# Supplementary Materials

FIGURE 1.

# Summary of Group Distribution For User Accounts Directly/Indirectly Involved In Pesticide Discussions - 2013-2021

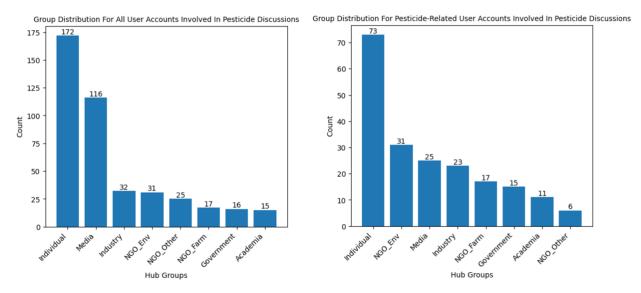


FIGURE 2.

Group Distribution of Hubs Who Have the Amount of Posted Tweets At 90th Percentile

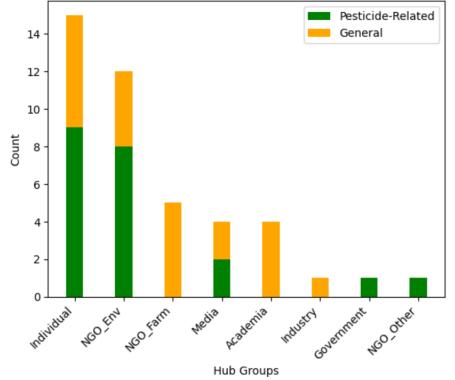


FIGURE 3.

Distribution of Information Flow Score For Pesticide-Related Hubs

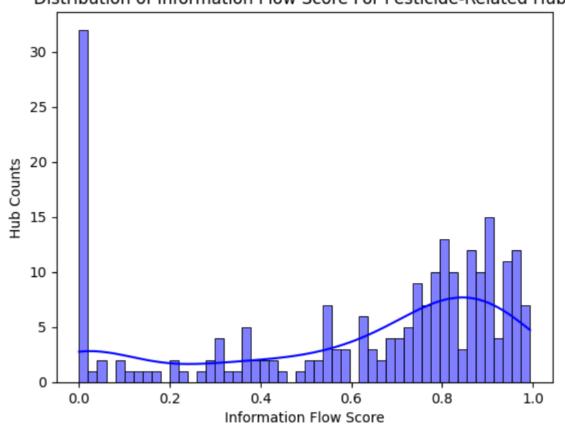
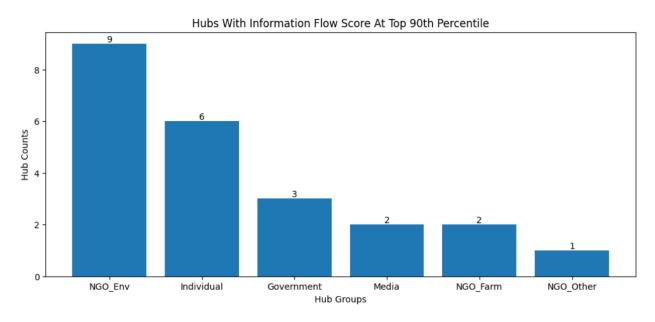


FIGURE 4.

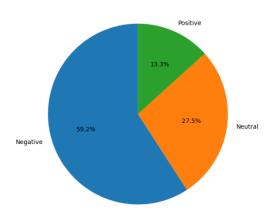


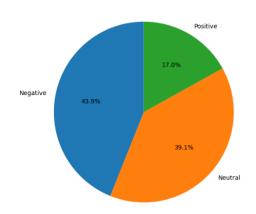
# FIGURE 5.

Overview of Sentiment Distribution Toward All and Pesticide-Related Hubs

Sentiment Distribution Toward All Hubs

Sentiment Distribution Toward Pesticide-Related Hubs



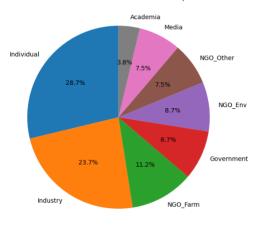


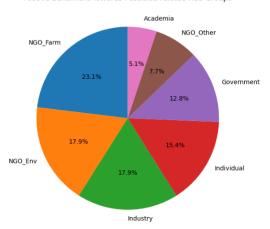
# FIGURE 6.

Overview of Positive Sentiment Distribution Toward All and Pesticide-Related Hubs

Postive Sentiment Towards Hub Groups

Postive Sentiment Towards Pesticide-related Hub Groups



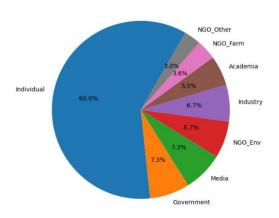


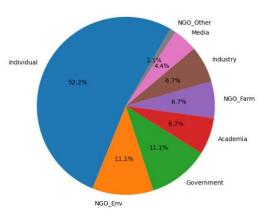
# FIGURE 7.

Overview of Neutral Sentiment Distribution Toward All and Pesticide-Related Hubs

Neutral Sentiment Towards Hub Groups

Neutral Sentiment Towards Pesticide-related Hub Groups



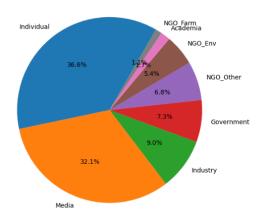


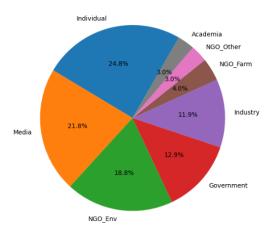
# FIGURE 8.

#### Overview of Negative Sentiment Distribution Toward All and Pesticide-Related Hubs

Negative Sentiment Towards Hub Groups

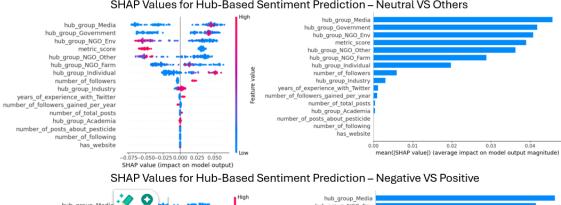
Negative Sentiment Towards Pesticide-related Hub Groups

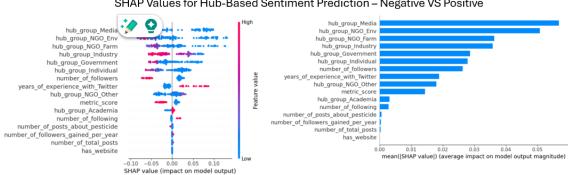




## FIGURE 9.

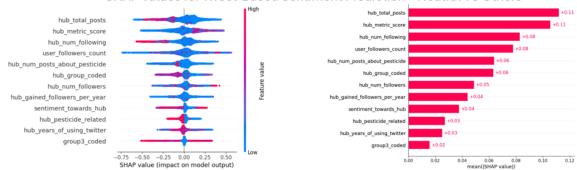
#### SHAP Values for Hub-Based Sentiment Prediction - Neutral VS Others





# FIGURE 10.

## SHAP Values for Tweet-Based Sentiment Prediction - Neutral VS Others



# SHAP Values for Tweet-Based Sentiment Prediction - Negative VS Positive

