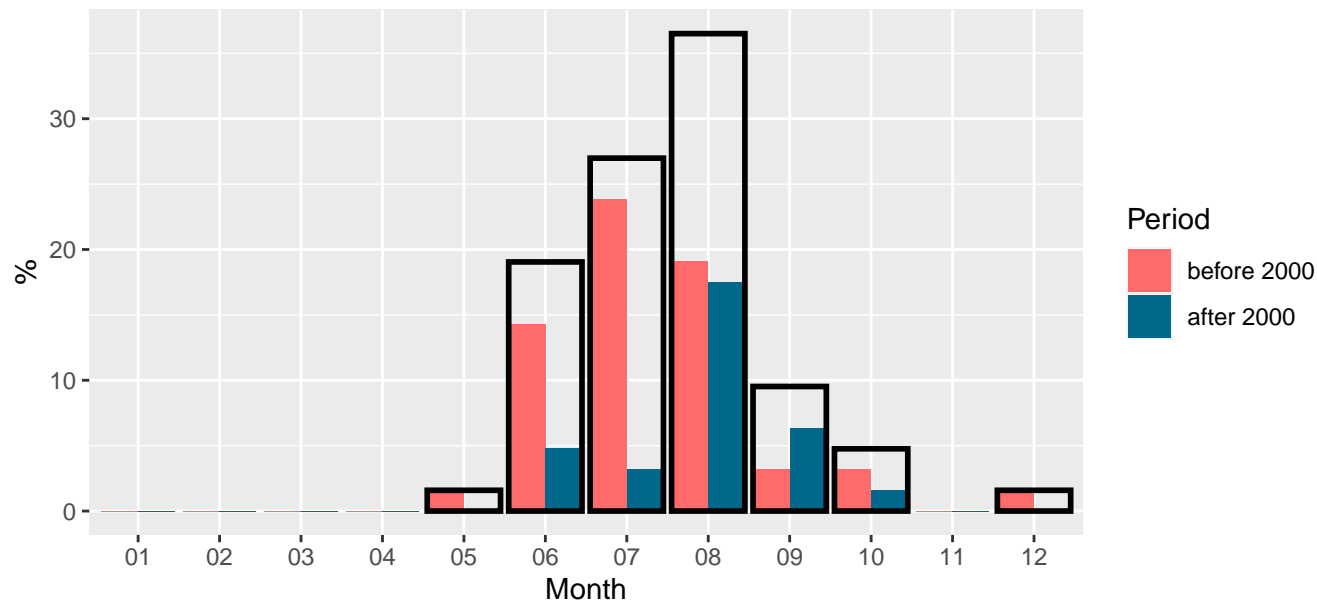
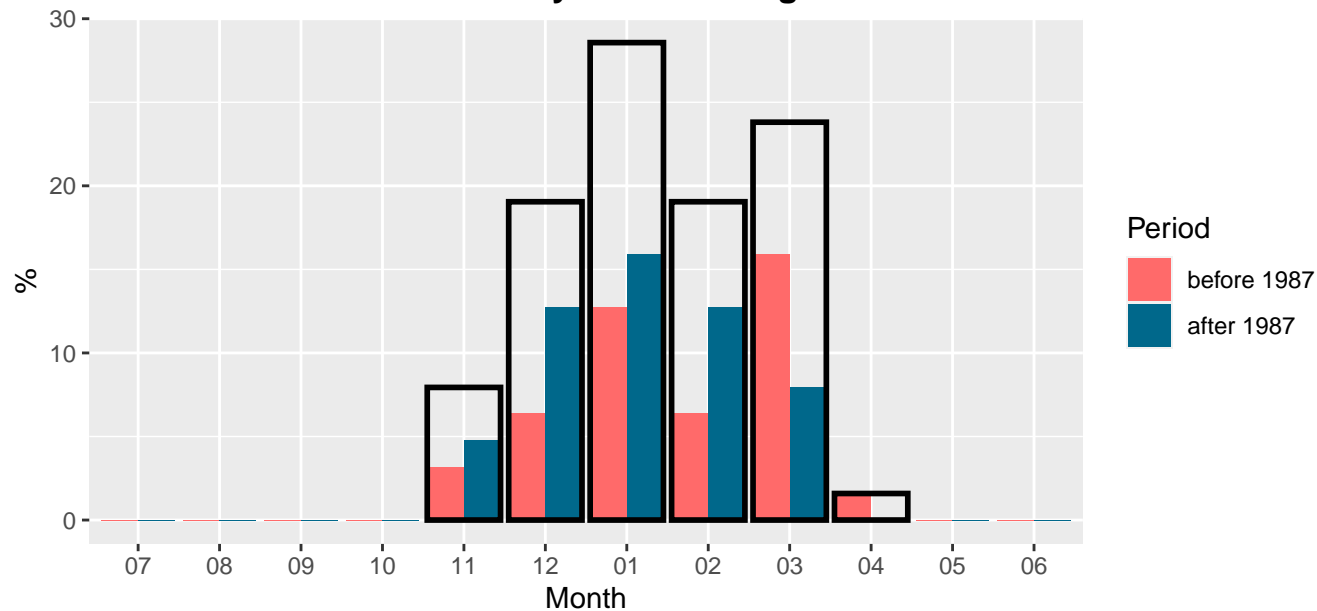


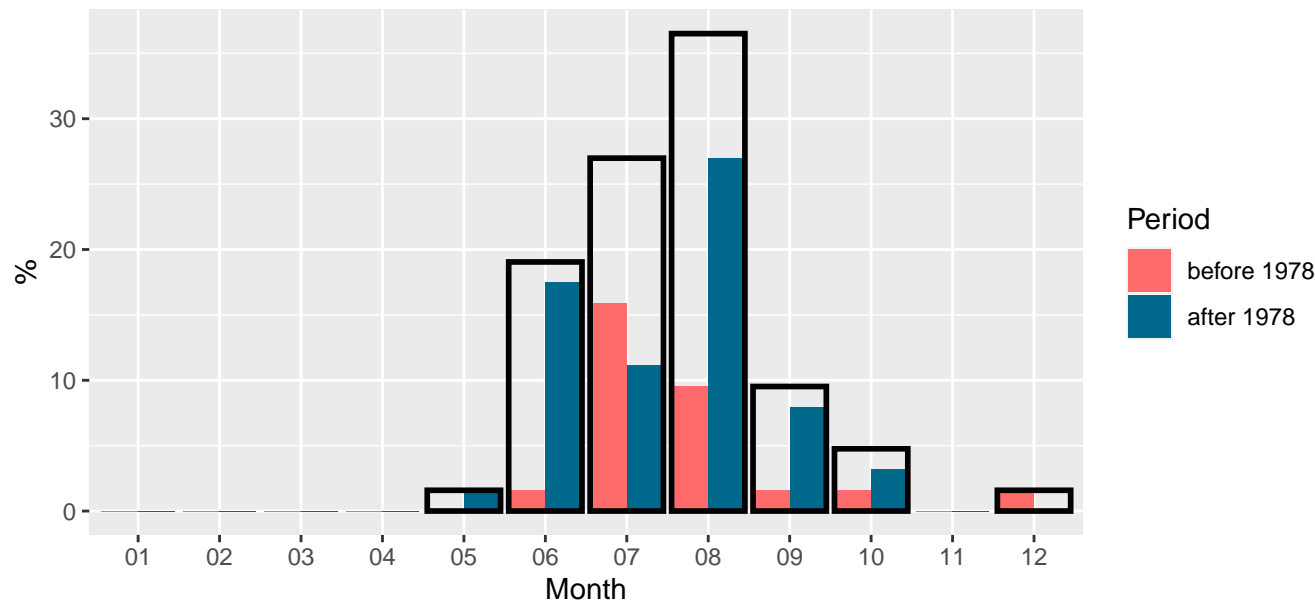
### Month of a minimum monthly runoff during summer



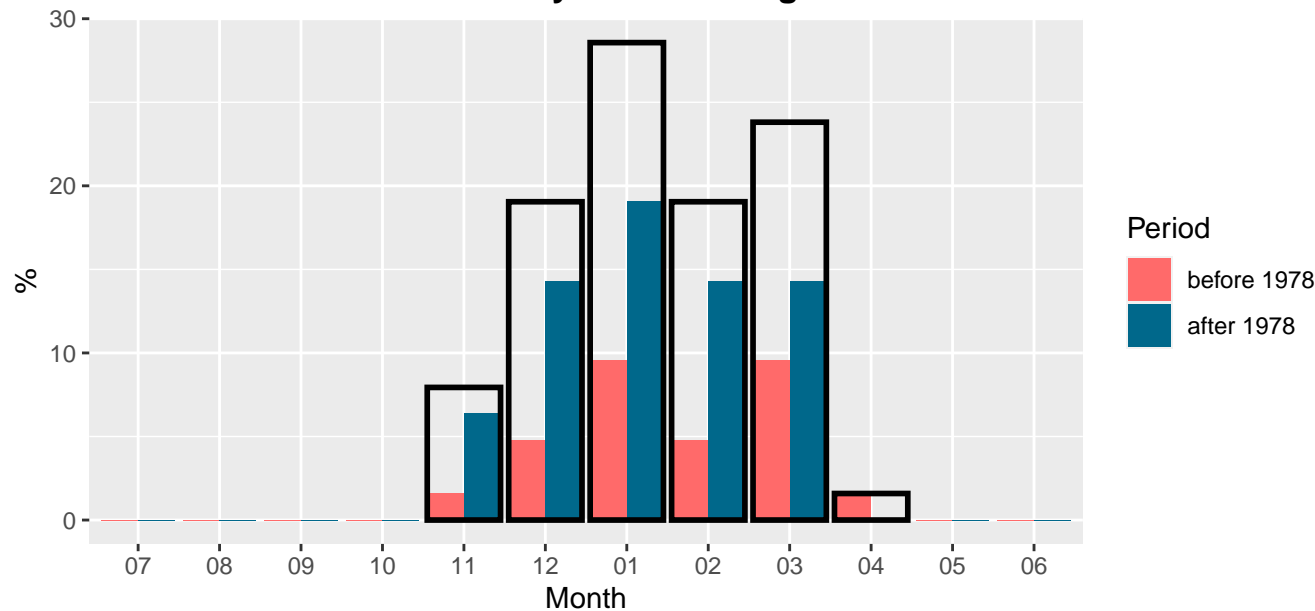
### Month of a minimum monthly runoff during winter



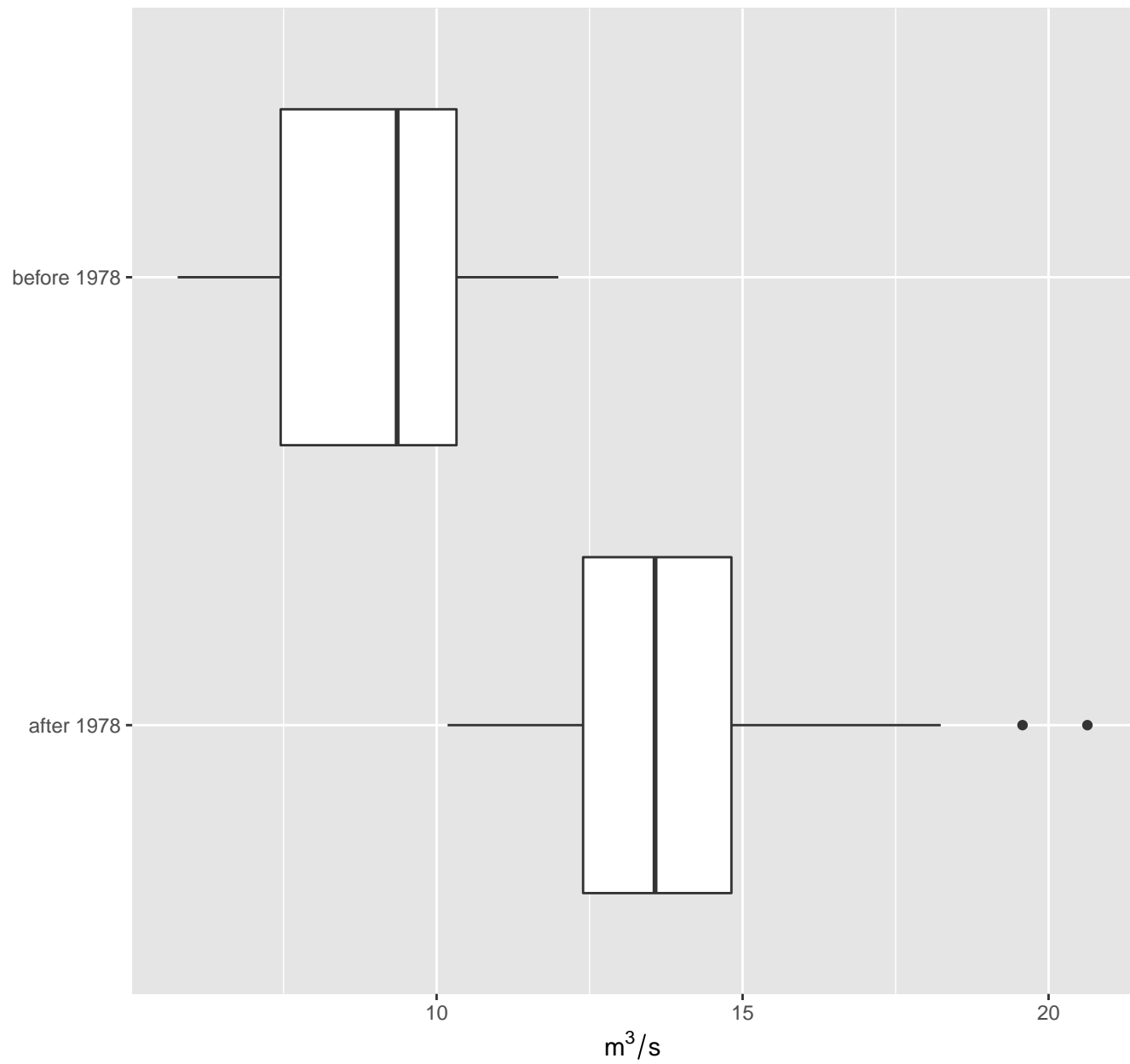
**Month of a minimum monthly runoff during summer**



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



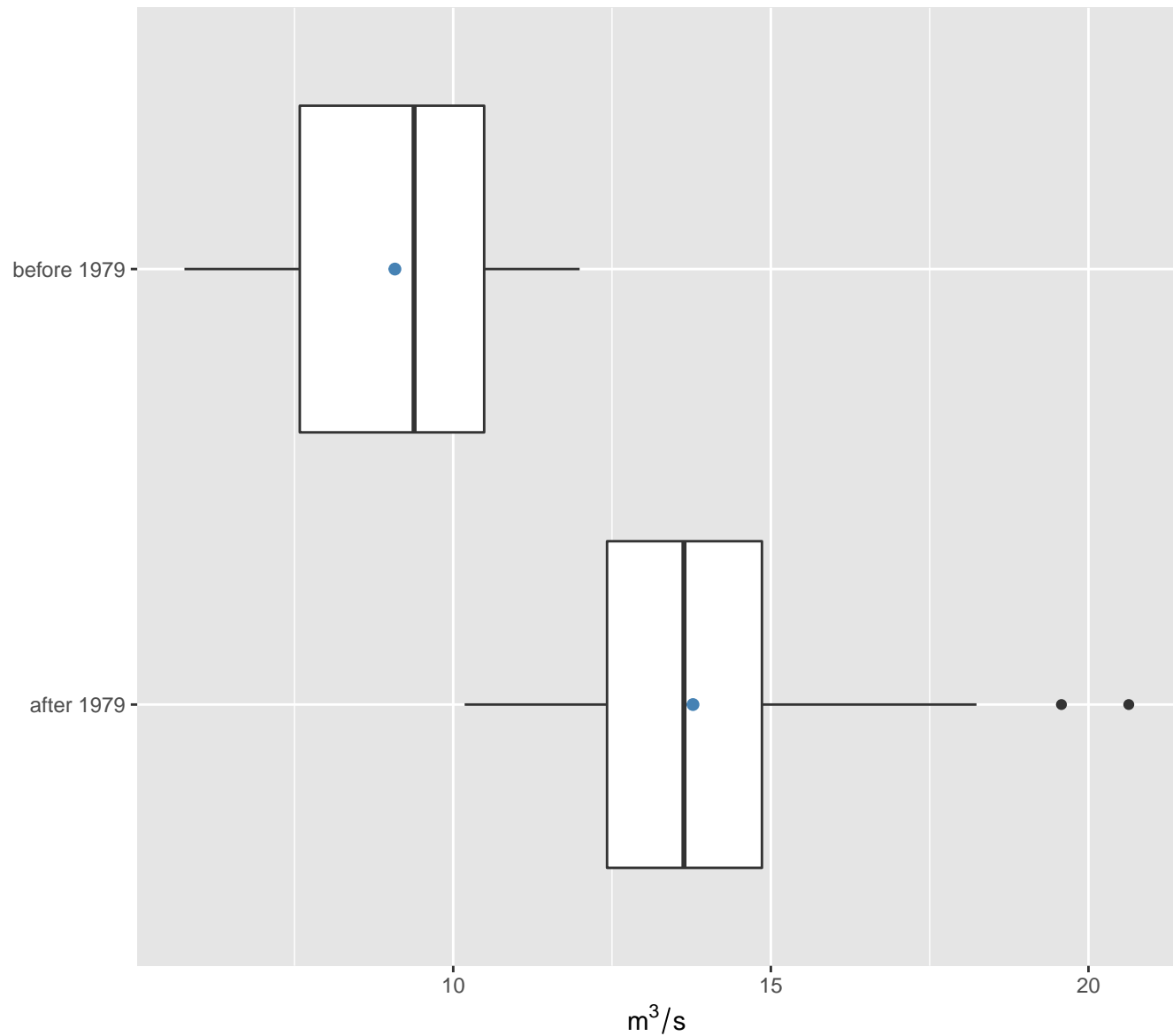
# Annual groundwater discharge ("baseflow") during water-resources year



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

Student:  $t = -8.553$ ,  $p = 0$ ,  $m1 = 9.082$ ,  $m2 = 13.774$

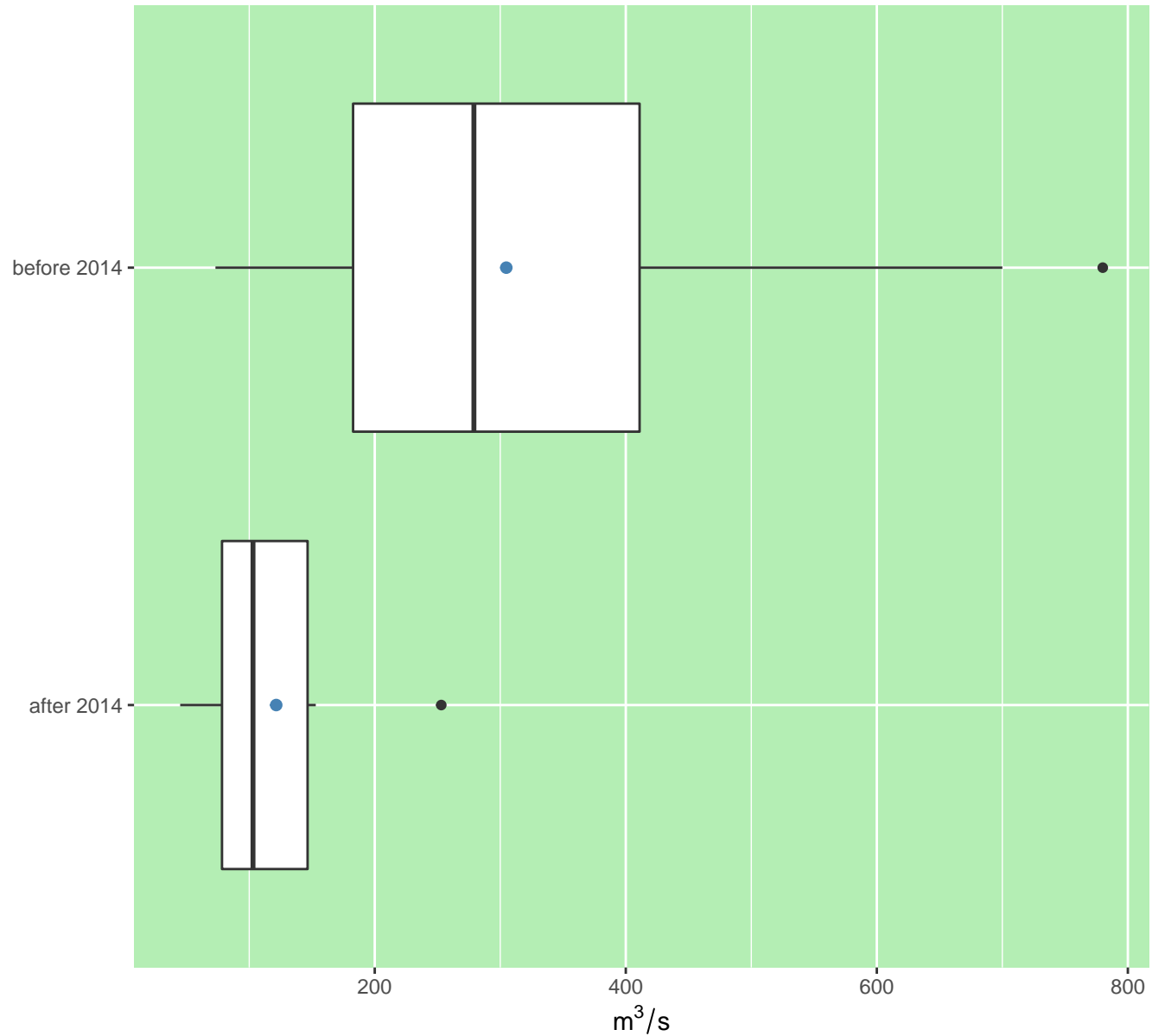
Fisher:  $F = 0.609$ ,  $p = 0.23417$ ,  $cv1 = 0.205$ ,  $cv2 = 0.173$



# Maximum annual discharge during seasonal flood wave

Student:  $t = 1.53$ ,  $p = 0.14845$ ,  $m1 = 304.802$ ,  $m2 = 121.514$

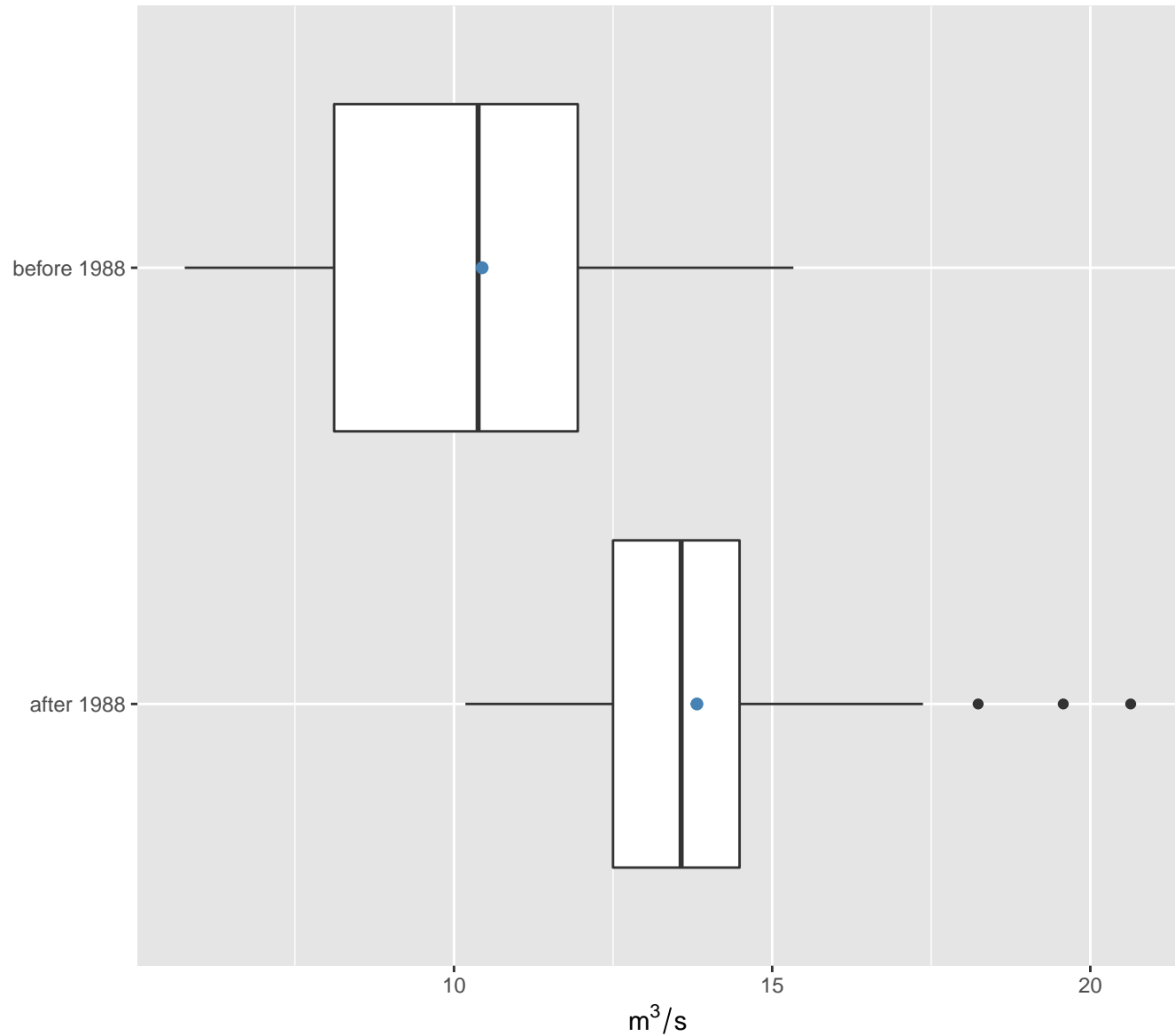
Fisher:  $F = 4.389$ ,  $p = 0.06815$ ,  $cv1 = 0.532$ ,  $cv2 = 0.572$



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

Student:  $t = 3.709$ ,  $p = 0.00048$ ,  $m1 = 10.442$ ,  $m2 = 13.818$

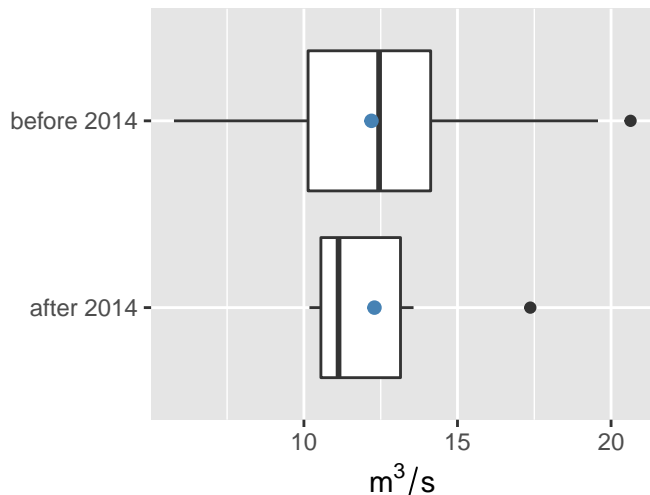
Fisher:  $F = 1.462$ ,  $p = 0.29587$ ,  $cv1 = 0.262$ ,  $cv2 = 0.188$



### Annual groundwater discharge ("b resources year

Student:  $t = 1.53$ ,  $p = 0.14845$ ,  $m1 = 12$ .

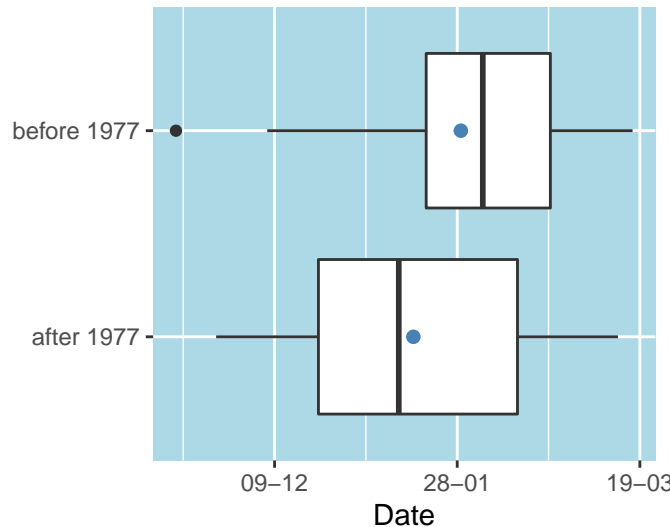
Fisher:  $F = 4.389$ ,  $p = 0.06815$ ,  $cv1 = 0$ .



### First date of 10-day window discharge

Student:  $t = -2.662$ ,  $p = 0.01355$ ,  $m1 = 2$ .

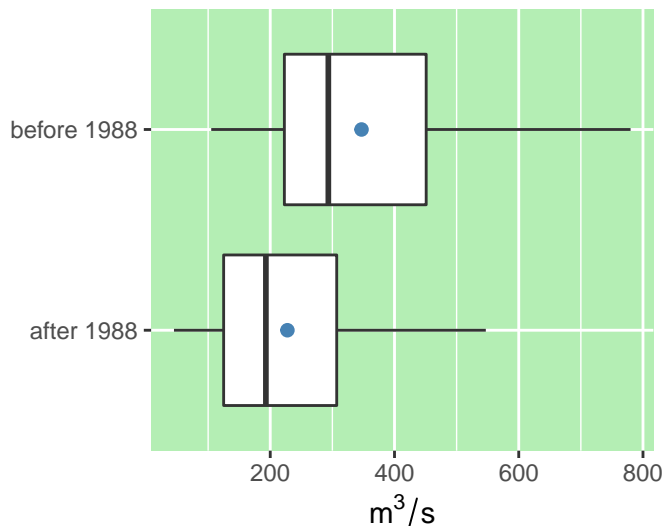
Fisher:  $F = 2.556$ ,  $p = 0.01194$ ,  $cv1 = 0$ .



### Maximum annual discharge during

Student:  $t = 3.709$ ,  $p = 0.00048$ ,  $m1 = 3$ .

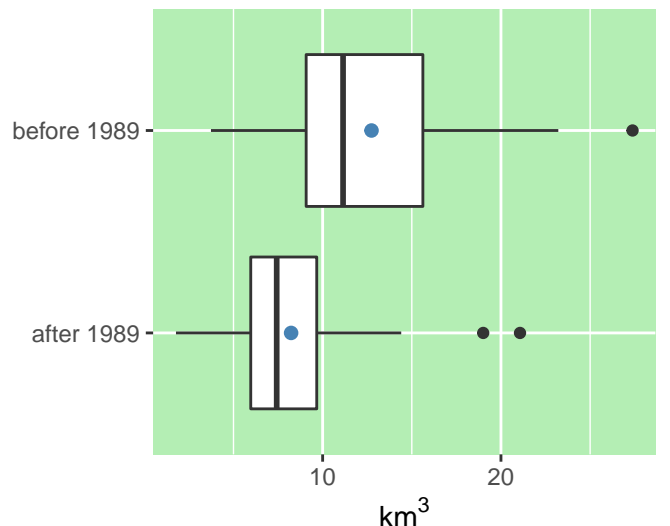
Fisher:  $F = 1.462$ ,  $p = 0.29587$ ,  $cv1 = 0$ .



### Seasonal flood runoff (with ground

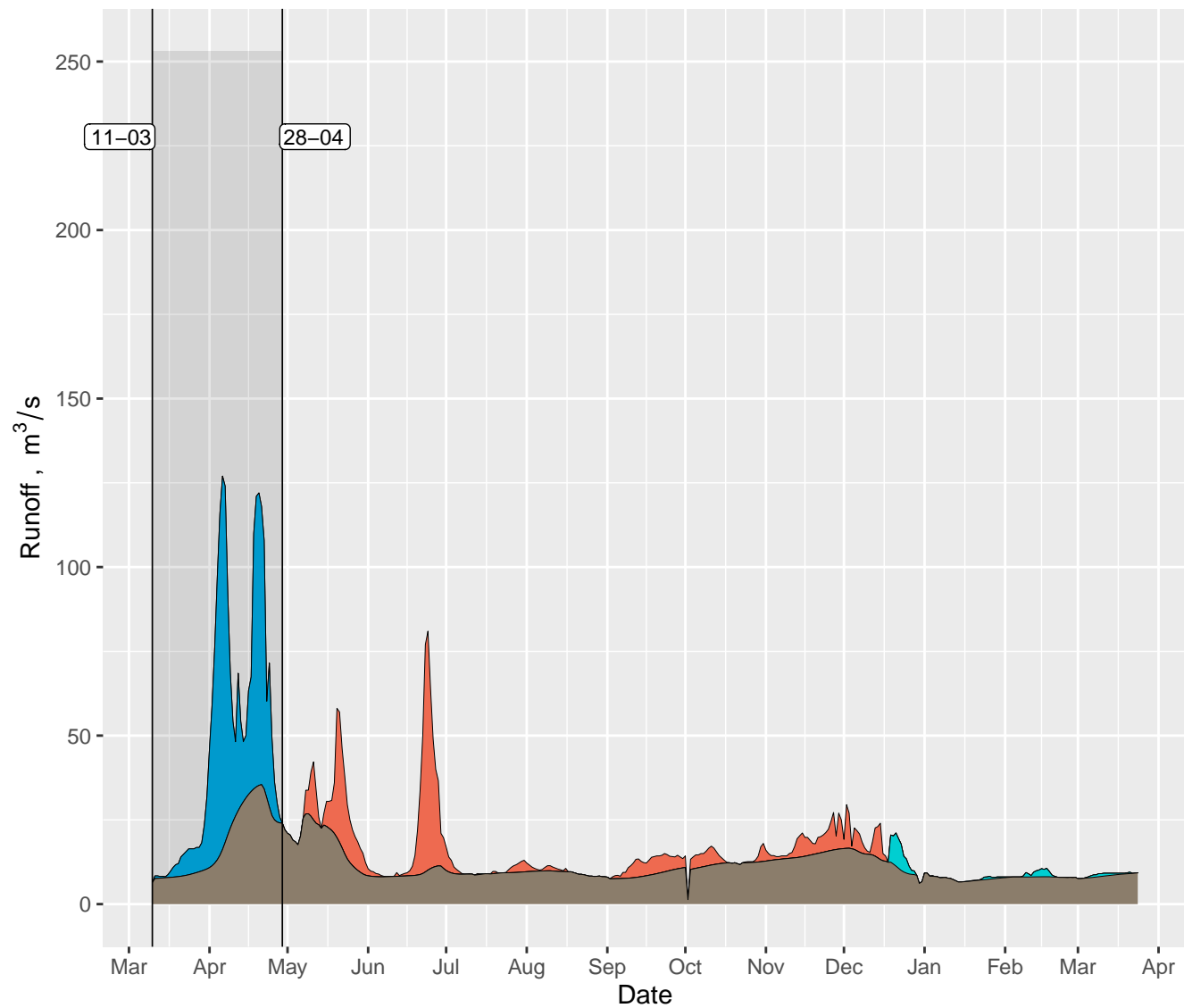
Student:  $t = 3.61$ ,  $p = 0.00064$ ,  $m1 = 12$ .

Fisher:  $F = 1.553$ ,  $p = 0.22834$ ,  $cv1 = 0$ .



**1978**

1978-03-11 – 1979-03-24

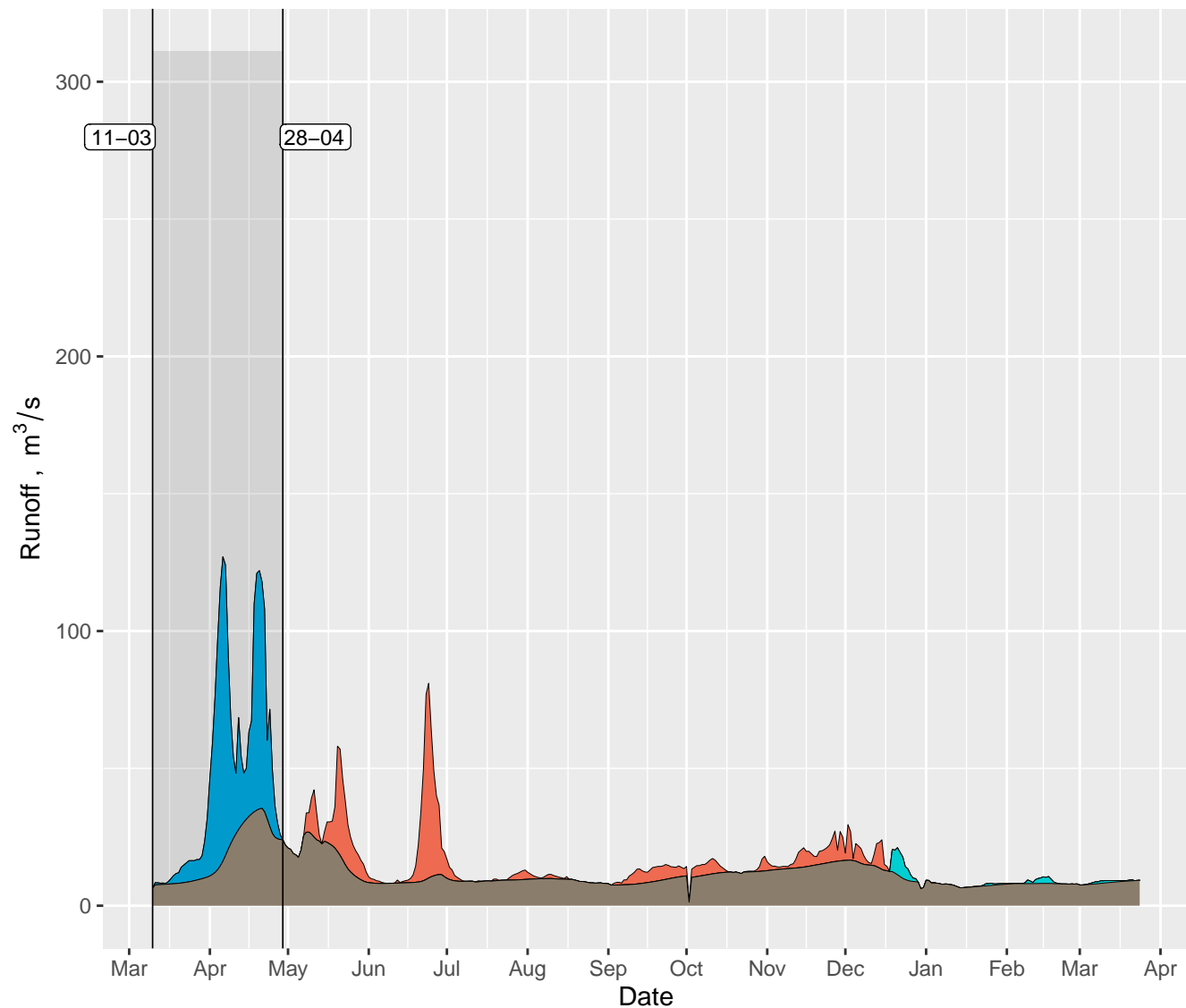


Flow: Rain Seasonal Thaw Ground



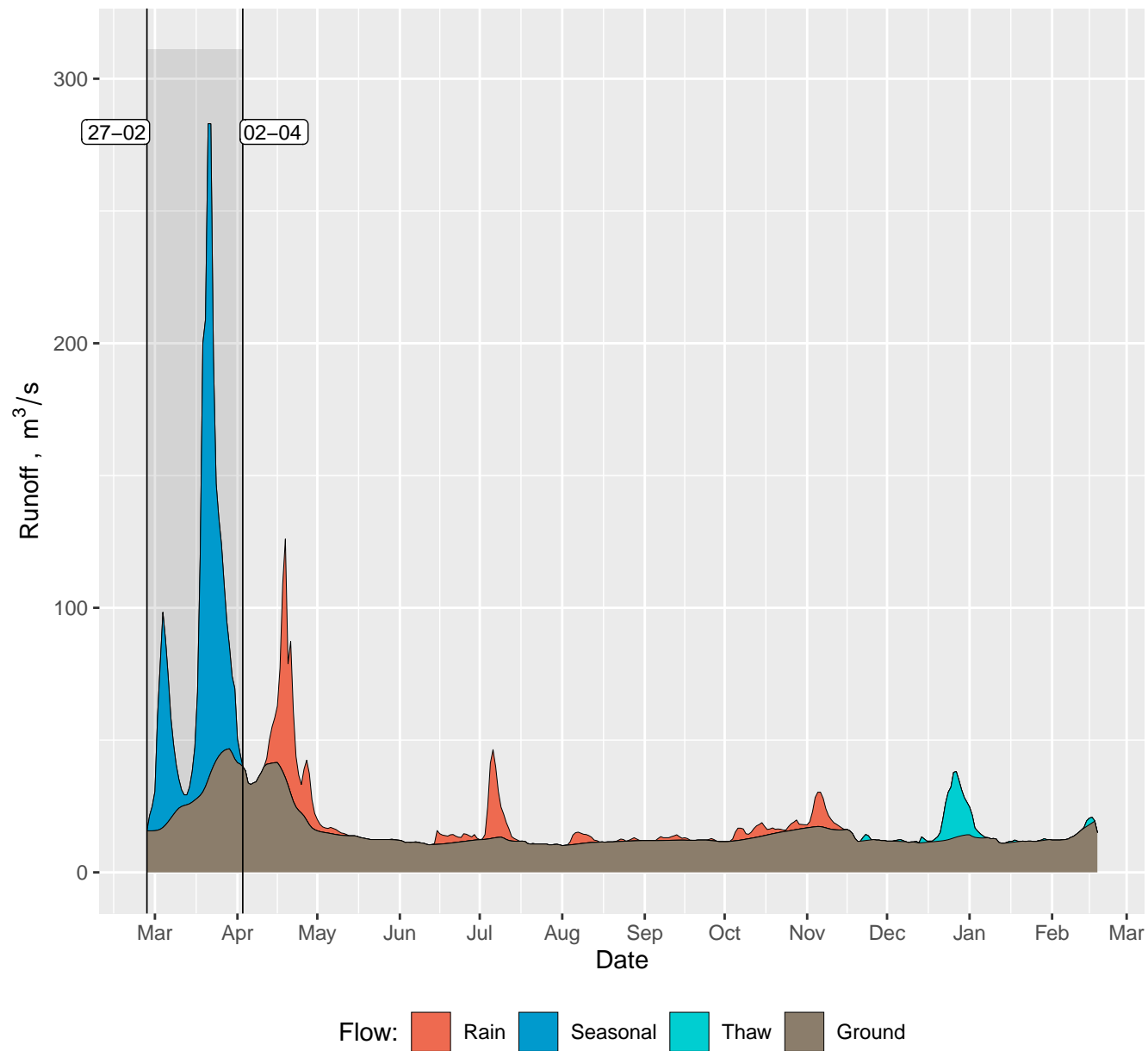
**1978**

1978-03-11 – 1979-03-24



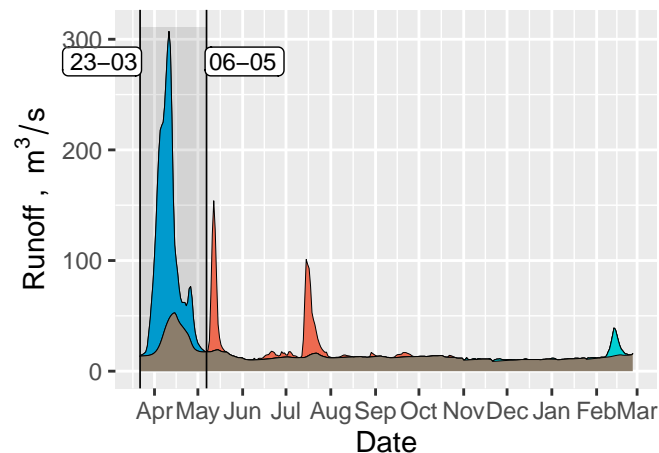
1989

1989-02-27 – 1990-02-18

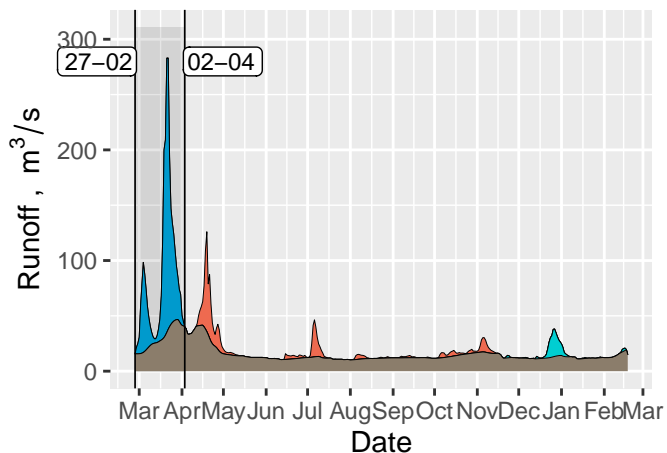


**1988**

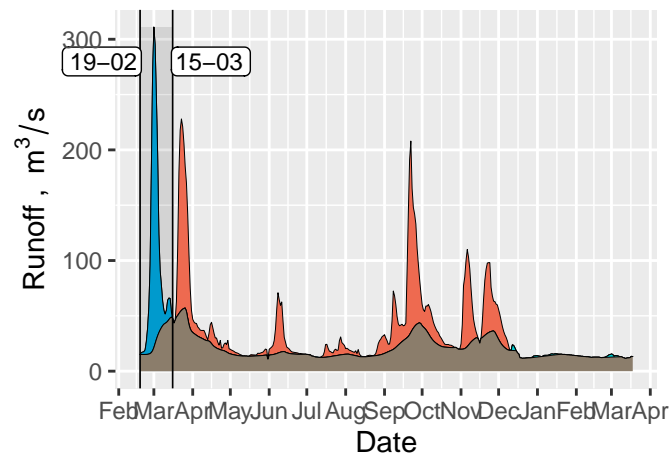
1988-03-23 – 1989-02-26

**1989**

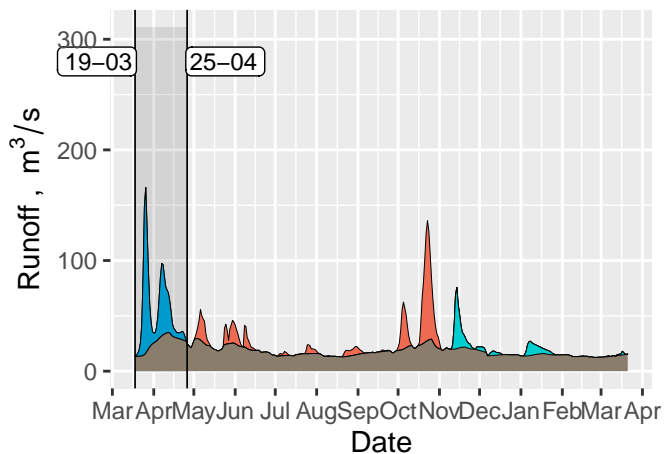
1989-02-27 – 1990-02-18

**1990**

1990-02-19 – 1991-03-18

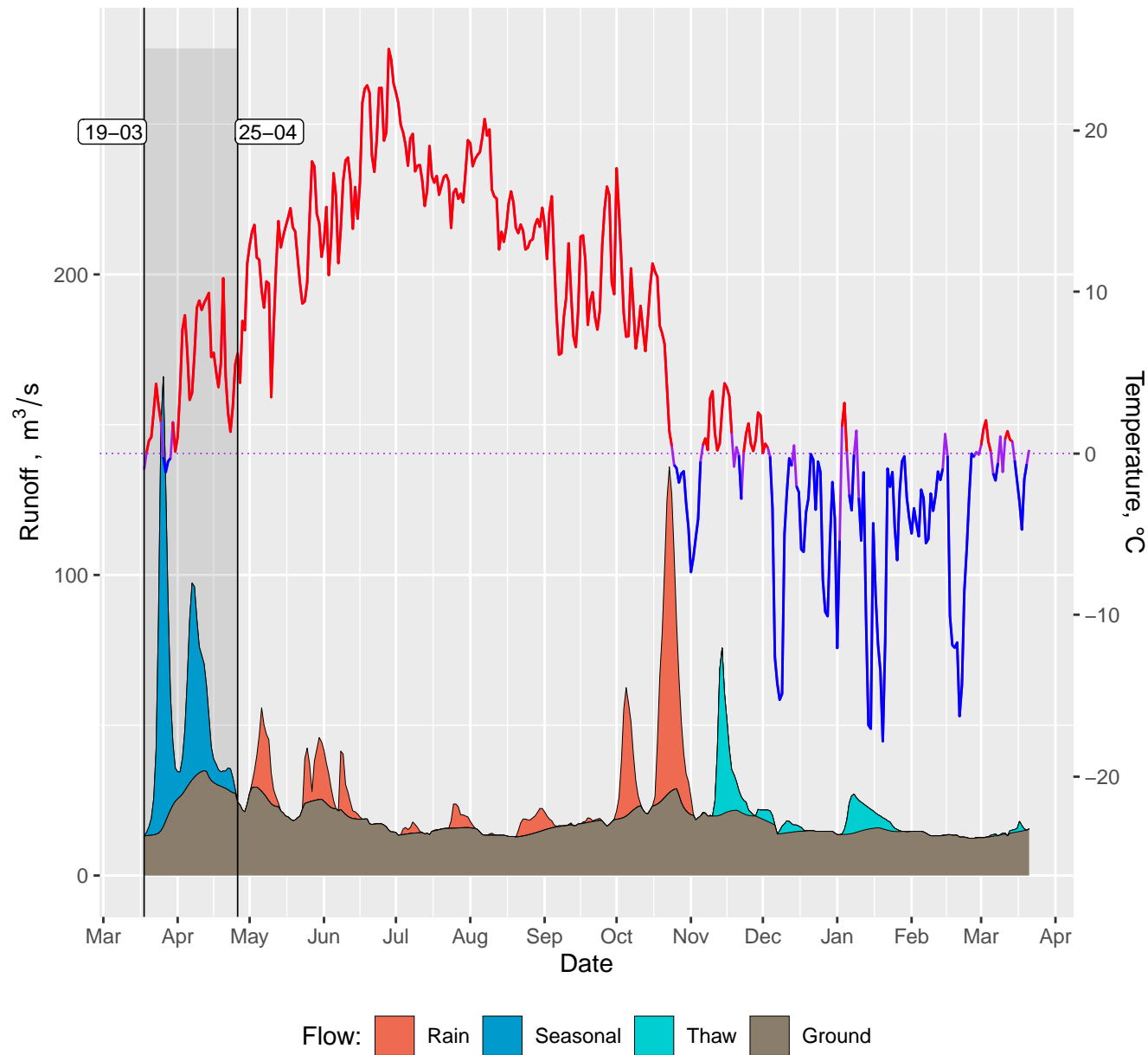
**1991**

1991-03-19 – 1992-03-21



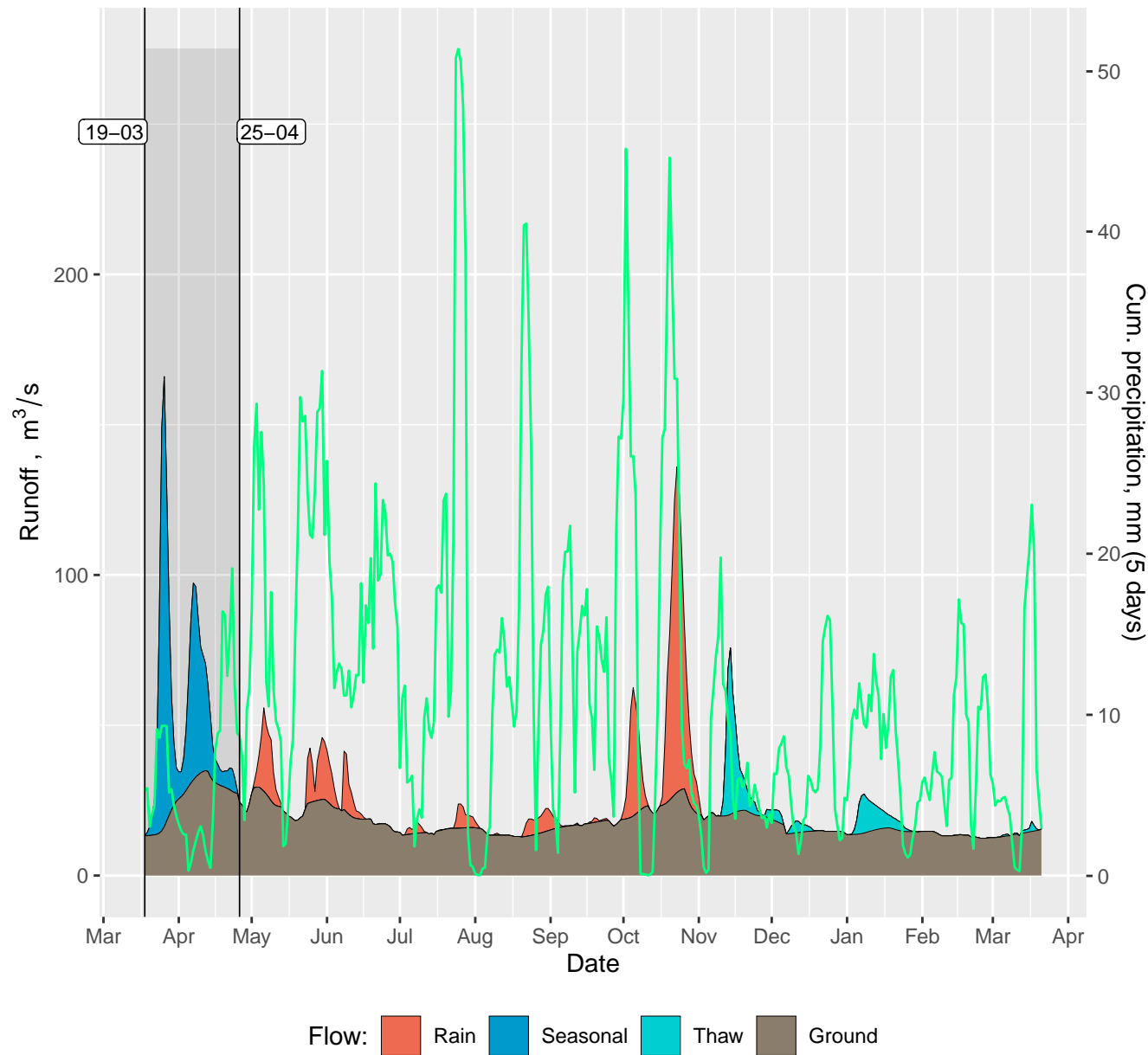
1991

1991-03-19 – 1992-03-21



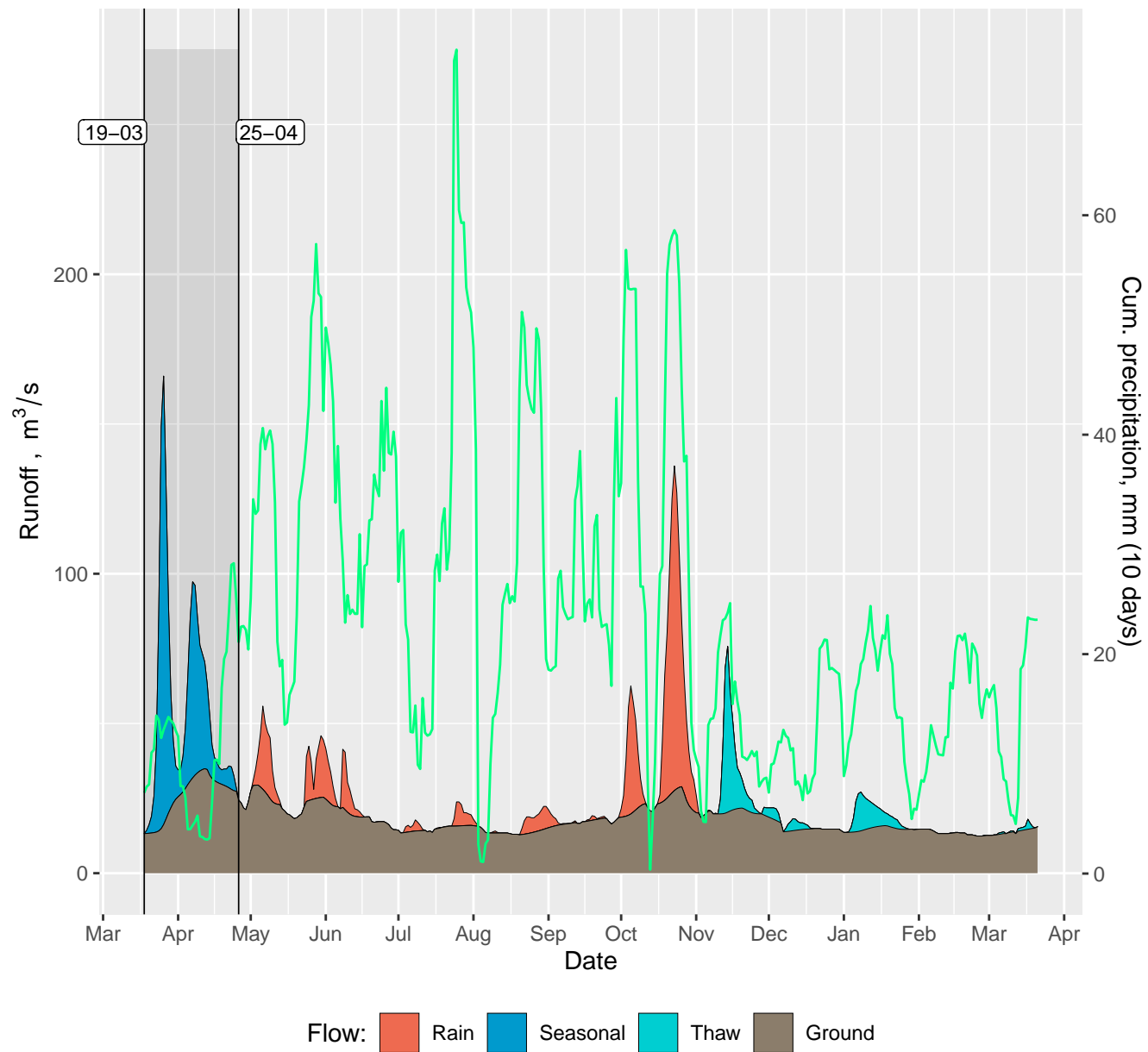
1991

1991-03-19 – 1992-03-21



1991

1991-03-19 – 1992-03-21

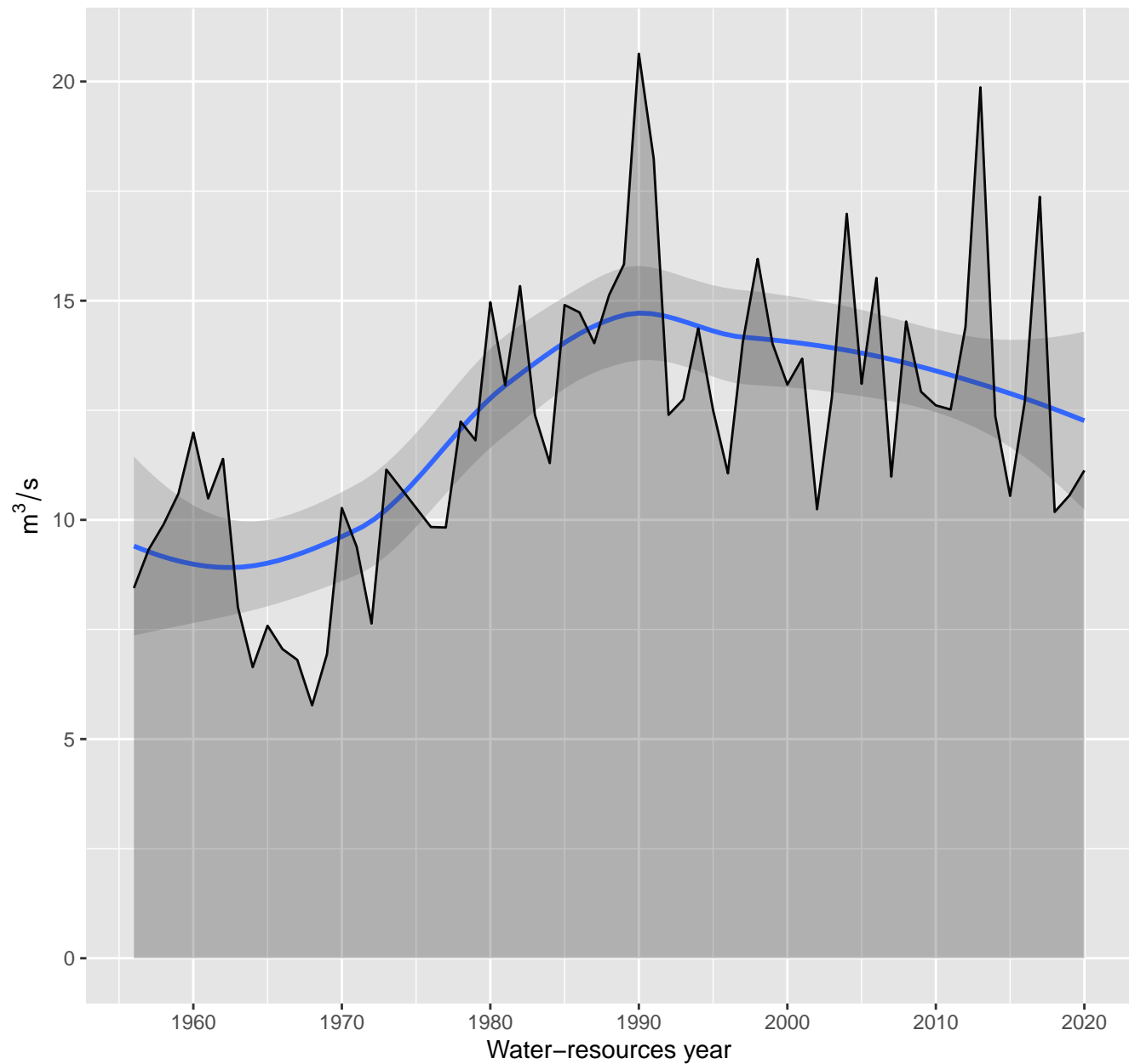


1991

1991-03-19 - 1992-03-21

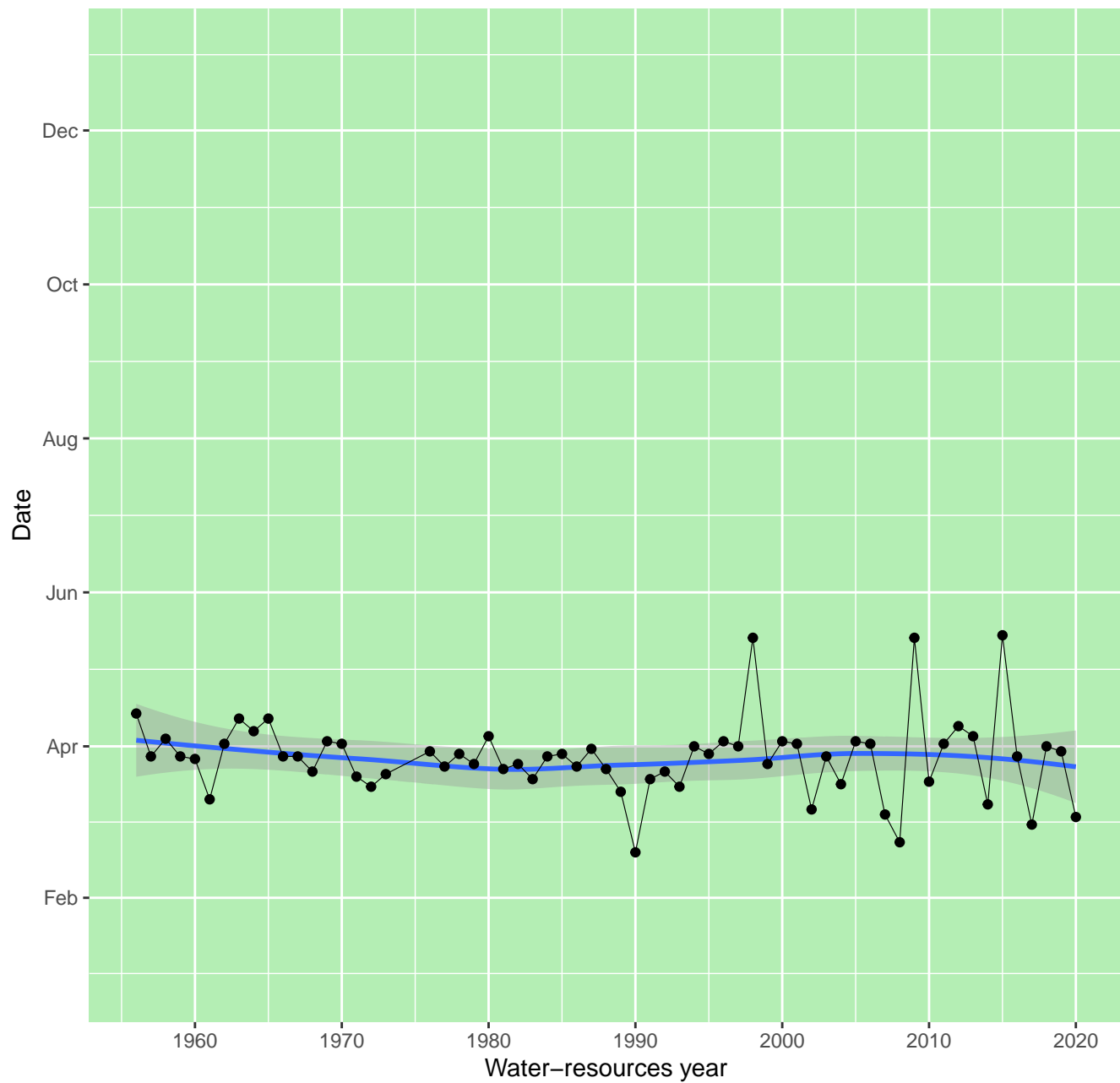


**Annual groundwater discharge ("baseflow") during water-resources year**

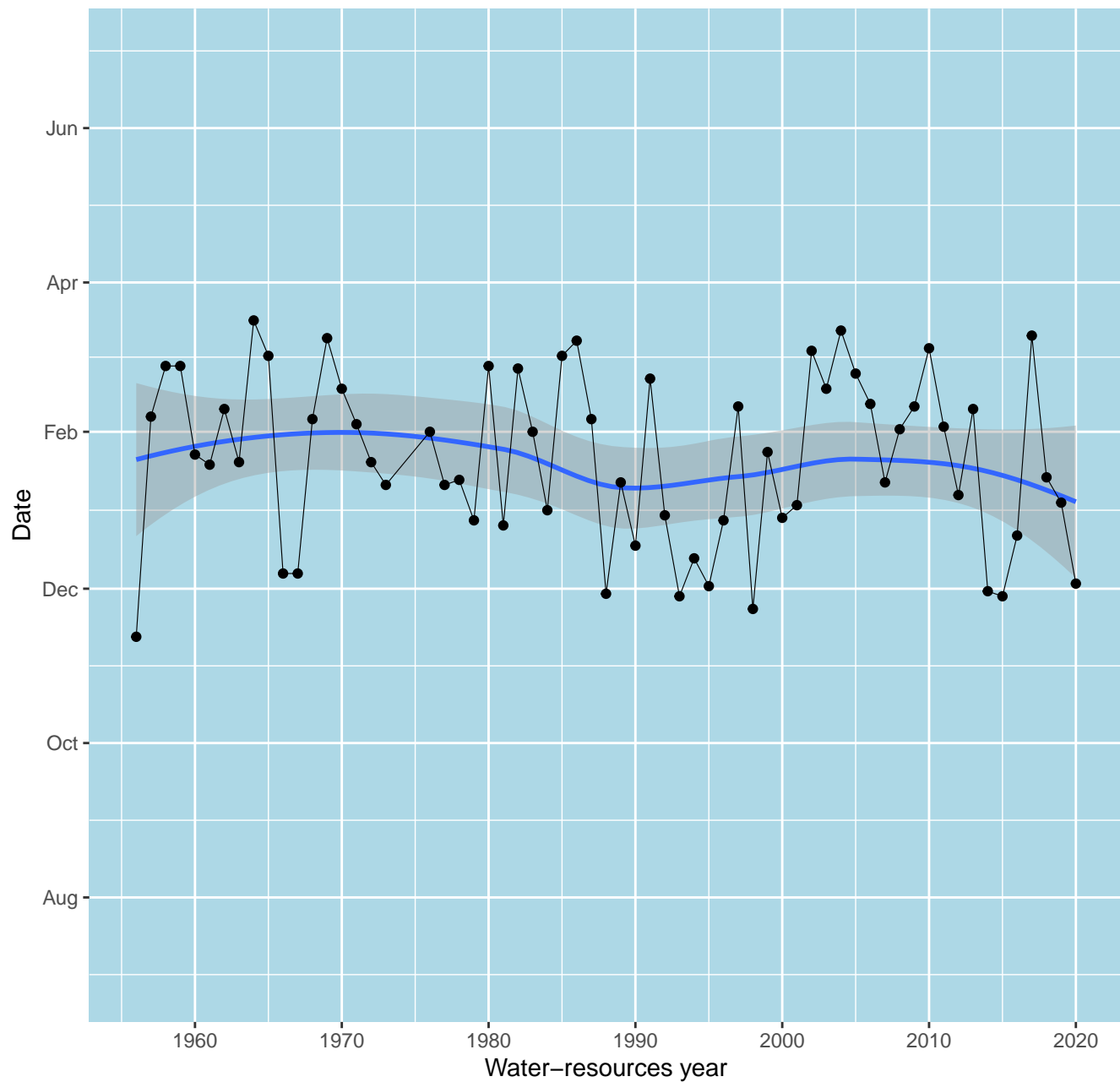




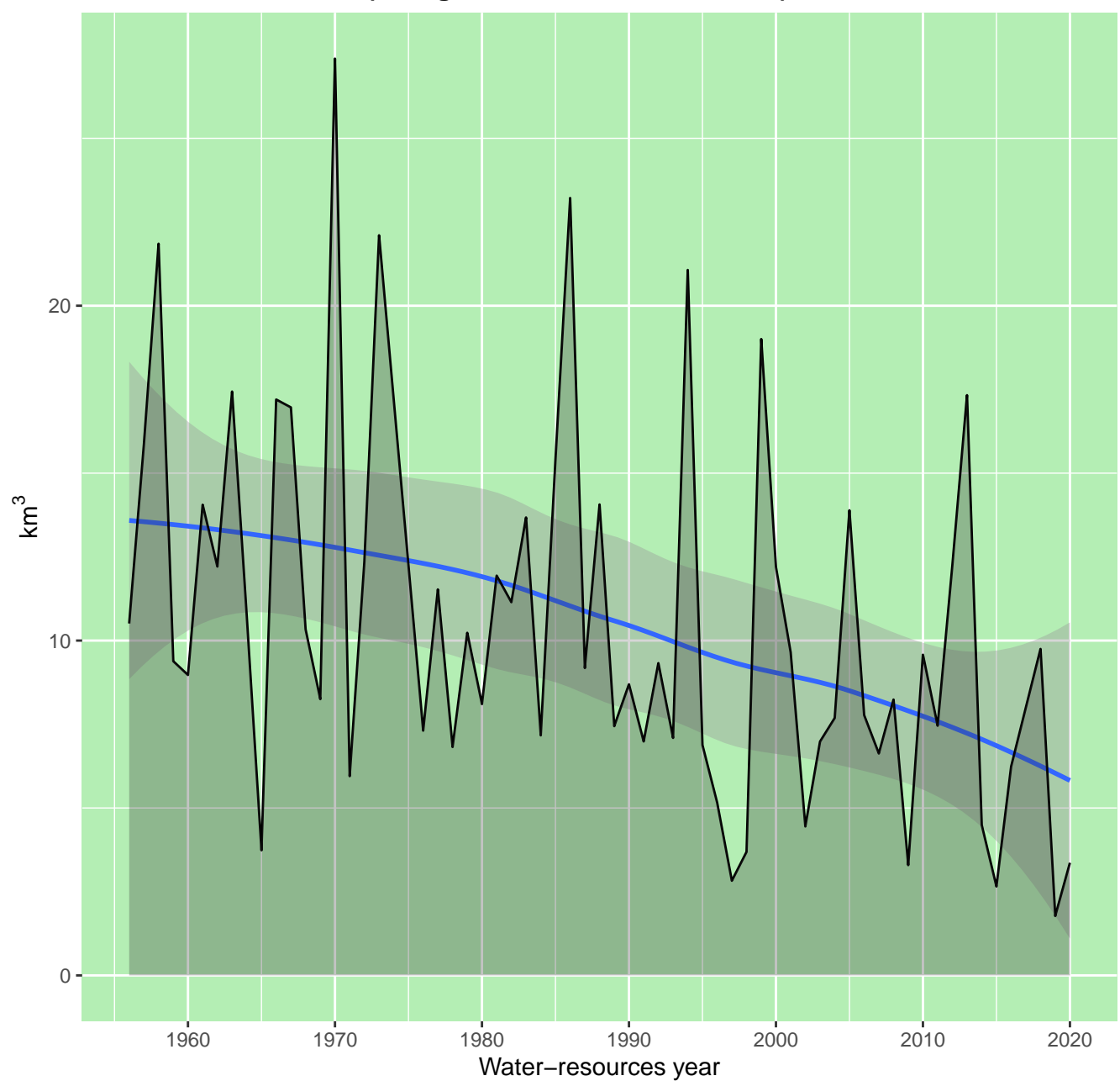
**First date of a seasonal flood wave**



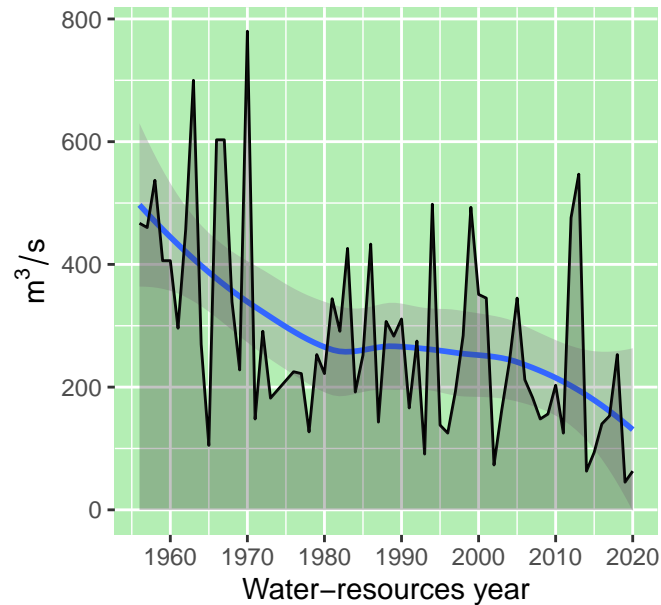
**First date of 10-day window discharge during winter**



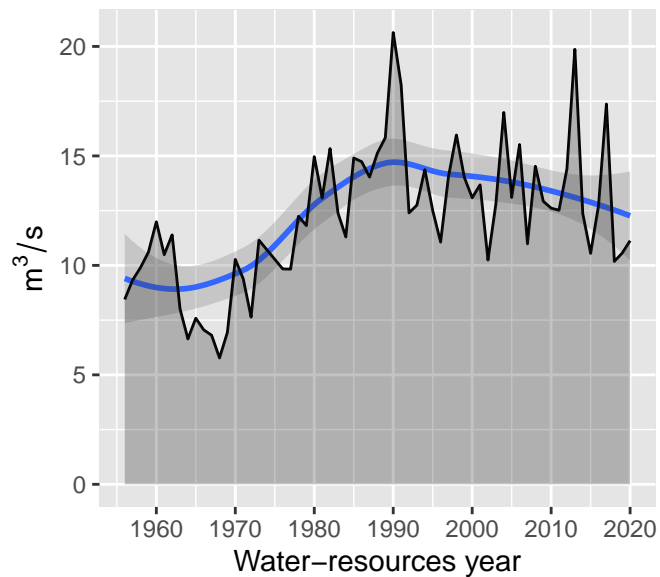
**Seasonal flood runoff (with groundwater and rainwater)**



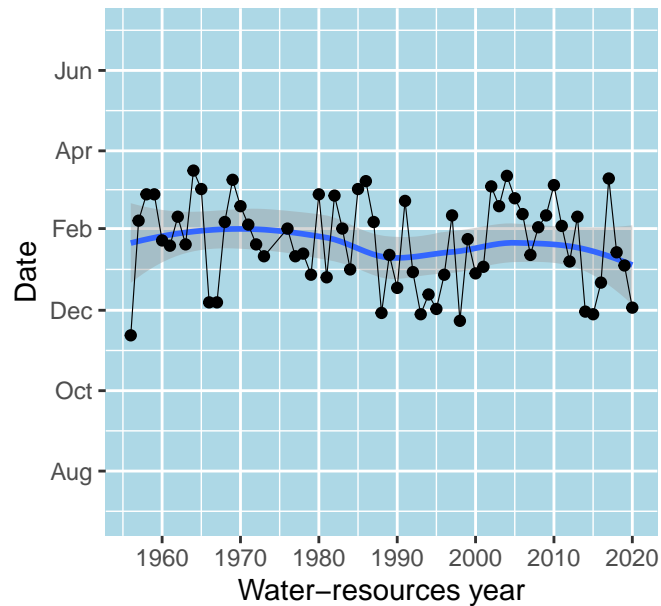
**Maximum annual discharge during snowmelt**



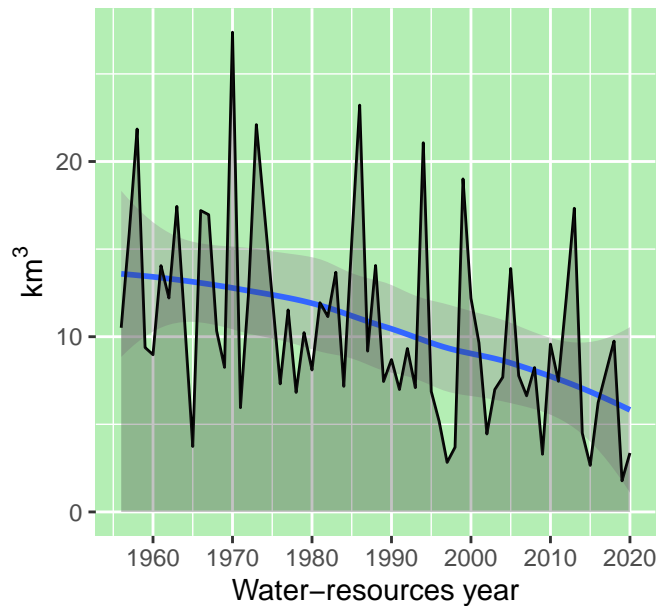
**Annual groundwater discharge ("base resources year"**



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



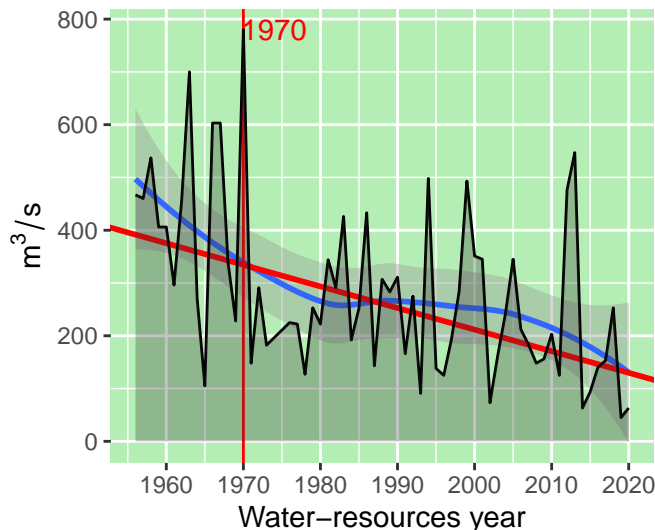
**Seasonal flood runoff (with groundwater**



### Maximum annual discharge during snowmelt

Mann–Kendall:  $z = -3.957$ ,  $p = 8e-05$

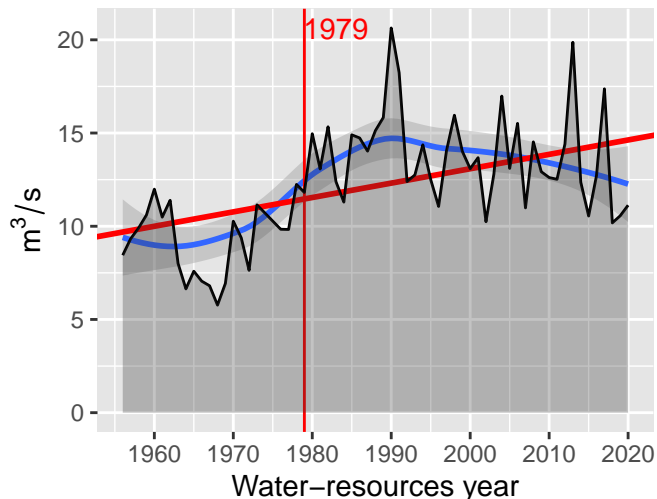
Theil–Sen:  $i = -4.09091$ ,  $p = 0$ . Pettitt:  $U^* =$



### Annual groundwater discharge ("base resources year

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

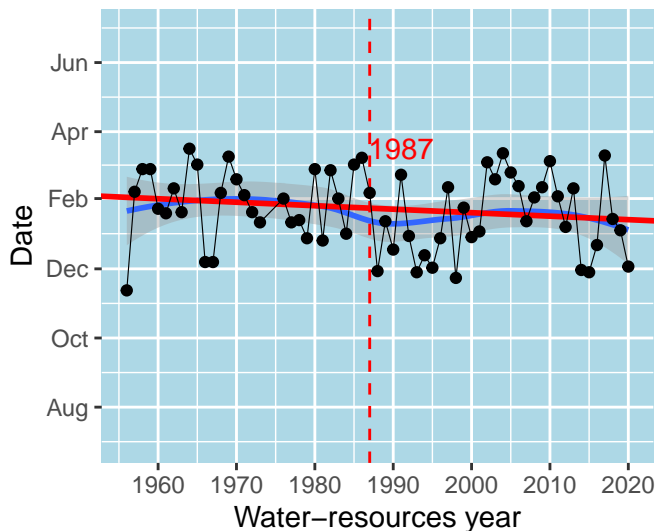
Theil–Sen:  $i = 0.07716$ ,  $p = 0$ . Pettitt:  $U^* = 8$



### First date of 10-day window discharge

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

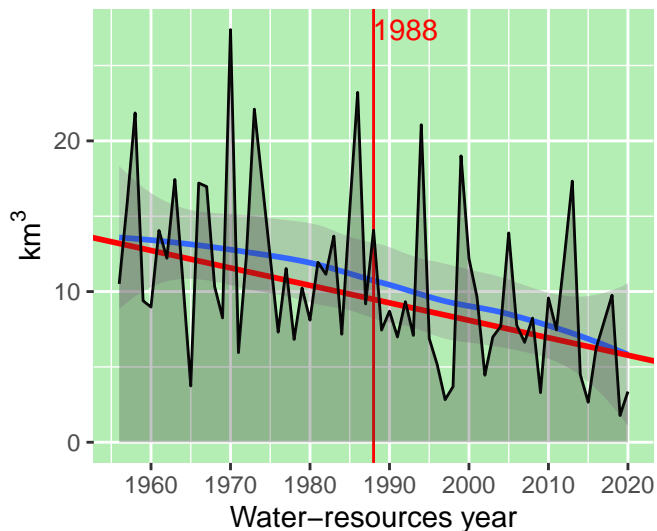
Theil–Sen:  $i = -0.30769$ ,  $p = 5e-05$ . Pettitt:



### Seasonal flood runoff (with groundwater

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

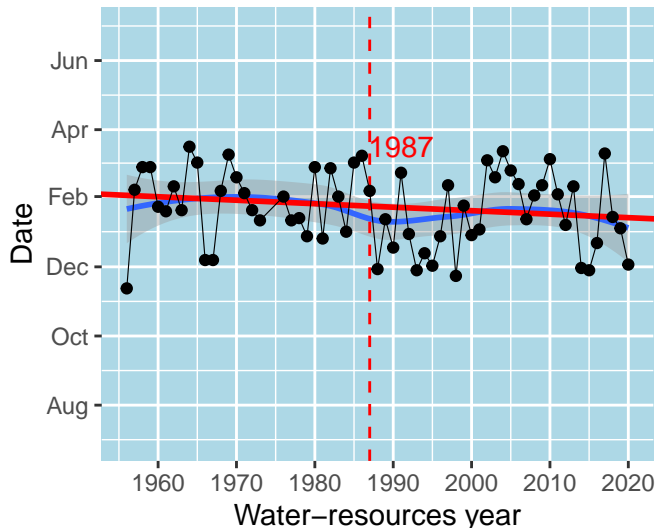
Theil–Sen:  $i = -0.11589$ ,  $p = 0$ . Pettitt:  $U^* = 5$



### First date of 10-day window discharg

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

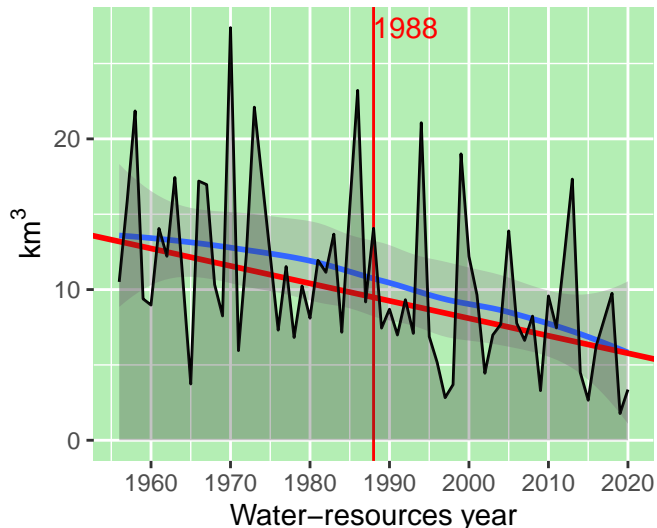
Theil-Sen:  $i = -0.30769$ ,  $p = 5e-05$ . Pettitt:



### Seasonal flood runoff (with groundwa

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

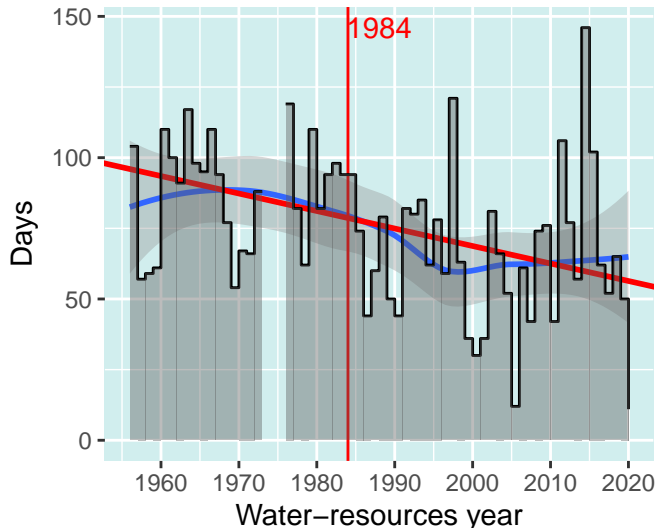
Theil-Sen:  $i = -0.11589$ ,  $p = 0$ . Pettitt:  $U^* = 5$



### Number of days with thaw-flood ever

Mann-Kendall:  $z = -3.3$ ,  $p = 0.00097$

Theil-Sen:  $i = -0.61905$ ,  $p = 0$ . Pettitt:  $U^* =$



### Maximum rain-flood discharge

Mann-Kendall:  $z = 0.148$ ,  $p = 0.88212$

Theil-Sen:  $i = 0.02098$ ,  $p = 0.9155$ . Pettitt:

