

Economic Output and Risk Factors

Nathan Seto

What is the relationship between health risk concentrations and economic output?

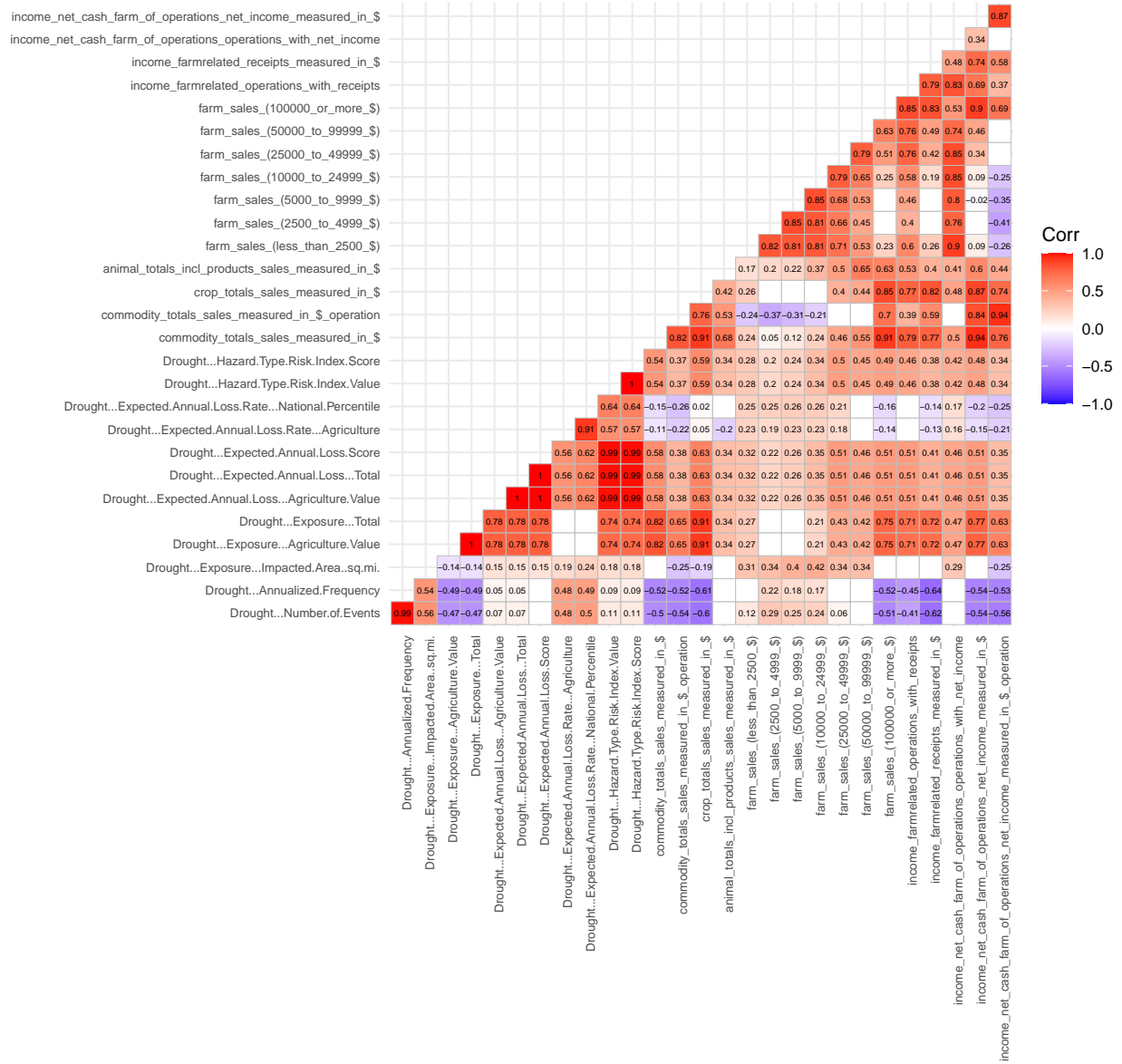
Calculate correlations between environmental exposures and farm sales (and/or other econ. variables) to understand economic linkages.

The values used as variables of economic output are listed below. Variables ending in “*operation*” denote “*dollars per operation*”.

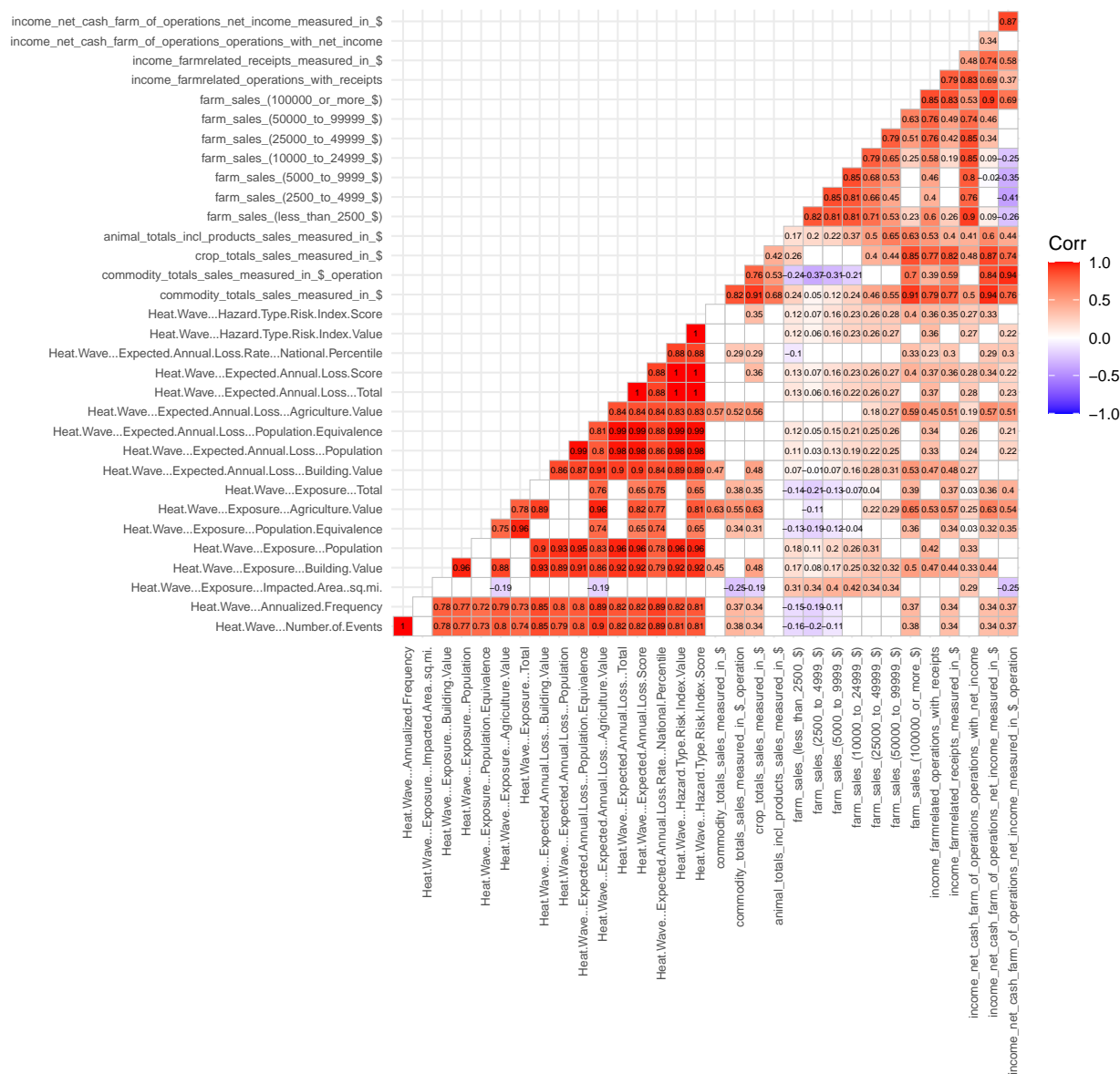
```
## [[1]]
## [1] "commodity_totals_sales_measured_in_$"
## [2] "commodity_totals_sales_measured_in_$_operation"
## [3] "crop_totals_sales_measured_in_$"
## [4] "animal_totals_incl_products_sales_measured_in_$"
## [5] "commodity_totals_operations_with_sales"
## [6] "farm_sales_(less_than_2500_$)"
## [7] "farm_sales_(2500_to_4999_$)"
## [8] "farm_sales_(5000_to_9999_$)"
## [9] "farm_sales_(10000_to_24999_$)"
## [10] "farm_sales_(25000_to_49999_$)"
## [11] "farm_sales_(50000_to_99999_$)"
## [12] "farm_sales_(100000_or_more_$)"
## [13] "income_farmrelated_operations_with_receipts"
## [14] "income_farmrelated_receipts_measured_in_$"
## [15] "income_net_cash_farm_of_operations_operations_with_net_income"
## [16] "income_net_cash_farm_of_operations_net_income_measured_in_$"
## [17] "income_net_cash_farm_of_operations_net_income_measured_in_$_operation"
```

Below are a series of correlation plots between variables of economic output and different weather/natural disaster predictors.

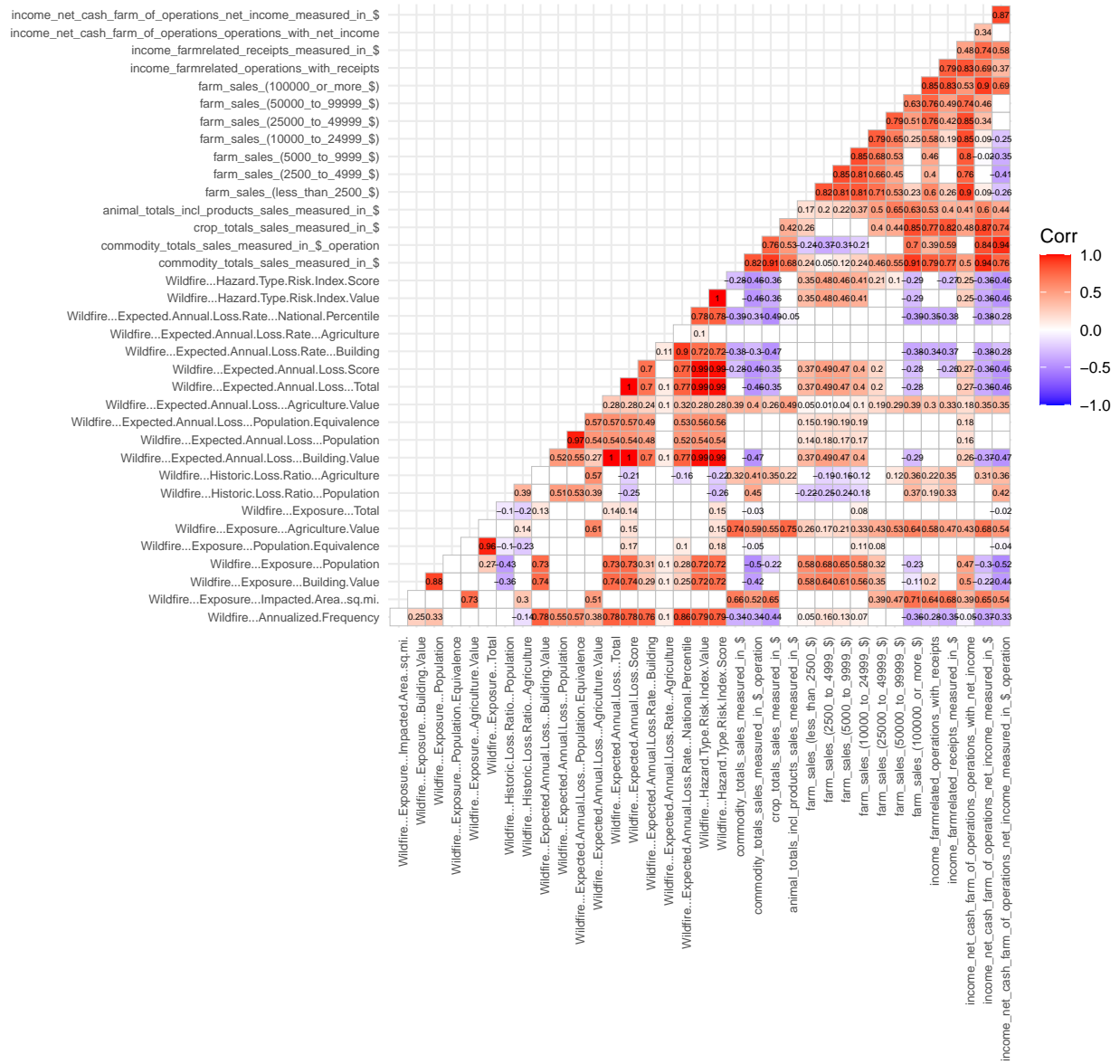
Correlation Plot: Drought



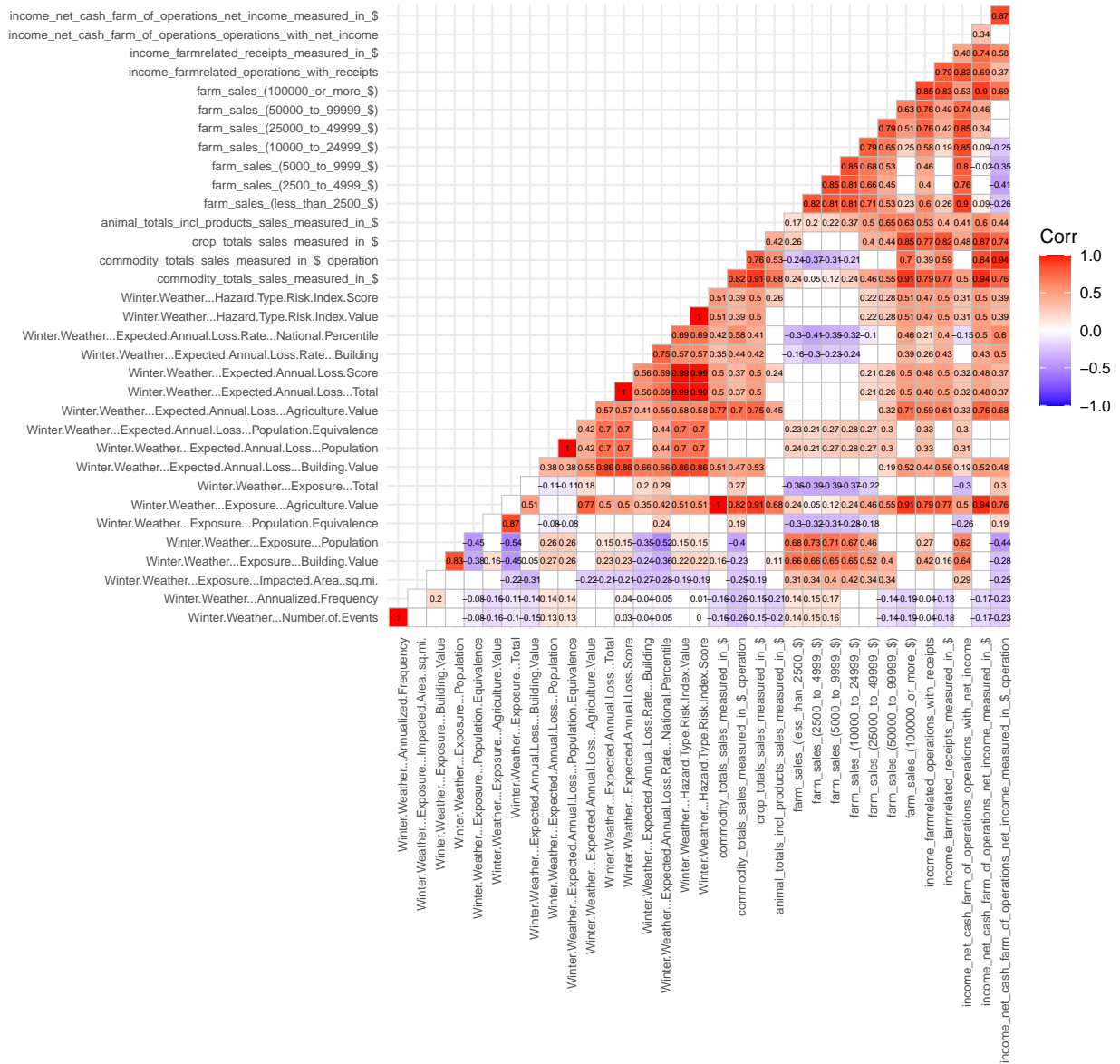
Correlation Plot: Heat Wave



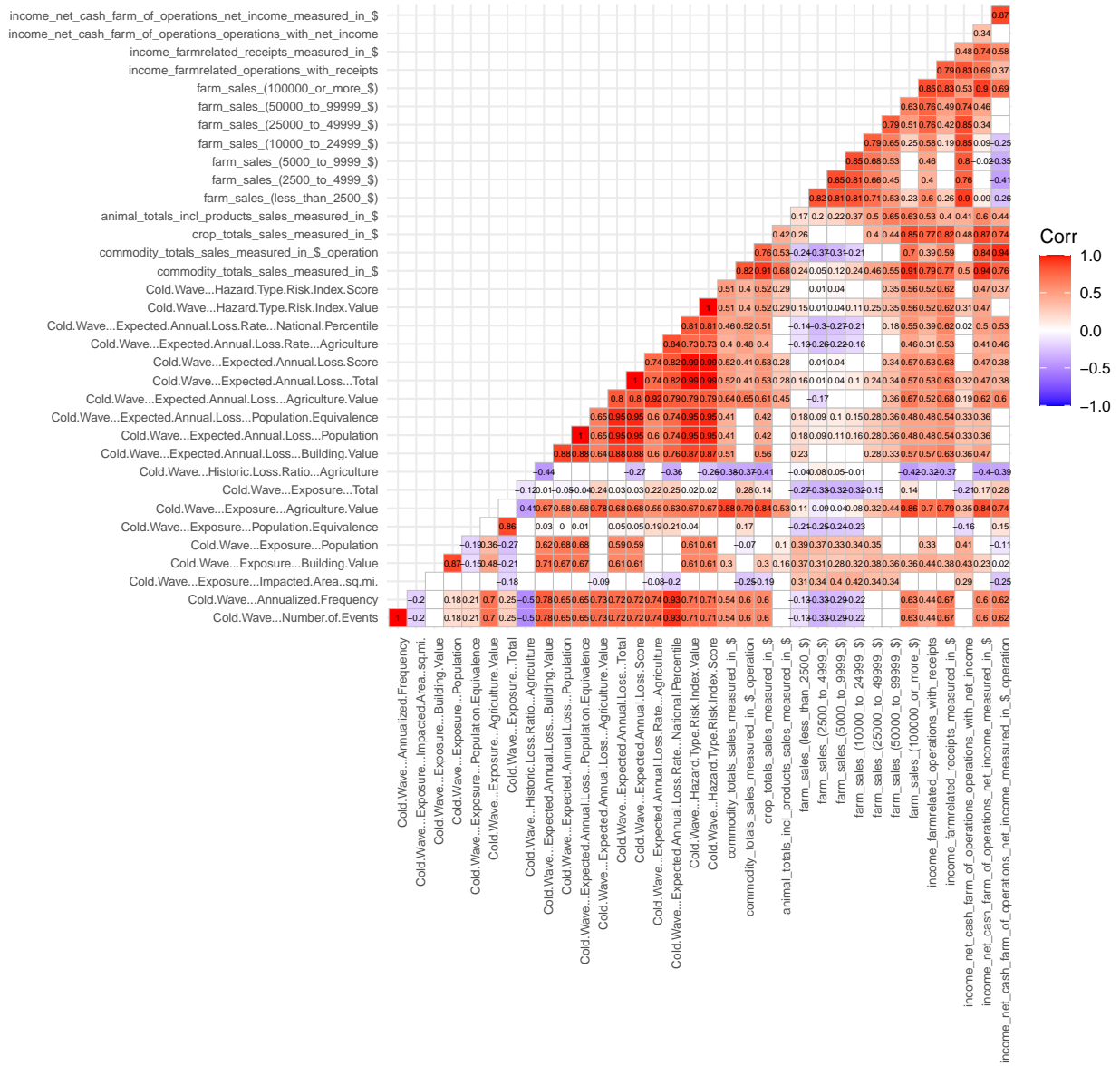
Correlation Plot: Wildfire



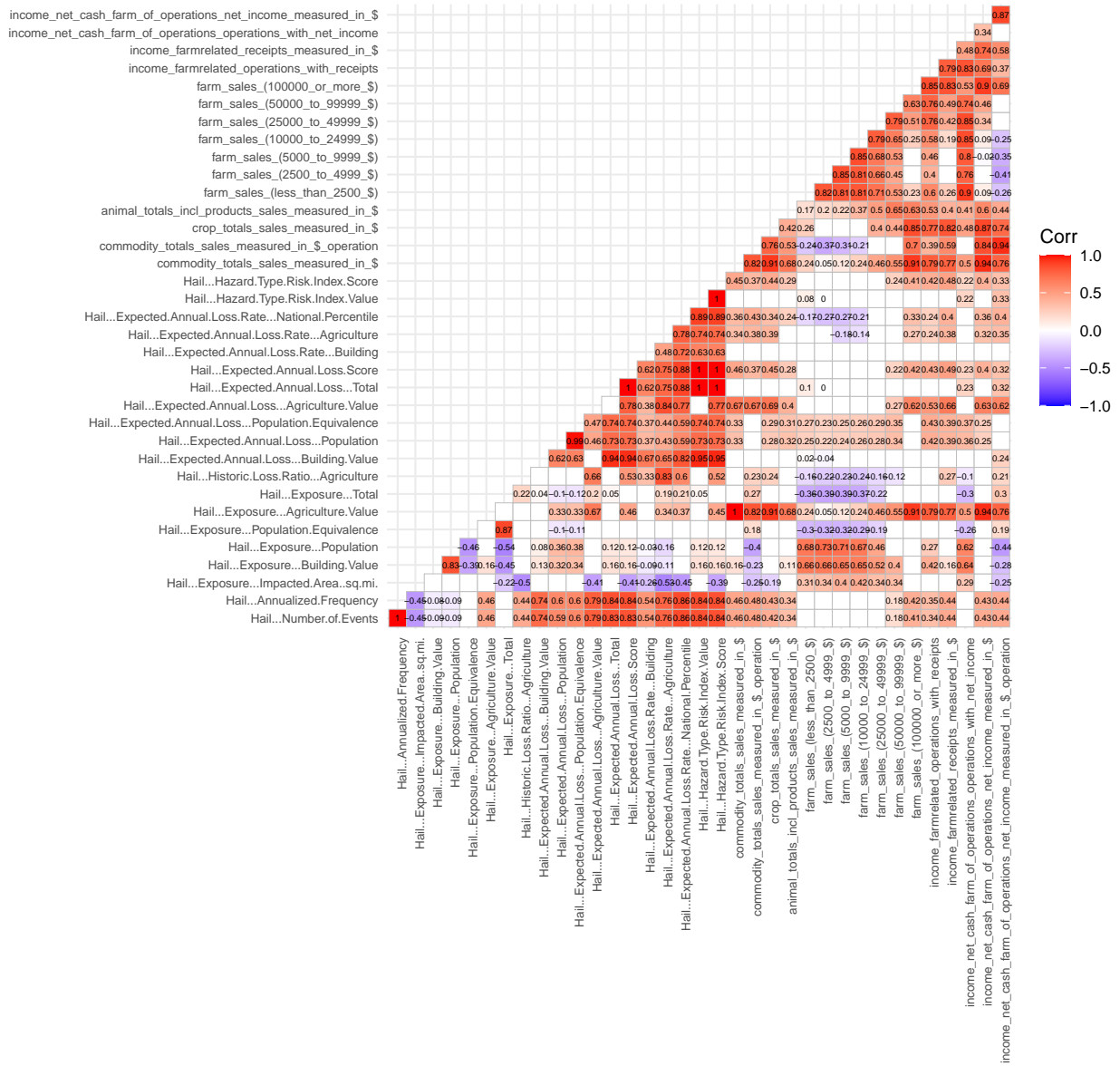
Correlation Plot: Winter Weather



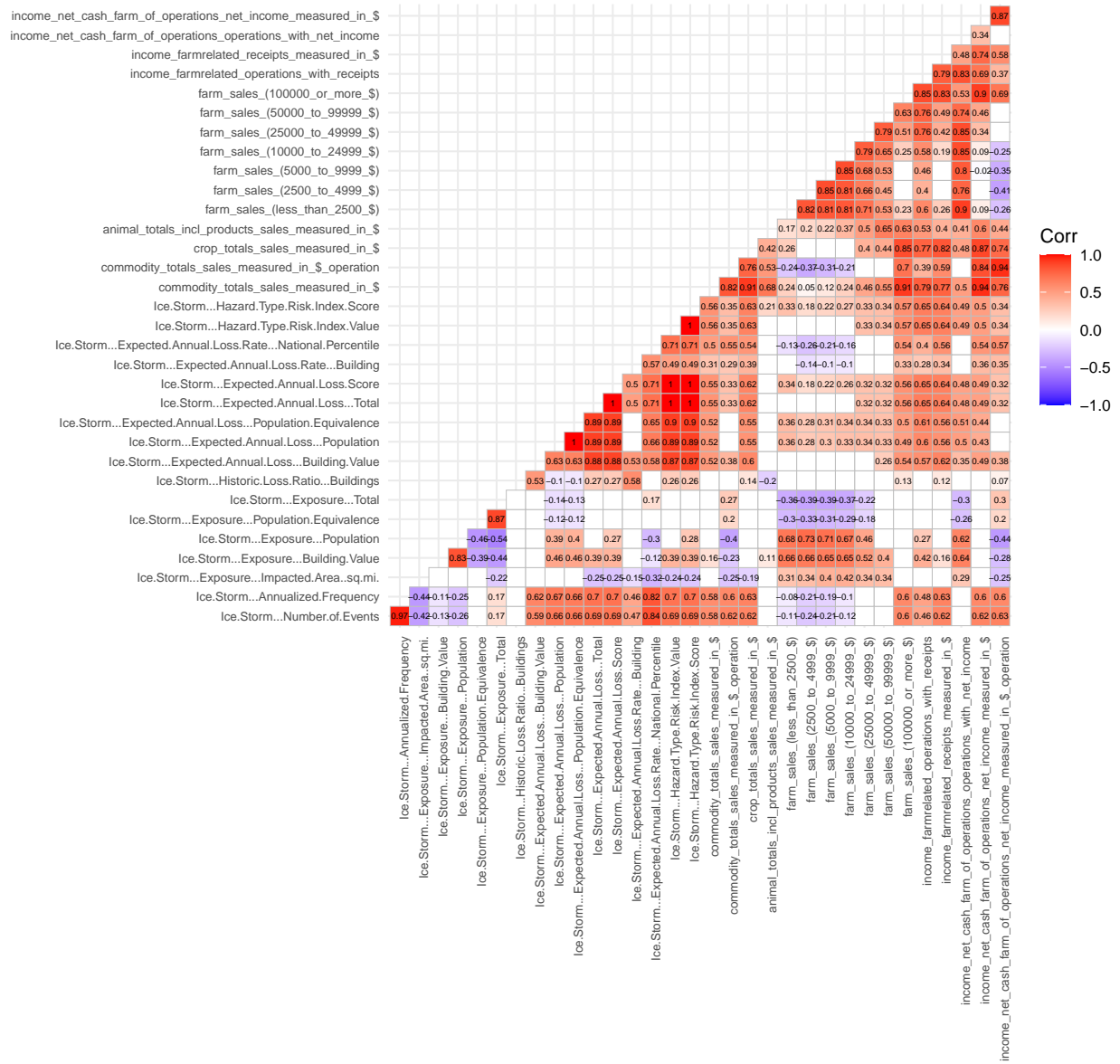
Correlation Plot: Cold Wave



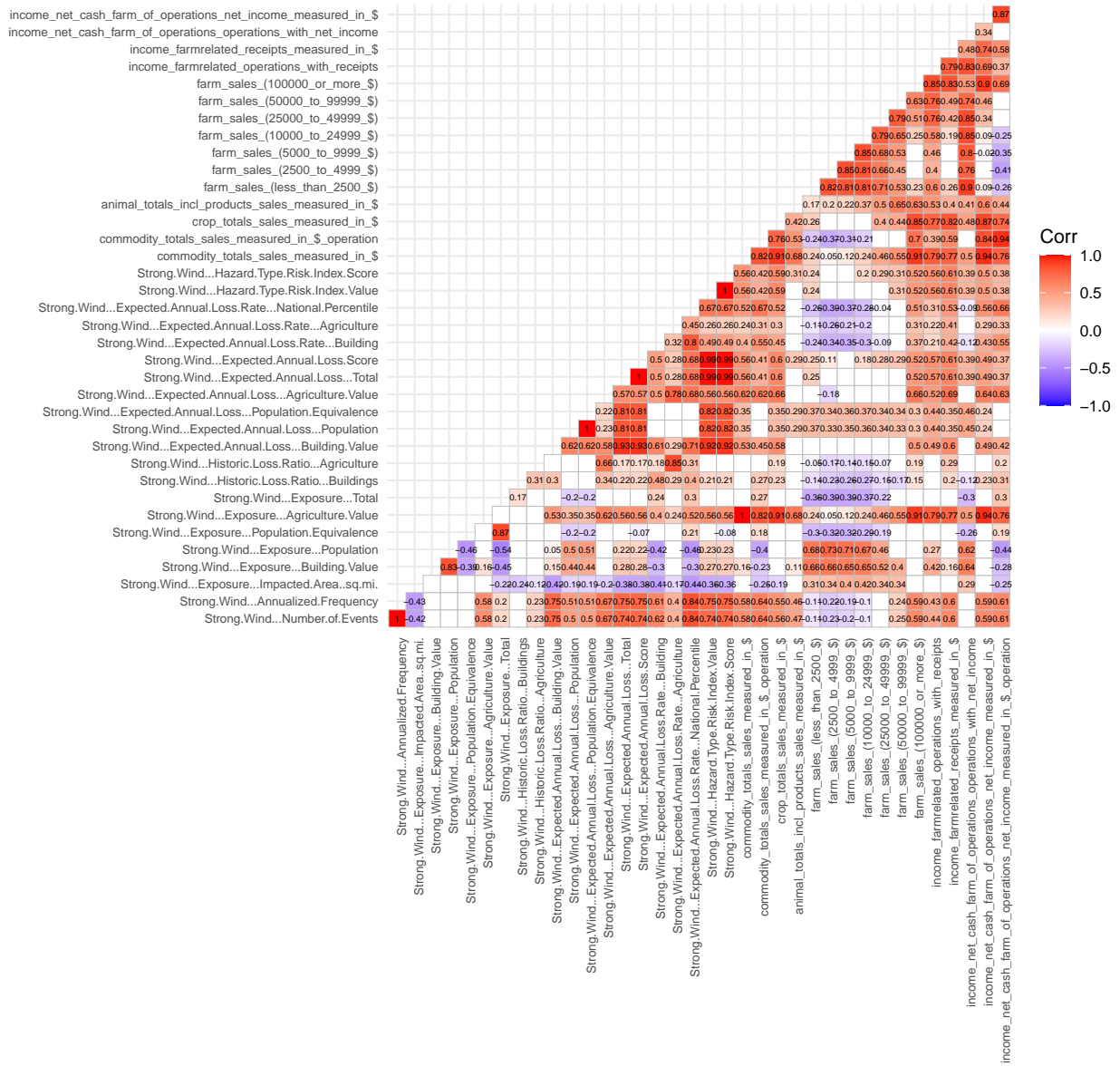
Correlation Plot: Hail



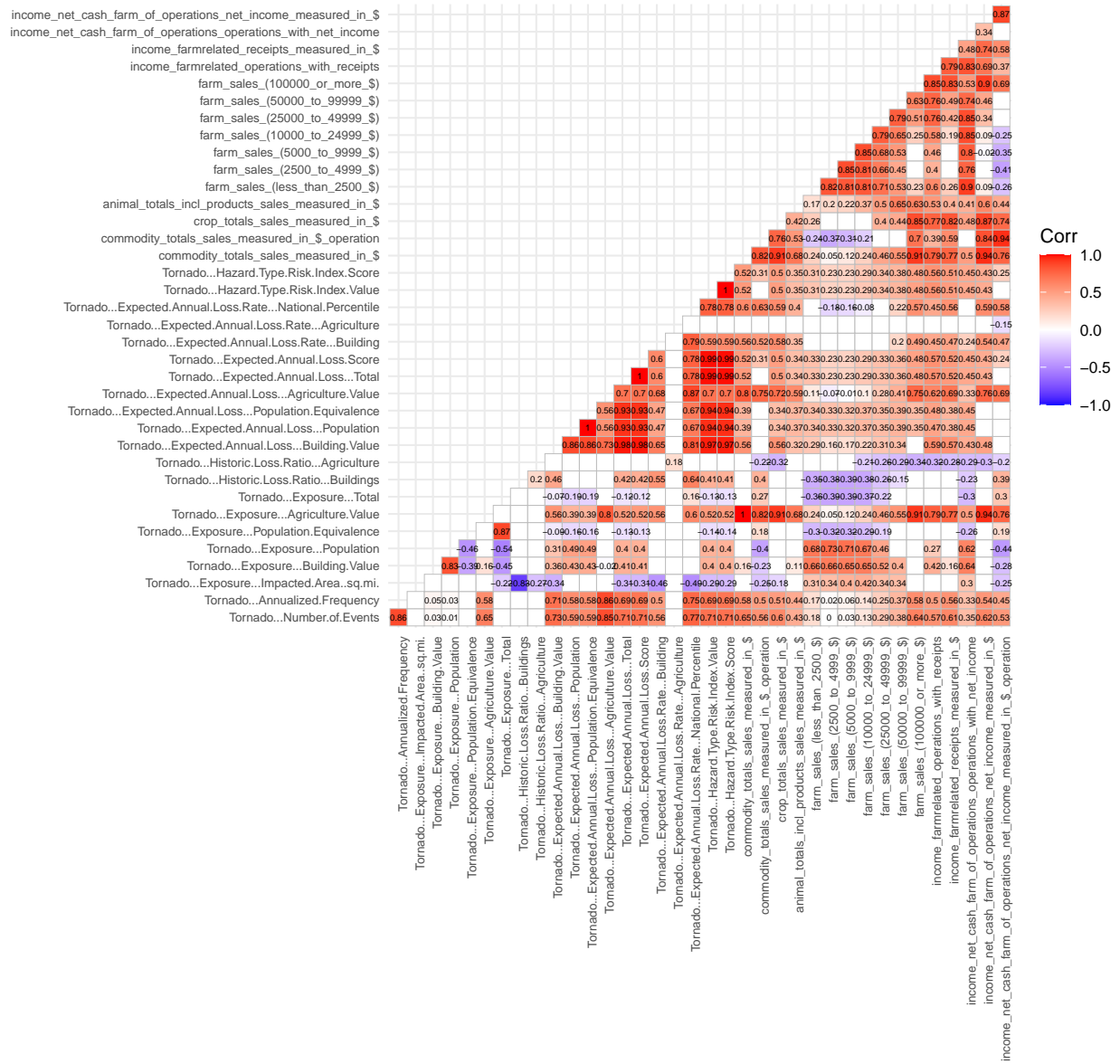
Correlation Plot: Ice Storm



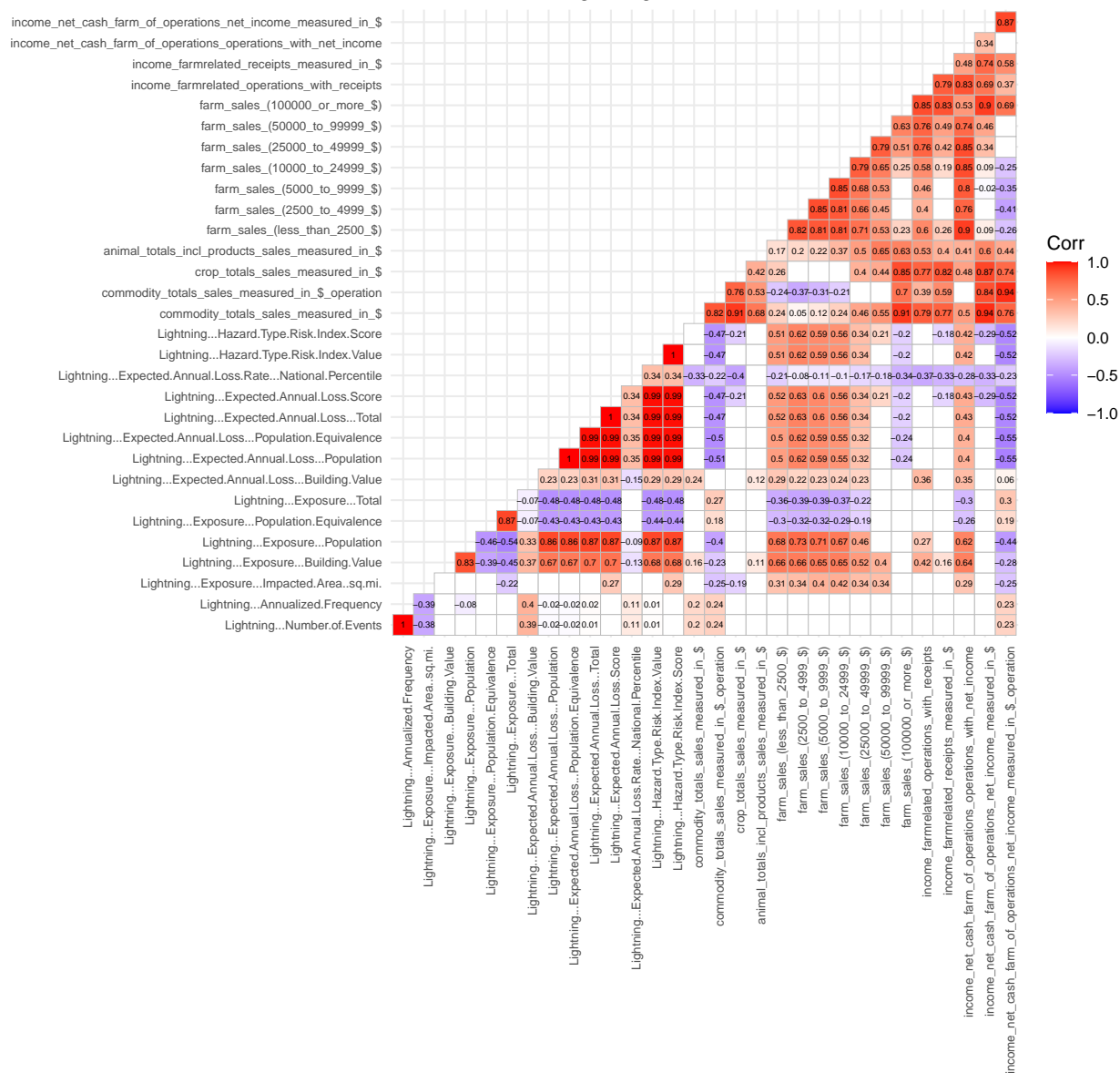
Correlation Plot: Strong Wind



Correlation Plot: Tornado



Correlation Plot: Lightning



Correlation Plot: Avalanche

