NEXUS Weather Analysis Report

StdDev Humidity 3pm	stdDev Windspeed 3pm	MeanAvgWindspeed3pm	MeanAvgTemp3pm	MeanAvgHumidity3pm	MinWS 3pm	MinHumidity3pm	Median Windspeed 3pm	Median Humidity 3pm
16.83	8.84	17.99	19.23	44.52	0	13	17.00	43.00

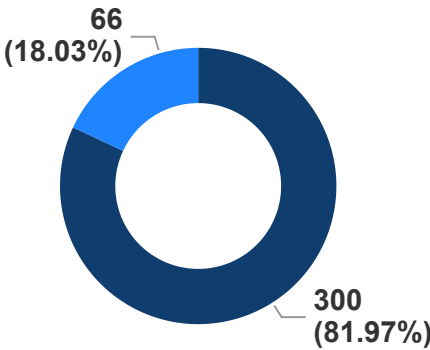| StdDev Humidity 9am	stdDev Windspeed 9am	MeanAvgWindspeed9am	MeanAvgTemp9am	MeanAvgHumidity9am	MaxWS 9am	MaxHumidity9am	Median Windspeed 9am	Median Humidity 9am
13.12	7.97	9	12.36	72.04	41	99	7	72.00

Weather Wise Report

Weather Report for time series 9AM

Weather Report for time series 3PM

Data Storytelling

Rain by Tomorrow

66 (18.03%)

300 (81.97%)

Tomorrow
- No
- Yes

Rain by Today

66 (18.03%)

300 (81.97%)

Today
- No
- Yes

Geospatial Analysis:

NORTH AMERICA
EUROPE
Pacific Ocean
Atlantic Ocean
AFRICA
SOUTH AMERICA

Microsoft Bing
© 2023 TomTom, © 2024 Microsoft Corporation, © OpenStreetMap
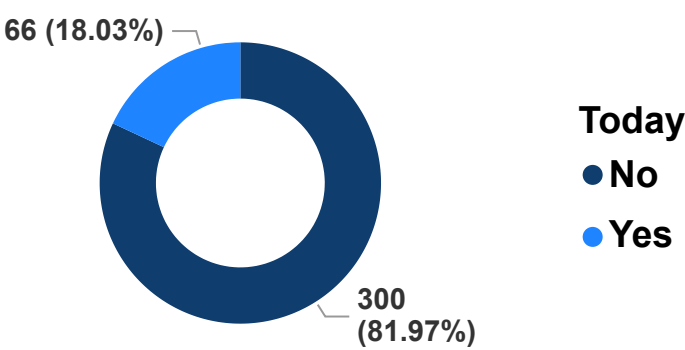
WindGustDir Wise Weather Report

WindGustDir	MaxTemp	MinTemp	Sunshine	Rainfall	Evaporation	WindGustSpeed
NW	1,421.90	447.60	583.80	152.20	298.20	3286
E	891.20	369.30	318.20	26.60	206.00	1352
ENE	700.00	336.40	237.30	51.60	175.80	1096
NNW	900.20	265.00	352.80	64.40	192.20	1739
ESE	478.90	210.90	137.50	46.00	111.60	839
WNW	613.80	174.40	283.10	35.80	146.00	1569
NE	414.30	172.00	143.70	22.80	97.20	483
W	390.20	131.70	141.80	47.60	67.60	867
S	374.30	112.90	170.70	30.20	78.40	967
SSE	225.00	91.20	85.20	31.40	53.00	495
SE	221.90	86.20	69.70	1.20	51.00	402
NNE	189.90	82.20	55.80	4.60	28.60	225
N	389.30	61.30	193.40	8.40	85.00	730
SW	81.00	43.70	22.50	0.00	20.80	108
SSW	117.00	38.20	27.80	0.00	25.00	233
WSW	63.10	26.10	22.90	0.00	12.60	87
NA	49.40	10.10	24.90	0.00	6.00	24
Total	**7,521.40**	**2,659.20**	**2,871.10**	**522.80**	**1,655.00**	**14502**

Weather Report for time series 9AM

Year	Month	Day	MinTemp	MaxTemp	Rainfall	Evaporation	Sunshine	WindGustDir	WindGustSpeed	WindSpeed9am	WindDir9am	Temp9am	Pressure9am	Humidity9am	Cloud9am	RainToday
2020	January	1	8.00	24.30	0.00	3.40	6.30	NW	30	6	SW	14.40	1,019.70	68	7	No
2020	January	2	14.00	26.90	3.60	4.40	9.70	ENE	39	4	E	17.50	1,012.40	80	5	Yes
2020	January	3	13.70	23.40	3.60	5.80	3.30	NW	85	6	N	15.40	1,009.50	82	8	Yes
2020	January	4	13.30	15.50	39.80	7.20	9.10	NW	54	30	WNW	13.50	1,005.50	62	2	Yes
2020	January	5	7.60	16.10	2.80	5.60	10.60	SSE	50	20	SSE	11.10	1,018.30	68	7	Yes
2020	January	6	6.20	16.90	0.00	5.80	8.20	SE	44	20	SE	10.90	1,023.80	70	7	No
2020	January	7	6.10	18.20	0.20	4.20	8.40	SE	43	19	SE	12.40	1,024.60	63	4	No
2020	January	8	8.30	17.00	0.00	5.60	4.60	E	41	11	SE	12.10	1,026.20	65	6	No
2020	January	9	8.80	19.50	0.00	4.00	4.10	S	48	19	E	14.10	1,026.10	70	7	No
2020	January	10	8.40	22.80	16.20	5.40	7.70	E	31	7	S	13.30	1,024.10	82	7	Yes
2020	January	11	9.10	25.20	0.00	4.20	11.90	N	30	6	SE	14.60	1,024.40	74	1	No
2020	January	12	8.50	27.30	0.20	7.20	12.50	E	41	2	E	16.80	1,023.80	54	0	No
2020	January	13	10.10	27.90	0.00	7.20	13.00	WNW	30	6	S	17.00	1,022.00	62	0	No
2020	January	14	12.10	30.90	0.00	6.20	12.40	NW	44	7	WNW	19.70	1,017.30	67	1	No
2020	January	15	10.10	31.20	0.00	8.80	13.10	NW	41	6	S	18.70	1,018.20	45	0	No
2020	January	16	12.40	32.10	0.00	8.40	11.10	E	46	7	SE	19.10	1,017.90	70	0	No
2020	January	17	13.80	31.20	0.00	7.20	8.40	ESE	44	6	WSW	20.20	1,014.40	72	7	No
2020	January	18	11.70	30.00	1.20	7.20	10.10	S	52	6	SW	20.10	1,016.40	59	1	Yes
2020	January	19	12.40	32.30	0.60	7.40	13.00	E	39	4	NNE	20.20	1,017.10	60	1	No
2020	January	20	15.60	33.40	0.00	8.00	10.40	NE	33	2	NNW	22.80	1,018.50	61	0	No
2020	January	21	15.30	33.40	0.00	8.80	9.50	WNW	59	2	N	22.20	1,012.40	60	1	No
2020	January	22	16.40	19.40	0.40	9.20	0.00	E	26	6	ENE	16.50	1,010.70	88	8	No
2020	January	23	12.80	18.50	25.80	2.80	0.60	ESE	28	13	S	14.00	1,014.00	91	8	Yes
2020	January	24	12.00	24.30	0.40	1.20	7.50	NNE	26	6	WSW	17.80	1,020.70	74	7	No
2020	January	25	15.40	28.40	0.00	4.40	8.10	ENE	33	9	SSE	16.80	1,022.40	85	8	No
2020	January	26	15.60	26.90	0.00	6.80	8.90	E	41	6	E	19.80	1,019.70	65	2	No
2020	January	27	13.30	22.20	0.20	6.60	2.30	ENE	39	20	E	16.50	1,021.00	70	7	No
2020	January	28	12.90	28.00	0.00	4.40	10.70	S	52	6	S	18.80	1,019.20	61	5	No
2020	January	29	15.10	24.30	0.00	7.00	0.40	SE	39	7	SE	18.90	1,019.00	69	7	No
2020	January	30	13.60	24.10	0.40	2.60	0.50	NNW	30	6	SSW	17.30	1,017.20	83	8	No
2020	January	31	15.10	20.40	22.60	2.40	0.20	SSE	41	6	E	17.00	1,015.00	82	8	Yes

Weather Report for time series 3PM

Year	Month	Day	MaxTemp	MinTemp	Evaporation	Sunshine	WindGustDir	WindGustSpeed	Cloud3pm	Humidity3pm	Pressure3pm	Temp3pm	WindDir3pm	WindSpeed3pm	RainToday
2020	July	30	18.00	-0.10	2.00	8.60	NA	0	1	46	1,028.70	17.40	NNW	15	No
2020	September	28	12.20	0.80	1.80	8.60	NA	0	1	49	1,016.80	11.20	S	22	No
2020	August	18	15.50	0.40	1.00	4.70	N	13	7	70	1,023.50	15.00	NNW	9	No
2020	September	4	14.20	-0.10	1.40	7.00	W	13	2	55	1,028.90	12.60	WNW	2	No
2020	August	2	15.70	4.60	1.00	0.60	NNE	15	7	67	1,027.10	15.50	NNE	6	No
2020	August	28	14.80	-1.50	2.20	8.00	NW	15	3	41	1,026.00	14.50	NW	9	No
2020	June	9	19.50	5.60	2.80	6.80	SW	17	4	49	1,021.80	18.60	WNW	6	No
2020	July	9	21.00	0.10	2.20	9.20	NNW	17	1	36	1,020.30	20.70	N	9	No
2020	July	23	14.80	1.20	2.40	6.70	SE	17	1	49	1,024.80	14.50	SSW	6	No
2020	July	24	14.50	1.20	1.20	8.90	SE	17	1	43	1,023.50	13.90	SSW	6	No
2020	August	1	14.00	0.60	2.20	2.70	NE	17	7	67	1,028.90	13.90	ENE	7	No
2020	August	19	15.90	4.00	0.60	2.00	NNW	17	7	63	1,019.70	14.80	SSE	7	No
2020	September	15	12.80	-0.90	2.00	1.90	N	17	7	62	1,020.80	12.10	NNW	9	No
2020	July	10	20.90	1.50	2.40	9.30	NW	20	1	41	1,020.00	20.90	NNW	9	No
2020	July	11	17.40	8.30	2.00	1.60	E	20	7	52	1,021.50	17.20	NE	11	No
2020	July	22	14.70	2.40	2.60	9.20	ESE	20	1	43	1,026.00	13.80	E	6	No
2020	July	28	16.80	1.40	1.60	8.20	NW	20	4	50	1,024.70	16.30	NW	6	No
2020	July	29	17.50	2.20	1.20	8.50	NW	20	1	45	1,029.60	17.30	WNW	7	No
2020	August	3	14.40	9.80	0.60	0.00	ESE	20	8	86	1,027.20	13.60	ESE	11	No
2020	August	17	15.50	5.40	1.60	5.80	NNE	20	1	58	1,025.50	14.90	NNE	7	No
2020	September	11	11.10	-2.60	1.40	6.50	N	20	7	54	1,022.70	9.90	NNW	7	No
2020	November	17	14.10	0.70	5.60	9.00	ENE	20	1	43	1,022.10	13.70	NNW	7	No
2020	February	18	21.00	12.80	6.40	0.80	NE	22	8	54	1,015.60	20.00	ENE	6	No
2020	May	14	33.80	12.30	7.20	11.30	W	22	1	15	1,019.10	32.70	W	13	No
2020	June	1	21.80	3.50	6.00	10.30	NNW	22	1	34	1,021.20	21.20	WNW	11	No
2020	June	4	18.90	0.40	4.80	9.60	N	22	1	33	1,019.10	17.60	WSW	7	No
2020	June	25	20.90	5.00	2.00	8.90	WNW	22	6	42	1,014.30	20.60	NW	7	No
2020	June	29	13.80	-2.10	1.80	9.50	NNW	22	1	40	1,019.60	13.20	NNW	9	No
2020	July	26	18.50	4.70	2.00	5.10	ESE	22	4	50	1,023.10	17.90	W	6	Yes
2020	July	27	18.10	4.90	1.20	8.50	NNW	22	1	55	1,022.30	17.70	NW	13	Yes
2020	July	31	18.50	-0.90	2.20	8.90	E	22	3	38	1,027.40	18.20	N	7	No

Data Storytelling:

Descriptive Statistics:
As per the requirement i have created dax formula to calculated measure for Mean,Median,Mode and Standard Deviation.
I use Table chart to make the calculation as visualize.

Geospatial Analysis:
In power query editor i use conditional column for WindGustDirection to convert degree.
I use map to put a location to degree.

Time Series Analysis:
There are 366rows so I have assume its a leap year data .So i have manually created a calendar table.
For time series analysis i use table chart for daily, monthly, or yearly patterns wise for both 9AM and 3PM.

Data Exploration Tasks:
I have created Donut chart by Rain by Today & Rain by Tommorow.

I have created a matrix table to visualize the WindGustDir conitional formatting in Max Temp,Min Temp,Sunshine,Rainfall,Evaporation,WindGustSpeed.

And also add the page navigation button (To Use:Control + click).

And then i have added sliccer.