

Not News: Provision of Apolitical News in the British News Media*

Suriyan Laohaprapanon[†]

Gaurav Sood[‡]

January 27, 2019

Abstract

What proportion of news is soft news? What proportion of articles published by a news outlet is about dining, travel, fashion, cooking, celebrity scandals, and other such things? Using a corpus of ~ 5.4 M web pages from 276 news outlets in the U.K. spanning 2003–2015, we estimate the provision of soft news on online news outlets. To measure soft news, we build a supervised model using text from articles whose URL structure provides a clear indication of the type of content. We validate the success of the classifier by hand coding 1,000 articles—the error rate is about 12%. Using the classifier, we find that about 39% of the articles are about topics other than public affairs.

*Scripts behind the analysis can be downloaded at: https://github.com/notnews/uk_not_news. We are grateful to Kimberley Ortleb for assisting us in research. The paper benefitted from comments from Jamie Druckman, Daniel Stone, and Levi Boxell.

[†]Suriyan can be reached at: suriyant@gmail.com

[‡]Gaurav can be reached at gsood07@gmail.com

News media is justly seen as vital to a healthy democracy. Consumption of news causes a wide variety of virtuous outcomes, from political participation to political accountability ([Gentzkow, Shapiro and Sinkinson 2015](#); [Oberholzer-Gee and Waldfogel 2006](#); [Snyder Jr and Strömberg 2008](#); [Strömberg 2004](#)). These benefits doubtlessly stem from consumption of policy- or policy-maker (or enforcer) relevant information, as opposed to say, news about cooking, fashion, and such (see, for instance, [Prior 2003](#)). Thus, to assess the health of the fourth estate, it is vital to understand how much of the news is broadly about public affairs, and how much of it is about cooking, sports, travel, movie reviews, fashion, and such, and how that may be changing over time.

To answer this important question, we build on prior work on measurement of public affairs news, modifying the previously proposed method in a small but important way to reduce generalization error. We then apply the method to estimate how much of the British news is broadly about public affairs using a corpus of ~ 5.4 M web pages from 276 separate news outlets in the U.K. spanning 2003–2015.

We measure soft news using a classifier based on keywords in the URL ([Bakshy, Messing and Adamic 2015](#); [Flaxman, Goel and Rao 2016](#)). To ensure that the model generalizes, we use the entire story text but only rely on bigrams and trigrams that are common across outlets. The out of sample precision and recall of our model is about 88% each. To estimate generalization error, we validate the success of the classifier by getting manually coded labels for 1,000 articles. The generalization error is very close to our model estimates at about 12%.

We use the model to classify our corpus. We find that about 39% of all the articles are about non-public affairs. When we group articles by outlet, we find that, on average, 45% of the articles in an outlet are about cooking, travel, entertainment, and similar such things.

Incentives for Soft News

What explains the provision of soft news on news websites? The conventional story goes something like this. Profit-maximizing private companies control many of the news media outlets. And to the extent that provision of soft news increases profits, for instance, by increasing the size of the audience or by reducing production costs, news media outlets provide soft news. But the story is a bit more nuanced. To explore the issues in depth, we start by looking at demand and segue into supply-side issues.

Data suggest that there is strong demand for soft news ([Arceneaux and Johnson 2013](#); [Barnhurst and Mutz 1997](#); [Flaxman, Goel and Rao 2016](#); [Guess 2016](#)). But what explains demand for soft news? People probably want soft news because it entertains them. Another less obvious reason why people may want soft news is that it is good fodder for conversation. Politics is too controversial a topic in many social settings. And celebrities, popular television shows, etc. are less controversial, widely known facets of society that people can discuss without fear of offending others. Because of such reasons and reasons like these, apolitical news is popular. And in a capitalist media system ([Curran et al. 2009](#)), we expect customer tastes to matter. Much like [Gentzkow and Shapiro \(2006\)](#) show that customer tastes explain partisan bias, we suspect customer tastes also explain the provision of soft news.

We also expect owner tastes to matter less over time. The conventional wisdom around the ‘oversupply’ of political news in the 50s and 60s on network television in the U.S. is that the television network owners thought it in good taste to provide it. However, public listing of many of the media companies has likely changed owners palate (incentives), with a taste for profit replacing any public-minded instincts. Aside from that, deregulation of television, for instance, the 1996 Telecommunications Act in the U.S., the advent of Internet, which largely doesn’t impinge on public resources, in lieu of which the government could regulate, has reduced government’s role in shaping television content.

But this is just one part of the story. The other part is the collapse of the two major streams of newspaper revenue: 1) newspaper sales—people have become less inclined to pay for news post ‘free’ access to content, and 2) paid classifieds—today, services like Craigslist and Facebook provide a cheaper (free) way to post classifieds. And to address the revenue shortfall, news media have looked to cut costs.

To reduce costs, news media have a lot of levers in hand, from making more extensive use of wire stories to reducing the number of foreign news bureaus (Schudson and Tift 2005; Shanor 2013) to reducing the number journalists on staff to forcing journalists to produce more news articles (words, minimally) per week to turning to freelancers for reporting. The switch to soft news is likely part of the same strategy. News about celebrities and turkey contests is cheaper to produce than sending a journalist to Pakistan. And news media may substitute apolitical news for political news as a way to respond to lower revenues (Cagé 2012; Davis and Owen 1998; Kalb 1998).

When faced with lower revenues and financial pressures, newspapers can respond not just by finding cheaper ways to produce existing content (at lower quality), reducing, or replacing the content, but by also adding to it. For instance, newspapers may add a ‘lifestyle’ section as a way to lure new customers (and keep old ones) without adding significantly to the costs. The reason for that is as follows. Easily detachable section based layout allows newspapers to cater to multiple audiences at the same time. (Television and radio, by contrast, are different. Tuning into television means that you and everyone else in the earshot is exposed to the channel you are tuned into unless, of course, you listen using headphones.) A surfeit of web-enabled devices means that news websites are similar to paper versions in that they can also simultaneously cater to multiple audiences. For instance, the politically interested Democrat in the family may go to huffingtonpost.com for reading up on the latest Republican outrage, while the celebrity-obsessed member of the family may go there for the latest gossip.

In all, strong demand for soft news, declining regulation, declining influence of owner

tastes, and declining revenue plausibly contribute to provision of soft news on news sites.

Data and Measurement

Our corpus has $\sim 5.73M$ de-duped web pages. We filter on years for which we have more than 10,000 web pages. It leaves us with $\sim 5.71M$ spanning 2003–2015. Next, we drop web pages for which we don’t have a URL. Doing that leaves us with about $\sim 5.44M$ web pages. For about $2K$ articles, we can’t parse the domain name mostly because they have an IP address than a domain. We remove these web pages as well. This leaves us with 5,442,931 articles. Before we cull the data further, we clean outlet labels.

To produce clean outlet labels, we start by stripping leading and trailing spaces in outlet names. Next, we manually sift through the domains and combine domains that track the same source. Lastly, we manually create outlet names based on domain name and source name from the metadata of the web pages. We use these outlet labels to filter on sources with 1,000 or more web pages. (We feel that we would have too little data on other outlets to make reliable judgments.) This leaves us with 5,392,953 articles spanning 276 outlets. This serves as our final dataset. Appendix [SI 1](#) provides a summary of the data including the number of transcripts per outlet, and the range of dates for which we have the data. (To better understand the limitations of the sample, we plot the total number of web pages per outlet per year, and tally other things like weeks with zero transcripts per source, in the [Jupyter Notebook](#).)

To measure soft news, we use machine learning. We start by taking a random sample of 1M news articles from our final dataset. Then, following [Bakshy, Messing and Adamic \(2015\)](#) and [Flaxman, Goel and Rao \(2016\)](#), we use keywords in the URL to code the content of the web pages. In particular, after manually inspecting a large random sample, we label all URLs that match the following regular expression as political news:

```
politi|world|national|uk-news|scottish-news|news-eu|state|local|elect|vote|govern|
```

campaign|war|police|economy|unemployment|energy|education|healthcare|immigration

And we label all URLs which match the following regular expression as soft news:

sport|football|entertainment|culture|arts|fashion|style|lifestyle|life-style|leisure|
celebrity|movie|music|gossip|food|travel|horoscope|weather|gadget

Given that it is technically possible for a URL to have both sets of keywords, we further limit ourselves to URLs where the categorization is unique. We code the category of all other URLs as missing. This leaves us with a sample of 372,163 articles. We pre-process the news articles, lemmatizing, removing ‘stop words,’ and punctuation, losing all words less than two characters long, and converting all the words to lower case. We further assume a 1-, 2- Markov model of language, storing just frequency of bi-grams and tri-grams and removing order information. (See ? and ?, among others who have used similar assumptions in modeling similar text.) For lower generalization error and for learning a model that isn’t source specific, we only keep bi- and tri-grams that appear in 50 or more outlets. This leaves us with a vocabulary of 46,711 tokens. Further filtering on tokens that appear at least 100 times leaves us with a vocabulary size of 37,582.

Next, we split the data into train (80%) and test (20%), and train a regularized Logistic Regression classifier (Zou and Hastie 2005) on the training set, using cross-validation to pick the appropriate λ . Table 1 presents out of sample performance of the model. The classifier is fairly accurate, correctly classifying 89% of the apolitical articles out of sample.

Table 1: Out-of-sample Performance of the Model

labels	precision	recall	f1-score	support
Soft News	0.89	0.87	0.88	35,912
News	0.86	0.90	0.88	38,521

To further validate the model, we tabulate the top 100 predictors of news and soft news in Table 2 and Table 3 respectively. The tables make for a reassuring reading. The top predictors of news include bigrams and trigrams like “nation news,” “war crime,” “helmand provinc,” “mr

obama,” “mr brown,” etc. And the top predictors of soft news include bigrams and trigrams like “food drink,” “britney spear,” “manchest unit,” “box offic,” “aston villa,” etc.

Table 2: Top 100 Predictors of Hard News

nation news	spokeswoman said	play video
comment new	war crime	helmand provinc
report abus	end quot	secondari school
local news	report said	northern rock
gordon brown	report problem	mr obama
comment articl	appear press	peopl die
prime minist	view express	local elect
polic offic	presidenti elect	local newspaper
barack obama	polic investig	print page
comment post	mr brown	govern said
person use	media report	debat issu
kill peopl	news agenc	polit parti
polic said	ministri defenc	said http
gener elect	said mr	parti leader
quot http	nation award	site http
polic station	billion euro	went miss
peopl kill	told bbc	oil ga
comment http	tori leader	secur forc
foreign minist	sinn fein	vladimir putin
offici said	polic warn	campaign launch
higher educ	spokesman said	west bank
press associ	comment say	inform http
liber democrat	offici say	poll station
anyon inform	antisoci behaviour	european elect
consid action	council elect	polic chief
news stori	lib dem	busi award
unit kingdom	opposit leader	award ceremoni
local govern	mp expans	defenc minist
media group	gener secretari	minist alex salmond
hillari clinton	stab death	nuclear power
add comment	death toll	al qaida
shot dead	alistair darl	industri action
scottish govern	labour parti	
crown court	share view	

Table 3: Top 100 Predictors of Soft News

relat articl	food drink	red card
email text	start season	defend champion
larg section	alex mcleish	debut album
law order	leagu divis	ryder cup
premier leagu	tv radio	european tour
email friend print	west brom	art centr
friend print page	real madrid	look like
end season	offic uk	apo apo
friend print	head coach	think say
live council	autumn statement	manchest unit
champion leagu	daili telegraph	london irish
tv news	new manag	young player
manchest citi	transfer window	person view
second half	ipswich town	food industri
aston villa	knee injuri	royal ascot
celebr year	super leagu	tell stori
grand prix	west indi	film festiv
box offic	britney spear	follow twitter
food safeti	arsen wenger	final round
travel site	feel like	classic music
debt crisi	celebr birthday	apo new
accrington stanley	hemel hempstead	sound like
blackburn rover	new film	music festiv
west ham	phone hack	win game
london olymp	ami winehous	real life
britain apo	footbal leagu	kevin pietersen
new album	gold cup	road rail
counti championship	score goal	sign new
heineken cup	premier divis	fa cup
oliv oil	run time	cardiff citi
footbal associ	birmingham citi	littl bit
oxford unit	stamford bridg	financi crisi
latest news	food bank	
leisur centr	today apo	

Results

We start by describing the overall provision of soft news. We treat each article as an observation, and plot the density of soft news (see Figure 1). Nearly 39% of the articles are about cooking,

sports, lifestyle, and such topics. This number, however, may not be a good guide to provision of soft news across outlets. For instance, if the least political outlets are also the most prolific, treating each article the same would lead us to think that the average is higher. So, next, we tallied the proportion of soft news stories in each of the outlets. The average percentage of soft news stories per outlet is nearly 45% while the median is 46% and the 25th percentile is an astonishing 38%. *Haringey Independent* tops the charts with 78.3% of its articles being soft news. In all, it appears that a hefty proportion of news articles across outlets are about soft news.

Figure 1: Share of Soft News Across Outlets

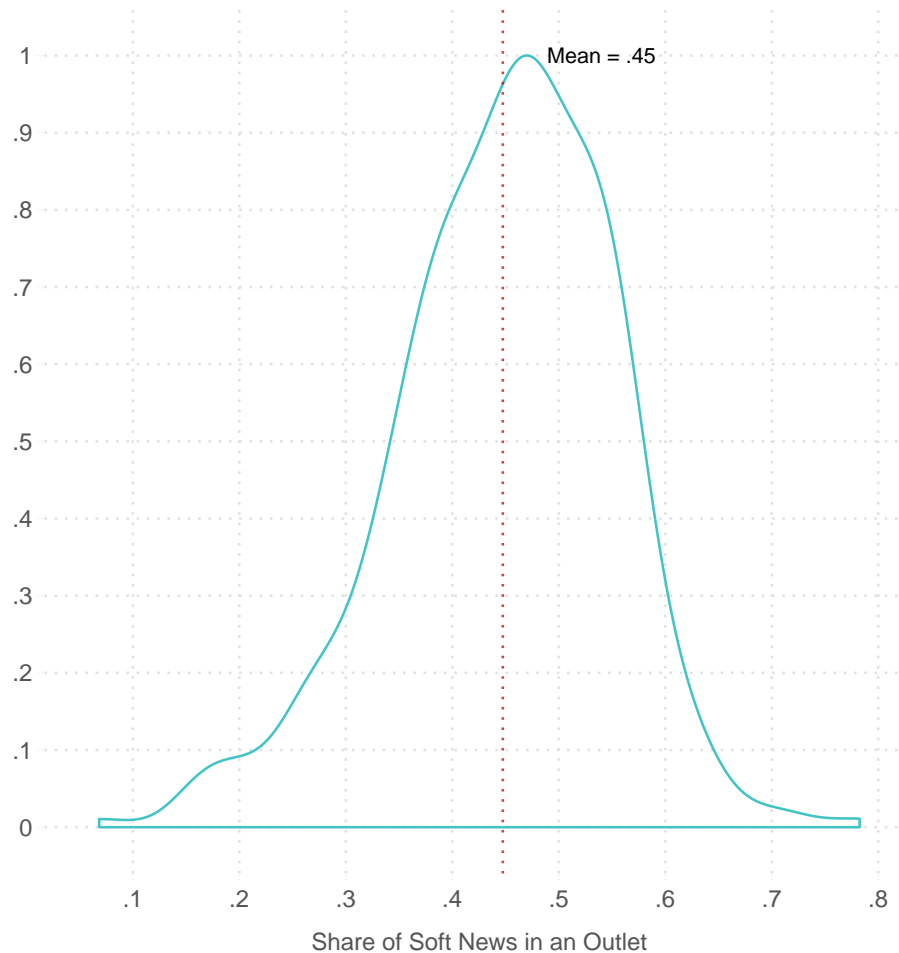
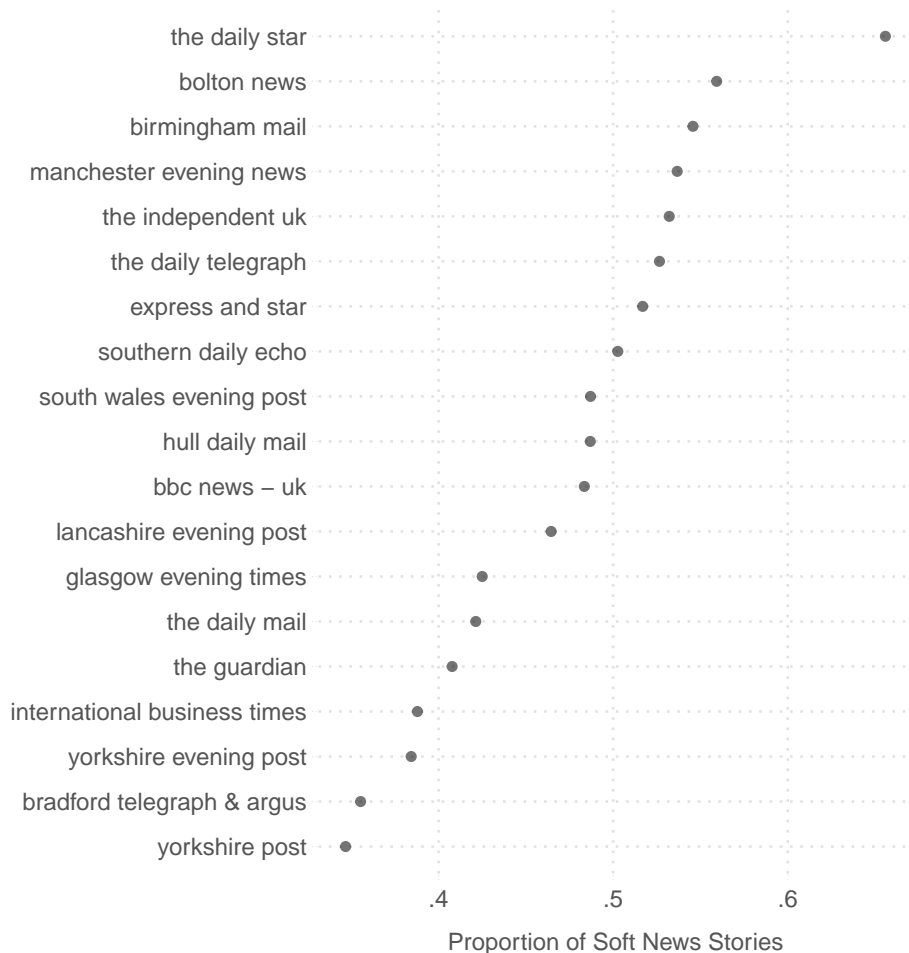


Figure 2 highlights provision of soft news in some prominent outlets. Expectedly, the

tabloid *The Daily Star* takes the top spot with 66%. Somewhat surprisingly, about 48% the articles on BBC are soft news. The commensurate number for *The Guardian* is 41%.

Figure 2: Share of Soft News Across Prominent Outlets



Splitting by domain rather than outlet doesn't change the complexion of the results (see Figure SI 3.1). The average proportion of soft news across domains is 46%. The median is 45%, and the maximum is 74% (for chroniclelive.co.uk).

Next, we estimate the provision of soft news over time. To estimate how the provision of soft news is changing over time, we start by regressing probability an article is soft news on year rescaled to range from 0 (2003) to 1 (2015) and one-hot-encoded outlets. This gives us an

estimate of ‘average’ change assuming that the outlet mix of our sample remains the same. The results suggests that over time the proportion of soft news has increased by roughly 8%.

To explicitly look at within outlet trends, we subset on rows for each source and estimate trend for each outlet by regressing probability of a soft news article on year, rescaled as above. We then average coefficients over all these regressions and then estimate how on the provision of soft news is changing across outlets on average. This specification gives each outlet equal weight. If we do that, we get an estimate of about 1% increase in soft news over time.

Discussion

Near tautologically, lower the political content, lesser the opportunity to learn something relevant for political decision making ([Prior 2003](#); [Curran et al. 2009](#)), and greater the opportunity to be distracted. This is not to say that news about celebrities, entertainment, food, and travel do not affect people’s political attitudes and beliefs. But it is to say that people will not be better at holding politicians accountable or be better able to execute their preferences, if they consume more soft news. In this article, we shed light on measuring soft news and describing the provision of soft news. And in shedding light on this important measure of the quality of news, the article contributes to the literature on media effects.

References

- Arceneaux, Kevin and Martin Johnson. 2013. *Changing Minds Or Changing Channels?: Partisan News in an Age of Choice*. University of Chicago Press.
- Bakshy, Eytan, Solomon Messing and Lada A Adamic. 2015. “Exposure to ideologically diverse news and opinion on Facebook.” *Science* 348(6239):1130–1132.
- Barnhurst, Kevin G and Diana Mutz. 1997. “American journalism and the decline in event-centered reporting.” *Journal of Communication* 47(4):27–53.
- Cagé, Julia. 2012. Trash media: How competition affects information. Technical report Mimeo Harvard University.
- Curran, James, Shanto Iyengar, Anker Brink Lund and Inka Salovaara-Moring. 2009. “Media System, Public Knowledge and Democracy A Comparative Study.” *European Journal of Communication* 24(1):5–26.
- Davis, Richard and Diana Marie Owen. 1998. *New media and American politics*. Oxford University Press.
- Flaxman, Seth, Sharad Goel and Justin Rao. 2016. “Filter bubbles, echo chambers, and online news consumption.” *Public Opinion Quarterly* p. nfw006.
- Gentzkow, Matthew and Jesse M Shapiro. 2006. What drives media slant? Evidence from US daily newspapers. Technical report National Bureau of Economic Research.
- Gentzkow, Matthew, Jesse M Shapiro and Michael Sinkinson. 2015. “Forthcoming. The effect of newspaper entry and exit on electoral politics.” *American Economic Review* .
- Guess, AM. 2016. “Media choice and moderation: Evidence from online tracking data.” *Unpublished manuscript, New York University* .

- Kalb, Marvin. 1998. *The Rise of the "new News": A Case Study of Two Root Causes of the Modern Scandal Coverage*. Joan Shorenstein Center on the Press, Politics, and Public Policy, Harvard University, John F. Kennedy School of Government.
- Oberholzer-Gee, Felix and Joel Waldfogel. 2006. Media markets and localism: Does local news en Espanol boost Hispanic voter turnout? Technical report National Bureau of Economic Research.
- Prior, Markus. 2003. "Any good news in soft news? The impact of soft news preference on political knowledge." *Political Communication* 20(2):149–171.
- Schudson, Michael and Susan E Tifft. 2005. *American journalism in historical perspective*. Oxford University Press New York.
- Shanor, Donald R. 2013. *News from abroad*. Columbia University Press.
- Snyder Jr, James M and David Strömberg. 2008. Press coverage and political accountability. Technical report National Bureau of Economic Research.
- Strömberg, David. 2004. "Radio's impact on public spending." *The Quarterly Journal of Economics* pp. 189–221.
- Zou, Hui and Trevor Hastie. 2005. "Regularization and variable selection via the elastic net." *Journal of the Royal Statistical Society: Series B (Statistical Methodology)* 67(2):301–320.

SI 1 Summary of the Media Data

A complete list of domains from which we collected articles, the range of dates for which we have data from each, and the number of articles.

Table SI 1.1: Summary of the Media Data

Name	From	To	No. of Transcripts
24dash	13504	15446	43652
A World to Win Blogs	15345	16342	1549
Agra-Net.com	13600	16150	14391
Al-Sharq Al-Awsat	13260	15762	35672
Alliance for Workers' Liberty	12079	16259	1781
Ananova	13618	15607	86893
Andover Advertiser	13600	16307	7540
Ayrshire Post	13588	15886	9202
BBC News	12101	16470	120772
Bakery and Snacks	13711	15924	3807
Ballyclare Gazette	14420	16086	1246
Ballymena Times	13851	15526	4338
Ballymoney Today	13119	15014	25633
Banbridge Leader	13167	15526	34811
Banbury Guardian	13522	15883	37290
Barking and Dagenham Post	13033	14875	6193
Barnet Times	13719	15321	33555
Barnsley Chronicle	13525	15739	3978
Basingstoke Gazette	13287	16263	25255
Beccles and Bungay Journal	13581	14879	5986
Bedford Times and Citizen	12555	15884	24715
Belfast Media	13637	15232	45231
Belfast Telegraph	13001	15860	263918
Belfast Today	13676	15525	3584
Berwick Today	13354	15530	6696
Bexhill Observer	13812	15878	18234
Birmingham Mail	14049	16259	80567
Bishop's Stortford Citizen	13592	14267	20120
Blackburn Citizen	13522	16213	36210
Blackpool Citizen	13216	16239	11621
Blackpool Today	13578	14986	13362
Bognor Today	13759	16470	21769
Bolton News	13593	16171	92852
Border Telegraph	13046	15714	1770
Borehamwood and Elstree Times	13594	16259	67130
Boston Standard	12823	15525	12871
Bournemouth Daily Echo	15338	16162	7350
Bracknell Times	13417	15867	10033
Bradford Telegraph and Argus	15464	16213	15105
Brechin Today	13055	15529	18950
Brighton Evening Argus	14730	16319	9108
Bromley Times	13748	14946	2829
Buckingham Today	13287	15396	44622

Bucks Free Press	15340	16259	6195
Bucks Herald	12508	15883	13226
Burnley Express	13077	15524	11175
Bury Free Press	13578	15880	15140
Bury Times	13561	16263	46248
Business Weekly - UK	14043	14984	1485
Buxton Advertiser	13615	15524	118757
Cambridge Evening News	12325	15600	39484
Cambs Times	13588	16259	12758
Chard and Ilminster News	13667	16213	12669
Cheshire Online	12467	15883	54587
Chester Evening Leader	13522	14442	2201
Chester Standard	13588	15876	25986
Chichester Observer	13713	15526	25994
Chingford Guardian	13588	14077	5883
Chorley Citizen	13422	16258	20925
Clitheroe Today	14373	15021	2919
Colchester Daily Gazette	14083	16470	28158
Cornish Guardian	14344	16147	16971
Country Life	13182	15425	2825
County Times	13585	15866	1590
Coventry Telegraph	13635	15883	24206
Crawley Observer	13599	15883	15810
Croydon Guardian	13588	16307	19321
Cumberland and Westmorland Herald	13546	15883	2134
Daily Express	13522	15742	19656
Daily Post	13522	16470	66240
Daily Record	13634	15552	51530
Darlington and Stockton Times	13588	16213	22180
Derby Evening Telegraph	15338	15948	21609
Derbyshire Times	13966	15525	4600
Derry Journal	14420	15878	3218
Diss Mercury	13825	16352	4089
Doncaster Free Press	13475	15523	9354
Donegal News	13567	13868	2426
Driffield Times and Post	13402	15887	6437
Dromore Leader	13202	15879	1700
Dunmow Broadcast	15433	16385	1237
EUBusiness	15340	16259	6505
Ealing Times	13588	16213	4339
East Anglian Daily Times	13588	14609	18578
East Lothian Courier	13524	16162	5248
Eastbourne Herald	13533	14609	9833
Eastern Daily Press	13588	16259	27908
Eastwood Advertiser	12832	15886	19548
Echo - Essex News and Sports	13588	16307	26522
Edgware and Mill Hill Times	13104	15583	14259
Ely Standard	13588	16386	5511
Environmental Agency UK	14157	16157	1514
Epping Forest Guardian	13588	14077	5849
Epsom Guardian	13588	16212	12412
Essex Chronicle	14306	16050	7225
Evening Gazette	13590	14077	11605

Evening Star (Ipswich)	13474	16470	40262
Evening Telegraph	13599	15391	5846
Express and Star	13990	16470	30510
Farmers Guardian	13753	16470	19275
Farmers Weekly Interactive	13199	16255	24106
Farming UK	14313	16415	6405
Food Naviagtor	13598	14601	2846
Food Navigator	13724	16470	5923
Fruit Net (UK and Germany)	14587	15637	1653
Gazette and Herald	13797	16213	12849
Gazette Live	13074	15824	19382
Glasgow Evening Times	13746	15883	7032
Gloucestershire County Gazette	13764	15739	3425
Google News	14695	16470	7471
Grantham Today	13634	15874	13578
Great Yarmouth Mercury 24	13958	14609	7010
Grimsby Telegraph	15340	15948	3331
Guardian Series	14083	16307	91419
Hackney Gazette	13047	15719	4399
Hampshire Chronicle	13294	16259	13456
Hampstead and Highgate Express	13545	16470	3786
Harborough Mail	13588	15918	4551
Haringey Independent	12263	15583	6300
Harlow Citizen	13589	14224	1862
Harrow Times	12431	16259	14132
Hartlepool Mail	12346	15846	35403
Hemel Today	13490	15875	19242
Hendon and Finchley, Barnet and Potters Bar, and Edgware and Mills Hill Times	13719	16213	3155
Herald and Post	13588	14609	26902
Hertferdshire Mercury	13753	16259	11072
Hexham Courant	13399	16469	5518
Highland News	13587	16212	4900
Hillingdon Times	13587	15392	6198
Horncastle News	12165	15947	36426
Horticulture Week	15342	15636	1277
Hucknall Dispatch	13585	15948	7450
Hull Daily Mail	15341	15947	18489
Hunts Post	13588	16399	5375
IC Newcastle	13384	15748	34137
IC Teesside	13444	14609	7586
ITN News	13587	14609	37944
Ilford Recorder	13565	16370	5925
Ilkeston Advertiser	12257	15948	5353
Ilkley Gazette	13523	15583	5640
Impartial Reporter	15337	15714	1981
In the News	13450	15685	36422
Inspire Magazine	13796	15461	2461
Insurance Insight	15618	16048	1289
International Business Times	13997	16470	85135
Isle of Wight County Press	13797	16327	13338
Journal Live	13772	15883	20003
Kenilworth Weekly News	13885	15924	8798
Kingston Guardian	13588	16307	12284

Lancashire Evening Post	13495	16162	40491
Lancashire Evening Telegraph	14799	16193	7987
Lancashire Telegraph	12500	16259	64429
Leamington Observer	13909	16470	2397
Leicester Mercury	14495	15949	20944
Leicester Sound	13600	14152	1855
Leigh Journal	13277	16307	19456
Lincolnshire Echo	15340	16056	11839
Lisburn Today	13196	14609	9319
Liverpool Daily Post	13522	14609	39071
Liverpool Echo	13690	15775	33691
Local London	13913	16263	13305
London Turkish Gazette	14157	15470	1190
Louth Leader	13580	15926	35502
Lurgan Mail	13146	15947	5980
Luton News Herald and Post	15340	15525	1526
Lynn News	13581	15525	4211
Manchester Evening News	12074	15728	35909
Mansfield Today	13588	13747	7490
Mansfield and Ashfield Chad	13604	16462	5797
Matlock Mercury	13306	15947	3311
Melton Times	13461	16052	5890
Metro - London	13587	16470	43471
Morning Star Online	13522	15946	9942
Morpeth Herald	13489	15922	3434
Newbury Today	12934	16328	5638
Newham Recorder	13517	16370	5246
Newry Democrat	12054	16259	1948
News and Star	12615	16318	32852
News Guardian	15711	15883	1561
News Post Leader	13594	15885	12058
News Shopper	13588	16259	10184
News Wales	13585	15494	2688
NewsNet Scotland	15177	16331	4954
North Tyneside Today	13593	13878	2140
North Wales Chronicle	13574	16328	4874
North-West Evening Mail	13594	16469	9273
Northampton Chronicle and Echo	13588	16470	19851
Northamptonshire Evening Telegraph	13588	15490	3341
Northern Ireland Executive	15350	16470	5630
Northumberland Gazette	13633	15921	5219
Norwich Evening News 24	13528	16470	33174
Nottingham Post	15340	15948	23000
Ongar Guardian	13588	13879	2980
Open Democracy	13838	15516	1031
Ormskirk Advertiser	12641	16155	7496
Oxford Mail	13227	16470	47232
PR Newswire	13798	15930	5603
Paisley Daily Express	13746	15692	18870
Pendle Today	13301	15524	10778
Peterborough Evening Telegraph	13559	15834	20896
Petersfield Post	12634	16094	5353
Plymouth Herald	15498	15948	3350

Preston Citizen	13158	16305	2677
Reading Post	13712	16469	18122
Redhill and Reigate Life	13588	16462	3209
Retford Guardian	13475	15948	4441
Reuters AlertNet	13434	15818	91444
Richmond and Twickenham Times	13588	16307	5695
Ripley and Heanor News	13690	15947	3319
Rochdale Observer	12947	15724	1921
Romsey Advertiser	13322	16304	2242
Royston Crow	13579	16469	5859
Rutland News	13587	13873	1341
Rutland Times	13599	15943	8563
Saffron Walden Reporter	13579	16385	3920
Sale and Altrincham Messenger	13594	16213	5606
Scotsman	12484	15876	46782
Scunthorpe Telegraph	15340	15948	9194
Sheffield Today	13401	15525	13699
Skegness Today	13531	13878	4168
SkyNews	12075	16213	23848
Slough and South Bucks Observer	15340	15886	2514
Somerset County Gazette	15340	16322	5015
South London Press	13584	13977	7848
South Wales Argus	13587	15392	3698
South Wales Evening Post	15706	16470	11987
Southern Daily Echo	13218	16325	68458
Spalding Guardian	15319	15876	4328
Spalding Today	13585	14609	8977
St Albans Observer	13591	13878	2083
Stamford Mercury	15340	15525	1584
Streatham Guardian	13588	15391	4323
Sunderland Echo	13523	15524	10314
Surrey Advertiser	14029	15716	4987
Sutton Guardian	13588	16259	7506
Telegraph UK	15848	16014	1469
The Bath Chronicle	15340	15950	10451
The Berwickshire News	12306	15883	16258
The Courier and Advertiser	15341	15685	2646
The Cumberland News	12272	15367	9935
The Daily Mail	13962	16213	206248
The Daily Star	14588	15887	21220
The Daily Telegraph	12103	16470	348815
The Guardian	12064	16370	75919
The Guardian Europe	15469	16328	17261
The Herald (Scotland)	15339	16470	38077
The Huddersfield Daily Examiner	13638	14609	19065
The Independent UK	13523	15886	129168
The Northern Echo	15339	15582	8597
The Pig Site - UK	15337	15471	1079
The Press (York)	13271	16161	14212
The Press and Journal	15341	16211	4961
The Reading Chronicle	13604	15706	7491
The Scotsman	15378	15887	25745
This is Exeter	15341	15947	14937

This is Gloucestershire	15339	16044	28886
This is Cheshire	15340	16317	4804
Times and Star	15331	16469	1553
Tyrone Times	13664	15947	3680
UK Uncut on Twitter	15343	15483	2492
Wandsworth Guardian	15340	15583	8648
West Sussex County Times	13735	15866	4078
Western Mail	13594	15804	75704
Wharf	13590	16471	5126
Wiltshire News / This is Wiltshire	15341	16470	16537
Wirral Globe	15340	16307	2466
Wisbech Standard	15338	16393	5106
Wokingham Times	13157	15866	10927
Worcester News	15340	16259	9960
Worksop Guardian	15336	15940	3850
World Nuclear News	15342	16309	1041
Worthing Herald	15314	16470	3096
Yorkshire Evening Post	15209	15862	19815
Yorkshire Post	15720	15861	1012
Your Local Guardian	13558	16080	9157
Enfieldindependent.co.uk	12185	16198	5650

SI 2 Manual Coding

Instructions for Manual Coding

We coded as news, stories about crime, economy, technology, politics, and local news. And coded as soft news, stories about celebrities/athletes, sports, lifestyle, travel, and obituaries. The majority of articles clearly fell into one topic, but sometimes an article would fall into two categories. Many articles were about celebrities/athletes, and this topic intersected a lot with not news topics, like crimes, lifestyle, travel, etc. The most common was news about celebrities/athletes committing a crime. The general rule I follow in this was is if the event would make the news if the person in it was not famous, it is news. If it would not, it is not news. This is quite subjective, so I will give examples. If a celebrity commits a minor crime, such as a traffic violation, then that is categorized as not news. If they commit a major crime, such as murder or rape, such as in 240067, it is categorized as news.

Model Based Predictions Vs. Manual Coding

Table SI 2.2: Confusion Matrix: Predicted Vs. Manual Coding

labels	News	Soft News
News	482	67
Soft News	55	388

SI 3 Share of Soft News Across Domains

Figure SI 3.1: Share of Soft News Across Domains

