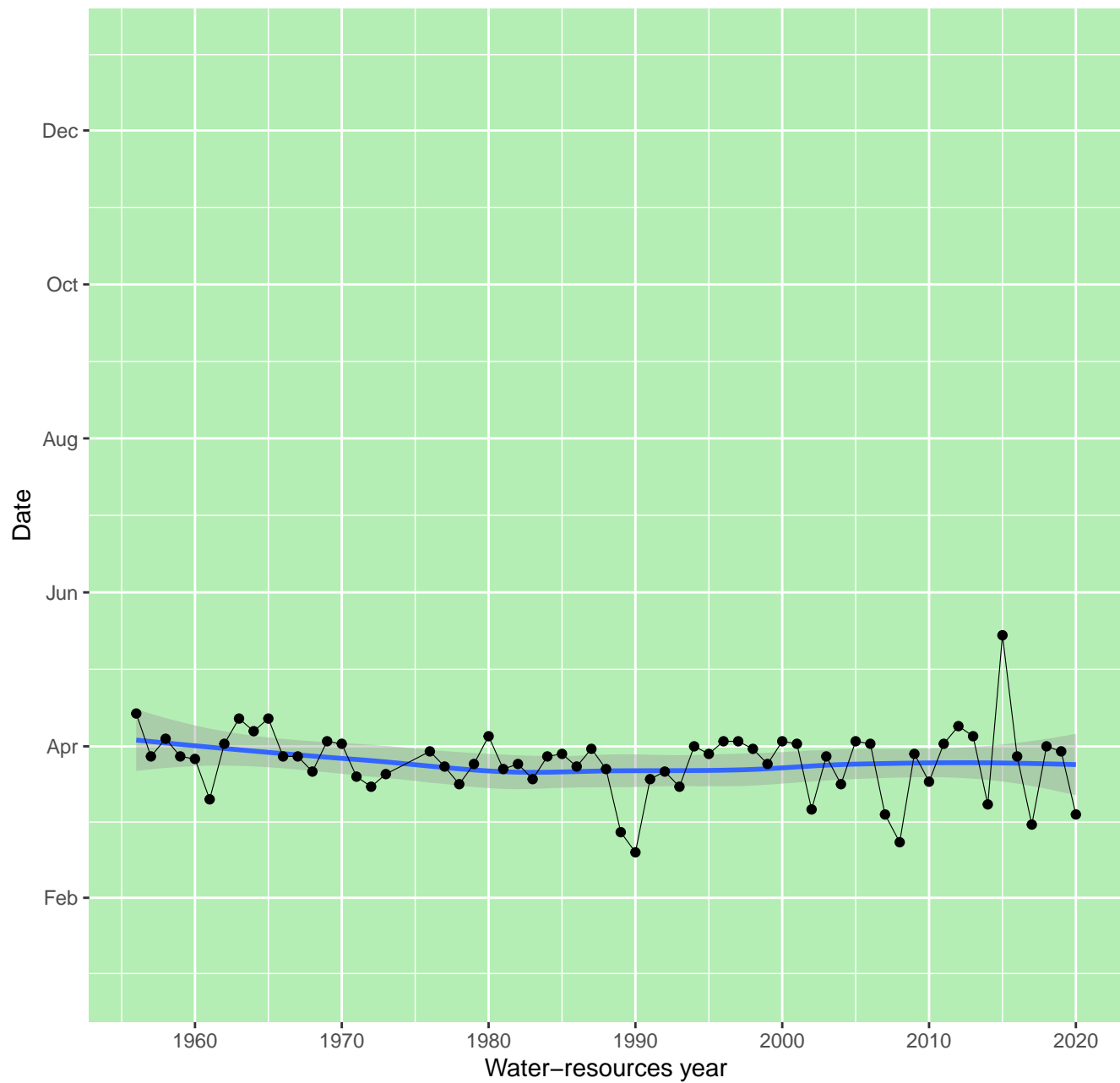


**Annual groundwater discharge ("baseflow") during water-resources year**

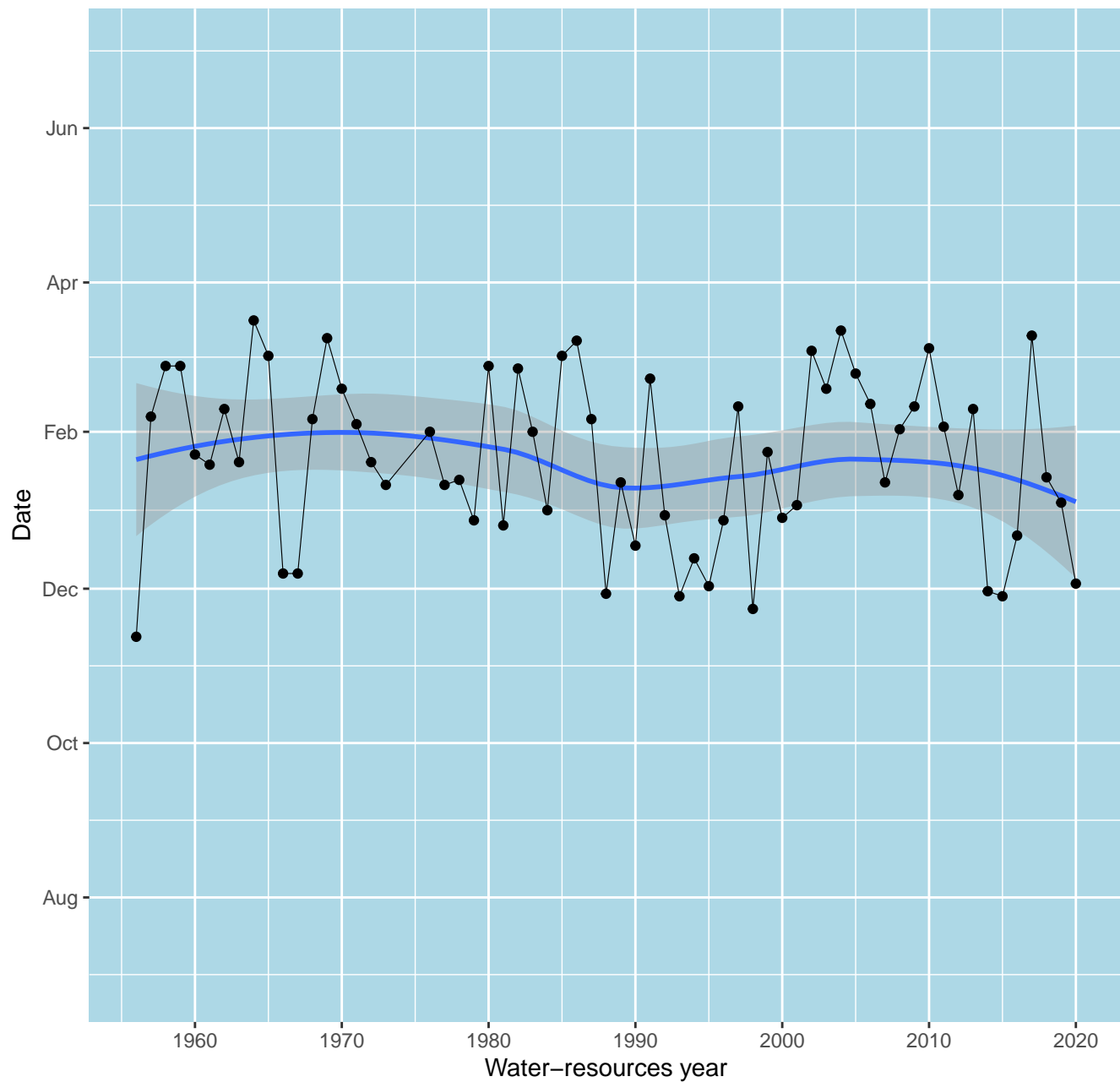




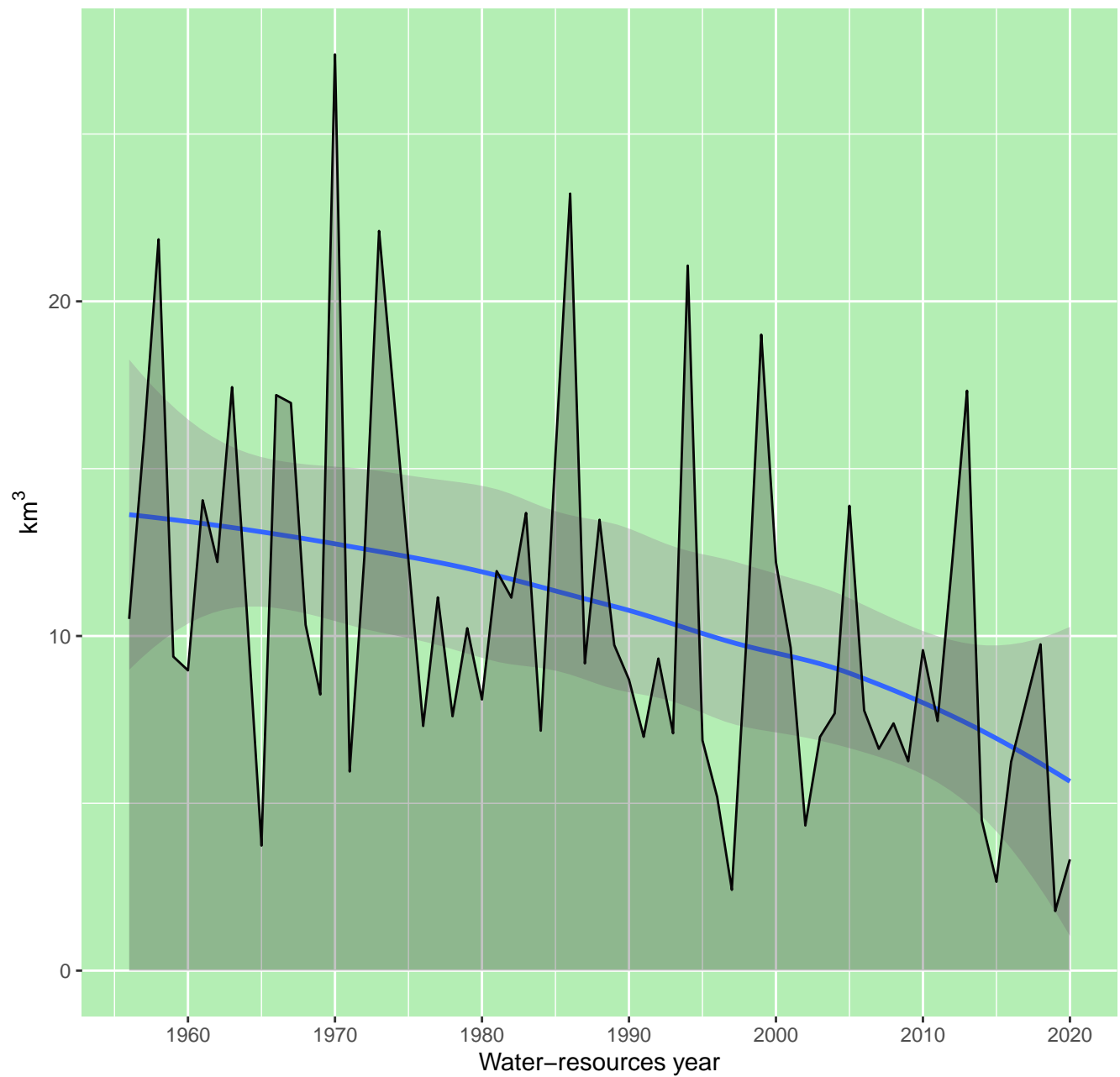
**First date of a seasonal flood wave**



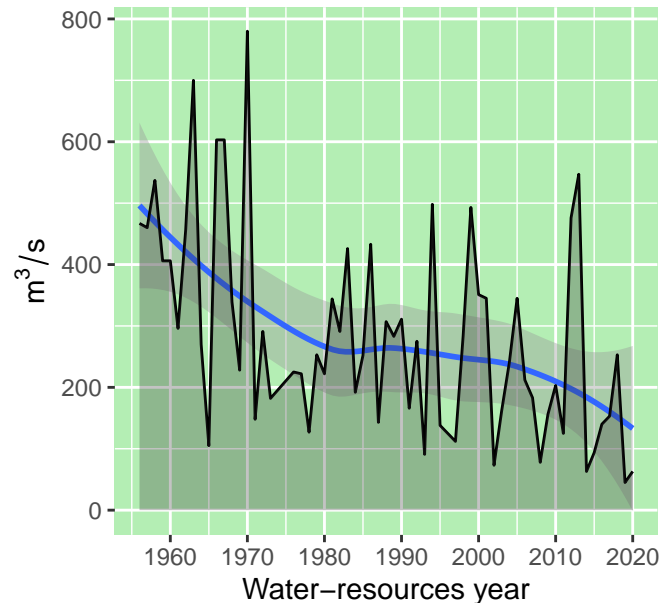
**First date of 10-day window discharge during winter**



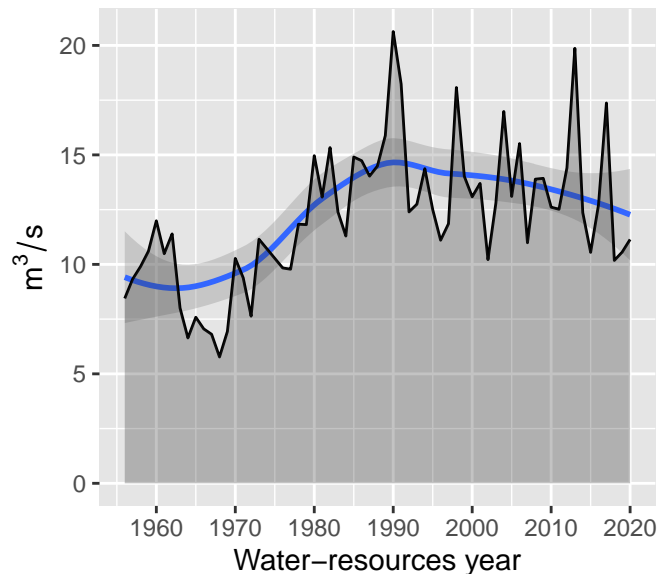
**Seasonal flood runoff (with groundwater and rainwater)**



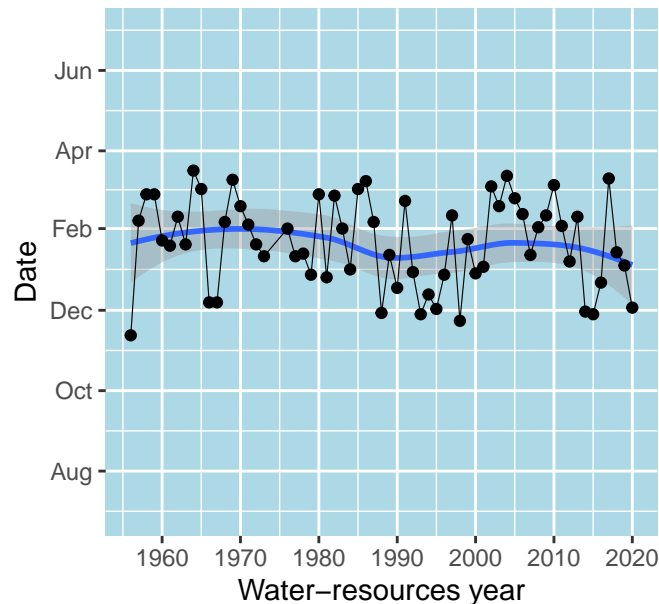
**Maximum annual discharge during snowmelt**



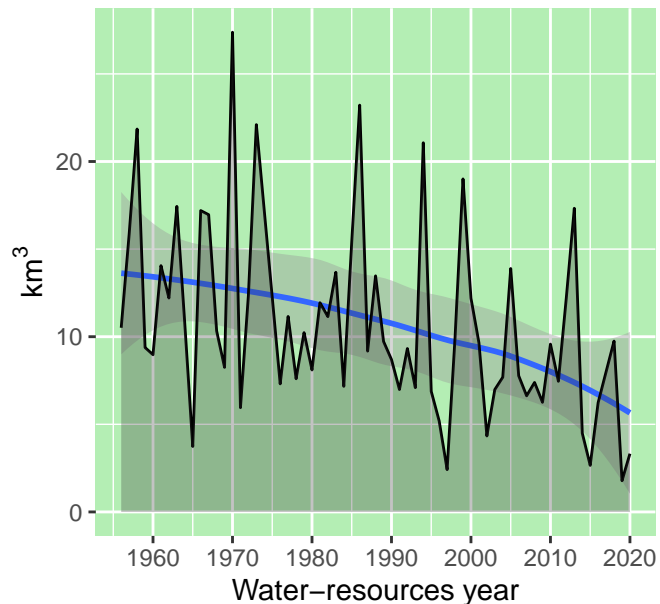
**Annual groundwater discharge ("base resources year"**



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



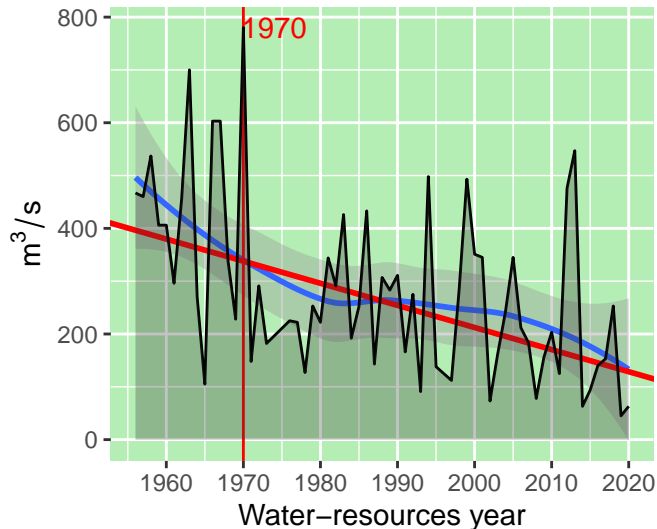
**Seasonal flood runoff (with groundwater**



### Maximum annual discharge during snowmelt

Mann–Kendall:  $z = -4.022$ ,  $p = 6e-05$

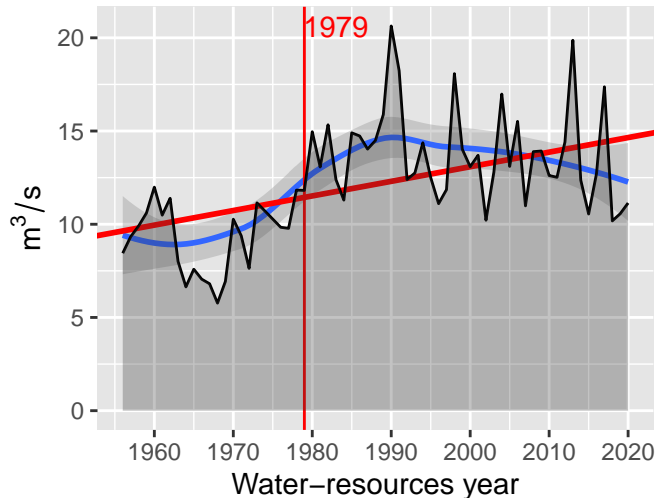
Theil–Sen:  $i = -4.18605$ ,  $p = 0$ . Pettitt:  $U^* =$



### Annual groundwater discharge ("base resources year

Mann–Kendall:  $z = 3.82$ ,  $p = 0.00013$

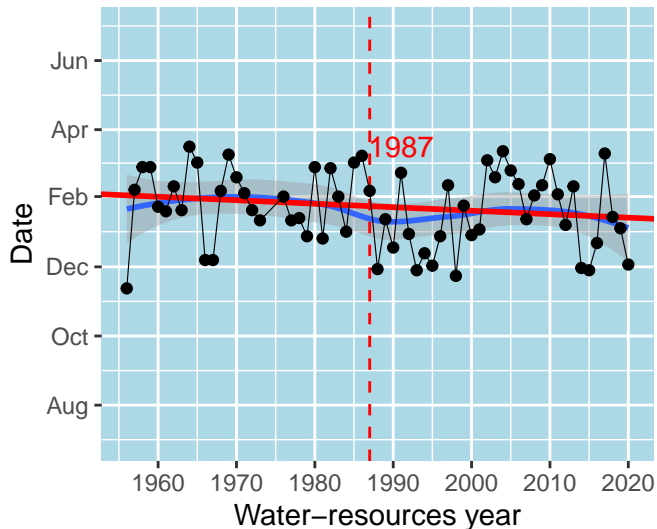
Theil–Sen:  $i = 0.07828$ ,  $p = 0$ . Pettitt:  $U^* = 8$



### First date of 10-day window discharge

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

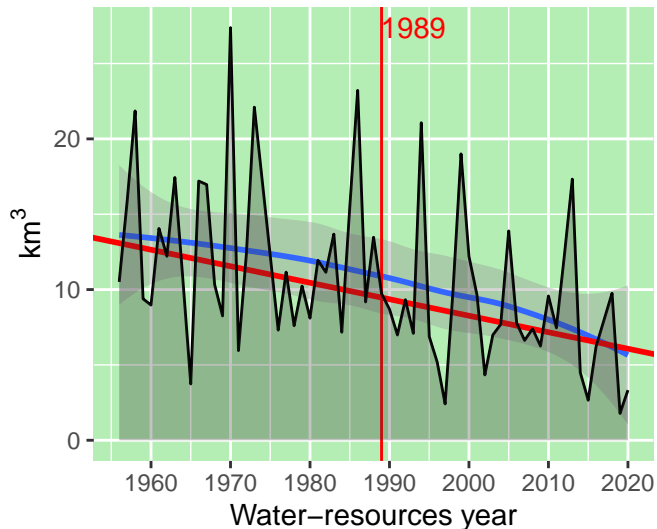
Theil–Sen:  $i = -0.30769$ ,  $p = 5e-05$ . Pettitt:



### Seasonal flood runoff (with groundwater

Mann–Kendall:  $z = -3.665$ ,  $p = 0.00025$

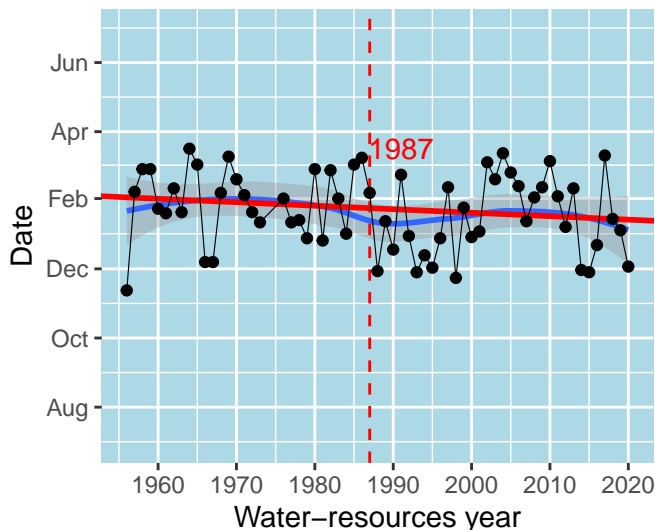
Theil–Sen:  $i = -0.1095$ ,  $p = 0$ . Pettitt:  $U^* = 5$



### First date of 10-day window discharge

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

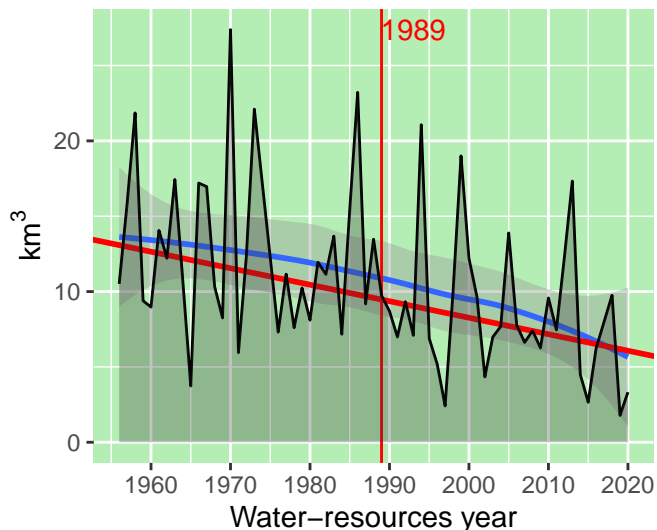
Theil-Sen:  $i = -0.30769$ ,  $p = 5e-05$ . Pettitt:



### Seasonal flood runoff (with groundwater)

Mann-Kendall:  $z = -3.665$ ,  $p = 0.00025$

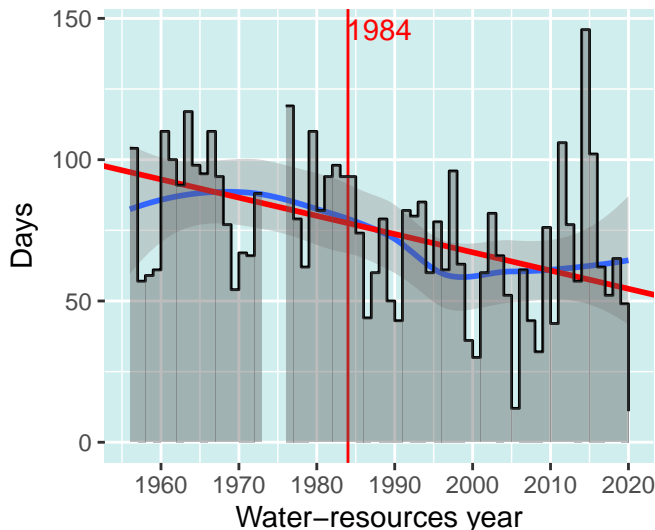
Theil-Sen:  $i = -0.1095$ ,  $p = 0$ . Pettitt:  $U^* = 5$



### Number of days with thaw-flood ever

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

Theil-Sen:  $i = -0.64516$ ,  $p = 0$ . Pettitt:  $U^* =$



### Maximum rain-flood discharge

Mann-Kendall:  $z = 0.338$ ,  $p = 0.7353$

Theil-Sen:  $i = 0.04194$ ,  $p = 0.26627$ . Pettitt:

