Supplementary Materials

Table 5 Results of LSA for Hurricane Katrina for 3 different queries. Words are ordered based on their cosine distance from the query vector. Includes the 100 words most similar to the query.

		Hurricane Katrina LSA											
	"climate"	Similarity	"energy"	Similarity	"climate, energy"	Similarity		"climate"	Similarity	"energy"	Similarity	"climate, energy"	Similarity
1	climate	1.000	energy	1.000	energy	0.979	51	supposedly	0.746	conocophillips	0.929	retailers	0.908
2	larger	0.866	prices	0.986	prices	0.952	52	boogie	0.746	jumped	0.928	citroen	0.907
3	destroy	0.861	exchange	0.968	deutsche	0.945	53	theories	0.746	citroen	0.927	behravesh	0.907
4	formally	0.848	consumers	0.966	price	0.943	54	nurtured	0.745	tumbling	0.926	traders	0.906
5	theory	0.844	weinberg	0.966	underinvestment	0.943	55	raw	0.745	mercantile	0.925	producers	0.905
6	sound	0.837	argus	0.964	signaling	0.941	56	topics	0.744	production	0.924	idled	0.905
7	gale	0.826	reidy	0.962	discounting	0.940	57	sounded	0.743	embargo	0.923	products	0.905
8	reinforced	0.817	splurge	0.960	java	0.940	58	cvnthia	0.742	putins	0.922	tenth	0.904
9	journal	0.815	hummer	0.960	argus	0.939	59	deadly	0.742	shutdowns	0.920	export	0.904
10	sensitive	0.814	markets	0.959	hummer	0.938	60	sacrifice	0.741	reserve	0.920	commodity	0.904
11	unlikely	0.812	downers	0.958	oil	0.937	61	certain	0.740	crude	0.920	imports	0.903
12	belief	0.809	highs	0.958	consumers	0.937	62	cataclysmic	0.740	arabica	0.920	adjusting	0.903
13	phenomenon	0.809	underinvestment	0.957	shocks	0.934	63	nor	0.740	pretax	0.919	vergin	0.902
14	rail	0.800	exporting	0.954	weinberg	0.934	64	reconstructed	0.740	mobil	0.919	artificially	0.902
15	studying	0.796	price	0.954	markets	0.934	65	assessments	0.739	soaring	0.919	nariman	0.902
16	wealthy	0.795	reserves	0.954	profits	0.934	66	haunting	0.738	uncharted	0.919	cents	0.902
17		0.795	signaling	0.954		0.931	67		0.738		0.919	tightness	0.902
	brings	0.792		0.955	reserves	0.931	68	continuing	0.737	imports	0.919		0.902
18	barge		dampening		exchange			transforming		chevrons		subjective	
19	ancient	0.791	oil	0.950	peaks	0.931	69 70	william	0.737	exxon	0.917	doha	0.901
20	masters	0.786	java	0.949	highs	0.929	70	regard	0.736	manifold	0.917	spikes	0.900
21	politicians	0.785	cents	0.948	splurge	0.927	71	vicinity	0.736	trading	0.916	winter	0.898
22	professor	0.783	deutsche	0.948	exporting	0.927	72	booming	0.735	suisse	0.916	exxon	0.897
23	recommendations	0.782	gasoline	0.947	gasoline	0.923	73	audiences	0.735	automaker	0.916	uncharted	0.897
24	thick	0.782	traders	0.946	dampening	0.923	74	advocacy	0.734	tepid	0.915	chairmans	0.897
25	marked	0.780	nariman	0.946	pinch	0.922	75	mass	0.733	futures	0.915	soared	0.897
26	alter	0.779	discounting	0.945	oils	0.922	76	remarkable	0.733	geopolitical	0.915	conocophillips	0.896
27	sounds	0.776	behravesh	0.944	soaring	0.922	77	breaking	0.732	record	0.914	clamping	0.895
28	hole	0.776	retailers	0.943	exported	0.920	78	facts	0.732	yergin	0.914	exporters	0.895
29	peril	0.775	barrel	0.942	reidy	0.919	79	constituents	0.731	clamping	0.914	bps	0.895
30	extremely	0.771	heating	0.942	output	0.919	80	isolated	0.730	retail	0.914	crimp	0.895
31	avoided	0.770	oils	0.942	exporter	0.917	81	vibrant	0.703	hess	0.913	cutback	0.894
32	loose	0.770	shocks	0.941	easing	0.917	82	unequivocal	0.730	pinch	0.912	global	0.894
33	multi	0.769	idled	0.941	putins	0.917	83	recommended	0.729	chairmans	0.911	pretax	0.893
34	appear	0.767	jolted	0.941	record	0.916	84	unprotected	0.728	closings	0.911	disrupted	0.893
35	devastating	0.766	output	0.940	tumbling	0.916	85	inundated	0.727	depository	0.910	liquefied	0.892
36	draft	0.764	peaks	0.937	demand	0.915	86	ears	0.726	disrupted	0.909	premcor	0.892
37	possibility	0.764	profits	0.936	downers	0.915	87	exuberant	0.725	winter	0.909	jumped	0.891
38	roiled	0.759	soared	0.936	automaker	0.913	88	greenhouse	0.725	sunoco	0.909	mobil	0.891
39	retracted	0.758	exported	0.936	heating	0.913	89	powers	0.725	chevron	0.908	arabica	0.890
40	mismanagement	0.758	premcor	0.935	disruptions	0.913	90	alarms	0.724	doha	0.908	bros	0.890
40	plot	0.757	disruptions	0.933	atm	0.913	90 91	comment	0.724	bros	0.903	mercantile	0.890
42							92		0.722	commodity			0.887
42	produced	0.757 0.755	exporter	0.934 0.933	tepid	0.911 0.911	92 93	brokers	0.722		0.907 0.906	analyst	0.887
	becomes		easing		chevrons		93 94	deny		commodities		gas	
44	decades	0.753	crimp	0.932	jolted	0.911		pianos	0.722	wholesalers	0.905	geopolitical	0.886
45	consider	0.752	dent	0.932	embargo	0.909	95	baker	0.721	refiner	0.905	interruptions	0.886
46	wealthier	0.752	demand	0.932	pricing	0.909	96	ethnic	0.720	soar	0.903	squeeze	0.886
47	dismissed	0.751	roasters	0.930	roasters	0.908	97	cyclical	0.720	analyst	0.903	chevron	0.885
48	repeated	0.751	tightness	0.930	dent	0.908	98	relieve	0.720	products	0.903	crude	0.885
49	delays	0.750	atm	0.929	production	0.908	99	studies	0.720	bps	0.903	nations	0.884
50	unique	0.749	pricing	0.929	barrel	0.908	100	spread	0.720	thurtell	0.902	derivatives	0.884

Table 6 Results of LSA for Hurricane Sandy for 3 different queries. Words are ordered based on their cosine distance from the query vector. Includes the 100 words most similar to the query.

Hurricane Sandy LSA													
	"climate"	Similarity	"energy"	Similarity	"climate, energy"	Similarity		"climate"	Similarity	"energy"	Similarity	``climate,energy"	Similarity
1	climate	1.000	energy	1.000	climate	0.979	51	fuels	0.895	extracted	0.862	deniers	0.906
2	change	0.963	technologies	0.949	warmer	0.961	52	kerry	0.894	abundance	0.860	vigil	0.904
3	reduce	0.957	fuels	0.946	georgetown	0.956	53	hydroelectric	0.893	tackle	0.860	proportion	0.904
4	warming	0.957	fossil	0.943	warming	0.955	54	pollute	0.893	regulating	0.858	targets	0.902
5	reducing	0.956	hydroelectric	0.936	reduce	0.955	55	technologies	0.891	outweigh	0.858	mover	0.901
6	pressures	0.952	renewable	0.932	energy	0.952	56	altering	0.890	envisioned	0.857	scientists	0.899
7	georgetown	0.947	rogue	0.932	reducing	0.951	57	regulating	0.890	miserably	0.856	automobiles	0.899
8	lowering	0.943	employing	0.921	pressures	0.948	58	mover	0.889	subtler	0.856	devise	0.898
9	talks	0.942	warmer	0.920	fossil	0.947	59	believing	0.886	upending	0.855	controlling	0.898
10	devise	0.938	supplying	0.918	fuels	0.946	60	enhancement	0.885	pollution	0.855	modification	0.896
11	expands	0.938	firing	0.913	change	0.946	61	planets	0.885	solar	0.855	trillions	0.895
12	outweigh	0.937	efficiency	0.911	technologies	0.945	62	eco	0.883	modification	0.855	scenarios	0.893
13	warmer	0.937	streamlined	0.911	coal	0.943	63	cities	0.882	sciences	0.854	earths	0.893
14	plants	0.934	generating	0.908	global	0.942	64	automobiles	0.882	automobiles	0.853	abundance	0.891
15	drought	0.933	altering	0.906	hydroelectric	0.941	65	greenhouse	0.880	regulatory	0.852	attribute	0.890
16	manipulation	0.929	coal	0.906	emissions	0.940	66	notoriously	0.879	trapping	0.851	greenhouse	0.888
17	emissions	0.929	consumption	0.900	firing	0.937	67	strict	0.878	surprises	0.850	enhancement	0.887
18	global	0.929	adapt	0.898	outweigh	0.936	68	porous	0.878	earths	0.849	doom	0.886
19	imperative	0.927	sparked	0.895	generating	0.933	69	groundwater	0.878	measured	0.848	funneling	0.885
20	arizona	0.924	dimming	0.894	carbon	0.930	70	consumption	0.877	mover	0.847	groundwater	0.885
20	attribute	0.924	georgetown	0.892	arizona	0.930	70	modification	0.876	waterkeeper	0.846	hotter	0.884
21 22	scientists	0.923	carbon	0.892	editorials	0.930	71 72	hotter	0.876	change	0.846	copenhagen	0.884
22		0.923							0.876		0.845		0.884
23 24	planet		masonry global	0.888 0.886	plants	0.927	73 74	earths		deniers sub		oceans	
	pollution	0.919			humanitys	0.926		markedly	0.875		0.843	windstorms	0.883
25	curbing	0.918	erratic	0.885	altering	0.926	75	retaining	0.875	blackouts	0.843	planets	0.881
26	coal	0.917	searchable	0.884	manipulation	0.924	76	attests	0.875	manipulation	0.842	emission	0.881
27	editorials	0.915	faster	0.882	pollution	0.923	77	dimming	0.875	depleting	0.841	munich	0.881
28	targets	0.914	emissions	0.881	employing	0.923	78	employing	0.874	funneling	0.841	rogue	0.880
29	oceans	0.912	skeptics	0.880	drought	0.922	79	proportion	0.873	curbing	0.841	markedly	0.878
30	vigil	0.912	proportion	0.877	extracted	0.921	80	efficiency	0.873	plants	0.841	pollute	0.878
31	scenarios	0.911	trillions	0.876	foretaste	0.920	81	depleted	0.873	sources	0.841	ozone	0.878
32	extracted	0.911	foretaste	0.876	skeptics	0.919	82	exemplified	0.872	frequent	0.841	depleting	0.877
33	humanitys	0.911	warming	0.875	lowering	0.919	83	murky	0.872	oil	0.841	epa	0.877
34	distraction	0.910	reduce	0.875	dioxide	0.918	84	sparked	0.870	planet	0.839	overheated	0.877
35	pentagon	0.910	editorials	0.875	efficiency	0.918	85	essay	0.870	emission	0.838	contiguous	0.877
36	contiguous	0.909	humanitys	0.875	planet	0.917	86	atmospheric	0.869	ozone	0.837	frequent	0.876
37	controlling	0.908	eco	0.875	curbing	0.917	87	overheated	0.869	pentagon	0.836	sensible	0.874
38	carbon	0.907	ton	0.874	consumption	0.915	88	copenhagen	0.869	windstorms	0.836	freely	0.872
39	dioxide	0.906	efficient	0.872	expands	0.914	89	fahrenheit	0.868	acceptance	0.836	kerry	0.871
40	extremes	0.905	cities	0.872	subtler	0.913	90	energy	0.868	buildup	0.835	ton	0.870
41	munich	0.903	doom	0.870	dimming	0.912	91	adapt	0.868	copenhagen	0.835	fahrenheit	0.870
42	firing	0.902	compounding	0.869	talks	0.911	92	windstorms	0.867	focuses	0.835	exemplified	0.869
43	subtler	0.902	mentioning	0.868	sparked	0.910	93	funneling	0.867	vein	0.834	persistence	0.869
44	foretaste	0.900	climate	0.868	pentagon	0.909	94	illustrative	0.866	epa	0.834	atmospheric	0.869
45	generating	0.899	reducing	0.867	eco	0.909	95	vapor	0.866	drought	0.833	environmental	0.866
46	environmental	0.899	pressures	0.866	adapt	0.909	96	abundance	0.864	harvard	0.832	increasing	0.865
40	fossil	0.899	arizona	0.864	imperative	0.908	90 97	prosperity	0.864	redundant	0.832	levi	0.865
48	deniers	0.899	candlelit	0.863	trapping	0.908	97 98	freely	0.863	greenhouse	0.832	meaningfully	0.865
49	trapping	0.897	dioxide	0.862	cities	0.907	99	emission	0.862	temperature	0.825	porous	0.863
49 50	skeptics	0.897		0.862	regulating	0.907	99 100	scientific	0.862	iron	0.827		0.862
90	skeptics	0.890	degrees	0.802	regulating	0.900	100	scientific	0.862	iron	0.820	essay	0.862

Hurricane Katrina LDA										
topic 0	topic 1	topic 2	topic 3	topic 4	topic 5	topic 6	topic 7	topic 8	topic 9	
quinn	leve	job	hous	billion	polic	bush	bodi	price	school	
team	corp	hous	water	tax	casino	presid	death	oil	studen	
season	engin	krt	home	feder	offic	democrat	offici	percent	univer	
time	flood	\mathbf{st}	street	hous	peopl	republican	state	energi	tulan	
player	water	home	time	senat	street	hous	home	gas	colleg	
play	canal	antoin	day	congress	day	polit	die	gasolin	educ	
game	protect	back	peopl	cut	depart	white	victim	rate	back	
coach	wall	school	back	republican	fire	administr	peopl	market	campu	
start	system	restaur	tree	spend	citi	senat	famili	week	returr	
point	louisiana	peopl	live	bill	biloxi	respons	parish	product	high	
open	armi	work	boat	budget	hotel	govern	st	month	distric	
make	offici	month	resid	govern	crime	nation	louisiana	consum	enrol	
made	surg	worker	work	money	store	american	identifi	report	public	
day	feet	louisiana	build	program	reddick	time	morgu	economi	class	
e		day	neighborhood			leader	relat		warm	
sign	project	•	0	state	water			compani		
top	level	live	damag	propos	time	critic	coron	increas	researc	
week	pump	chitrib	roof	cost	back	peopl	dr	gulf	time	
score	lake	rebuild	photograph	bush	gambl	iraq	dead	fuel	hurrica	
world	design	end	flood	plan	mississippi	parti	found	expect	teache	
lead	environment	return	photo	million	hous	effort	remain	gallon	institu	
topic 10	topic 11	topic 12	topic 13	topic 14	topic 15	topic 16	topic 17	topic 18	topic 1	
peopl	leve	red	famili	gras	game	music	town	peopl	ship	
black	hous	cross	home	mardi	team	jazz	plan	time	airlin	
king	flood	donat	children	french	saint	band	build	american	show	
time	protect	relief	day	restaur	play	musician	develop	disast	news	
west	rebuild	organ	live	parad	season	art	school	news	time	
mayor	home	volunt	back	street	home	cultur	hous	report	northro	
day	system	victim	school	back	footbal	museum	state	world	networ	
presid	feder	fund	mother	peopl	player	perform	design	stori	trave	
polit	work	peopl	friend	quarter	coach	play	communiti	book	air	
*	offici	million		time		festiv	resid	nation	nbc	
loomberg			peopl		state					
lemocrat	peopl	chariti	im	home	time	artist	architect	thing	millio	
ampaign	hotel	disast	call	day	leagu	song	board	public	broadca	
franklin	state	american	hous	citi	stadium	work	meet	word	repor	
candid	neighborhood	money	stay	make	giant	show	public	natur	abc	
ferrer	engin	group	time	club	san	time	local	day	cruis	
poll	corp	rais	dont	louisiana	back	concert	street	govern	progra	
hop	powel	effort	work	cook	bowl	includ	architectur	media	film	
made	billion	food	life	krew	louisiana	orchestra	project	great	chann	
hip	busi	org	son	hotel	field	event	urban	make	televi	
dont	krt	shelter	left	celebr	win	record	peopl	histori	navi	
topic 20	topic 21	topic 22	topic 23	topic 24	topic 25	topic 26	topic 27	topic 28	topic 2	
ompani	insur	peopl	hospit	guard	nagin	evacu	state	hous	fema	
busi	flood	church	patient	nation	neighborhood	water	car	evacue	respor	
work	damag	black	health	state	resid	peopl	charg	fema	feder	
employe	billion	massachusett	medic	militari	black	offici	law	peopl	agen	
million	state	state	nurs	troop	mayor	resid	court	offici	brow	
contract	compani	poverti		offici	citi	louisiana	vehicl	home	disas	
servic	loss	work	care dr	bush	rebuild	rita		houston		
							investig		gover	
worker	mississippi	romney	center	unit	white	area	offic	feder	emer	
bank	home	poor	doctor	forc	peopl	flood	attorney	agenc	secu	
custom	homeown	american	peopl	feder	elect	coast	lawyer	hotel	offici	
week	pay	evacue	evacu	louisiana	home	state	louisiana	trailer	homela	
oper	claim	servic	state	equip	vote	texa	case	famili	hous	
port	$\cos t$	communiti	flu	day	hous	center	judg	state	depar	
system	allstat	job	emerg	effort	area	wind	report	shelter	repor	
execut	area	base	staff	relief	flood	emerg	fraud	emerg	mana	
	properti	day	home	presid	return	gulf	station	live	cherto	
line						home	feder		white	
	louisiana	time	dav	respons	pjan		recier	month		
area	louisiana industri	time live	day die	respons blanco	plan percent			month apart		
	louisiana industri feder	time live worker	day die diseas	respons blanco disast	percent lower	day houston	offici file	apart govern	bush	

Table 7 A 30 topic LDA model for Hurricane Katrina. Each topic contains the 20 most probable (stemmed) words in its distribution. We stem words according to a Porter stemmer Porter (1980).

Hurricane Sandy LDA topic 0topic 1 topic 2 topic 3 topic 4 topic 5 topic 6 topic 7 topic 8 topic 9 power obama climat hous school broadway park train hospit insur $\operatorname{compani}$ flood home author home util romney time street tree chang presid theater boardwalk station percent servic water fund patient protect beach line health sale compani campaign peopl time jersey author elect build car day work damag servic medic month state live student tunnel market electr rise open fire nurs island republican flood children perform seasid evacu busisea jersey water public shore increas custom vote peopl peopl gasemerg state polit riskpoint famili day busi transport center million system governor level ${\rm fire}$ american show height power $d\mathbf{r}$ loss grid voter energi street red week summer damag peopl industri long day natur rockaway donat power town subway citi home power verizon poll back case run $_{\rm time}$ street offici report nation democrat weather day work danc beach manhattan resid expect work peopl develop insur cross play work offici island billion govern phone debat make damag light pier transit day rate commiss candid cost residlive night island long care week network presidenti state work disastcancel stand system bird retail time plan famili parent halloween back daymayor consum conedisonnation neighborhood relief closevisit island mold claim surg topic 10topic 11 topic 12topic 13topic 14 topic 15 topic 16topic 17 topic 18 topic 19 museum hous wind show peopl concert feder water beach build perform water home billion system street art power time sand work peopl day stewart live ticket state state island develop galleri build closehous music hous million peopl park apart water resid weather make water show aid flood dune properti street home coast photo hotel million disastplant long million damag volunt expect live day money money cost offici floor flood food servic twitter polic benefit program car rockaway estat space daytravel call work hall damag occupi corp water

resid

famili

apart

 time

island

 door

evacu

 call

worker

staten

report

rais

song

peopl

night

work

relief

refund

springsteen

jersey

sale

band

govern

republican

jersey

million

congress

cuomo

senat

insur

 $\cos t$

offici

homeown

Table 8 A 20 topic LDA model for Hurricane Sandy. Each topic contains the 20 most probable words in its distribution. We stem words according to a Porter stemmer Porter (1980).

work

news

stori

includ

inform

magazin

photograph

design

 post

print

page

center

compani

build

seaport

includ

insur

offic

artist

aquarium

site

research

work

power

live

red

island

apart

week

street

heat

brooklyn

hook

area

offici

peopl

state

damag

flood

nation

massachusett

center

report

hour

sewag

river

peopl

dutch

project

build

geotherm

work

 park

area

engin

project

debri

town

home

resid

 $\operatorname{communiti}$

sea

day

boardwalk

public

work

manhattan

flood

resid

 real

owner

squar

damag

tenant

month

feet

move

	Sandy	Topic	e 0		Sandy 7	Горіс	2	Katrina Topic 8				
1	power	51	generat	1	climat	51	coastal	1	price	51	drop	
2	util	52	solar	2	flood	52	bloomberg	2	oil	52	reserv	
3	servic	53	spokesman	3	chang	53	public	3	percent	53	close	
4	compani	54	voic	4	protect	54	barrier	4	energi	54	inflat	
5	author	55	energi	5	build	55	part	5	gas	55	spend	
6	electr	56	manag	6	rise	56	elev	6	gasolin	56	refin	
7	island	57	emerg	7	sea	57	presid	7	rate	57	august	
8	custom	58	liberti	8	water	58	system	8	market	58	$_{\rm depart}$	
9	state	59	local	9	risk	59	map	9	week	59	natur	
10	system	60	respons	10	level	60	gas	10	product	60	chief	
11	grid	61	governor	11	energi	61	vulner	11	month	61	job	
12	long	62	prepar	12	natur	62	disast	12	consum	62	end	
13	verizon	63	feder	13	power	63	peopl	13	report	63	septemb	
14	nation	64	copper	14	weather	64	fuel	14	economi	64	profit	
15	work	65	govern	15	develop	65	event	15	compani	65	feder	
16	phone	66	rate	16	make	66	polici	16	increas	66	gain	
17	commiss	67	problem	17	$\cos t$	67	step	17	gulf	67	retail	
18	network	68	regul	18	state	68	zone	18	fuel	68	record	
19	con	69	link	19	plan	69	damag	19	expect	69	interest	
20	edison	70	$\cos t$	20	surg	70	live	20	gallon	70	damag	
21	day	71	percent	21	nation	71	effect	21	cent	71	share	
22	restor	72	backup	22	warm	72	unit	22	barrel	72	rais	
23	public	73	report	23	infrastructur	73	coast	23	higher	73	term	
24	communic	74	investig	24	global	74	research	24	stock	74	demand	
25	million	75	damag	25	increas	75	agenc	25	economist	75	futur	
26	worker	76	chief	26	citi	76	recent	26	quarter	76	billion	
27	execut	77	elli	27	reduc	77	long	27	econom	77	level	
28	cuomo	78	ed	28	carbon	78	generat	28	high	78	declin	
29	offici	79	wireless	29	environment	79	heat	29	cost	79	hit	
30	employe	80	carrier	30	scientist	80	effort	30	suppli	80	investor	
31	batteri	81	presid	31	billion	81	rais	31	day	81	survey	
32	offic	82	hit	32	engin	82	pollut	32	analyst	82	state	
33	oper	83	counti	33	studi	83	industri	33	refineri	83	remain	
34	week	84	general	34	time	84	project	34	nation	84	effect	
35	call	85	consum	35	resili	85	standard	35	industri	85	hurrican	
36	time	86	consolid	36	futur	86	code	36	time	86	impact	
37	charg	87	equip	37	emiss	87	hit	37	rose	87	heat	
38	provid	88	director	38	area	88	issu	38	point	88	credit	
39	plan	89	issu	39	govern	89	ocean	39	rise	89	labor	
40	includ	90	cabl	40	feet	90	oyster	40	fell	90	servic	
40 41	pay	91	critic	40	requir	91	design	40	fed	91	american	
41	wire	91 92	cellphon	41 42	higher	91 92	larg	$41 \\ 42$	averag	91 92	continu	
42	statu	92 93	technolog	42	0	92 93	offici	42	trade	92 93	unit	
$\frac{45}{44}$	failur	$93 \\ 94$	run	43 44	mayor extrem	$93 \\ 94$	warn	43 44	million	$93 \\ 94$	show	
		$\frac{94}{95}$		$44 \\ 45$		$\frac{94}{95}$		$\frac{44}{45}$		$94 \\ 95$	produc	
$\frac{45}{46}$	home line	95 96	caus	$\frac{45}{46}$	propos	95 96	face	$\frac{45}{46}$	growth index	95 96	note	
			telephon		high		east					
47	board	97 08	substat	47	plant	97 08	sever	47	yesterday	97	petroleum	
48	panel	98 00	guard	48	includ	98 00	univers	48	sale	98 00	earn	
49	hour	99	place	49	insur	99	decad	49	crude	99	concern	
50	area	100	chairman	50	world	100	solut	50	coast	100	import	

 ${\bf Table \ 9} \ \ {\rm A \ 100 \ word \ extension \ of \ selected \ topics \ from \ the \ Sandy \ and \ Katrina \ LDA \ models.$