

Title: Dictionary classifier validation results for “Amplifying the storm: Climate disinformation dynamics during natural disasters on right-wing extremist Telegram channels”

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Note: The material contained herein is supplementary to the article named in the title and published in the Harvard Kennedy School (HKS) Misinformation Review.

Appendix C: Dictionary classifier validation results

A 95% confidence interval was analyzed using the Wilson score interval, as it is effective for values near 0 or 1. Furthermore, the Delta method was utilized as F1 is a non-linear function of precision and recall, making standard binomial confidence intervals not directly applicable. Round 1 used only the initial NOAA-derived dictionary (n=200). Round 2 reflects dictionary refinement following the removal of ambiguous terms, driving false positives. High recall across both rounds indicated a conservative tendency towards inclusion.

Table C1. Summary of classifier validation results for both round 1 with the NOAA dictionary and round 2 after further curation of the custom dictionary.

Metric	Method	Round 1 Estimate	Round 1 95% CI	Round 2 Estimate	Round 2 95% CI
Precision	Wilson score	51.5%	[44.6%, 58.3%]	81.0%	[75.0%, 85.8%]
Recall	Wilson score	99.0%	[94.8%, 99.8%]	98.8%	[95.7%, 99.7%]
F1 Score	Delta method	0.678	[0.618, 0.738]	0.890	[0.857, 0.924]