

SWE Analysis

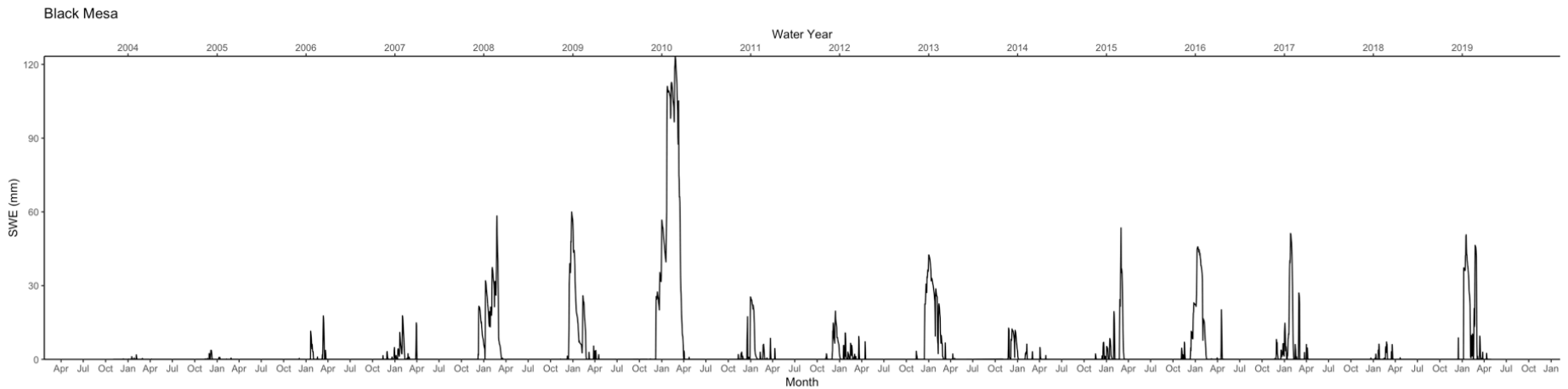
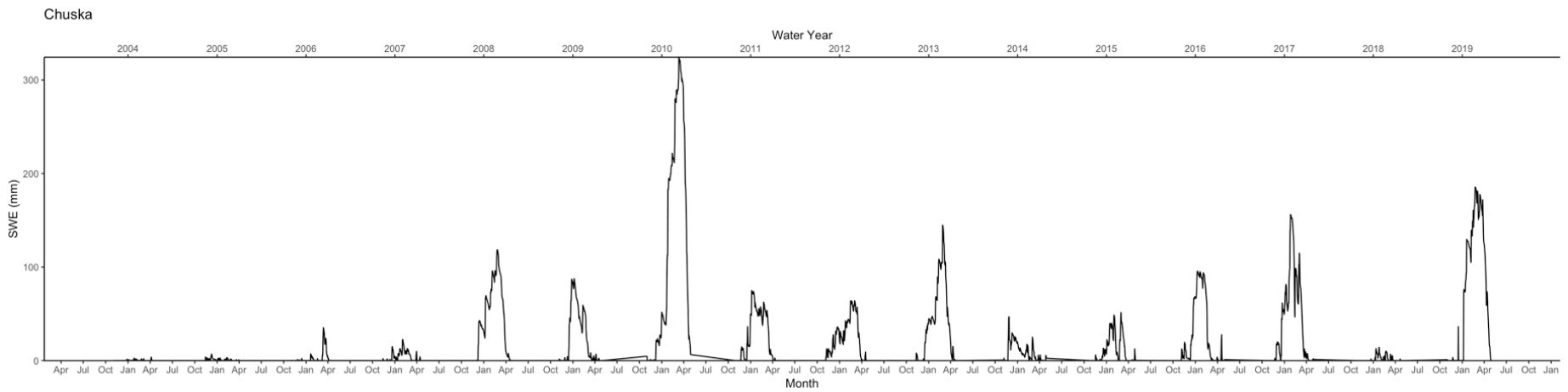
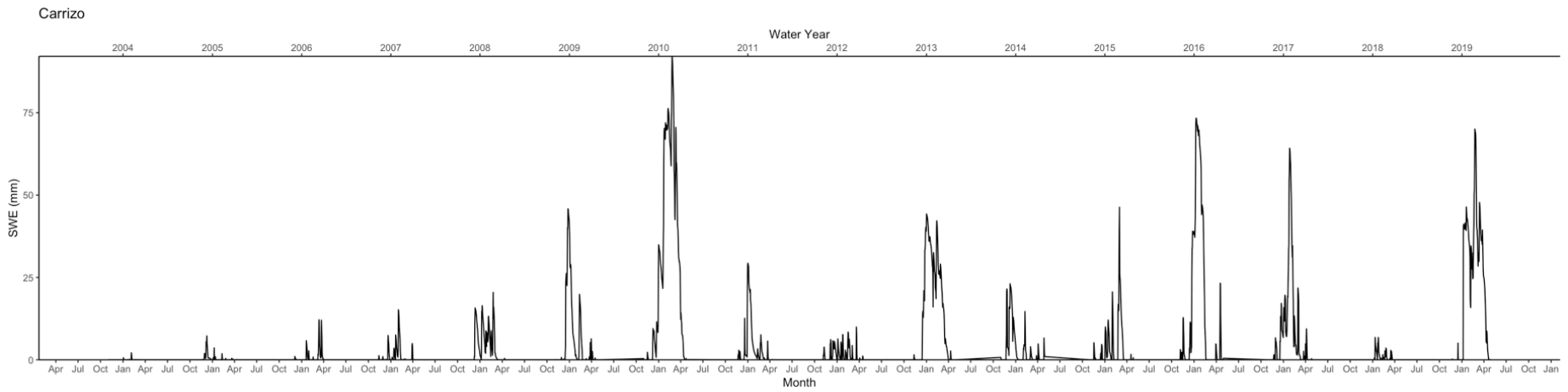
AnnaClaire Marley

03/07/2019

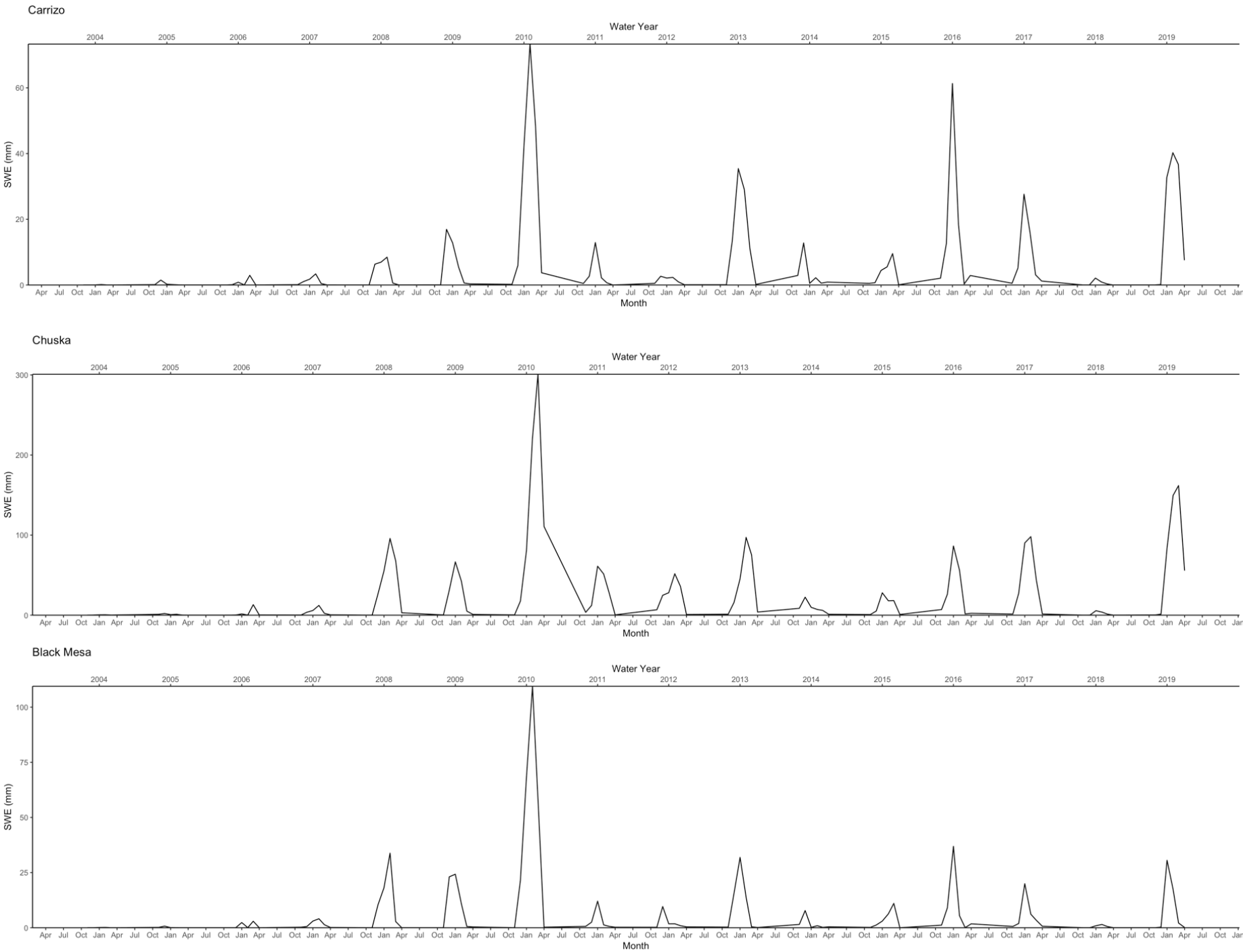
Analyses:

- All three regions generally follow the same trends in SWE over time
- 2010 was a high SWE year
- Black Mesa and Carrizo are the most closely correlated

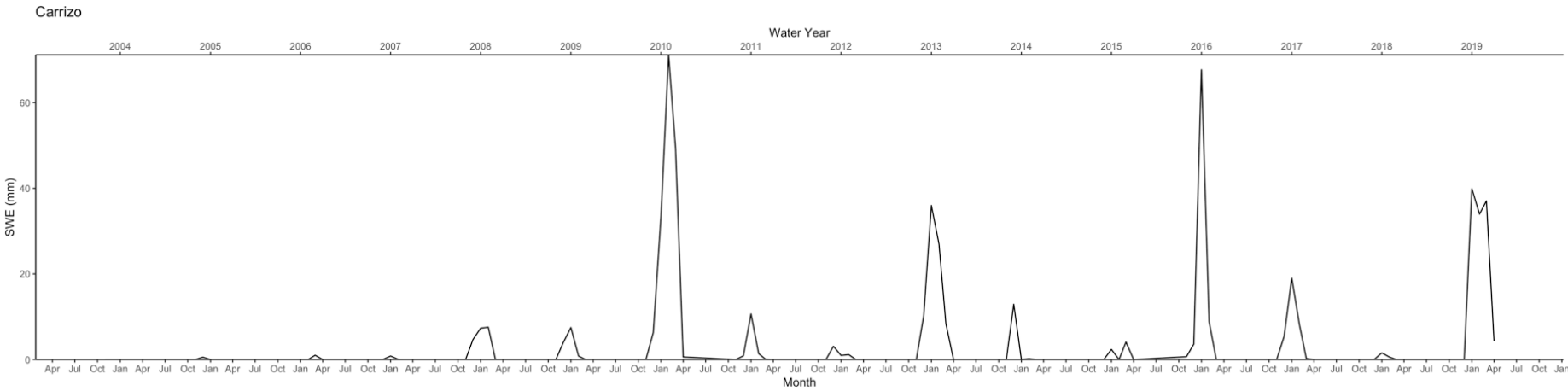
Daily SWE variability (November - April Water Year)

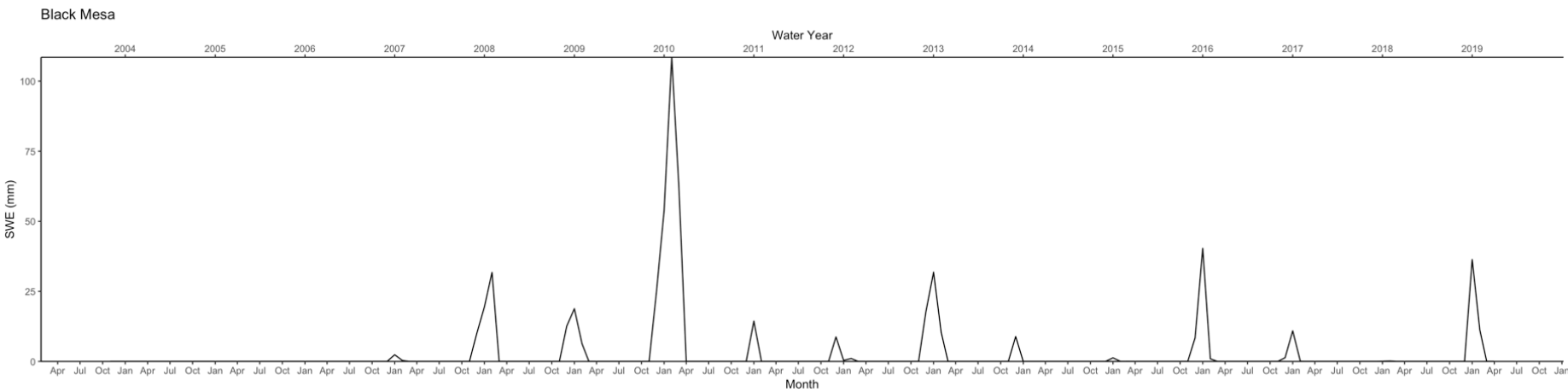
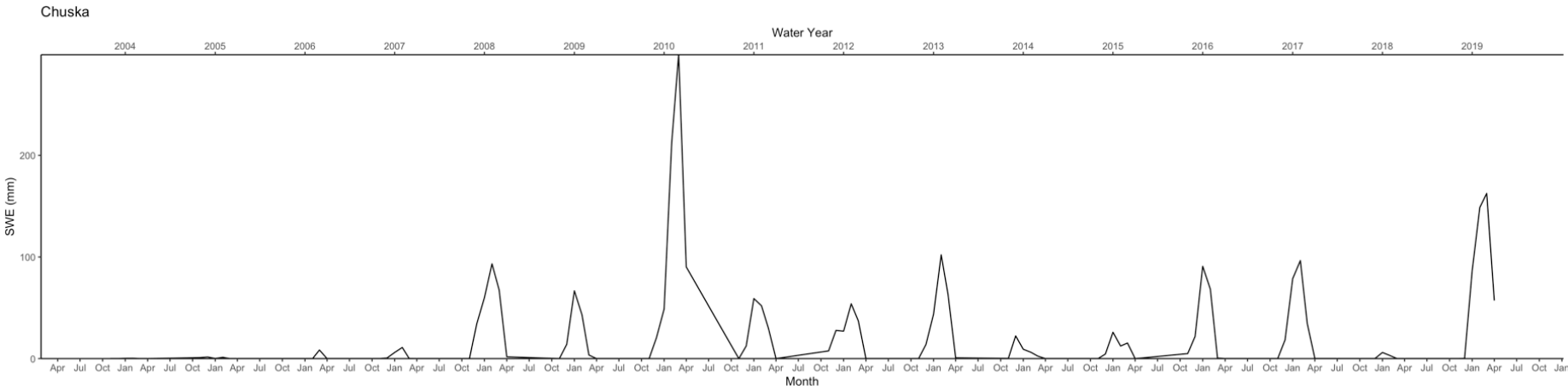


Monthly Mean SWE variability (November - April Water Year)

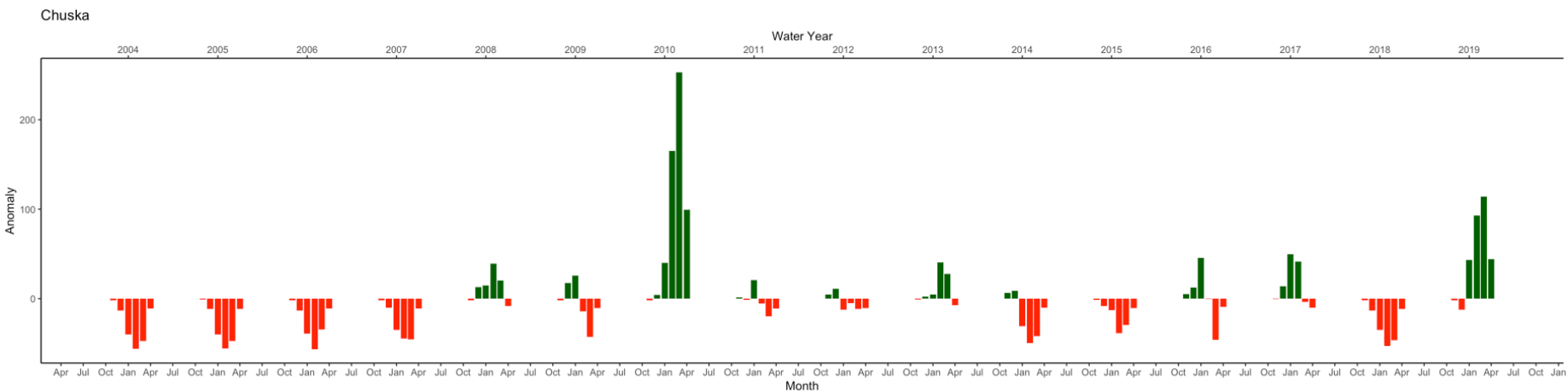
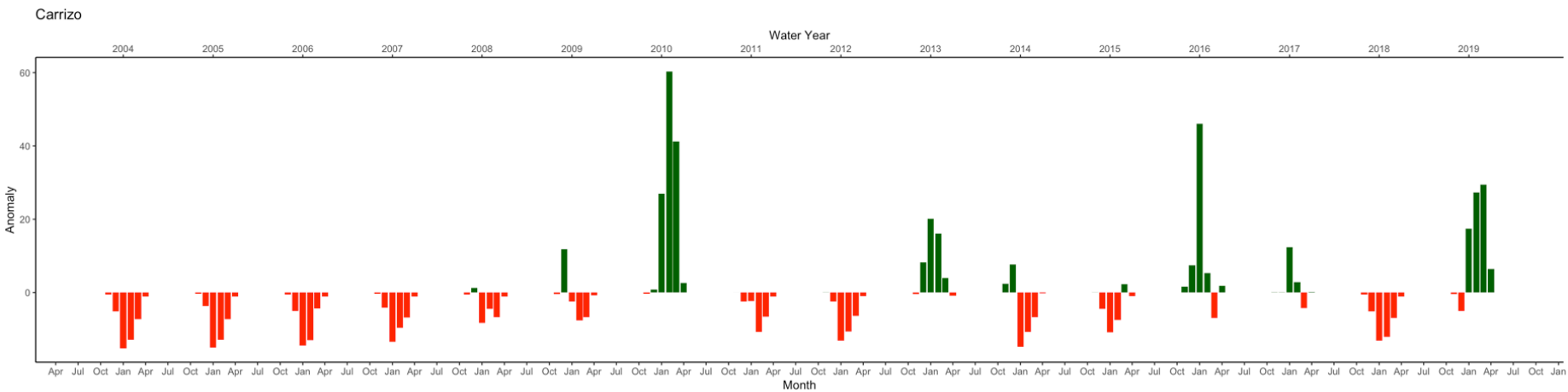


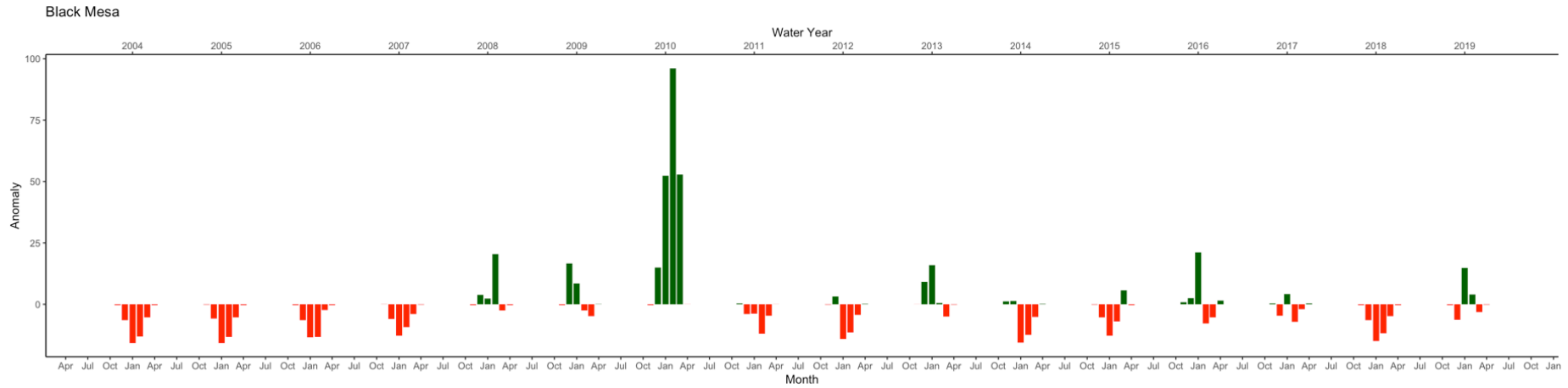
Monthly Median





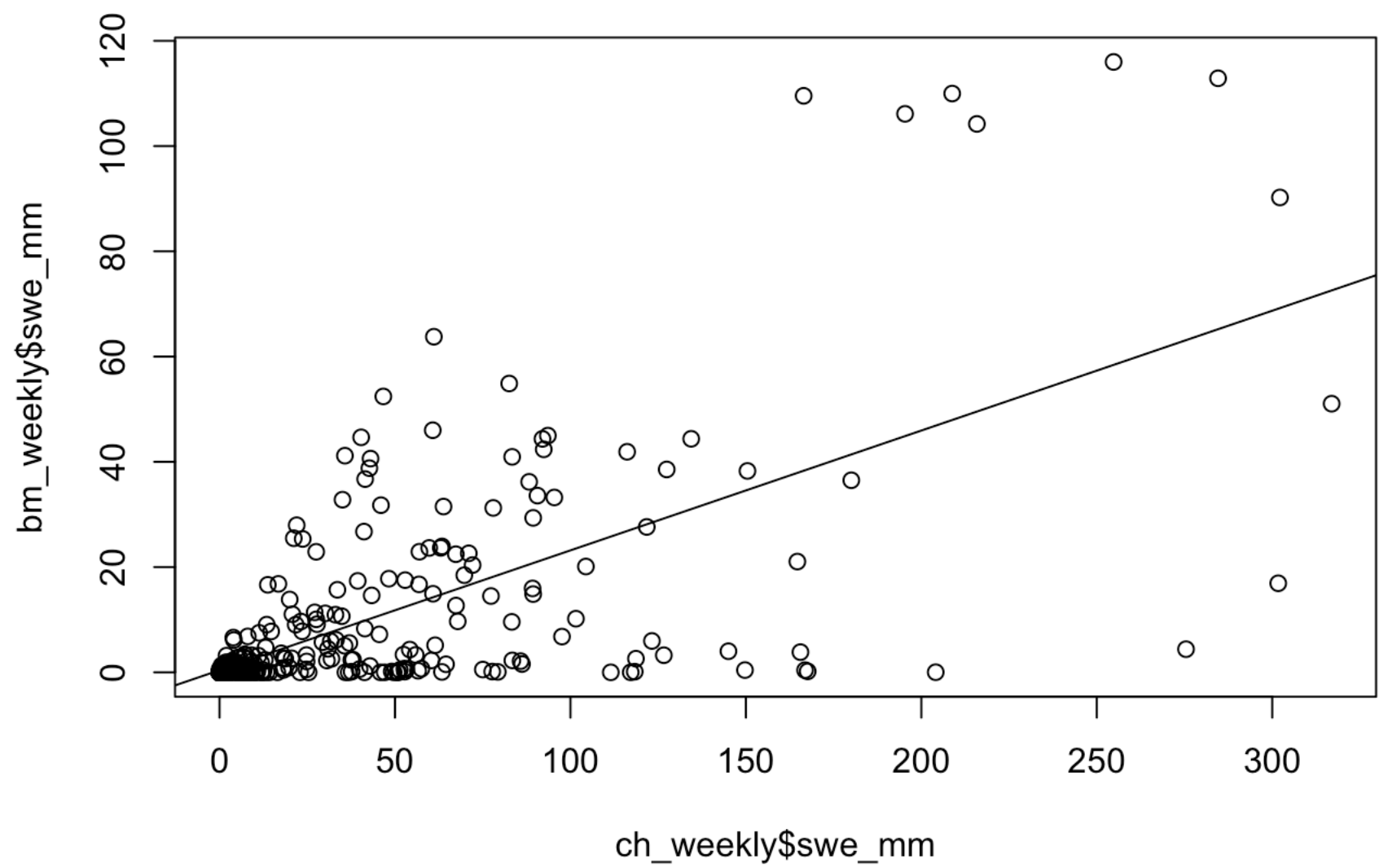
Monthly Anomalies (November - April Water Year)



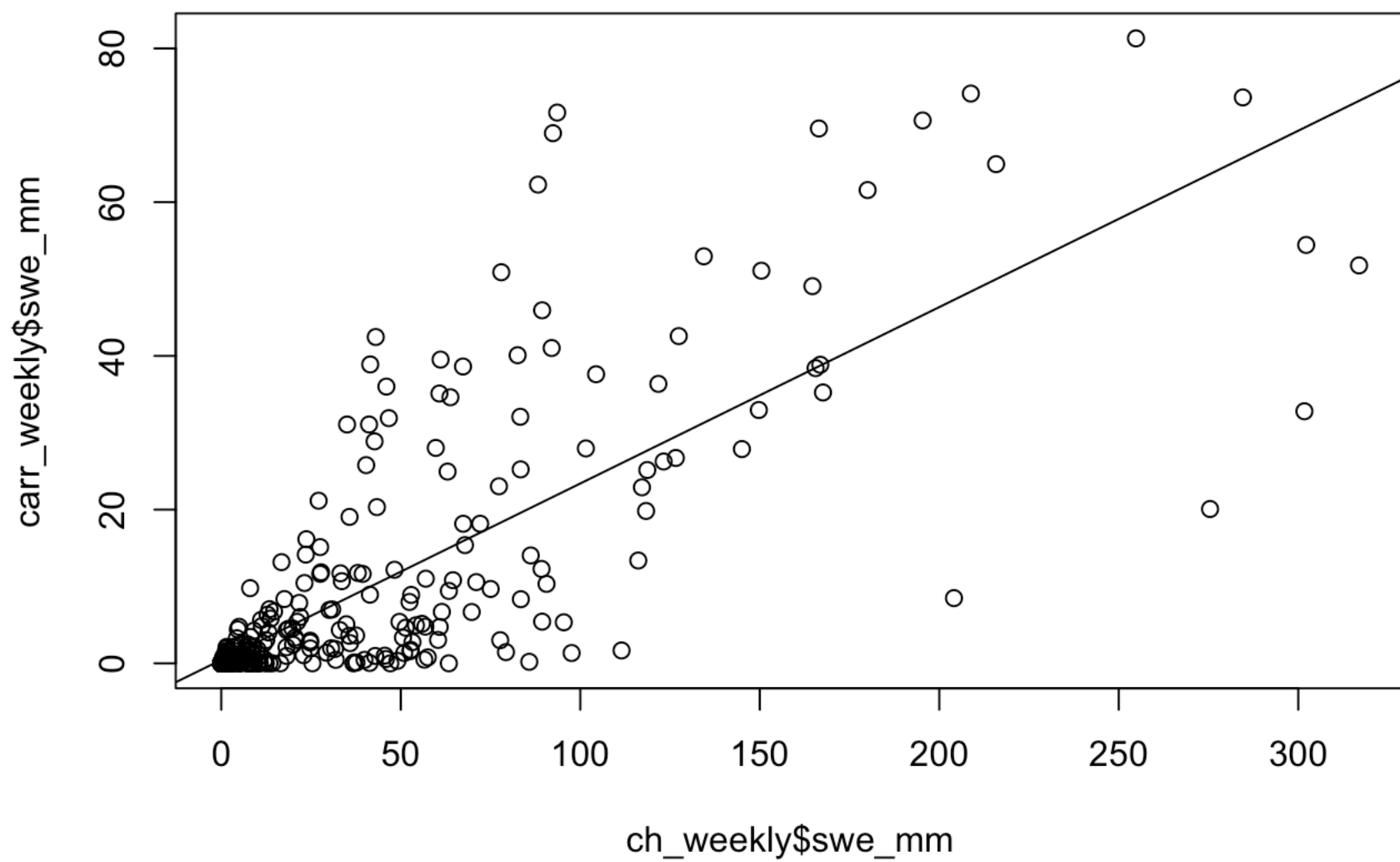


Correlations Between locations

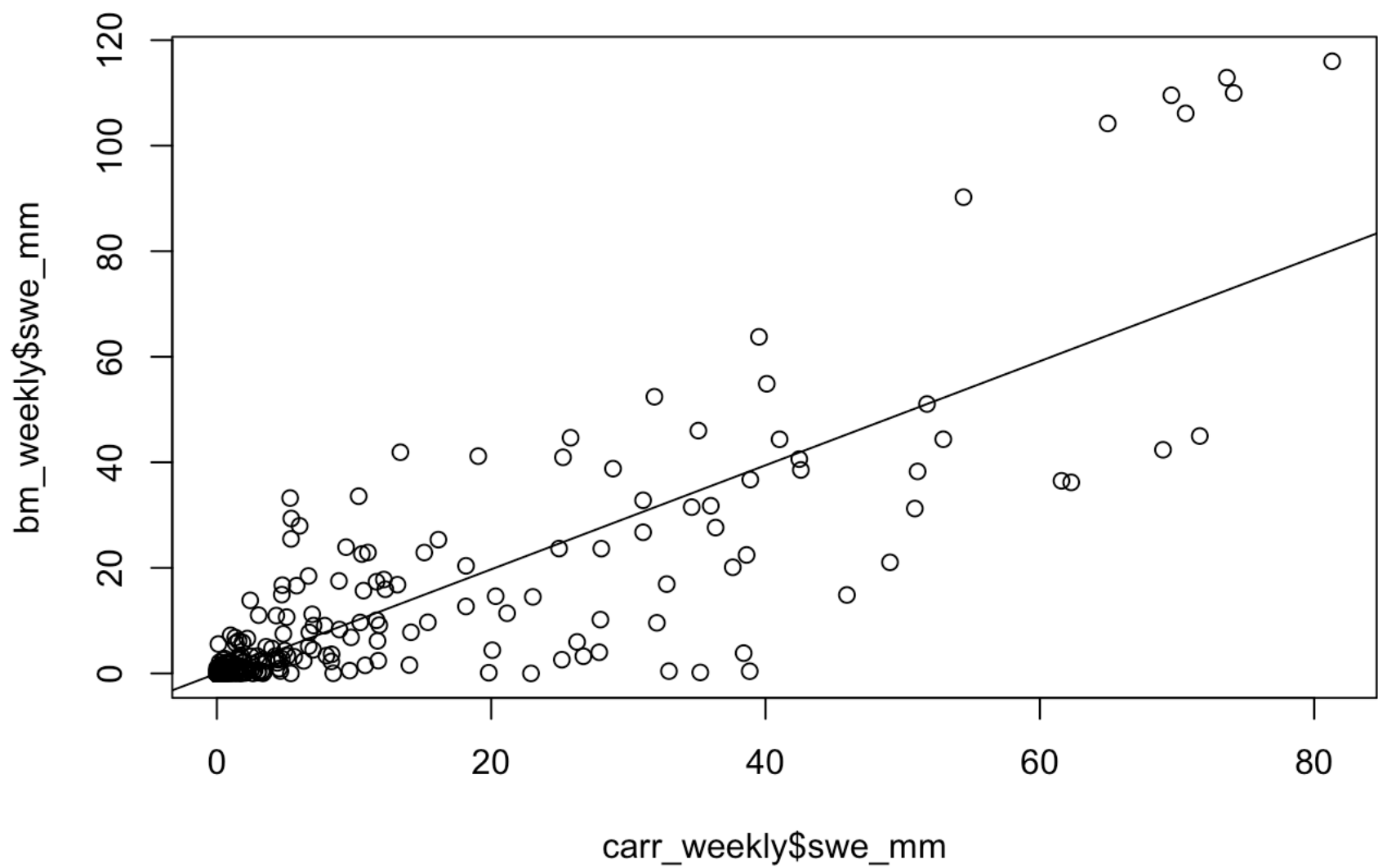
Weekly mean correlation November - April



Chuska vs Black Mesa R squared: 0.4634808



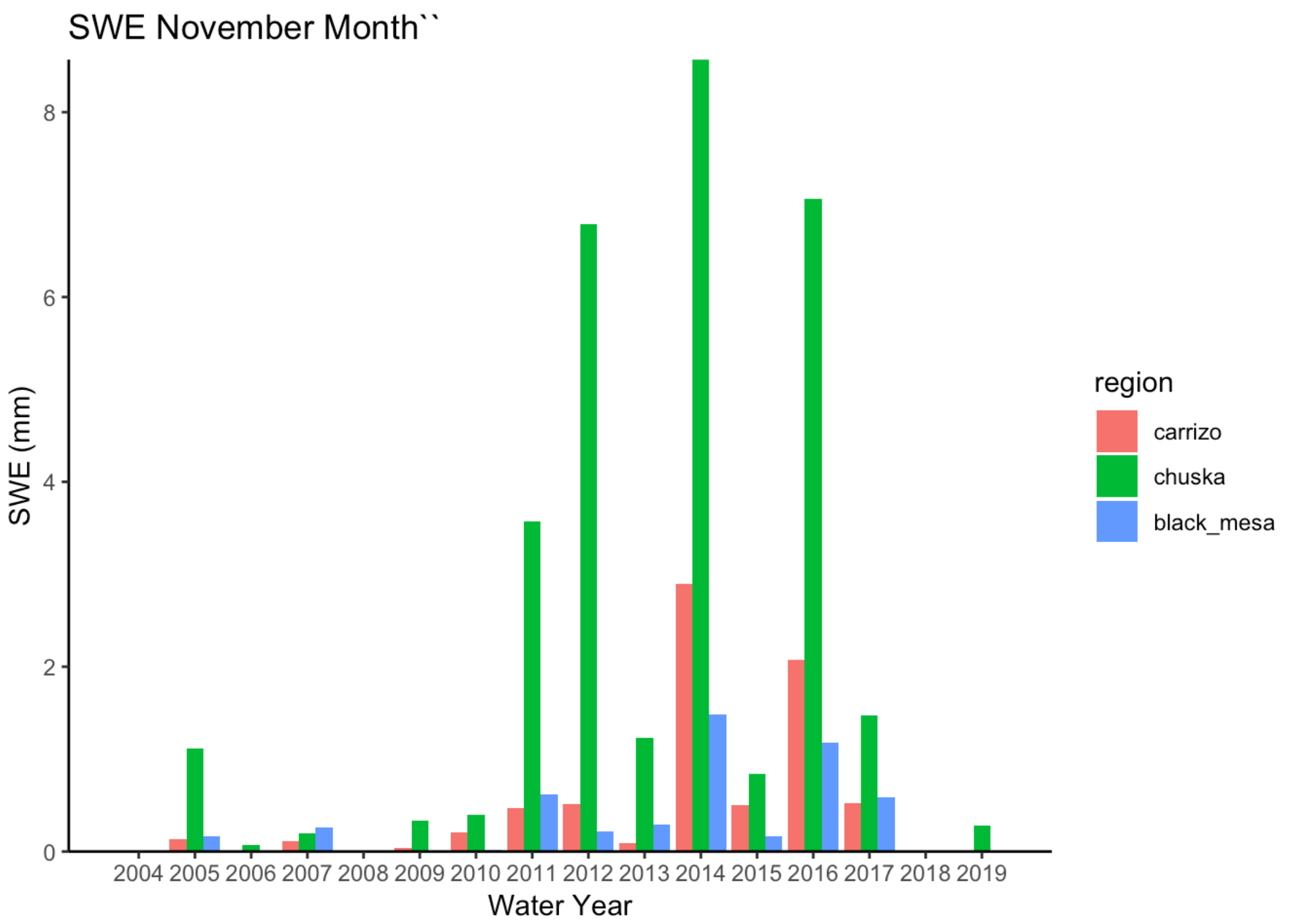
Chuska vs Carrizo R squared: 0.631619



Black Mesa vs Carrizo R squared: 0.7250093

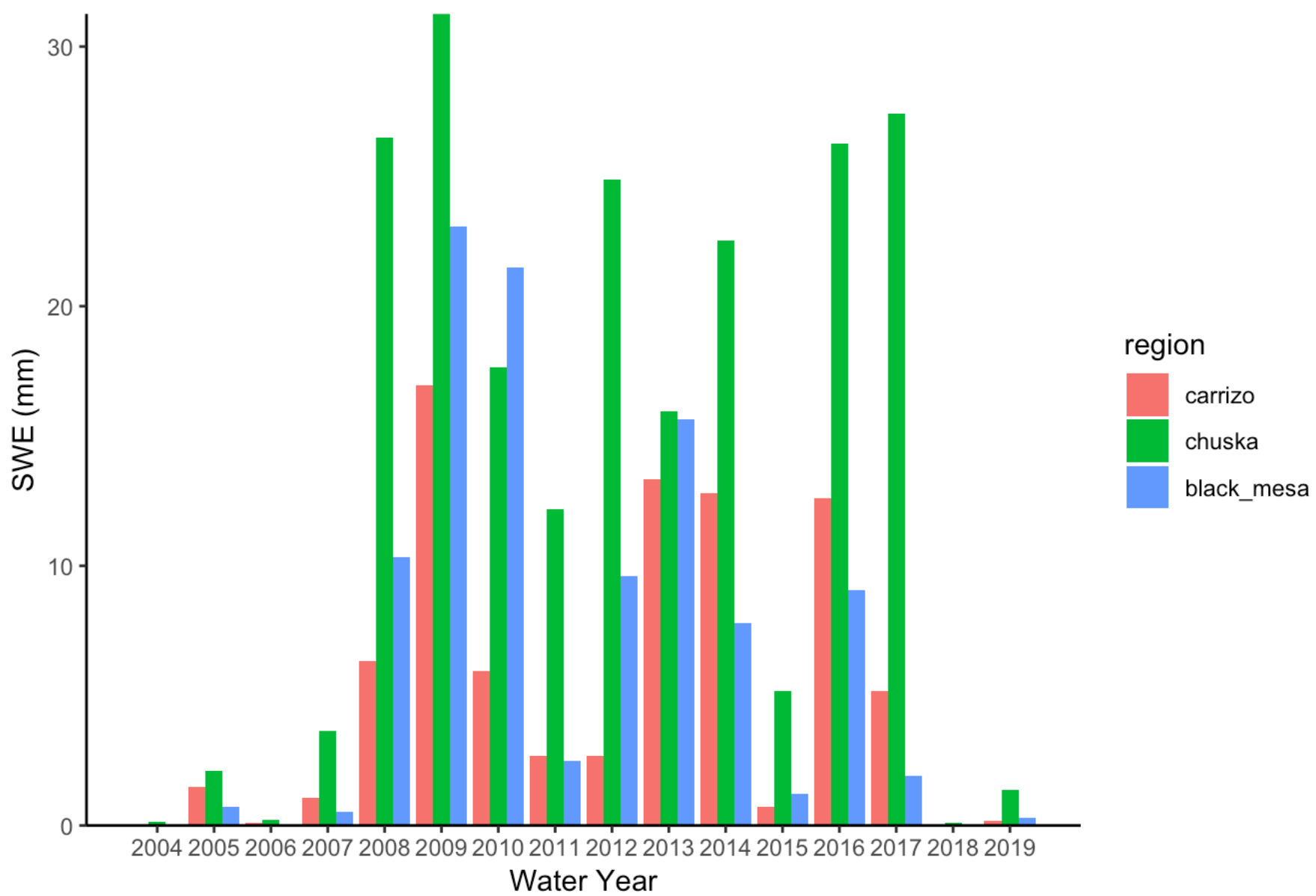
Month specific time series

November



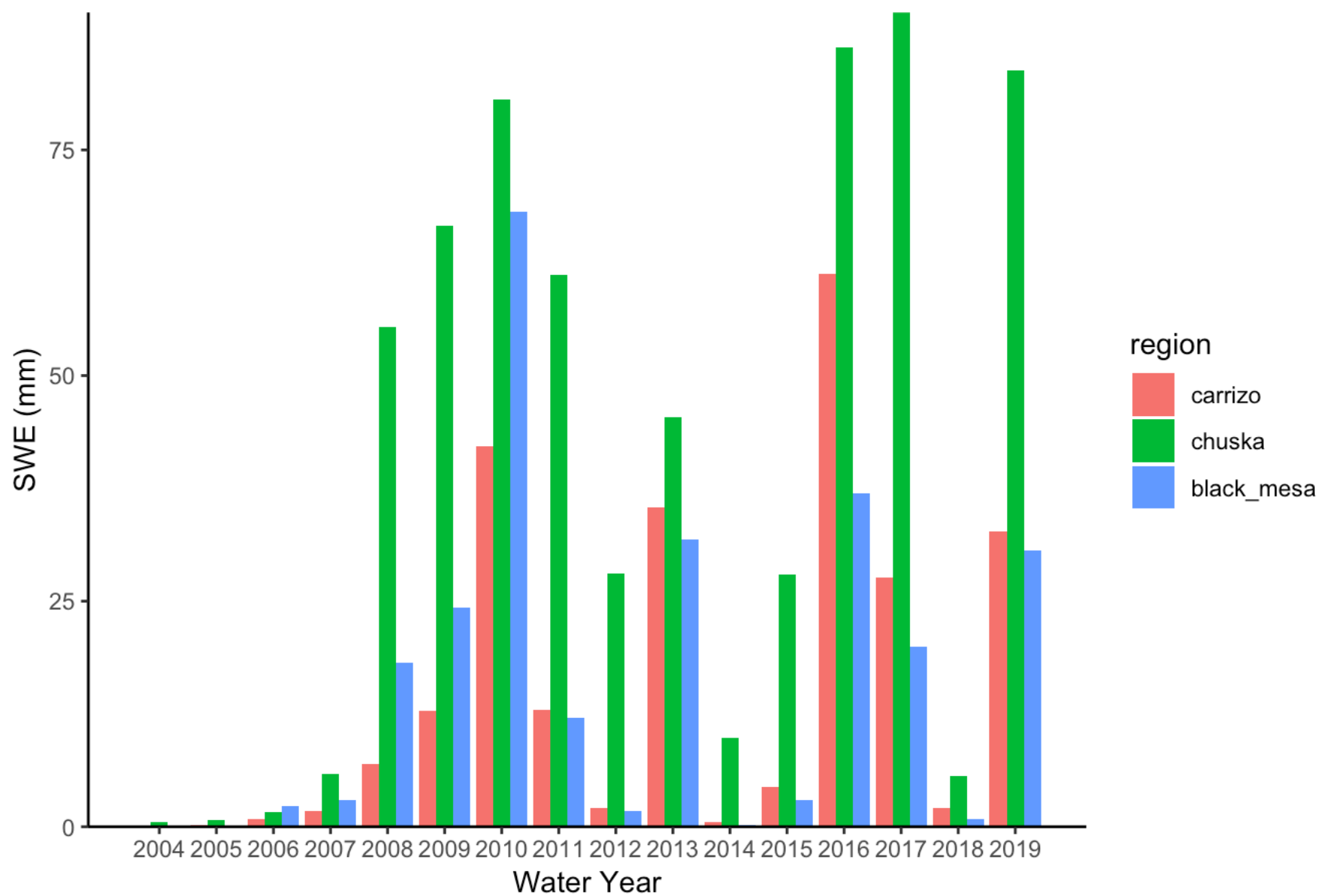
December

SWE December Month``



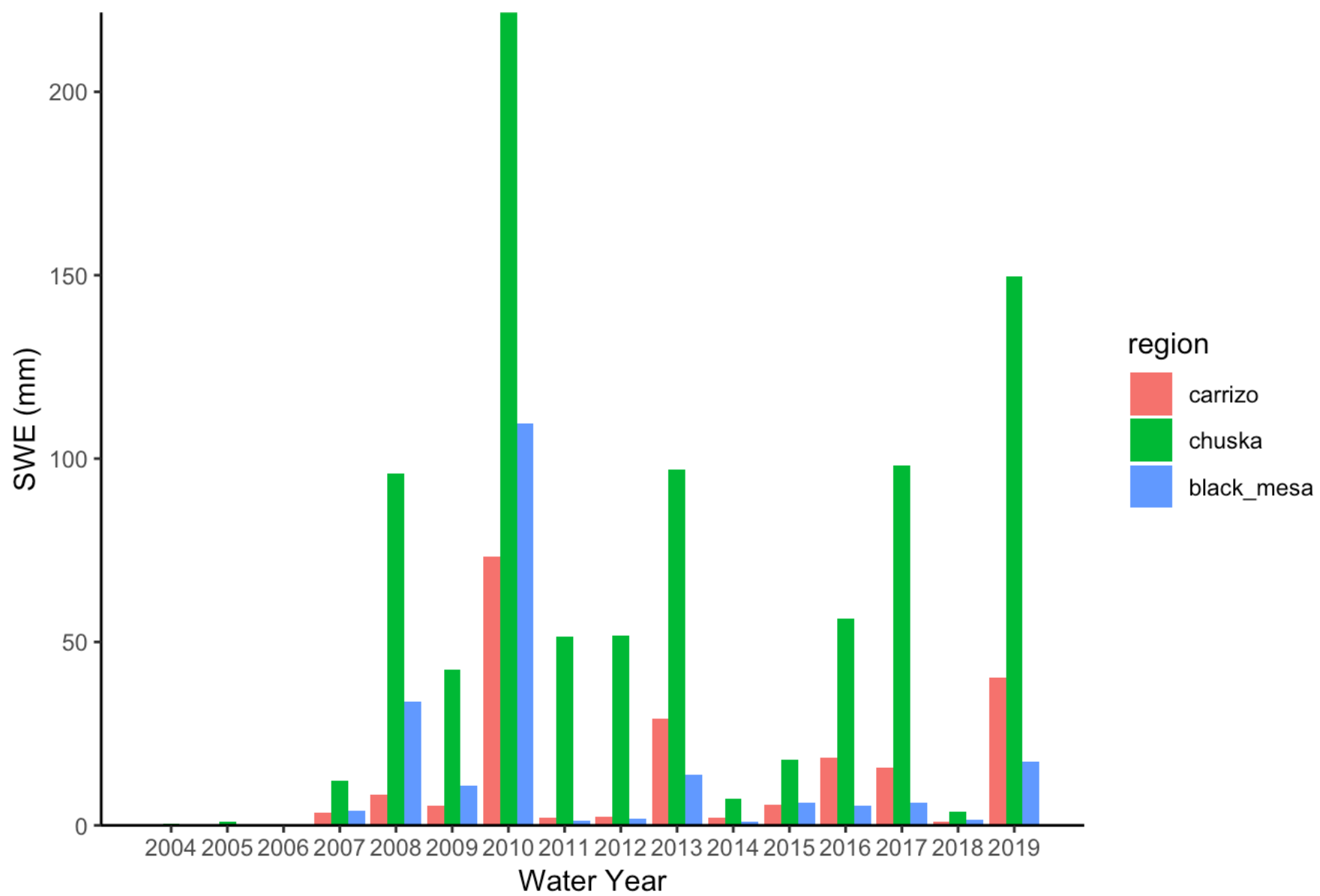
January

SWE January Month``



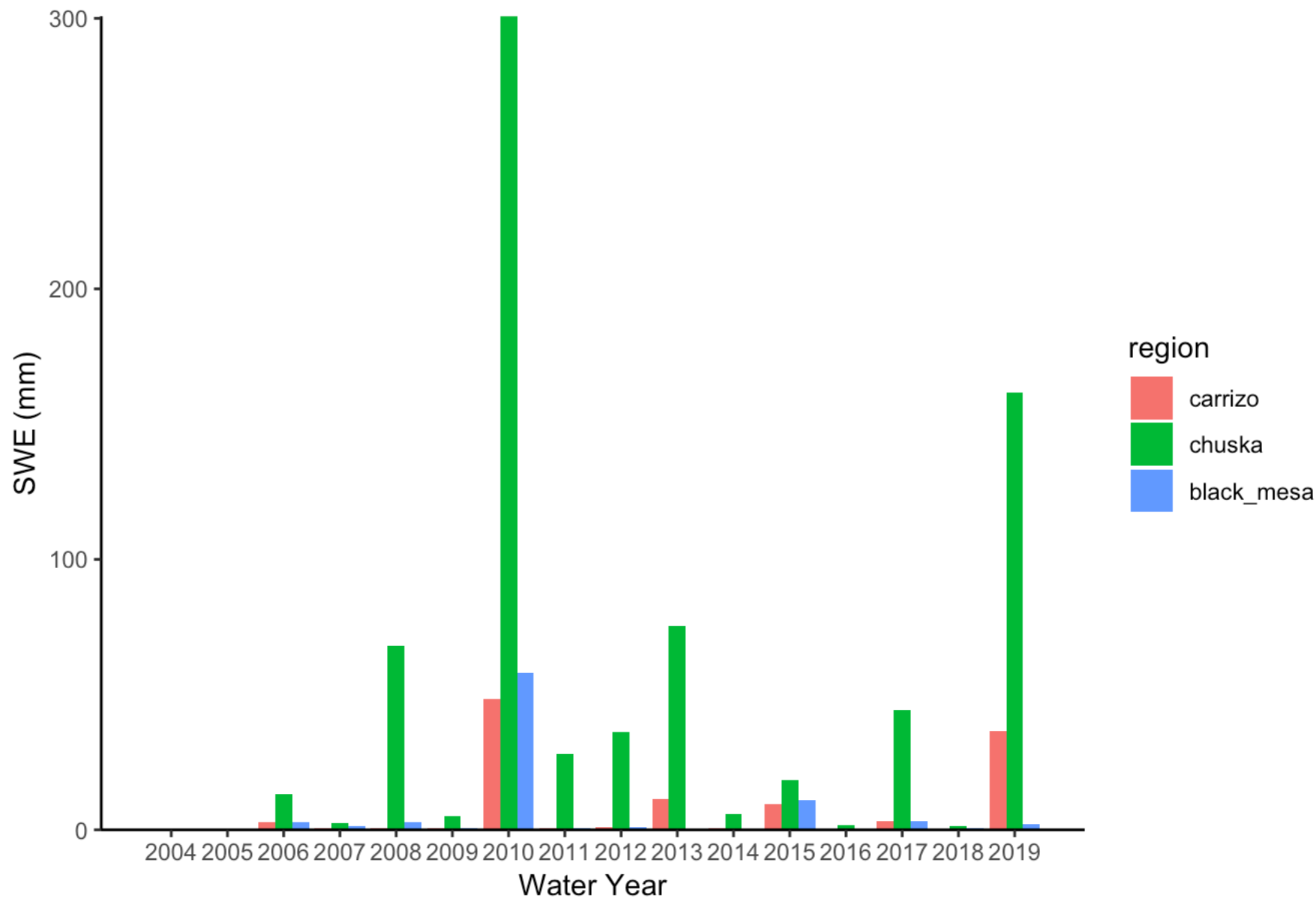
February

SWE February Month``



March

SWE March Month``



April

SWE April Month``

