According to the data of the elevation of the elevation level of Lake Mead, we found that there’s a periodicity: a long period of decrease, followed by a short period of increase, and then a long decrease period, etc. After observation and calculation, we found that the periods can be approximated into lines.

Next we calculated the slope of these lines. After calculating the average value, we found that the rate of decrease was 1.188ft/month, the rate of increase (slow) was 1.367ft/month, the rate of increase (fast) was 4.558ft/month.

After observation, we found that the cycle contains 3 months of increase (slow), 3 months of increase (fast) and then 60 months of decrease. According to the data, we assumed that Sept 2021 was the starting point of a cycle. After calculating these data, we found that the average elevation level of 2025 is 1037.356ft, and in 2030 it would decrease to 984.496ft, while in 2050 768.302ft.