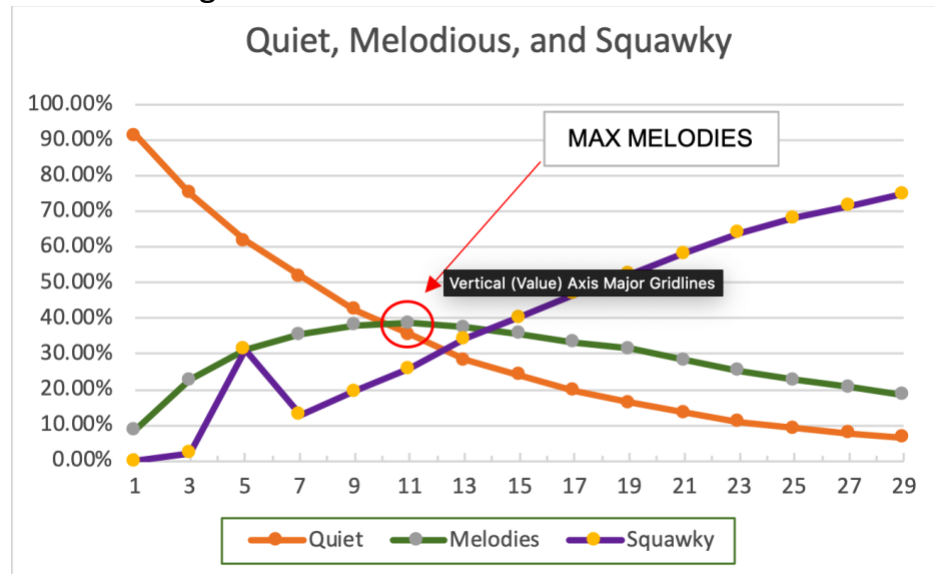


Written summary

1. Optimal value of N that maximizes Melodious-ness (month worth of data)

With the default setting it is clear that the N=11 maximizes Melodious-ness



2. Proportion of Melodious time varies as a function of N, with one line for each of three different song durations considered(using a month worth of data)

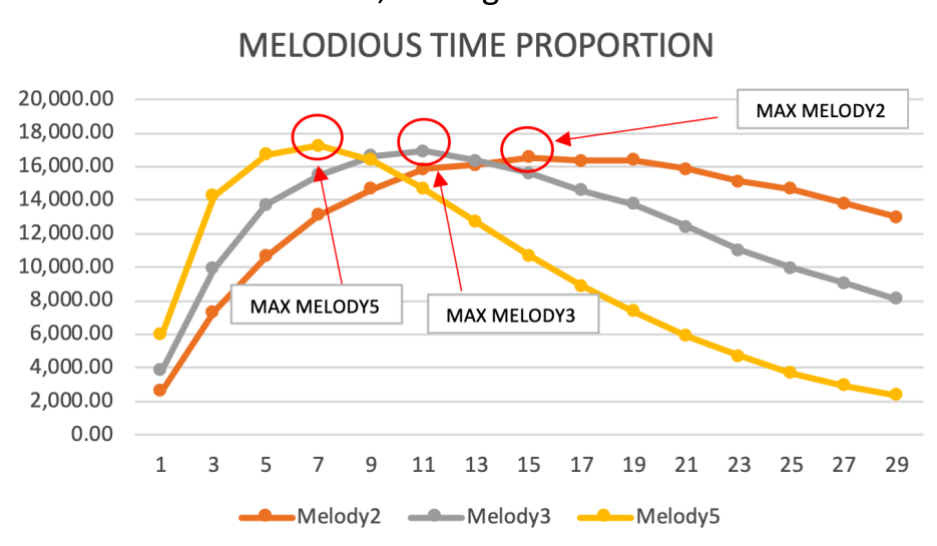
Again we can see that the best N when the song duration is as follows:

N=16 is best number of birds when song duration is 2

N=11 is best number of birds when song duration is 3

N=7 is best number of birds when song duration is 5

This shows that the lower the S, the higher the N would be



3. Perfect songs and N graph

This graph shows that in a month worth of data the number of perfect songs reaches its highest point when only 2 birds are singing but it goes down after that.

