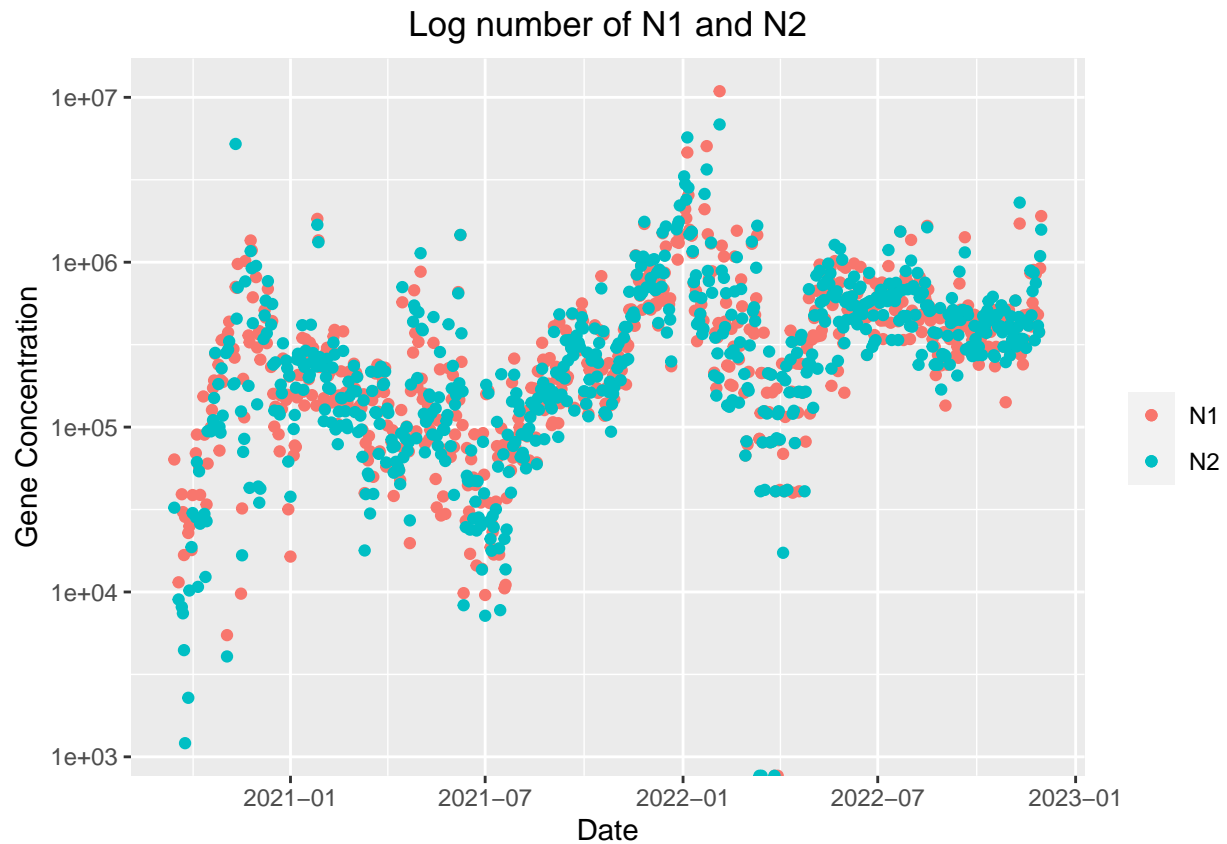# Longitudinal Waste data

Marlin

Longitudinal data source

This vignette covers the wastewater data collected by the Wisconsin State Lab of Hygiene. This wastewater data covers 118 weeks of 1-5 measurements a week from 82 locations. This has 63 columns where 5 are categorical variables, 9 are measurement columns and the remaining are extra info about the measurements.

The data is broken down by site and data. Site is where it was collected from. The primary column's are N1 and N2 which are two different genes of Covid-19.

Below is the first 6 rows of the dataset.

sample_id	site	date	N1	N2	PMMoV	flow
802	Port Washington	2021-01-18	8865.376	6652.533	18829610	1.000
827	Port Washington	2021-01-25	11827.504	7268.768	10190701	1.000
819	Racine	2021-01-24	8333.173	6484.469	6165848	15.890
544867001	Washburn	2021-01-25	15421.000	30958.000	14401613	0.149

sample_id	site	date	N1	N2	PMMoV	flow
544887001	Peshtigo	2021-01-25	23272.000	35748.000	4397675	0.444
813	South Milwaukee	2021-01-24	14383.477	8851.371	7323669	2.588

ph	pcr_type	n1_sars_cov2_lod	n2_sars_cov2_lod	n1_lod
NA	droplet digital PCR	FALSE	FALSE	3319.264
NA	droplet digital PCR	FALSE	FALSE	3102.181
7.16	droplet digital PCR	FALSE	FALSE	2773.056
7.70	qPCR	TRUE	TRUE	40000.000
7.60	qPCR	TRUE	TRUE	40000.000
NA	droplet digital PCR	FALSE	FALSE	3319.264

n1_loq	n2_lod	n2_loq
11078.219	3319.264	11078.219
10342.939	3102.181	10342.939
9257.525	2773.056	9257.525
130000.000	66000.000	140000.000
130000.000	66000.000	140000.000
11064.213	3319.264	11064.213

This data is our most used data that is used in multiple analyses. A couple of examples are below.

WPHA Poster

SETAC Poster