The Data Fetishist's Guide to Assonance Coherence

John M. Lawler — University of Michigan LSA San Franciso Jan 10, 2009

Bibliography of studies on Assonance-Rime Phonosemantics (in chronological order)

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A **Simplex Word** is one that is **either**

1. a **mono**syllable (e.g, *stump*) **or**
2. a trochaic **dis**yllable ending with one of the following **un**stressed suffixes:

a. /-əl/ as in ***opal***	(468 occurences)		
b. /-ər/ as in ***doctor***	(407 "")	j. /-əʃ/ as in ***punish***	(28 "")
c. /-i/ as in ***lily***	(271 "")	k. /-əd/ as in ***method***	(27 "")
d. /-ən/ as in ***beacon***	(173 "")	l. /-ə/ as in ***tuna***	(24 "")
e. /-əf/ as in ***lancet***	(133 "")	m. /-əŋ/ as in ***cunning***	(10 "")
f. /-əs/ as in ***jealous***	(89 "")	n. /-əb/ as in ***cherub***	(3 "")
g. /-ə/ as in ***window***	(83 "")	o. /-ənt/ as in ***science***	(2 "")
h. /-ək/ as in ***chronic***	(56 "")	p. /-li/ as in ***ugly***	(2 "")
i. /-əm/ as in ***system***	(46 "")	q. /-əz/ as in ***Mrs.***	(1 occurence)

(NB: No distinction is made in the data between unstressed suffixes containing [i] (an allophone of /ə/) and those containing /ɪ/. Since there is no contrast between them, both are coded as /ə/.

All data (and statistics) from the Lawler-Rhodes Simplex Word Database http://www.umich.edu/~jlawler/monosyl.zip

Proper nouns are excluded	(e.g. **London* /lənən/),
as are productive derivational	(e.g. **push-er*, /pʊʃər/),
and inflectional suffixes.	(e.g. **push-ing* /pʊʃɪŋ/)

Assonance: Initial consonant cluster of simplex word (ST- in *stump*)

Rime: Stressed initial nucleus and coda of simplex word (-UMP in *stump*)

Assonance Class: Set of all words in database with a particular assonance

Rime Class: Set of all words in database with a particular rime

Coherence: Percentage of words in a rime or assonance class that form a semantically coherent subset

Orthogonal: Two or more coherent subsets in a class are orthogonal if there is no intrinsic semantic connection between them; this usually results in little or no overlap between subsets. (Ex: -ump subsets) Such classes are best represented as Venn diagrams.

Non-Orthogonal: Two or more coherent subsets in a class are non-orthogonal if there is some intrinsic semantic connection between them; this usually results in large multiple overlaps between subsets. (Ex: kr- subsets) Such classes are best represented as feature matrices.

36 Assonance classes in study

(2023 words in study out of 5413 in database = 37%)

	By coherence			By coherence and cluster size			By class size		
1 ð-	16/16	100%		CCC- **spr-**	21/21	100%	**st-**	60/108	56%
spr-	21/21	100%		**skr-**	33/35	94%	**dʒ-**	33/96	34%
tw-	25/25	100%		**spl-**	13/14	93%	**ʃ-**	63/94	67%
skr-	33/35	94%		**str-**	34/38	89%	**br-**	85/93	91%
spl-	13/14	93%		**skw-**	15/30	50%	**sk-**	49/88	56%
sm-	23/25	92%		CC- **tw-**	25/25	100%	**kr-**	71/88	81%
br-	85/93	91%		**sm-**	23/25	92%	**kl-**	62/84	74%
str-	34/38	89%		**br-**	85/93	91%	**tr-**	22/83	27%
sn-	38/44	86%		**sn-**	38/44	86%	**fl-**	63/82	77%
sl-	63/74	85%		**sl-**	62/74	84%	**v-**	13/82	16%
kr-	73/88	83%		**kr-**	71/88	81%	**gr-**	43/78	55%
bl-	57/71	80%		**bl-**	57/71	80%	**pr-**	58/78	74%
fl-	63/82	77%		**fl-**	63/82	77%	**tʃ-**	32/77	42%
sw-	36/47	75%		**sw-**	36/47	75%	**sp-**	28/75	37%
kl-	62/84	74%		**gl-**	31/42	74%	**sl-**	62/74	84%
gl-	31/42	74%		**pr-**	58/78	74%	**bl-**	57/71	80%
pr-	58/78	74%		**kl-**	62/84	74%	**fr-**	23/61	38%
18 ʃr-	10/14	71%		**ʃr -**	10/14	71%	**y-**	23/50	46%
	/ 891 = 44% of Sample above Median								
	Median Coherence = 70%								
19 ʃ-	63/94	67%		CC- **pl-**	31/47	66%	**dr-**	21/50	42%
pl-	31/47	66%		**θr-**	13/21	62%	**sw-**	36/47	75%
θr-	13/21	62%		**st-**	60/108	56%	**pl-**	31/47	66%
st-	60/108	56%		**sk-**	49/88	56%	**sn-**	38/44	86%
sk-	49/88	56%		**gr-**	43/78	55%	**gl-**	31/42	74%
gr-	43/78	55%		**kw-**	19/39	49%	**kw-**	19/39	49%
skw-	15/30	50%		**dr-**	21/50	42%	**str-**	34/38	89%
z-	11/22	50%		**fr-**	23/61	38%	**skr-**	33/35	94%
kw-	19/39	49%		**sp-**	28/75	37%	**θ-**	14/32	44%
y-	23/50	46%		**tr-**	22/83	27%	**skw-**	15/30	50%
θ-	14/32	44%		C- **θ-**	16/16	100%	**sm-**	23/25	92%
dr-	21/50	42%		**ʃ-**	63/94	67%	**tw-**	24/25	96%
tʃ-	32/77	42%		**z-**	11/22	50%	**z-**	11/22	50%
fr-	23/61	38%		**y-**	23/50	46%	**θr-**	13/21	62%
sp-	28/75	37%		**θ-**	14/32	44%	**spr-**	21/21	100%
dʒ-	33/96	34%		**tʃ-**	32/77	42%	**ð-**	16/16	100%
tr-	22/83	27%		**dʒ-**	33/96	34%	**spl-**	13/14	93%
36 v-	13/82	16%		**v-**	13/82	16%	**ʃr-**	10/14	71%
	/1133 = 56% of Sample below Median								

1253 coherent of 2023 words in study Mean coherence = 62%

31 Assonance classes not in study

(3390 words out of 5413 in database = 63%)

Too Big							
b-	275	**t-**	230	**ky-**	10	**spy-**	2
O-	273	**r-**	225	**fy-**	9	**fw-**	1
p-	254	**l-**	222	**hy-**	7	**sky-**	1
k-	253	**d-**	208	**py-**	7	**θy-**	1
m-	252	**f-**	202	**by-**	4	**sf-**	2
s-	241	**w-**	151	**my-**	4	**vy-**	1
h-	231	**g-**	140	**dw-**	3	**ʒ-**	1
		n-	140	**θw-**	2		

hw- 37 (allophonic with **w-**)

GL- 31/42 = 74%

1. Reflected Light/***Eye***..... 18 (cf **BL-**)
2. Sticky/Together ..... 16 (cf **KL-**)
3. Auditory..... 2
4. *glamor, glee, glory* 3

glance glisten gloaming gloss glass glitter glow gloat glower glow glimmer gloom glare glimpse glum gleam glint glad glaze **1.**

glob glut glom glue glop gluten glen glebe glade glutton **2.**

3. *glub glug* *glamor glee glory* **4.**

gland glib glove glyph glide glean glaive globe glitch

Residue 9

GR- 43/78 = 55%

1. Vocal Aggression .....14 (cf **BR-**)
2. Farm/Food .....12 (")
3. Grasp.....6
4. 2-Dim Friction..... 7
5. *grub, grubby, grungy, grime* 4

gruff grovel grumble groan grump grouse grunt grimace grouch grudge growl gram gripe gruesome **1.**

groat grove grain grow grange growth grass grill grape griddle graft gruel **2.**

grab grapple grope grasp grip grok **3.**

grind graze grit grate grist grizzle grout **4.**

grub grubby grungy grim **5.**

grad grave grey greek gram grift grail greet graph grid gray green grackle gryphon grade grin groin grace greave grease grog group gramp gristle great grieve grand grebe grant greed groove grotto grief grown grammar

Residue 35

From *Ripley's Believe It Or Not,* ca 1917

SN- 38/44 = 86%

1. 2-Dimensional ± 3-Dimensional

Two body-part foci, no overlap:

A: Nose (**19**, 2D + 3D, convex: *sneeze, snort, snuff*)

B: Grasping hand (**13**, 2D – 3D, concave: *snatch, snip, snag*)

snooze sniff sneeze snort snore snuff snicker snorkel sniffle **A.**

snub snob snoop snarl snoot snivel snigger sneer snot snout

snatch snippet snag snug snuggle snip snick snare snap snood snack snitch snaggle **B.** **1.**

snide snit sneak snipe snooker snarky **2.**

2. Pejoration (18) of behavior (*snivel, sneak, sneer*) or appearance (*snout, snaggle, snot*)

3. Residue (6)

snazzy snocker snark snake snail snow

Residue (22)

84 Simplex Words with Assonance KL-
Coherence 62/84 = 74%

RL81 = Rhodes & Lawler 1981. "Athematic Metaphors" (CLS 17)

ST- 60/108 = 56% Embodied Image: **Standing Man**

1-Dimensional Rigid.....47 Leg/Walk.....31
(Large intersection ..... 18)

stubble	*stag*	*store*	*stick*
stow	*style*	*stash*	*sting*
stave	*stoat*	*stub*	*stiff*
stub	*stitch*	*stem*	*starch*
steno	*stogie*	*staple*	*stickle*
stud	*stir*	*stump*	*stake*
stencil	*stipple*	*stare*	*steeple*
			stack

1-Dim Rigid (47)

stock	*stance*		
stomp	*stagger*	*stall*	*steady*
staff	*stumble*	*staid*	*start*
stand	*stair*	*stoic*	*static*
stead	*step*	*still*	*stealth*
steep	*stool*	*stint*	*steed*
stork	*stalk*	*stable*	*stop*
stump	*stilt*	*stay*	
stoop	*stile*		

Both (18) Leg/Walk (31)

stuff	*sterno*	*stymie*	*stale*	
stucco	*stingy*	*stark*	*stoke*	
stooge	*steal*	*sternum*	*stole*	
stomach	*steam*	*stet*	*stain*	
stern	*steel*	*star*	*stolid*	
stunt	*steer*	*stew*	*stone*	
snuff	*stanch*	*stiffle*	*stage*	
sturdy	*stench*	*steak*	*storm*	
sterling	*state*	*stink*	*stout*	
stun	*steppe*	*stammer*	*stove*	
sturgeon	*starve*	*stocky*	*stutter*	
stein	*startle*	*stodgy*	*sty*	

Residue (48)

SPL- 13/14 = 93%

Transition of 1-Dimensional Origin to 2-Dim Result 11

a. **Origin Focus**
Origin: 1-D Rigid object(s)..... 6
Result: 2-D Rigid (composed of connected 1-D objects)
splay split spline splice splint splinter

b. **Result Focus** (impact of fluid stream)
Origin: 1-D Fluid (perceived as stream).....5
Result: 2-D Fluid (random impact residue, usually on 2-D)
splotch splash splat splatter splutter

c. **Metaphoric** fluid transition: *spleen splurge*.....2

Residue: *splendor*.....1

Y- 24/50 = 48%

1. **Vocal** (19)
   A. **Interjection** (10)
2. **Grammatical/Function** (5)

yack yammer yap yowl yell yelp yowl yawn yip **A.** *yuck yum yup yeah yow yike yipe yes yay yippee* **1.**

yonder yet ye yore you **2.**

yen young use urine yak yank yarn yacht year yield yeast yaw yule yaws yolk yoke yokel yew euchre yellow eunuch unit youth yard yawl yearn

Residue (26)

SKR- 33/35 = 94%

1. 2-Dimensional Contact	24
2. Compress/Disarray	20
3. Diminutive	14
4. Writing	11
5. Aural	10
6. Contact/Friction	17

scratch	123456	*scrotum*	12	*scruple*	3		
scrap	1234 6	*scram*	12	*scrootch*	2 5		
scrawl	1234 6	*scree*	12 6	*scrapple*	2		
scrub	123 6	*screw*	12 6	*screech*	56		
scrabble	12 456	*scramble*	12 6	*scruff*	1 6		
scrunch	123 5	*scraggle*	123	*scrim*	1		
scrum	12 56	*scrimp*	23	*script*	1 4 6		
scrape	12 56	*scrounge*	23 6	*scrip*	1 4		
screed	1 345	*scruffy*	23	*scroll*	1 4		
scritch	1 3 56	*scrawny*	23	*screen*	1		
scribble	1 34 6	*scream*	5	*scribe*	1 4 6		

Residue 2 *scrod scrumptious*

SPR- 21/21 = 100%

1. Extrusion 21
Four groups, with polysemous overlap (e.g, *spring*):

A: **Plant** (**5**: *sprat sprout spread sprig spruce*)
B: **Liquid** (**6**: *spring sprue spray sprinkle spritz spree*)
C: **Solid** (**8**: *sprit sprite sprain sprawl sprint spry sprightly sprocket*)
D: **Aural** (**2**: *sprong sproing*)

SKW- 15/30 = 50%

1. **Compress** (12)
2. **Vocal** (3)

squirm squish squander squidgy squirt squeeze squat squeegee squash squiggle squelch squint **1.**

squeak squeal squawk **2.**

squab squire squalor squill squabble square squeamish squad squib squirrel squaw squalid squiff squall squid

Residue (15)

-ɪp 32/41 = 78% Rank 6 [large overlap]

-ʌmp 22/26 = 85% Rank 4 [overlap 1]

-ʌŋk 18/22 = 82% Rank 5 [overlap 4]

SK- 49/87 = 56%

2-Dimensional .....49 (cf **FL-**)

scutcheon skip scud scatter score scurf sconce scorch scuffle scar schooner scull scarf scoop skull scow skulk scour scald scum skein scupper sketch skirmish skid scurry skiff scarab skillet scourge scarum sky skirl scathe skin scale scurf scab skirt scape scalp scuttle skate scamper scat scan skim scoot skelter

skungy scholar scheme skunk scowl skeet scurvy scout skeeter scut skeptic scoff scuzzy scare skald ska scarce scorn ski scotch skill skoal scud skimp scold scone skag skink scanty scamp skipper scope scandal skit scuba scant skittish school

Residue 38

-ɪp-ɪŋ Diminutive *slink trinket tinker dinky* (Aural: *chink dink plink*)
-ɪp Diminutive *kipper sip yip quip* (Convex: *pip blip clip trip*)
-æŋ 1-Dimensional Connected *hang angle dangle tangle*
-ʌl 2-Dimensional *shawl sprawl scrawl wall* (Motion: *crawl brawl squall haul fall*)
-æp 2-Dimensional *flap clap lap map wrap slap strap cap chap*
-æk 2-Dimensional Connected *plaque stack bracket tacky ash*
-ap Off 2-Dimensional *hop top hop pop flop* (Separate: *drop topple lop crop*)
-ʌmp 3-Dimensional *rump hump lump stump bump tump dump plump*
-æg Crooked/Broken *snag zag crag sag rag*
-æʃ Violent Contact *bash trash crash thrash slash gash*
-ɪŋ Directed Force *sling sting spring ring ping swing bring*

Figure 4. Some English phonosemantic rime classes

STR- 34/38 = 89% Embodied Image: ***Walking Man***

1. 1-Dimensional Non-Rigid.....15
2. Leg/Walk.....7 **3.** ***Strike*** .....8 **4.** ***Strong*** ...4

1. *strand strophe strum string streak strap strip strop straw strew street stripe strait straight stream*

2. *strut stroll stretch stride straddle struggle stray*

3. *strike stroke struggle strive strife strangle strident strict*

4. *stress strength strong strain*

strep strafe strange strobe

5. Residue 4

TR- 22/83 = 27% ***Travel***

1. Walk .....13 **2.** Vehicle .....5 **3.** Hunting 6

1. *trudge troop trip trundle trail trot tread tramp traipse trace trek trample travel*

2. *trike tram truck trolley train*

3. *truss trawl troll track trout trap*

trunk trousseau trove treasure truckle trump trouble trumpet truncheon trust trash trim traction tract transom tropic trounce cluster try tribe trifle trial trine tripe trice trite treble treadle trellis tremor tremble trench trend tress trestle trey tray trade trait trig trick trickle trill trinket triple tryst tree trio treacle treat treatise treason trough trophy trochee trope true truce truth

4. Residue 61

DR- 23/50 = 46%

1. Liquid 23

drink drip drool dross drop drizzle drench dribble dram dry drake drudge drunk dropsy drain dreck drown dredge drift draught drought dreg drizzle

drub dress drug drape drab drastic droop drill draught dreary drivel drag drama drawer drum dragon dream drat drawl drowsy drogue drive dread drone dray drove draw droll

2. Residue 27

TW- 25/25 = 100%

1. 1-Dimensional Diminutive 17
Moving Finger(s) embodied image:
A: 1-D Diminutive (**2**: *tweezer twig*)
i: Sudden Motion (**5**: *twiddle tweak twitch twinge twinkle*)
ii: Repeated Motion (***Weaving*** **5**: *twist twirl twine tweed twill*)
B: Two (**5**: *twin twice twixt twain twelve*)

2. Pejoration 8
A: Human (**4**: *twerp twit twink twat*)
B: Vocal (**4**: *twaddle twang tweet twitter*)

From: "Women, Men, and Bristly Things: The BR- Assonance in English" John Lawler

BR- 93 words 85 coherent Coherence Level 91%

Category **1** Human (Gender Role):

Male: **32** (essentially, aggressive display and territorial defense)
bris brute brawl brag brave bruise bray brawn brandish britches

Female: **19** (essentially, breeding and feeding)
breast bride bra brat bread braid broad broil broth braise broad

2 1-Dimensional (Connected) Embodied Image: **Plant**

1a: **5** 1-D Aggregate Connected by 0-D X
bristle brush bracken bramble briar

1b: **6** 1-D Aggregate Connected by 1-D X
bristle brush brand bridle braid broom branch bract

1c: **2** 1-D Aggregate Connected by 2-D X
bristle brush browse brake

2a: **12** Contiguous X Aggregate Connected by 1-D
broad brim brow brink breadth breach broach break brittle

2b: **8** Non-Contiguous X Aggregate Connected by 1-D
bridge brace breech bracket brad

3 Leakage from **BL-**

BL$_1$: Fluid **14**
brandy brackish brant brit bream breeze brook breath breathe

BL$_2$: Color **6**
brown bright brindle bronze bruise

Word	Ass	Rime	Suf	1	2	3
bristle	bɪ	ɪs	əl	M	1	
brush	bɪ	ʌʃ		M	1	
bracken	bɪ	æk	ən		1a	
bramble	bɪ	æmb	əl		1a	
briar	bɪ	ay	ɚ		1a	
brand	bɪ	ænd			1a	
bridle	bɪ	ayd	əl	M	1b	
braid	bɪ	ed		F	1b	
broom	bɪ	um		F	1b	
branch	bɪ	æntʃ			1b	
bract	bɪ	ækt			1b	
browse	bɪ	awz			1c	
brake	bɪ	ek			1c	
broad	bɪ	ɔd		F	2a	
brim	bɪ	ɪm			2a	
brow	bɪ	aw			2a	
brink	bɪ	ŋk			2a	
breadth	bɪ	rɛθ			2a	
breach	bɪ	itʃ			2a	
broach	bɪ	otʃ			2a	
break	bɪ	ek			2a	
brittle	bɪ	ɪt	əl		2a	
brace	bɪ	es			2b	
breech	bɪ	itʃ			2b	
bracket	bɪ	æk	ɪt		2b	
bridge	bɪ	ɪdʒ			2b	
brad	bɪ	æd			2b	
brandish	bɪ	ænd	ɪʃ	M		
britch	bɪ	ɪtʃ		M	2b	
bris	bɪ	ɪs		M	2b	
brusque	bɪ	ask		M		
brash	bɪ	æʃ		M		
brabble	bɪ	æb	əl	M		
brag	bɪ	æg		M		
bribe	bɪ	ayb		M		
bren	bɪ	ɛn		M		
brevet	bɪ	ɛv	ɪt	M		
bray	bɪ	e		M		
brave	bɪ	ev		M		
brisk	bɪ	ɪsk		M		
brawl	bɪ	ɔl		M		
brawn	bɪ	ɔn		M		
bruin	bɪ	u	ən	M		
bruit	bɪ	ut		M		
brute	bɪ	ut		M		
brutal	bɪ	ut	əl	M		
bruise	bɪ	uz		M		2

Word	Ass	Rime	Suf	1	2	3
brass	bɪ	æs		M		
brothel	bɪ	aθ	əl	M		
brig	bɪ	ɪg		M		
braze	bɪ	ez		M	2a	
brick	bɪ	ɪk		M		2
brunt	bɪ	ʌnt		M	2a	
brother	bɪ	ð	ɚ	M		
bre'r	bɪ	ɛɹ		M		
bro'	bɪ	o		M		
bran	bɪ	æn		F		
breast	bɪ	est		F		1
brunch	bɪ	ʌntʃ		F		
brine	bɪ	ayn		F		1
bread	bɪ	ed		F		
braise	bɪ	ez		F		
brisket	bɪ	ɪsk	ɪt	F		
broth	bɪ	ɔθ		F		1
broil	bɪ	oyl		F		
brew	bɪ	u		F		1
bra	bɪ	a		F	2b	
brooch	bɪ	otʃ		F	2a	
bride	bɪ	ayd		F		
breed	bɪ	id		F		
brat	bɪ	æt		F		
brood	bɪ	ud		F		
brandy	bɪ	ændi				1
brackish	bɪ	æk	ɪʃ			1
brant	bɪ	ænt				1
brit	bɪ	ɪt				1
bream	bɪ	im				1
breeze	bɪ	iz				1
brook	bɪ	ʊk				1
breath	bɪ	rɛθ				1
breathe	bɪ	ið				1
brown	bɪ	awn				2
bright	bɪ	ayt				2
brindle	bɪ	ɪnd	əl			2
bronze	bɪ	anz				2
bronco	bɪ	aŋk	o			
breve	bɪ	ev				
braille	bɪ	el				
bring	bɪ	ɪŋ				
brief	bɪ	if				
brain	bɪ	en				
broker	bɪ	ok	ɚ			
brogue	bɪ	og				

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BL- 70 words 57 coherent Coherence Level 80%

Category **1 Fluid (Contained)** 20 *blood blister blast blubber blimp blush blow*
2 Color/Eye 26 *blaze blot blind blip black blue blond bleach*

Embodied Image: Human Eye (a fluid-filled organ which is colored and perceives color)

Category **3 Excess ('too much')** 46 *blurt blither blur blight blanch blotch blear*

Word	Ass	Rime	Suf	1	2	3
blintz	bɪ	ɪnts		√		
blob	bɪ	ab		√		
blood	bɪ	ʌd		√	√	
bloom	bɪ	um		√	√	
blossom	bɪ	as	əm	√	√	
blaze	bɪ	ez		√	√	√
blood	bɪ	ʌd		√	√	√
blush	bɪ	ʌʃ		√	√	√
bloat	bɪ	ot		√		√
blister	bɪ	ɪst	ɚ	√		√
blow	bɪ	o		√		√
blurt	bɪ	ɚt		√		√
blam	bɪ	æm		√		√
blast	bɪ	æst		√		√
blat	bɪ	æt		√		√
blotto	bɪ	ato		√		√
blare	bɪ	ɛɹ		√		√
blain	bɪ	en		√		√
blimp	bɪ	ɪmp		√		√
blubber	bɪ	əb	ɚ	√		√
blue	bɪ	u			√	
blurb	bɪ	ɚb			√	
blip	bɪ	ɪp			√	
black	bɪ	æk			√	
blond	bɪ	ɑnd			√	
blazon	bɪ	ez	ən		√	
blind	bɪ	aynd		√	√	
blink	bɪ	ɪŋk		√	√	
blank	bɪ	æŋk		√	√	
blemish	bɪ	ɛm	ɪʃ	√	√	
bleb	bɪ	ɛb		√	√	
bleach	bɪ	itʃ		√	√	
bleak	bɪ	ik		√	√	
blear	bɪ	ɪɹ		√	√	
blench	bɪ	ɛntʃ		√	√	

Word	Ass	Rime	Suf	1	2	3
blot	bɪ	at		√	√	
blight	bɪ	ayt		√	√	
blanch	bɪ	ænt	ʃ	√	√	
blotch	bɪ	atʃ		√	√	
blur	bɪ	ɚ		√	√	
bliss	bɪ	ɪs			√	
blither	bɪ	ið	ɚ		√	
blowsy	bɪ	awz	i		√	
blarney	bɪ	ɑɹ	i		√	
bland	bɪ	ænd			√	
blather	bɪ	æð	ɚ		√	
blaff	bɪ	af			√	
bleep	bɪ	ip			√	
bludgeon	bɪ	ədʒ	ən		√	
blunder	bɪ	ʌnd	ɚ		√	
blunt	bɪ	ʌnt			√	
blaster	bɪ	æst	ɚ		√	
blitz	bɪ	ɪts			√	
blooper	bɪ	up	ɚ		√	
blight	bɪ	ayt			√	
blah	bɪ	a			√	
blabber	bɪ	æb	ɚ		√	
blab	bɪ	æb			√	
blanket	bɪ	æŋk	ɪt		√	
blithe	bɪ	ayð			√	
blouse	bɪ	awz			√	
block	bɪ	ak			√	
blend	bɪ	ɛnd			√	
bless	bɪ	ɛs			√	
blade	bɪ	ed			√	
bloc	bɪ	ak			√	
bleat	bɪ	lit			√	
blame	bɪ	em			√	
blandish	bɪ	ænd	ɪʃ		√	
bleacher	bɪ	itʃ	ɚ		√	

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PR- 78 words 58 coherent Coherence Level 74%

Category **1** 1-D (Extended) 18 *