Outcome variable: Cout data (inhibition)

Farm: Bangwe

Test shows that there is significant test results for the particular item and antibiotic, showing that there might be a pattern from manure to soil to vegetables. Then a further test was done to see which combinations are really significant

| Comparison | Difference | Lower\_CI | Upper\_CI | Adjusted\_p\_value*1* |
| --- | --- | --- | --- | --- |
| SXT:Home soil-CIP:Chicken manure | -18.66667 | -36.43339 | -0.8999456 | 0.03 \* |
| AMP:Home soil-CIP:Chicken manure | -18.33333 | -36.10005 | -0.5666123 | 0.037 \* |
| GM:Home soil-CIP:Chicken manure | -18.33333 | -36.10005 | -0.5666123 | 0.037 \* |
| SXT:Home soil-CIP:Farm soil | -20.00000 | -39.86380 | -0.1362020 | 0.047 \* |
| *1*Significance codes: \*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05 | | | | |

Interpretation of Each Comparison

**SXT:Home soil - CIP:Chicken manure**

* This indicates that the mean microbial presence or resistance in Home soil with SXT is significantly lower than that in Chicken manure with CIP by approximately 18.67 units. **Confidence Interval**: (-36.43, -0.90). The difference is statistically significant as the CI is below 0, with a P- value of P<0.05