**TABLEAU CODES**

1. **EWE:**

**Count of EWE**  
IF [Extreme Weather Events] <> "None" THEN 1 ELSE 0 END

**Current month EWE (Parameter)**  
IF DATENAME('month', [Date]) = [Select Month ] THEN [Count of EWE] END

**Previous Month EWE**IF DATENAME('month',[Date]) =

CASE [Select Month ]

WHEN 'January' THEN 'December'

WHEN 'February' THEN 'January'

WHEN 'March' THEN 'February'

WHEN 'April' THEN 'March'

WHEN 'May' THEN 'April'

WHEN 'June' THEN 'May'

WHEN 'July' THEN 'June'

WHEN 'August' THEN 'July'

WHEN 'September' THEN 'August'

WHEN 'October' THEN 'September'

WHEN 'November' THEN 'October'

WHEN 'December' THEN 'November'

END

THEN [Count of EWE]

END

**% Difference between current month EWE and previous month**(SUM([Current month EWE]) - SUM([Previous Month EWE]) )/ SUM([Previous Month EWE])

(you can right click on select month, then show parameter to change the percentage change for different months)

**Bad percentage EWE**  
IF [% Difference EWE] > 0 THEN "▲ " + STR(ROUND([% Difference EWE] \* 100, 2)) + "%"

ELSE

""

END

**Good Percentage EWE**IF [% Difference EWE] < 0 THEN "▼ " + STR(ROUND([% Difference EWE] \* 100, 2)) + "%"

ELSE

""

END

1. **AQI**

**Average AQI**  
AVG([AQI])

**Current Month AQI**  
IF DATENAME('month',[Date]) = [Select Month ] THEN

{FIXED DATENAME('month',[Date]) : AVG([AQI])}

END

**Previous Month AQI**IF DATENAME('month',[Date]) =

CASE [Select Month ]

WHEN 'January' THEN 'December'

WHEN 'February' THEN 'January'

WHEN 'March' THEN 'February'

WHEN 'April' THEN 'March'

WHEN 'May' THEN 'April'

WHEN 'June' THEN 'May'

WHEN 'July' THEN 'June'

WHEN 'August' THEN 'July'

WHEN 'September' THEN 'August'

WHEN 'October' THEN 'September'

WHEN 'November' THEN 'October'

WHEN 'December' THEN 'November'

END

THEN {FIXED DATENAME('month',[Date]) : AVG([AQI])}

END

**% Difference between current month AQI and previous month**(SUM([Current month AQI]) - SUM([Previous Month AQI])) / SUM([Previous Month AQI])

**Bad Percentage AQI**   
IF [% Difference in AQI] >= 0.03

THEN

IF [% Difference in AQI] > 0

THEN "▲ " + STR(ROUND([% Difference in AQI] \* 100, 2)) + "%" // Increase (bad)

ELSE "▼ " + STR(ROUND([% Difference in AQI] \* 100, 2)) + "%" // Decrease (bad)

END

ELSE

""

END

**Good Percentage AQI**   
IF [% Difference in AQI] < 0.03

THEN

IF [% Difference in AQI] > 0

THEN "▲ " + STR(ROUND([% Difference in AQI] \* 100, 2)) + "%" // Increase (good)

ELSE "▼ " + STR(ROUND([% Difference in AQI] \* 100, 2)) + "%" // Decrease (good)

END

ELSE

""

END

1. **Precipitation**

**Average Precipitation**  
AVG([Precipitation])

**Current Month Precipitation**  
IF DATENAME('month',[Date]) = [Select Month ] THEN

{FIXED DATENAME('month',[Date]) : AVG([Precipitation])}

END

**Previous Month Precipitation**IF DATENAME('month',[Date]) =

CASE [Select Month ]

WHEN 'January' THEN 'December'

WHEN 'February' THEN 'January'

WHEN 'March' THEN 'February'

WHEN 'April' THEN 'March'

WHEN 'May' THEN 'April'

WHEN 'June' THEN 'May'

WHEN 'July' THEN 'June'

WHEN 'August' THEN 'July'

WHEN 'September' THEN 'August'

WHEN 'October' THEN 'September'

WHEN 'November' THEN 'October'

WHEN 'December' THEN 'November'

END

THEN {FIXED DATENAME('month',[Date]) : AVG([Precipitation])}

END

**% Difference between current month precipitation and previous month**(SUM([Current month Precipitation]) - SUM([Previous Month Precipitation])) / SUM([Previous Month Precipitation])

**Bad Percentage Precipitation Intensity**IF [% Difference in Precipitation] <= -0.02 or [% Difference in Precipitation] >=

0.02 THEN

IF [% Difference in Precipitation] > 0

THEN "▲ " + STR(ROUND([% Difference in Precipitation] \* 100, 2)) + "%"

ELSE "▼ " + STR(ROUND([% Difference in Precipitation] \* 100, 2)) + "%"

END

ELSE

""

END

**Good percentage Precipitation Intensity**  
IF [% Difference in Precipitation] > -0.02 AND [% Difference in Precipitation] <

0.02 THEN

IF [% Difference in Precipitation] > 0

THEN "▲ " + STR(ROUND([% Difference in Precipitation] \* 100, 2)) + "%"

ELSE "▼ " + STR(ROUND([% Difference in Precipitation] \* 100, 2)) + "%"

END

ELSE

""

END

1. **Temperature**

**Average Temperature**  
AVG([Temperature])

**Current Month Temperature**  
IF DATENAME('month',[Date]) = [Select Month ] THEN

{FIXED DATENAME('month',[Date]) : AVG([Temperature])}

END

**Previous Month Temperature**IF DATENAME('month',[Date]) =

CASE [Select Month ]

WHEN 'January' THEN 'December'

WHEN 'February' THEN 'January'

WHEN 'March' THEN 'February'

WHEN 'April' THEN 'March'

WHEN 'May' THEN 'April'

WHEN 'June' THEN 'May'

WHEN 'July' THEN 'June'

WHEN 'August' THEN 'July'

WHEN 'September' THEN 'August'

WHEN 'October' THEN 'September'

WHEN 'November' THEN 'October'

WHEN 'December' THEN 'November'

END

THEN {FIXED DATENAME('month',[Date]) : AVG([Temperature])}

END

**% Difference between current month Temperature and previous month**(SUM([Current month Temperature]) - SUM([Previous Month Temperature])) / SUM([Previous Month Temperature])

**Bad percentage Temperature**IF [% Difference Temperature] >= 0.03 OR [% Difference Temperature] <= -0.03

THEN

IF [% Difference Temperature] > 0

THEN "▲ " + STR(ROUND([% Difference Temperature] \* 100, 2)) + "%"

ELSE "▼ " + STR(ROUND([% Difference Temperature] \* 100, 2)) + "%"

END

ELSE

""

END

**Good percentage Temperature**  
IF [% Difference Temperature] > -0.03 AND [% Difference Temperature] < 0.03

THEN

IF [% Difference Temperature] > 0

THEN "▲ " + STR(ROUND([% Difference Temperature] \* 100, 2)) + "%"

ELSE "▼ " + STR(ROUND([% Difference Temperature] \* 100, 2)) + "%"

END

ELSE

""

END

**Temperature Variability**STDEV([Temperature])

**Current Month Temperature Variability**  
IF DATENAME('month', [Date]) = [Select Month ] THEN

{FIXED DATENAME('month', [Date]) : STDEV([Temperature])}

END

**Previous Month Temperature Variability**IF DATENAME('month', [Date]) =

case [Select Month]

WHEN 'January' THEN 'December'

WHEN 'February' THEN 'January'

WHEN 'March' THEN 'February'

WHEN 'April' THEN 'March'

WHEN 'May' THEN 'April'

WHEN 'June' THEN 'May'

WHEN 'July' THEN 'June'

WHEN 'August' THEN 'July'

WHEN 'September' THEN 'August'

WHEN 'October' THEN 'September'

WHEN 'November' THEN 'October'

WHEN 'December' THEN 'November'

END

THEN {FIXED DATENAME('month', [Date]) : STDEV([Temperature])}

END

**% Difference Temperature Variability**(AVG([Current Month Temperature Variability]) – AVG([Previous Month Temperature

Variability])) / AVG([Previous Month Temperature Variability])

**Bad Percentage Temperature Variability**IF [% Difference Temperature Variability] >= 0.01 THEN

IF [% Difference Temperature Variability] > 0

THEN "▲ " + STR(ROUND([% Difference Temperature Variability] \* 100, 2)) + "%"

ELSE "▼ " + STR(ROUND([% Difference Temperature Variability] \* 100, 2)) + "%"

END

ELSE

""

END

**Good Percentage Temperature Variability**IF [% Difference Temperature Variability] < 0.01 THEN

IF [% Difference Temperature Variability] > 0

THEN "▲ " + STR(ROUND([% Difference Temperature Variability] \* 100, 2)) + "%"

ELSE "▼ " + STR(ROUND([% Difference Temperature Variability] \* 100, 2)) + "%"

END

ELSE

""

END

**Notes:**

Dual Axis: to merge two graphs together

Synchronise axis to match axis of two graphs

**Link to the dashboard:**https://public.tableau.com/views/ClimatechangeEconomicImpactDashboard/Dashboard2?:language=en-US&publish=yes&:sid=&:redirect=auth&:display\_count=n&:origin=viz\_share\_link