

# Response times in CVC naming study at WSU

These are the mean RTs and error rates from the Treiman et al. 1995 naming study with Wayne State University students. They are being made available to other researchers who wish to do additional analyses of these data.

[Treiman, R.](#), Mullennix, J., Bijeljac-Babic, R., & Richmond-Welty, E. D. (1995). The special role of rimes in the description, use, and acquisition of English orthography. *Journal of Experimental Psychology: General*, 124, 107-136.

Data can be read from the table below. They are also available as a [self-documenting XML file](#), or as a [simple TAB-delimited line-oriented file](#) suitable for importing into most statistics packages or processing with core Unix tools.

Each line is for a word type used in the experiment. Ultimate source is the Merriam-Webster Pocket Dictionary of about 20,000 words, using only monosyllables that are pronounced CVC.

SPELL is spelling of word. Contains lower case letters only, [a-z], no punctuation. Words normally capitalized are here rendered in lower case. Each SPELL field is unique across the file.

PHON is the pronunciation of the word, in phonetic symbols. See pronunciation key below.

RT is mean response time for the word.

ERR is mean error rate for the word.

@ back bad bade badge bag ban bang bash bass bat batch bath cab cache cad  
^ buck bud budge buff bug bum bun bung bus but butt buzz chub chuck chug  
a bar bob bomb botch calm car char chop cob cock cod con cop cot czar don  
b babe babe back bad bade badge bag bail bait bake bale balk ball ban bar  
C batch beach beech birch bitch botch catch chafe chaff chain chair chalk  
c balk ball bawl bog boss bought calk call caught caulk cause chalk cough  
D bathe lathe lithe loathe scythe sheathe soothe teethe than that their  
d bad bade bead bed bid bide bird bode bud cad chide cod code could cud  
E bare bear beck bed beg bell belle bet care cell chair check chef cheque  
e babe bail bait bake bale base bate bathe beige cage cake came cane cape  
f beef buff calf chafe chaff chef chief cough cuff deaf face fad fade fag  
G bang bung dung fang gang gong hang hung king long lung pang ping rang  
g bag beg big bog bug chug dig dog dug fag fig fog gab gag gage gain  
h hack had hag hail hair hale half hall halve ham hang hare has hash hat

I been beer bib bid big bill bin bit bitch cheer chick chill chin chip  
 i beach bead beak beam bean beat beech beef beet cease cheap cheat cheek  
 J badge budge cadge cage dodge doge fudge gage gaol gauge gem gene germ  
 k back bake balk beak beck bike book buck cab cache cad cadge cage cake  
 l bail bale ball bawl bell belle bile bill boil bole bowl bull call cell  
 m beam bomb boom bum calm cam came cham chime chum comb come dam dame dim  
 n ban bean been bin bone boon bun burn can cane chain chin churn coin con  
 O boil choice coil coin join loin noise poise soil toil voice void  
 o beaux boar boat bode bole bone bore both bowl choke chore chose coach  
 p burp cap cape chap cheap cheep chip chirp chop coop cop cope cup deep  
 R berth birch bird birth burn burp chirp church churn curb curd curl curt  
 r bar bare bear beer boar bore car care chair char cheer chore core corps  
 S bash bush cache cash chaise chef chic chute dash dish douche fish gash  
 s base bass boss bus case cease cease cell chase chess choice cite curse  
 T bath berth birth booth both dearth death faith girth goth heath loath  
 t bait bat bate beat beet bet bit bite boat boot bought bout but butt cat  
 U book bull bush cook could foot full good hood hoof hook look lure nook  
 u boom boon boot booth booze choose chute cool coon coop coot deuce doom  
 v calve cave chive cove curve dive dove five gave give halve have heave  
 W bout couch cowl doubt down dowse foul fowl gouge gown house howl jowl  
 w one wad wade wag wage waif wail wain wait waive wake walk wall wane war  
 x was  
 Y bide bike bile bite chide chime chive cite dial dice dies dike dime  
 y use yacht yak yam yap yawn year yearn yell yen yes yet yoke yolk yore  
 Z beige rouge  
 z beaux booze buzz cause chaise cheese choose chose czar daze dies does

**SPELL PHON RT ERR**

babe	beb	561	0
back	b@k	525	0
bad	b@d	512	0
bade	b@d	670	9.7
badge	b@J	726	3.2
bag	b@g	561	0
bail	bel	555	0
bait	bet	541	0
bake	bek	553	0
bale	bel	611	3.2
balk	bck	661	3.2

ball	bcl	595	0
ban	b@n	547	0
bang	b@G	549	0
bar	bar	553	0
bare	bEr	608	3.2
base	bes	556	0
bash	b@S	564	0
bass	b@s	563	0
bat	b@t	530	0
batch	b@C	553	0
bate	bet	643	0
bath	b@T	761	0
bathe	beD	602	0
bawl	bcl	574	0
beach	biC	542	3.2
bead	bid	661	0
beak	bik	677	0
beam	bim	559	0
bean	bin	588	0
bear	bEr	593	6.4
beat	bit	548	0
beaux	boz	710	32.6
beck	bEk	556	0
bed	bEd	563	0
beech	biC	634	0
beef	bif	591	0
been	bIn	665	3.2
beer	bIr	557	0
beet	bit	677	0
beg	bEg	541	0
beige	beZ	708	3.2
bell	bEl	568	0
belle	bEl	847	0
berth	bRT	673	0
bet	bEt	595	0
bib	bIb	603	3.2
bid	bId	603	3.2
bide	bYd	679	9.7

big	bIg	589	0
bike	bYk	524	0
bile	bYl	835	3.2
bill	bIl	538	0
bin	bIn	549	0
birch	bRC	641	3.2
bird	bRd	565	0
birth	bRT	521	0
bit	bIt	589	0
bitch	bIC	584	0
bite	bYt	574	0
boar	bor	614	0
boat	bot	514	0
bob	bab	629	0
bode	bod	705	3.2
bog	bcg	561	3.2
boil	bOl	582	0
bole	bol	656	0
bomb	bam	653	3.2
bone	bon	563	0
book	bUk	550	3.2
boom	bum	565	0
boon	bun	617	0
boot	but	526	3.2
booth	buT	600	0
booze	buz	570	0
bore	bor	633	0
boss	bcs	634	0
botch	baC	638	0
both	boT	593	12.9
bought	bct	586	0
bout	bWt	607	0
bowl	bol	639	3.2
buck	b^k	576	0
bud	b^d	550	0
budge	b^J	592	0
buff	b^f	550	0
bug	b^g	575	0

bull	bUl	540	0
bum	b^m	558	0
bun	b^n	558	0
bung	b^G	698	0
burn	bRn	537	0
burp	bRp	594	0
bus	b^s	525	0
bush	bUS	571	0
but	b^t	516	0
butt	b^t	596	0
buzz	b^z	532	0
cab	k@b	745	0
cache	k@S	733	16.1
cad	k@d	706	0
cadge	k@J	922	6.4
cage	keJ	640	0
cake	kek	561	0
calf	k@f	623	0
calk	kck	754	3.2
call	kcl	599	0
calm	kam	575	0
calve	k@v	890	16.1
cam	k@m	657	6.4
came	kem	619	0
cane	ken	684	0
cap	k@p	599	0
cape	kep	616	0
car	kar	574	0
care	kEr	623	0
case	kes	651	0
cash	k@S	594	0
cat	k@t	539	0
catch	k@C	567	0
caught	kct	571	0
caulk	kck	722	38.7
cause	kcZ	553	0
cave	kev	674	3.2
cease	sis	1158	3.2

cell	sEl	670	0
chafe	Cef	719	3.2
chaff	C@f	798	0
chain	Cen	696	0
chair	CEr	610	0
chaise	Sez	685	0
chalk	Cck	572	0
cham	k@m	895	0
chap	C@p	706	0
char	Car	762	16.1
chase	Ces	608	0
chat	C@t	655	0
cheap	Cip	619	0
cheat	Cit	720	0
check	CEk	640	0
cheek	Cik	689	0
cheep	Cip	667	0
cheer	CIr	709	0
cheese	Ciz	617	0
chef	SEf	830	9.7
cheque	CEk	838	0
chess	CEs	662	0
chic	Sik	637	0
chick	CIk	591	0
chide	CYd	782	3.2
chief	Cif	993	0
chill	CII	610	0
chime	CYm	651	0
chin	CIn	587	0
chip	CIp	580	0
chirp	CRp	621	0
chive	CYv	669	0
choice	COs	616	0
choke	Cok	592	0
choose	Cuz	631	0
chop	Cap	590	3.2
chore	Cor	598	0
chose	Coz	677	16.1

chub	C^b	633	0
chuck	C^k	600	0
chug	C^g	650	3.2
chum	C^m	603	0
church	CRC	663	0
churn	CRn	843	3.2
chute	Sut	940	9.7
cite	sYt	703	0
coach	koC	647	0
coal	kol	578	0
coat	kot	527	0
cob	kab	647	3.2
cock	kak	689	3.2
cod	kad	620	6.4
code	kod	572	0
coil	kOl	614	0
coin	kOn	586	0
coke	kok	609	3.2
comb	kom	557	0
come	k^m	592	3.2
con	kan	683	0
cone	kon	625	3.2
cook	kUk	544	3.2
cool	kul	602	0
coon	kun	591	0
coop	kup	675	0
coot	kut	749	0
cop	kap	662	0
cope	kop	589	0
core	kor	598	0
corps	kor	667	6.4
cot	kat	575	0
cote	kot	719	3.2
couch	kWC	673	0
cough	kcf	733	3.2
could	kUd	607	0
cove	kov	677	0
cowl	kWl	688	3.2

cub	k^b	610	0
cud	k^d	614	0
cuff	k^f	576	0
cup	k^p	529	0
curb	kRb	584	0
curd	kRd	656	0
curl	kRl	604	0
curse	kRs	666	3.2
curt	kRt	591	0
curve	kRv	633	0
cut	k^t	554	0
czar	zar	900	12.9
czech	CEk	1277	25.9
dab	d@b	586	0
dad	d@d	617	0
dale	del	551	0
dam	d@m	601	0
dame	dem	583	3.2
damn	d@m	698	0
dane	den	585	0
dare	dEr	569	3.2
dash	d@S	574	0
date	det	557	0
dawn	dcn	610	0
daze	dez	546	3.2
dead	dEd	582	3.2
deaf	dEf	609	0
deal	dil	553	0
dean	din	614	3.2
dear	dIr	556	0
dearth	dRT	687	0
death	dET	597	0
deb	dEb	610	0
debt	dEt	600	0
deck	dEk	576	0
deed	did	592	0
deem	dim	543	0
deep	dip	539	0



deer	dIr	539	0
deign	den	860	29
dell	dEl	565	0
den	dEn	543	0
deuce	dus	819	3.2
dial	dYl	670	0
dice	dYs	531	0
did	dId	566	0
dies	dYZ	589	3.2
dig	dIg	533	0
dike	dYk	545	0
dill	dIl	594	0
dim	dIm	596	0
dime	dYm	545	3.2
din	dIn	597	0
dine	dYn	542	0
dip	dIp	554	0
dire	dYr	624	0
dirt	dRt	520	0
dish	dIS	510	0
ditch	dIC	535	0
dive	dYv	552	0
dock	dak	555	0
dodge	daJ	586	0
does	d^z	629	3.2
dog	dcg	514	0
doge	doJ	648	3.2
dole	dol	602	3.2
doll	dal	548	3.2
dome	dom	588	9.7
don	dan	724	3.2
done	d^n	611	3.2
doom	dum	577	0
dope	dop	541	0
dose	dos	707	0
dot	dat	554	0
doubt	dWt	604	0
douche	duS	693	3.2

douse	dus	685	6.4
dove	dov	587	0
down	dWn	549	0
dowse	dWz	801	3.2
doze	doz	530	0
dub	d^b	584	0
duck	d^k	508	3.2
dud	d^d	541	6.4
dude	dud	554	0
dug	d^g	568	0
duke	duk	561	0
dull	d^l	571	0
dumb	d^m	558	0
dune	dun	667	9.7
dung	d^G	595	0
dutch	d^C	572	0
face	fes	567	0
fad	f@d	576	0
fade	fed	592	3.2
fag	f@g	633	0
fail	fel	555	0
fair	fEr	594	0
faith	feT	555	0
fake	fek	569	0
fall	fcl	566	3.2
fame	fem	587	0
fan	f@n	640	0
fang	f@G	666	0
far	far	628	3.2
fare	fEr	576	3.2
fat	f@t	555	0
fate	fet	614	0
fawn	fcn	596	0
fear	fIr	587	0
feat	fit	594	0
fed	fEd	619	0
feed	fid	552	0
feel	fil	611	0

feet	fit	566	0
feign	fen	870	16.1
fell	fEl	622	0
fern	fRn	613	0
fetch	fEC	657	0
fez	fEz	681	3.2
fib	fIb	608	0
fife	fYf	819	3.2
fig	fIg	545	0
fight	fYt	562	0
file	fYl	590	0
fill	fIl	575	0
fin	fIn	585	0
fine	fYn	555	0
finn	fIn	697	0
fire	fYr	555	0
firm	fRm	597	0
fish	fIS	591	0
fit	fIt	602	0
five	fYv	554	0
fizz	fIz	602	0
foal	fol	739	6.4
foam	fom	593	0
fog	fcg	601	0
folk	fok	579	0
food	fud	586	0
fool	ful	687	0
foot	fUt	601	0
for	for	544	0
fore	for	670	0
fought	fct	594	0
foul	fWl	647	9.7
four	for	603	0
fowl	fWl	652	0
fudge	f^J	576	0
full	fUl	631	0
fun	f^n	571	0
fuss	f^s	560	0

fuzz	f^z	577	0
gab	g@b	657	0
gag	g@g	615	0
gage	geJ	601	0
gain	gen	573	0
gait	get	586	6.4
gale	gel	644	3.2
gall	gcl	720	9.7
game	gem	563	0
gang	g@G	593	0
gaol	Jel	902	25.9
gap	g@p	660	0
gape	gep	684	3.2
gas	g@s	557	0
gash	g@S	627	0
gate	get	564	0
gauche	goS	1059	25.9
gaud	gcd	694	0
gauge	geJ	648	12.9
gauze	gcz	696	9.7
gave	gev	608	0
gawk	gck	596	3.2
gaze	gez	571	3.2
gear	gIr	631	0
geese	gis	756	0
gem	JEm	581	0
gene	Jin	762	0
germ	JRm	606	0
get	gEt	534	0
ghoul	gul	685	19.4
gig	gIg	612	0
gill	gIl	595	0
gin	JIn	637	6.4
girl	gRl	568	0
girth	gRT	605	0
give	gIv	567	0
gnash	n@S	724	0
gnat	n@t	762	6.4

gneiss	nYs	1077	22.6
gnome	nom	699	6.4
goal	gol	538	0
goat	got	581	0
gob	gab	715	9.7
god	gad	561	3.2
gone	gcn	518	0
gong	gcG	599	3.2
good	gUd	556	0
goof	guf	605	0
goose	gus	598	0
gore	gor	628	0
got	gat	606	0
goth	gaT	684	6.4
gouge	gWJ	839	19.4
gown	gWn	659	3.2
guess	gEs	572	0
guide	gYd	630	0
guile	gYl	713	22.6
guise	gYz	793	3.2
gull	g^l	588	0
gum	g^m	570	0
gun	g^n	572	0
gush	g^S	634	0
gut	g^t	562	0
gym	JIm	614	0
gyp	JIp	839	19.4
hack	h@k	732	0
had	h@d	664	0
hag	h@g	601	3.2
hail	hel	603	0
hair	hEr	544	3.2
hale	hel	594	0
half	h@f	600	3.2
hall	hcl	703	3.2
halve	h@v	752	0
ham	h@m	692	0
hang	h@G	583	0

hare	hEr	614	0
has	h@z	580	0
hash	h@S	895	6.4
hat	h@t	585	0
hatch	h@C	556	0
hate	het	584	0
haul	hcl	582	0
have	h@v	746	0
hawk	hck	604	0
haze	hez	527	0
head	hEd	568	0
heal	hil	598	0
heap	hip	594	0
hear	hIr	591	0
heard	hRd	587	0
hearse	hRs	656	0
heat	hit	541	0
heath	hiT	667	0
heave	hiv	583	0
hedge	hEJ	591	0
heed	hid	702	0
heel	hil	564	0
height	hYt	598	0
hell	hEl	548	0
hem	hEm	570	0
hen	hEn	607	0
herb	hRb	533	3.2
herd	hRd	571	0
here	hIr	581	3.2
hers	hRz	571	0
hick	hIk	571	0
hid	hId	626	0
hide	hYd	738	0
hike	hYk	575	0
hill	hIl	566	0
him	hIm	538	0
hip	hIp	599	0
hire	hYr	568	0

his	hIz	534	0
hiss	hIs	538	0
hit	hIt	534	0
hitch	hIC	560	0
hive	hYv	627	0
hock	hak	787	3.2
hog	hcg	587	0
hole	hol	536	0
home	hom	519	0
hood	hUd	585	0
hoof	hUf	553	3.2
hook	hUk	532	3.2
hoop	hup	538	0
hoot	hut	609	3.2
hop	hap	686	0
hope	hop	553	0
hose	hoz	618	0
hot	hat	576	0
house	hWs	547	0
howl	hWl	593	3.2
hub	h^b	569	0
huff	h^f	566	0
hug	h^g	560	0
hull	h^l	626	0
hum	h^m	623	0
hun	h^n	604	0
hung	h^G	545	3.2
hurl	hRl	571	0
hurt	hRt	527	0
hush	h^S	573	0
hut	h^t	557	0
hutch	h^C	545	0
hymn	hIm	649	9.7
jab	J@b	574	0
jack	J@k	539	0
jade	Jed	572	0
jag	J@g	616	3.2
jail	Jel	587	0

jam	J@m	553	0
jar	Jar	551	0
jazz	J@z	594	0
jeer	JIr	642	0
jell	JEl	589	0
jerk	JRk	558	0
jess	JEs	661	0
jet	JEt	525	0
jibe	JYb	857	6.4
jig	JIg	598	0
job	Jab	550	0
jog	Jag	564	0
join	JOn	557	0
joke	Jok	547	0
josh	JaS	596	0
jot	Jat	579	0
jowl	JWl	657	0
judge	J^J	649	0
jug	J^g	593	0
juice	Jus	547	0
june	Jun	549	0
jut	J^t	592	0
keel	kil	727	0
keen	kin	570	0
keep	kip	599	0
keg	kEg	682	0
ken	kEn	715	3.2
ketch	kEC	770	3.2
khan	kan	846	9.7
kick	kIk	587	0
kid	kId	577	0
kill	kIl	587	0
kin	kIn	578	0
kine	kYn	791	6.4
king	kIG	655	0
kiss	kIs	593	0
kit	kIt	610	3.2
kite	kYt	553	0



knack	n@k	663	0
knave	nev	751	9.7
knead	nid	585	0
kneel	nil	644	0
knell	nEl	725	25.9
knife	nYf	623	0
knight	nYt	603	0
knit	nIt	614	0
knob	nab	699	0
knock	nak	558	0
knoll	nol	625	0
knot	nat	722	0
known	non	559	0
lab	l@b	588	0
lace	les	571	0
lack	l@k	541	0
lad	l@d	575	0
lag	l@g	596	0
laid	led	560	0
lain	len	891	3.2
lair	lEr	718	6.4
lake	lek	547	0
lamb	l@m	545	0
lame	lem	702	0
lane	len	598	0
lap	l@p	552	0
lash	l@S	714	0
lass	l@s	913	0
latch	l@C	547	0
late	let	566	0
lathe	leD	704	9.7
laud	lcd	680	3.2
laugh	l@f	566	0
lawn	lcn	543	0
laze	lez	523	0
leach	liC	606	0
lead	lEd	545	0
leaf	lif	549	0

league	lig	599	0
leak	lik	567	0
lean	lin	534	0
leap	lip	608	0
learn	lRn	537	0
lease	lis	601	3.2
leash	liS	604	0
leave	liv	567	0
led	lEd	556	0
ledge	lEJ	580	0
leek	lik	574	0
leer	lIr	583	0
leg	lEg	654	0
less	lEs	554	0
let	lEt	537	0
lewd	lud	720	6.4
lice	lYs	613	0
lick	llk	517	0
lid	lId	556	0
lied	lit	583	0
lien	lin	882	22.6
life	lYf	537	0
light	lYt	544	0
like	lYk	606	0
limb	lIm	642	3.2
lime	lYm	615	0
line	lYn	561	0
lip	lIp	529	0
lit	lIt	583	0
lithe	lYD	680	9.7
live	lIv	605	0
load	lod	557	0
loaf	lof	555	0
loan	lon	508	0
loath	loT	571	0
loathe	loD	605	0
lob	lab	565	0
lobe	lob	611	6.4

loch	lak	694	38.7
lock	lak	555	3.2
lodge	laJ	565	0
log	lcg	531	0
loin	lOn	612	6.4
lone	lon	554	3.2
long	lcG	533	0
look	lUk	527	0
loom	lum	535	0
loon	lun	580	0
loop	lup	527	0
loose	lus	608	0
loot	lut	546	0
lore	lor	614	3.2
lose	luz	591	3.2
loss	lcs	550	0
lot	lat	552	0
loth	loT	616	6.4
loud	lWd	543	0
louse	lWs	665	12.9
love	l^v	525	0
luck	l^k	516	0
lug	l^g	554	0
lull	l^l	570	3.2
lung	l^G	572	0
lurch	lRC	573	3.2
lure	lUr	579	0
lurk	lRk	568	0
lush	l^S	572	0
lute	lut	694	3.2
lyre	lYr	702	6.4
mace	mes	618	0
mad	m@d	642	0
made	med	541	0
maid	med	569	0
mail	mel	785	3.2
maim	mem	808	3.2
main	men	620	0

maize	mez	625	0
make	mek	529	0
male	mel	514	0
mall	mcl	567	9.7
man	m@n	1043	0
mane	men	966	0
map	m@p	535	0
mar	mar	559	3.2
mare	mEr	949	6.4
mash	m@S	856	0
mass	m@s	829	0
mat	m@t	544	0
match	m@C	709	0
mate	met	713	6.4
math	m@T	619	0
maul	mcl	554	0
mauve	mov	646	3.2
maze	mez	519	0
mead	mid	613	0
meal	mil	518	0
mean	min	649	0
meat	mit	597	0
meed	mid	589	0
meek	mik	524	0
meet	mit	620	0
men	mEn	496	0
mere	mIr	573	3.2
merge	mRJ	594	0
mesh	mES	539	0
mess	mEs	537	0
met	mEt	541	0
mice	mYs	532	0
mid	mId	571	0
midge	mIJ	595	0
mien	min	697	16.1
miff	mIf	629	0
might	mYt	580	0
mike	mYk	547	0

mile	mYl	586	3.2
mill	mIl	538	0
mime	mYm	632	0
mine	mYn	559	0
mirth	mRT	626	0
miss	mIs	523	0
mite	mYt	559	0
mitt	mIt	591	3.2
moan	mon	630	0
moat	mot	584	0
mob	mab	554	0
mock	mak	521	0
mode	mod	555	0
mole	mol	537	0
mood	mud	548	0
moon	mun	518	0
moor	mor	516	3.2
moose	mus	585	0
mop	map	551	0
mope	mop	582	9.7
moss	mcs	541	0
mote	mot	611	0
moth	mcT	587	3.2
mouse	mWs	594	0
mousse	mus	701	6.4
mouth	mWT	537	0
move	muv	580	0
much	m^C	508	0
muck	m^k	531	3.2
mud	m^d	528	0
muff	m^f	509	0
mug	m^g	490	0
mull	m^l	529	0
mum	m^m	552	6.4
murk	mRk	710	0
mush	m^S	561	0
muss	m^s	648	0
mutt	m^t	575	0

myth	mIT	549	0
nab	n@b	572	0
nag	n@g	721	0
nail	nel	556	0
name	nem	585	3.2
nap	n@p	663	0
nape	nep	705	9.7
naught	nct	549	0
near	nIr	579	0
neat	nit	619	0
neck	nEk	677	0
need	nid	528	0
nerve	nRv	544	0
net	nEt	526	0
news	nuz	506	0
newt	nut	602	3.2
nice	nYs	597	0
niche	nIC	702	3.2
nick	nIk	637	0
niece	nis	716	0
night	nYt	773	0
nil	nIl	569	3.2
nine	nYn	1022	3.2
nip	nIp	615	0
nit	nIt	555	0
nod	nad	581	0
node	nod	523	6.4
noise	nOz	541	0
none	n^n	531	0
nook	nUk	543	0
noon	nun	601	0
noose	nus	655	0
nor	nor	556	0
nose	noz	579	0
not	nat	511	0
notch	naC	634	0
note	not	507	0
noun	nWn	694	0

nub	n^b	736	0
nude	nud	529	0
nudge	n^J	553	3.2
null	n^l	582	0
numb	n^m	594	0
nun	n^n	533	0
nurse	nRs	514	0
nut	n^t	501	0
one	w^n	581	0
pace	pes	577	0
pack	p@k	564	0
pad	p@d	579	0
page	peJ	563	0
paid	ped	576	0
pail	pel	689	0
pain	pen	612	0
pair	pEr	577	0
pal	p@l	702	6.4
pale	pel	693	3.2
pall	pcl	836	3.2
palm	pam	578	0
pan	p@n	596	0
pane	pen	706	0
pang	p@G	592	0
pap	p@p	651	0
par	par	653	6.4
pare	pEr	682	0
pass	p@s	507	0
pat	p@t	514	0
patch	p@C	718	0
path	p@T	555	0
pause	pcz	581	0
pave	pev	751	0
pawn	pcn	620	0
peace	pis	549	0
peach	piC	561	0
peak	pik	554	0
peal	pil	664	6.4

pear	pEr	662	3.2
pearl	pRl	581	3.2
pease	piz	786	0
peat	pit	596	0
peck	pEk	576	3.2
peek	pik	575	0
peel	pil	612	6.4
peep	pip	573	3.2
peer	pIr	570	0
peeve	piv	649	0
peg	pEg	584	0
pen	pEn	1087	0
pep	pEp	642	0
perch	pRC	591	0
perk	pRk	602	0
pert	pRt	625	0
pet	pEt	618	0
phase	fez	650	0
phial	fYl	910	25.9
phone	fon	588	0
pick	pIk	560	0
piece	pis	707	0
pier	pIr	616	6.4
pig	pIg	540	0
pike	pYk	552	0
pile	pYl	605	0
pill	pIl	550	0
pin	pIn	530	0
pine	pYn	550	0
ping	pIG	579	0
pip	pIp	734	3.2
pipe	pYp	541	3.2
pit	pIt	546	0
pitch	pIC	591	0
pith	pIT	638	3.2
poach	poC	678	6.4
pock	pak	626	0
pod	pad	562	0



poise	pOz	581	0
poke	pok	564	0
pole	pol	612	0
poll	pol	655	0
poop	pup	614	3.2
poor	por	586	0
pop	pap	574	0
pope	pop	601	0
pose	poz	680	6.4
posh	paS	686	6.4
pot	pat	550	0
pouch	pWC	741	0
pour	por	569	0
pout	pWt	718	3.2
psalm	sam	821	22.6
pub	p^b	625	0
puck	p^k	570	3.2
puff	p^f	541	0
pug	p^g	617	0
pull	pUl	564	0
pun	p^n	577	0
pup	p^p	583	0
purge	pRJ	598	3.2
purl	pRl	579	0
pus	p^s	645	0
push	pUS	554	0
put	pUt	592	0
putt	p^t	605	3.2
pyre	pYr	737	16.1
race	res	544	0
rack	r@k	592	0
rag	r@g	529	0
rage	reJ	559	0
raid	red	598	0
rail	rel	563	0
rain	ren	669	0
raise	rez	655	0
rake	rek	668	0

ram	r@m	640	3.2
ran	r@n	840	0
rang	r@G	645	0
rap	r@p	580	0
rape	rep	534	0
rare	rEr	660	0
rash	r@S	591	0
rat	r@t	623	0
rate	ret	559	3.2
rave	rev	582	0
razz	r@z	557	0
reach	riC	642	0
read	rid	581	0
ream	rim	685	6.4
reap	rip	628	0
rear	rIr	587	0
red	rEd	544	0
reed	rid	586	0
reef	rif	580	0
reek	rik	685	0
reel	ril	651	0
reign	ren	661	6.4
rein	ren	645	0
retch	rEC	761	3.2
rev	rEv	597	6.4
rhyme	rYm	772	0
rib	rIb	609	0
rice	rYs	556	0
rich	rIC	550	3.2
rick	rIk	555	0
rid	rId	566	0
ride	rYd	578	0
ridge	rIJ	595	0
rig	rIg	536	0
right	rYt	529	0
rile	rYl	602	0
rim	rIm	629	0
ring	rIG	518	0

rip	rIp	532	0
ripe	rYp	574	0
rise	rYz	532	0
rite	rYt	598	0
roach	roC	583	0
road	rod	579	0
roam	rom	619	0
roar	ror	574	0
rob	rab	549	0
robe	rob	581	0
rock	rak	540	0
rod	rad	544	0
rode	rod	574	0
rogue	rog	637	16.1
role	rol	578	0
roll	rol	571	0
roof	ruf	532	0
rook	rUk	699	3.2
room	rum	569	3.2
root	rut	553	0
rope	rop	618	0
rose	roz	558	0
rot	rat	658	3.2
rote	rot	639	12.9
rouge	ruZ	702	9.7
rough	r^f	564	0
rout	rWt	631	0
route	rut	596	9.7
rove	rov	603	0
rub	r^b	572	0
rude	rud	548	0
ruff	r^f	671	0
rug	r^g	608	0
rule	rul	582	0
rum	r^m	577	0
run	r^n	542	3.2
rung	r^G	572	3.2
rush	r^S	554	0

rut	r^t	616	3.2
sac	s@k	630	0
sack	s@k	596	0
sad	s@d	551	0
safe	sef	566	0
sag	s@g	643	0
sage	seJ	658	3.2
said	sEd	579	0
sail	sel	573	0
sake	sek	662	0
sale	sel	577	0
salve	s@v	726	19.4
same	sem	608	0
sane	sen	693	0
sang	s@G	703	0
sap	s@p	678	0
sash	s@S	697	0
sat	s@t	697	0
sauce	scs	633	0
save	sev	695	3.2
scene	sin	720	6.4
scythe	sYD	1202	38.7
seal	sil	575	0
seam	sim	668	0
sear	sIr	657	0
search	sRC	643	3.2
seat	sit	618	0
seed	sid	747	0
seek	sik	714	0
seem	sim	599	0
seen	sin	654	0
seep	sip	727	3.2
seer	sIr	702	3.2
seize	siz	655	3.2
sell	sEl	611	0
serf	sRf	688	0
serge	sRJ	653	0
serve	sRv	679	0

set	sEt	629	0
sewn	son	860	0
shack	S@k	616	0
shade	Sed	627	0
shag	S@g	715	0
shake	Sek	602	0
shale	Sel	667	12.9
shall	S@l	615	0
sham	S@m	768	6.4
shame	Sem	635	3.2
shape	Sep	596	0
share	SEr	602	0
shave	Sev	615	0
shawl	Scl	622	0
shear	SIr	790	3.2
sheath	SiT	713	3.2
sheathe	SiD	851	3.2
shed	SEd	600	0
sheep	Sip	779	0
sheer	SIr	639	0
sheet	Sit	601	0
shell	SEl	599	0
shin	SIn	661	3.2
shine	SYn	634	0
ship	SIp	609	0
shire	SYr	682	6.4
shirk	SRk	760	9.7
shirt	SRt	577	0
shoal	Sol	692	6.4
shock	Sak	618	0
shod	Sad	644	12.9
shone	Son	704	3.2
shook	SUk	674	3.2
shoot	Sut	697	0
shop	Sap	626	0
shore	Sor	617	0
shot	Sat	608	6.4
should	SUd	589	0

shout	SWt	630	3.2
shove	S^v	649	0
shown	Son	810	0
shuck	S^k	702	3.2
shun	S^n	611	3.2
shut	S^t	615	0
sick	sIk	597	0
side	sYd	667	0
siege	siJ	657	0
sieve	sIv	736	3.2
sight	sYt	678	0
sign	sYn	642	0
sill	sIl	595	0
sin	sIn	612	0
sing	sIG	663	0
sip	sIp	574	0
sire	sYr	576	3.2
sit	sIt	568	0
site	sYt	623	0
size	sYz	594	0
soak	sok	634	0
soap	sop	564	0
soar	sor	605	0
sob	sab	600	0
sock	sak	582	3.2
sod	sad	691	0
soil	sOl	607	3.2
sol	sol	809	0
sole	sol	624	0
some	s^m	601	0
son	s^n	636	0
song	scG	595	0
soon	sun	589	0
soot	sUt	629	29
sooth	suT	610	0
soothe	suD	641	0
sop	sap	715	3.2
sore	sor	574	0

sot	sat	711	3.2
sought	sct	627	0
soul	sol	597	0
soup	sup	615	0
sour	sWr	605	0
south	sWT	709	3.2
sown	son	678	29
sub	s^b	574	0
such	s^C	566	0
suck	s^k	1140	0
suit	sut	598	6.4
sum	s^m	591	0
sun	s^n	551	0
sung	s^G	699	0
sup	s^p	696	6.4
sure	SUr	642	3.2
surf	sRf	754	0
surge	sRJ	639	0
tab	t@b	648	0
tack	t@k	614	0
tag	t@g	670	0
tail	tel	653	0
take	tek	574	0
talk	tck	524	0
tall	tcl	585	0
tan	t@n	657	0
tang	t@G	618	0
tap	t@p	631	0
tape	tep	555	0
tar	tar	593	0
tare	tEr	706	9.7
tat	t@t	711	0
taught	tct	703	0
taupe	top	825	12.9
taut	tct	616	0
teach	tiC	652	0
teak	tik	768	3.2
teal	til	619	0

team	tim	843	0
tease	tiz	601	0
teem	tim	620	0
teeth	tiT	595	0
teethe	tiD	667	3.2
tell	tEl	570	0
ten	tEn	581	0
term	tRm	585	0
tern	tRn	850	0
than	D@n	600	0
thane	Ten	984	0
that	D@t	577	0
thatch	T@C	638	0
their	DEr	578	0
them	DEm	581	0
theme	Tim	592	3.2
then	DEn	564	3.2
these	Diz	614	0
thick	TIk	563	0
thief	Tif	590	0
thieve	Tiv	783	3.2
thin	TIn	603	0
thine	DYn	953	0
thing	TIG	578	3.2
third	TRd	570	0
this	DIs	545	0
thong	TcG	615	6.4
those	Doz	548	0
thought	Tct	623	0
thud	T^d	591	0
thug	T^g	576	0
thumb	T^m	577	0
thus	D^s	563	0
thyme	tYm	663	3.2
tic	tIk	547	0
tick	tIk	571	0
tide	tYd	550	0
tier	tIr	801	12.9



tiff	tIf	646	0
tight	tYt	581	3.2
tile	tYl	590	0
till	tIl	587	0
time	tYm	622	0
tin	tIn	587	0
tip	tIp	557	0
tire	tYr	721	0
tit	tIt	708	0
toad	tod	574	0
toil	tOl	599	6.4
toll	tol	629	3.2
tomb	tum	629	6.4
ton	t^n	633	0
tone	ton	584	3.2
tong	tcG	567	0
tongue	t^G	616	0
took	tUk	593	0
tool	tul	612	0
toot	tut	644	0
tooth	tuT	632	0
top	tap	563	0
toque	tok	917	19.4
tor	tor	713	0
toss	tcs	545	0
tot	tat	715	0
tote	tot	586	0
touch	t^C	564	0
tough	t^f	581	3.2
tour	tUr	680	3.2
tout	tWt	875	6.4
town	tWn	702	0
tsar	zar	946	16.1
tub	t^b	540	0
tube	tub	600	9.7
tuck	t^k	607	0
tug	t^g	602	0
tune	tun	577	0

turf	tRf	570	0
turk	tRk	533	0
turn	tRn	557	0
tyke	tYk	621	0
type	tYp	549	0
use	yuz	547	0
vague	veg	714	6.4
vail	vel	607	0
vain	ven	566	3.2
vale	vel	618	0
van	v@n	570	0
vane	ven	561	0
vase	ves	700	0
vat	v@t	622	3.2
veal	vil	636	0
veer	vIr	658	0
veil	vel	661	9.7
verb	vRb	545	0
verge	vRJ	574	0
verse	vRs	566	0
vet	vEt	574	0
vice	vYs	673	0
vile	vYl	593	3.2
vine	vYn	564	0
vise	vYs	589	6.4
vogue	vog	593	3.2
voice	vOs	550	0
void	vOd	590	0
vote	vot	555	0
vouch	vWC	634	0
wad	wad	585	6.4
wade	wed	532	0
wag	w@g	625	0
wage	weJ	590	3.2
waif	wef	658	6.4
wail	wel	533	3.2
wain	wen	591	0
wait	wet	528	0

waive	wev	642	0
wake	wek	495	0
walk	wck	511	0
wall	wcl	541	0
wane	wen	718	3.2
war	wor	553	0
ware	wEr	571	0
was	wxz	460	0
wash	wcS	498	0
watch	wcC	552	0
watt	wat	580	6.4
wave	wev	616	0
weak	wik	529	0
wean	win	652	3.2
wear	wEr	583	0
weave	wiv	562	0
web	wEb	553	0
wed	wEd	544	3.2
wedge	wEJ	555	0
weed	wid	540	0
week	wik	502	0
ween	win	657	0
weep	wip	534	0
weight	wet	554	0
well	wEl	521	0
wet	wEt	521	0
whole	hol	583	0
whom	hum	575	0
whore	hor	758	0
whose	huz	664	6.4
wick	wIk	524	0
wide	wYd	534	0
wife	wYf	541	0
wig	wIg	528	0
will	wIl	565	0
win	wIn	543	0
wine	wYn	502	0
wing	wIG	612	0

wipe	wYp	492	0
wire	wYr	545	0
wise	wYz	504	0
wish	wIS	546	0
wit	wIt	715	0
witch	wIC	532	0
with	wIT	567	3.2
withe	wIT	763	0
wive	wYv	649	0
woke	wok	557	0
womb	wum	584	0
won	w^n	570	0
wood	wUd	561	0
woof	wUf	574	0
wool	wUl	540	0
word	wRd	527	0
work	wRk	563	0
worm	wRm	567	0
worse	wRs	613	0
wort	wRt	622	3.2
worth	wRT	535	0
would	wUd	571	0
wove	wov	650	0
wrack	r@k	576	0
wraith	reT	709	6.4
wrap	r@p	592	0
wrath	r@T	721	0
wreath	riT	662	0
wreathe	riD	678	0
wreck	rEk	582	0
wren	rEn	768	6.4
wretch	rEC	652	0
wring	rIG	614	3.2
writ	rIt	669	9.7
write	rYt	555	0
writhe	rYD	683	6.4
wrong	rcG	558	0
wrote	rot	559	0

wrought	rct	655	0
wrung	r^G	650	0
yacht	yat	551	9.7
yak	y@k	619	0
yam	y@m	652	0
yap	y@p	572	0
yawn	ycn	543	3.2
year	yIr	551	0
yearn	yRn	565	0
yell	yEl	548	0
yen	yEn	572	0
yes	yEs	501	0
yet	yEt	515	0
yoke	yok	536	0
yolk	yok	565	3.2
yore	yor	573	0
young	y^G	536	0
youth	yuT	518	0
yule	yul	595	3.2
zeal	zil	590	6.4
zing	zIG	609	3.2
zip	zIp	578	0
zone	zon	562	0
zoom	zum	584	0