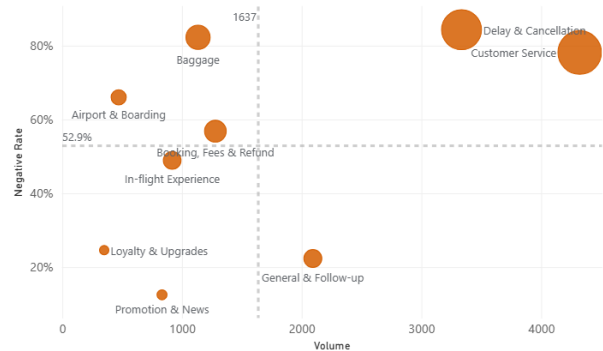


US airline customers on Twitter: what to fix first

Executive brief · 14,375 customer tweets to 6 airlines · 16–24 Feb 2015 · Patch.B

What we found

- Service and delays drive the complaints:**
Customer Service and Delay & Cancellation make up two thirds of negative tweets (36.5% and 30.3%), and they are the only two topics that are both frequent and mostly negative (78.2% and 84.3%).
- Every airline draws more negative than positive tweets:** Net Sentiment Score is below zero for all six, from -68.2 (US Airways) to -4.6 (Virgin America). Among airlines with data on all 7 days, US Airways gets the most negative tweets per passenger (2,165.9 per 1M).
- Negative tweets spike when flights go wrong:**
Sunday 22 Feb had 2,316 negative tweets (73.4%). Customers say no one responds, delays come without updates, and they doubt weather explanations.



Top right = frequent and mostly negative, fix first · bubble size = negative tweets

What to do (in priority order)

- Answer customers faster when flights are delayed or cancelled (every airline).
- Send delay and cancellation updates before customers ask, with the cause and the time of the next update.
- Fix each airline's own weak spot: United baggage tracking (13.3% of its negative tweets) · Virgin America booking and refunds (18.1%) · US Airways airport process (86.3% negative).
- Protect In-flight Experience, the topic with the highest share of positive tweets (37.3%).

Key numbers

14,375	62.9%	-46.6	1,158.8	91.7%
Customer tweets	Negative tweets	Net Sentiment Score	Negative tweets per 1M passengers	AI topics matching people

Limits of the data

- 9 days of February 2015 (16 and 24 Feb partial), collected by an unknown method: read it as a pattern, not a full-year picture.
- Tweets to American exist almost only on 22–24 Feb, so American cannot be compared directly.
- About 52% of topics come from AI, matching people on 91.7% (κ 0.90), and some human labels are wrong too: under testing the top two problems hold, while third place can change.
- Passenger numbers are BTS-based estimates and exclude regional partners.

Source: Twitter US Airline Sentiment (Kaggle, CC BY-NC-SA 4.0) · BTS T-100 Market and On-Time Performance, February 2015