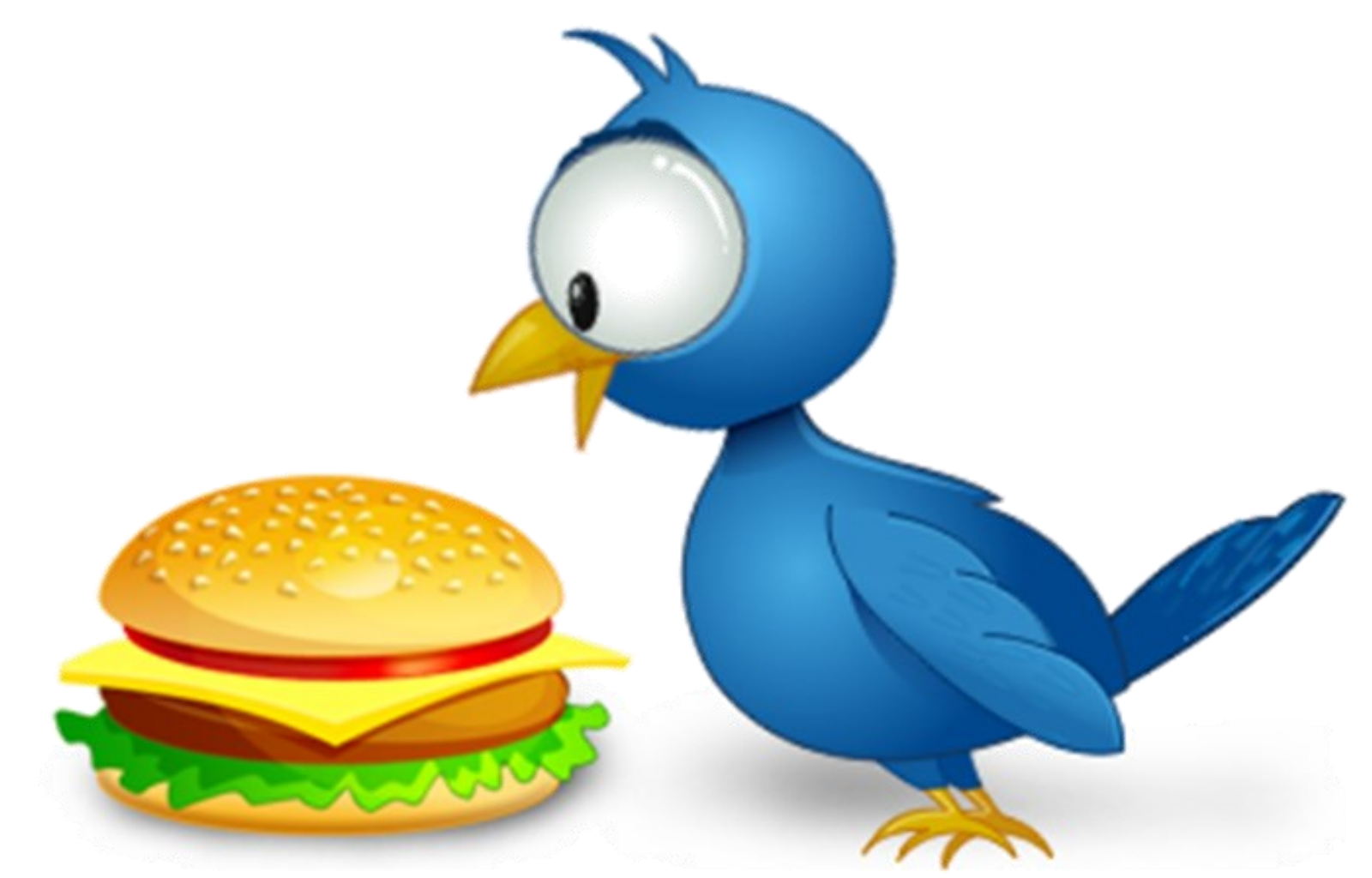# What Can We Learn From Almost a Decade of Food Tweets

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Abstract

The **Latvian Twitter Eater Corpus** is a set of tweets in the narrow domain related to food, drinks, eating and drinking. We also separate two sub-corpora of question and answer tweets and sentiment annotated tweets. We analyse contents of the corpus and demonstrate use-cases for the sub-corpora by training domain-specific question-answering and sentiment-analysis models using data from the corpus.

Sentiment Classification

- 5 Training Datasets
- 4 Data Processing Variations
- 2 Model Configurations

Training Data	TE	MP	MP.PE	TE.MP	All	TE.MP.RV.PE
Naive Bayes	53.21	43.32	45.72	56.55	59.63	58.02
Perceptron	53.07	52.67	53.47	57.87	57.33	58.27
Stemmed						
Naive Bayes	53.74	46.39	50.67	58.16	60.56	**61.23**
Perceptron	56.67	53.73	54.13	60.00	56.93	57.73
Lemmas						
Naive Bayes	53.88	45.45	49.60	56.42	58.42	59.63
Perceptron	54.41	51.07	53.07	57.35	56.95	56.95
Stemmed Lemmas						
Naive Bayes	54.41	45.99	49.33	57.62	59.63	59.63
Perceptron	53.34	51.47	52.67	58.29	56.68	57.09

Popular Drinks/Foods

Food	Count	Drink	Count
Chocolate	117,235	Tea	163,338
Ice cream	86,109	Coffee	120,040
Meat	85,574	Juice	18,179
Potatoes	70,135	Water	15,692
Salads	61,616	Beer	14,845
Cake	52,267	Cocktails	8,207
Soup	46,545	Coca-cola	5,016
Pancakes	40,203	Alcohol	4,766
Sauce	40,201	Champagne	3,673
Apple	36,571	Vodka	2,802

Overview

https://twitediens.tk   **https://ej.uz/LTEC**

- Collecting since October 2011 using 363 keywords
- 2,308,285 tweets and counting, including
  - ◇ 19,871 question tweets with at leat one reply
    - ∗ 42,744 question-answer tweet pairs
  - ◇ 5420 annotated with sentiment
    - ∗ 1282 negative
    - ∗ 2507 neutral
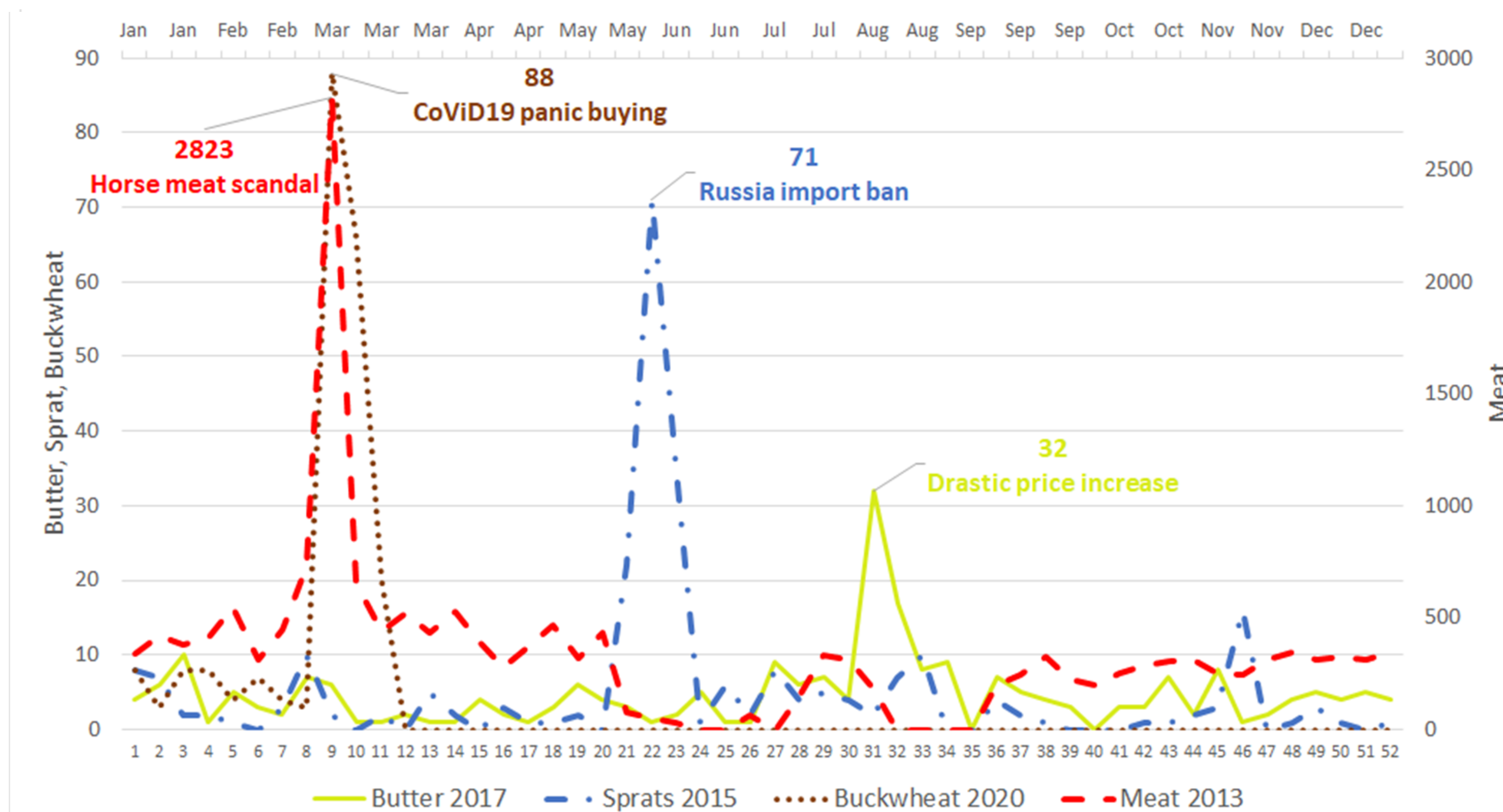   - ∗ 1631 positive
- About 6500 new tweets every month

Main Keywords

taste	**lunch**	beet	potato	mandarin	sweet
eat	**feast**	bun	cabbage	sauce	mushroom
breakfast	**drink**	carrot	candy	pancake	onion
dine	**treat**	chips	sour cream	dumpling	chocolate
dinner	**nom**	vegetable	cream soup	gingerbread	tea
bite	**appetite**	meat	cake	rice	tomato
meal	orange	Hesburger	drink	salad	grape
food	apple	coffee	McDonald's	ice cream	strawberry

Yearly Seasonal Trends
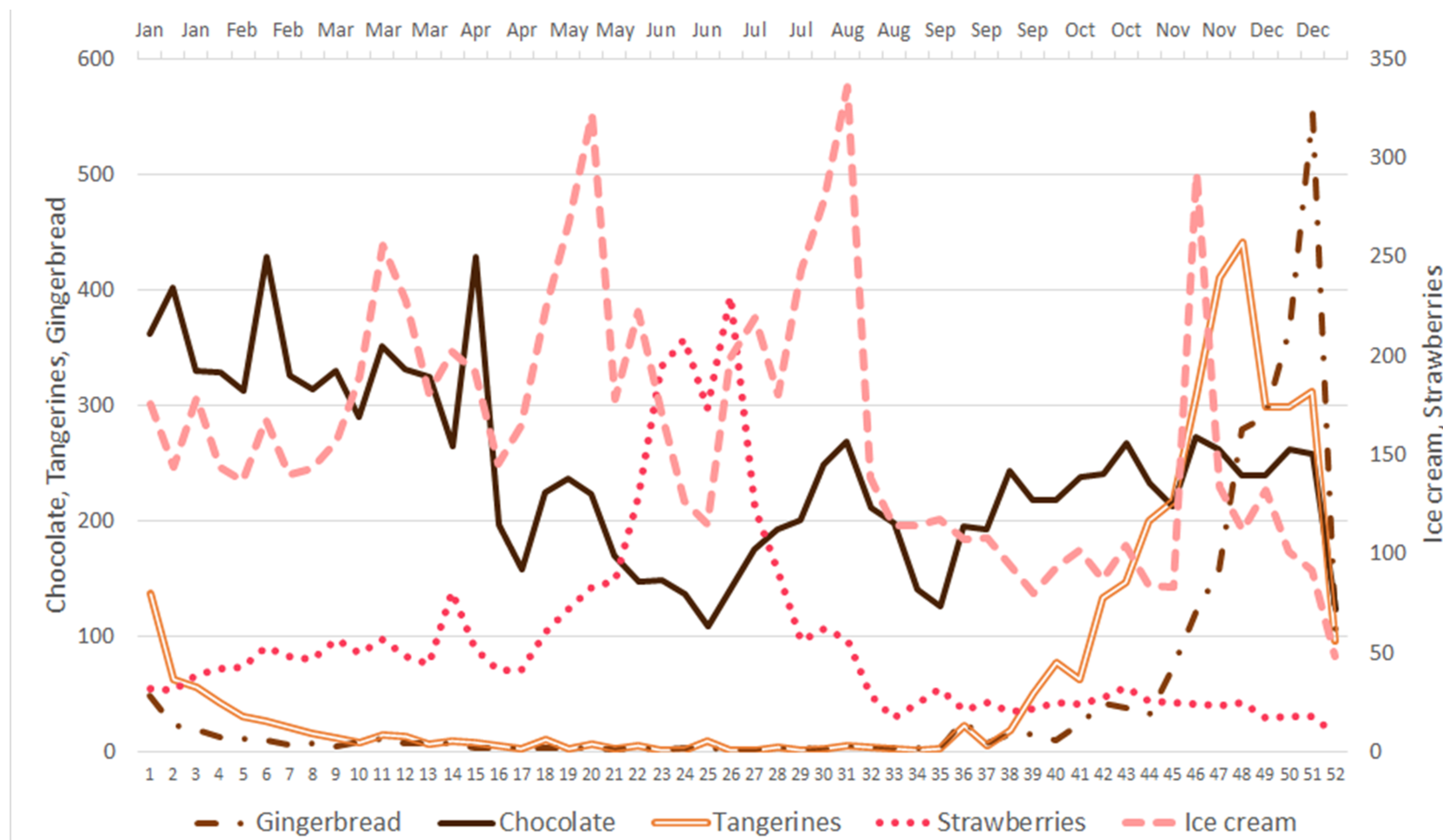
Large Trends

Yearly Tweet Count