The University of South Florida homograph norms

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Norms were collected to determine the relative dominance of different meanings of homographic words. Forty-six subjects wrote down the first word that came to mind for each of 320 homographs. Each homograph, the number of times each meaning was given, and the specific associates are made available. In addition, correlations with other norms are presented.

Homographs are words with identical spellings and two or more distinct meanings. They make ideal stimuli for research on a variety of problems (cf. Wollen, Cox, Coahran, Shea, & Kirby, 1980). However, in the absence of context, some semantic interpretations are more likely to occur than others. Therefore, it is important to have some estimate of meaning dominance before these stimuli can be used in research. Several sets of normative data are available, but they include only 40-117 homographs and often present only primary and secondary associates (Kausler & Kollasch, 1970) or no associates at all (Geis & Winograd, 1974; Wollen et al., 1980). Because associates are frequently used as retrieval cues or as priming items for homographic words (e.g., Nelson, Walling, & McEvoy, 1979; Schvaneveldt & Meyer, 1973), their availability is essential. Prompted by the obvious need for this information, the present effort to norm a large sample of homographs was initiated in 1976.

METHOD

Materials

The 320 words appearing in the norming task were all selected from *Roget's International Thesaurus* (1962). Each had at least two distinct meanings that were judged as likely to be understood by everyone. As shown in Table 1, 53 of the homographs in these norms overlapped with the 100 used by Cramer (1970), 39 overlapped with the 40 used by Kausler and Kollasch (1970), 74 with the 109 used by Perfetti, Lindsey, and Garson (1971), 30 with the 50 of Geis and Winograd (1974), and 67 with the 117 of Wollen et al. (1980).

Subjects

The subjects were 46 introductory psychology students who participated on a volunteer basis for class credit.

Procedure

All words were typed in uppercase letters and in random

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Table 1

Available Homograph Norms, Number of Items Evaluated, Number of Items Overlapping With the Present Norms, and Correlations Between the Present and Other Norms

Norms	Number		r
	of Items	Overlapping	
Cramer (1970)	100	53	.79
Kausler and Kollasch (1970)	40	39	.88
Perfetti et al. (1971)	109	74	.86
Geis and Winograd (1974)	50	30	.91
Wollen et al. (1980)	117	67	.79
Nelson et al. (1980)	320		

order on eight pages, with 40 words/page. Each set of 40 words was arranged into two vertical columns. Booklets were then constructed by unsystematically randomizing the order of the eight pages. The instructions were presented both orally and printed on the cover sheet of the booklet, as follows.

"This booklet contains over 300 words. Next to each word is a blank. When I say 'begin' your task will be to write next to each word the first word that it makes you think of. It doesn't make any difference what word you write as long as the word on the paper makes you think of it. There are no right or wrong answers. For example, if the word was 'BAWL' you might write 'CRY'. If the word was 'DOG' you might write 'CAT' or 'HOUND'. The proper way of indicating this word is:

BAWL CRY _____
DOG HOUND _____

Be sure to write or print your word clearly and don't worry if you are not sure how to spell it. Spell the word as best as you can. Work as fast as possible, writing only a single word in each blank."

All subjects completed the task within the allotted 50-min period. Note that the instructions never mentioned the homographic nature of the stimuli.

RESULTS AND DISCUSSION

Separate categories were made for each homograph, including all the responses given to each word and their frequencies. Four judges (the authors) worked individually to categorize each response according to the meaning most likely to produce it. Then, before final categorization, each response was discussed until a

consensus was achieved. The semantic categories were chosen to reflect the origin of each meaning of the word according to *The American Heritage Dictionary of the American Language* (1973). When two closely related meanings came from the same source, they were treated as a single category. If separating two related meanings resulted in many responses that could be assigned to either category, the meanings were combined (e.g., the "dollar" and "statement" meanings of BILL were combined under "money"). Words referring to both an object and an action involving that object (e.g., DRILL) were included in a single category. Furthermore, a response that could not be classified with any of the meanings or that was obviously the result of a misinterpretation was placed in the questionable (?) category. Finally, since all responses are reported, anyone wishing to disagree with our judgments can readily recategorize the items.

Pearson product-moment correlations were calculated between our norms and others using homographs common to both sets. Before calculating these correlations, meanings were combined when necessary to coordinate categories in different norms, and, therefore, these correlations need to be regarded as approximate. All values were converted to proportions and averaged over sex of the subject. Both dominant and nondominant meanings were included. Thus 106 pairs of

proportions were used in calculating the r with the Cramer (1970) norms. Similarly, 60, 83, 186, and 148 pairings were used in calculating the respective r s for the Geis and Winograd (1974), Kausler and Kollasch (1970), Perfetti et al. (1971), and Wollen et al. (1980) norms.

The results of this correlational analysis are shown in Table 1. All of the values appear to be fairly high and agree quite well with those reported by Wollen et al. (1980). This agreement is obtained despite differences in subjects, sample size, evaluating judges, geographic region, and, finally, despite differences in procedure. Our norms and those of Cramer (1970) both employed the "first response" technique and correlated .79. Wollen et al. used short phrases and careful control of the timing arrangements, and, despite these differences, our values correlated .79 with theirs. Apparently, greater control does not substantially alter the proportions of responses allocated to the various meanings.

Table 2 presents each homograph listed in alphabetical order. The meanings, or senses, of each item are listed directly under it, and, in parentheses, the number of subjects providing responses with that meaning is given. As indicated, the ? category was used only when no other possible meaning could be determined. The N/R category represents "no responses," or omissions. Note that the individual responses (and their frequencies) are shown to the right of each meaning.

Table 2
Frequency of Occurrence of Each Meaning and Each Response

ARM		Oblong object (6)	crow, bell, handle, gold, press, steel
Limb (43)	leg (23), hand (7), hammer (3), pit (2), appendage, crook, in, write, build, band, shoulder, around	Exclude (2)	keep, it
Weapon (1)	war	Law (1)	law
? (1)	farm	? (2)	three, far
N/R (1)		BARK	
BALL		Dog (37)	dog (32), loud (3), bite, howl
Round object (42)	game (6), base (4), round (4), bounce (3), throw (3), play (3), bat (3), point, basketball, red, rubber, square, bearing, stick, park, fun, catch, chain, pen, baseball, pool, foot, hit	Tree (7)	tree (7)
Dance (1)	dance	? (1)	fish
Sex (1)	screw	N/R (1)	
? (1)	call	BASE	
N/R (1)		Baseball (28)	ball (19), line (4), home (2), safe, first, hit
BANK		Foundation (11)	bottom (5), foundation, ground, seat, lamp, low, number
Money (45)	money (20), robbery (8), account (3), teller (2), statement, savings, roll, hours, trust, deposit, Tampa, card, bureaucracy, vault, save, Landmark Union Trust	Headquarters (2)	station, army
? (1)	tank	Chemical (2)	strong, acid
BAR		? (3)	fiddle, face, case
Drink (35)	drink (12), beer (4), tavern (2), stool (2), booze (2), lounge (2), liquor (2), redneck, Nebraska Ave., order, juice, tender, hop, maid, drunk, rum	BASS	
		Fish (27)	fish (26), trout
		Music (17)	drum (3), fiddle (2), guitar (2), treble (2), deep (2), instrument, vial, tuba, tenor, cello, music
		? (2)	grandmother, mass
		BAT	
		Stick (24)	ball (2), boy (3), baseball
		Animal (20)	fly (4), rat (2), cat (2), cave (2), radar, man, dark, cry, wing, animal, bird, dangerous, rabies, vampire

Table 2 (Continued)

Eye (1) N/R (1)	eyelash	BLUFF Mislead (35)	fool (6), fake (6), lie (4), call (3), game (2), pretend, talk, fake-out, cheat, you, cards, questionable, scare, loud, poker, play, test, sneak, kid cliff (4), mountain, lovely, high, ocean, buffalo
BAY Water (40)	Tampa (14), water (11), pigs (3), harbor (3), ocean (2), river (2), area, Montego, lake, pines, state	Cliff (9)	whif, scrub
Howl (5) ? (1)	hound (2), dog, yell, howl Ford	? (2)	
BEAR Animal (42)	animal (8), woods (3), cub (3), brown (3), grizzly (3), big (3), skin (2), black (2), polar (2), hug (2), furry, growl, lion, Pan, forest, rifle, coats, rug, hog, hunt, yogi	BOARD Plank (24)	wood (8), plank (4), wooden (2), ship (2), nails, surf, long, slat, walk, dive, build, stiff
Pressure (3) ? (1)	weight, down, wear balls	Display (13) Directors (7) ? (2)	chalk (4), black (3), bill (2), game (2), blackboard, bulletin directors (2), room (2), rules, chairman, regents closet, tired
BEAM Construction (26)	wood (6), ceiling (4), house (3), wooden (2), building (2), support, board, weight, overhead, balance, ship, rod, steel, exposed	BOLT Fastener (29)	nut (11), door (6), lock (4), screw (3), close (2), stove, dead, steel
Light (17)	light (12), laser, sun, joy, radiate, gleam	Sudden movement (7) Lightning (5) Cloth (2) ? (3)	jump (2), run (2), leap, upright, colt lightning (5) cloth, material neck, holt, game
Whiskey (2) N/R (1)	Jim (2)	BOOT Footwear (44)	shoe (15), kick (6), leg (5), leather (4), foot (3), lick (3), strap (3), winter, black, cowboy, ass, skate camp hoot
BEEF Meat (46)	cow (10), steak (9), stew (8), cattle (3), eat (3), meat (2), steer (2), brown, eater, expensive, ground, pork, animal, veal, angus, meat	New recruit (1) ? (1)	
BILL Money (37)	pay (7), money (5), payment (2), paid (2), me (2), check (2), collector (2), dollar (2), fold, creditors, cost, tax, sale, affair, statement, owe, of fare, goods, lading, bond, green	BOUND Tied (25)	tied (8), tie (4), gagged (3), rope, tie-up, chained, unbound, overwatch, held, closed, bind, tape, book
Name (7)	John, Uncle, guy, name, person, Jane, father	Jump (13)	jump (5), leap (4), bounce, up, over, hop
Proposed law (1) ? (1)	government fill	Headed for (6) ? (2)	home (2), determined, homeward, travel, goal sound, found
BLOCK Obstacle (21)	stop (5), tackle (3), road (2), buster (2), shot, with, mental, strike, thrust, football, pass, defense, obstruct	BOW Arrow (26) Bend (10)	arrow (25), archery curtsey (2), respect, stoop, bless, out, karate, bend, boy, king
Flat sided substance (15)	wood (7), ice (3), head (2), cement, concrete, build	Tie (7) Ship (2) N/R (1)	tie (6), gift boat, stern
City (9) ? (1)	city (3), street (2), cell (2), house (2) apple	BOWL Container (23)	cereal (5), dish (2), soup (2), salad (2), spoon, jelly, cup, breakfast, toilet, broken, food, cherries, rice, dog, oatmeal, pan
BLOW Air (42)	horn (16), wind (11), hard (6), whistle (2), down (2), up, tired, exhale, balloon, air	Ball (20)	ball (7), pins (4), game (3), dollars, sport, goal, alley, rose, strike
Hit (3) N/R (1)	hit (2), mistake	N/R (3)	
BLUE Color (45)	sky (9), red (8), green (8), color (5), water (3), white (2), yellow (2), eyes (2), grey, sea, boy, black, ink, night	BOX Container (33)	square (5), lunch (4), cardboard (3), car (3), top (2), container (2), crate, black, Skinner, shoe, open, wood, in, keep, mail, stack, cigars, seat, spring, vagina
? (1)	clue		

Table 2 (Continued)

Office (4)	office (4)	? (4)	mutiny (2), cane, Abel
Fight (6)	hit (4), play, boxer	CAP	
? (2)	camille, fox	Hat (26)	hat (17), head (4), gown (2), night, glove, baseball
N/R (1)		Top (11)	ground (3), top (2), enrollment, pen, gas, on, stop-up, screw
BREAK		? (4)	crew, sap, grass, gap
Ruin (33)	ruin (3), broken (3), fix (2), tear (2), repair (2), open, down, splatter, up, shatter, mend, crack, crash, bottle, bone, egg, smash, fit, bend, neck, glass, destroy, snap, hurt, heart, bust	N/R (5)	
Escape (11)	out (2), even (2), away (2), jail (2), fast (2), thru	CARDS	
Rest (2)	intermission, coffee	Playing (39)	poker (10), deck (7), game(s) (7), play (7), ace (2), gambling, rummy, shuffle, spade, king, playing
BRIDGE		Greeting (4)	greeting, paper, post, read
Span (28)	water (7), over (4), span (2), river (2), steel (2), work, cross, troubled water, gap, Kwai, demolition, build, tunnel, London, wooden, teeth	? (1)	silence
Cards (16)	game (7), cards (6), club (2), play	N/R (2)	
N/R (2)		CARP	
BRIDGE		Fish (38)	fish (37), trout
Span (31)	water (11), river (3), gap (2), London (2), span (3), Kwai, cross, over, across, high, Washington, builder, steel, wooden, nose	Nag (4)	harp (2), anger, nag
Cards (14)	cards (8), game (4), partner, party	? (3)	port, carcass, tarp
? (1)	ridge	N/R (1)	
BUG		CASE	
Insect (38)	insect (11), roach (7), spray (4), beetle (3), mosquito, kill, ladybug, screen, spider, net, yech!, squash, bad, love, bite, small, fly	Container (24)	book (6), beer (5), container (2), brief (2), box (2), valise, guitar, gun, crate, glass, watch, jacket
Bother (6)	bother (3), off (2), out	File (16)	history (3), load (2), jury, suit, study, work, joint, court, number, lawyer, file, law, closed
Car (2)	VW, car	Protective covering (1)	harden
CABLE		? (2)	one, base
Heavy wire (40)	car (12), telephone (5), line (4), wire (3), TV (3), call, train, cord, rope, splice, bridge, telegraph, telegram, release, ocean, pull, steel, jack	N/R (3)	
? (4)	Clark (2), table, marble	CAST	
N/R (2)		Dressing (15)	leg (6), broken (5), arm (2), broken leg, break
CALL		Throw (14)	fish (5), throw (4), doubt, sling, aside, off, shadow
Summon (43)	phone (16), girl (6), yell (5), wild (3), again (2), card, dog, shout, name, number, hail, parent, on, me, friend, hey	Theater (10)	show (2), actors, thousands, big, stage, group, assign, Broadway, play
Stop (2)	ball (2)	Iron (5)	iron (3), mold, built
N/R (1)		? (2)	fast, totem
CAN		CELL	
Container (29)	tin (4), opener (4), tuna (2), food (2), soup (2), goods (2), bottle (2), container (2), peaches, jar, beer, lid, empty, open, beef, beans, drink will (3), can't, not, do, able, yes	Jail (27)	fail (10), prison (5), block (3), walls (2), room, closed, lock, man, dark, empty, confined
Ability (8)	can (5)	Biological (16)	body (3), blood (2), biology (2), small (2), amoeba (2), nucleus, one-celled, unit, organism, factor
Dance (5)	fire (2)	Battery (1)	dry
Fire (2)	fire (2)	? (2)	jello, bell
N/R (2)		CHANGE	
CANE		Money (25)	money (16), coins (3), quarter (2), small money, fare, dollar, pennies
Plant (21)	sugar (21)	Alter (21)	different (2), ways, -ling, it, clothes, tire, alter, begin, mind, revamp, relocate, coming, direction, transition, battery, grow, move, switch, strange, metamorphosis
Stick (21)	walk (5), blind (4), stick (3), candy (2), pole (2), old, man, cripple, support, crutches	CHARGE	
		Payment (35)	account (7), card (7), credit (4), it (3), cost (3), cash (2), admission (2), credit card, interest, price, fare, fee, master, money

Table 2 (Continued)

Attack (5)	force, fun, move, rush, Teddy Roosevelt	Weapon (10)	stick (5), golf, billy, cane, bat, weapon
Accusation (3)	arrest, blame, rape	Hit (8)	hit (8)
Electricity (2)	battery, wire	Room (5)	house (4), lounge
? (1)	nurse	Foods (3)	sandwich (2), soda
CHARM		Cards (1)	heart
Attract (25)	smile (4), poise (2), grace (2), school (2), wit (2), charisma (2), warm, perfume, appealing, like, Carter, nice, class, look, elegance, women, pleasant bracelet (10), metal, doll, ring, jewel, necklace	COAST	
Trinket (15)		Shore (39)	guard (7), water (5), beach (4), west (4), east (3), Florida (2), shore (2), line (2), shoreline, edge, land, gold, country, California, reef, sunshine, Cocoa Beach, clear
Omen (3)	harm, omen, luck	Glide (4)	slide, glide, ride, relax
? (2)	Shehag, farm	? (1)	toast
N/R (1)		N/R (2)	
CHECK		COAT	
Bank (30)	money (13), book (8), cash (3), bounce (3), write (2), bank	Jacket (40)	hat (6), warm (6), fur (5), hanger (4), tie (4), gold (3), jacket (3), pocket (2), wear, mink, garment, gloves, clothes, winter, mail
Verify (12)	list (5), out (3), point (2), mark, double	Covering (4)	cover (2), colors, edge
Chess (4)	mate (4)	Animal (1)	cat
CHEST		? (1)	boat
Body (23)	heart (3), hairy (2), big (2), breast (2), body (2), X-ray (2), bosom, torso, power, shirt, breathe, cold, pain, stomach, pride, hair	COMB	
Treasure (11)	treasure (6), box (2), store, container, lock	Hair (44)	hair (30), brush (13), fix
Bureau (6)	drawers (4), drawer, mirror	Search (1)	search
? (6)	game (3), board, play, nest	N/R (1)	
CHEW		CORD	
Teeth (44)	food (10), gum (8), eat (8), mouth (4), teeth (3), masticate (3), meat (2), bite (2), swallow, cud, tobacco, fat	Rope (41)	rope (6), string (6), tie (6), electric (4), rip (4), lamp (3), light (2), wires (2), extension (2), outlet, pull, line, knot, hanging, umbilical
Scold (2)	out, over	Wood (3)	wood (2), board
CHINA		? (1)	guitar
Dishes (22)	dishes (8), cabinet (3), ware (3), plates (3), Wedgewood, shop, bowl, bone, service	N/R (1)	
Country (16)	country (5), Nixon (3), town (3), Red (2), Israel, Japan, house	CORN	
Doll (7)	doll (7)	Grain (46)	cob (10), kernel (6), husk (4), ear (4), vegetable (3), yellow (2), field (2), farmer, bread, food, crop, dog, shuck, pop, whiskey, beef, stack, meal, starch, eat, grits, peas
N/R (1)		COUNT	
CHOP		Number (39)	numbers (24), down (5), money (4), ten (2), counter, up, head, two
Meat (24)	pork (10), meat (4), steak (4), lamb (3), liver (2), bite	Nobleman (5)	Dracula (4), Duke
Cut (13)	cut (4), suey (4), down (2), sticks, up, grate	Depend (1)	depend
Wood (7)	wood (3), hit (3), hatchet	? (1)	tell
N/R (2)		COURT	
CHUCK		Legal (33)	judge (5), room (5), law (6), date (2), trial (2), jury (2), house, jail, county, justice, action, bail, fine, marshall, crime, busted, case
Meat (24)	steak (12), roast (7), beef (3), stew, ground	Uncovered space (8)	yard (5), tennis (3)
Throw (11)	throw (9), over, throw out	Sovereign (2)	jester, kings
Wagon (7)	wagon (7)	Romance (2)	lady, ship
Name (4)	name, who, despise, Snoopy	? (1)	coat
CLUB		CRAB	
Organization (19)	country (2), people (2), clique, fraternity, 4-H, mix, group, join, boys, peer, money, organization, belong, dinners, member, bridge, gentleman	Shellfish (45)	meat (11), fish (3), shell (3), crustacean (2), water (2), claw (2), beach (2), sea (2), lobster (2), food, cracked, lice,

Table 2 (Continued)

	fiddler, shore, eat, animal, salad, ocean-ography, cake, legs, good, back, king, deviled, roll	? (6) N/R (2)	sheep, clothing, why, yes, do, color
Crabtree (1)	tree	DIGIT Number (36)	number (27), calculator (2), eight, numerical, counter, phone, clock, two, unit
CROOK Thief (42)	thief (12), steal (6), robber (5), crime bank (2), rob (2), criminal (2), crack, shoot, cop, dishonest, bad guy, prisoner, bad, bastard, scoundrel, Nixon, gangster	Appendage (9) ? (1)	finger (7), toe, hand right on
Curve (2) ? (2)	arm, finger no, pickles	DIRT Soil (44)	clean (5), track (4), sand (3), dust (2), dig (2), ground (2), mud (2), black (2), ball (2), brown (2), plant (2), road, organic, knees, sank, grim, dobber, rag, parasites, pay, bike, child, fun, clothes, land, filth, earth
CRUST Cover (44)	pie (20), bread (15), pizza (4), cake, edge, sandwich, wound, shell	? (1) N/R (1)	kirt
N/R (2)			
DASH Race (25)	run (15), off (2), fast (2), away, relay, start, on, rush, 100 yard	DIVE Plunge (42)	water (13), pool (5), jump (4), swim (3), board (3), scuba (3), sky (2), in, into, tanks, deep, bell, ship, throw, boxing, cheat
Punctuation (6) Dashboard (4) Small amount (3) Flair (1) ? (7)	dot (5), colons board (3), car salt (2), pepper gallantry hound (4), mash (2), dog	Cheap bar (1) ? (2) N/R (1)	tavern yes, cup
DATE Time (24)	time (8), today (3), April (2), book (2), month (2), "April 1," "4-1-76," calendar, numbers, year, June, "day/month"	DOUGH Bread (37)	bread (18), boy (5), nut (5), bake (3), batter, flour, play, sour, mixture, doughnut
Appointment (14)	girl (6), couple, dinner, guy, place, male, love, bride, with	Money (7) N/R (2)	money (6), bought
Fruit (6) N/R (2)	nut (3), fig (2), fruit	DRAFT Select (23)	army (7), board (4), card (3), military (2), dodger (2), lottery, men, Red Sox, war, football
DECK Platform (29)	boat (10), ship (10), poop (2), swim (2), surface, tennis, wood, plane, steel cards (14), hand	Beer (18) Preliminary writing (2) Pull (1) N/R (2)	beer (18) bill, draw horse
Cards (15) Decorate (1) N/R (1)	halls		
DESERT Barren (22)	dry (5), hot (3), sand (3), camel, barren, water, rat, flower, cactus, dawn, Gobi, fox, arid, Sahara	DRAG To pull (16)	pull (10), along, line, behind, resist, log, shuffle
Abandon (5) ? (17)	leave (3), run, abandon food (5), cake (2), ice cream (2), fattening (2), pudding, coffee, pie, now, dinner, east	Race (13) Boring (6) Inhale (4) Homosexual (4) ? (3)	race (10), city, car, chute bore (3), dirge, on, brag drug, joint, smoke, cigarette queen (3), homo snag, bag, flag
N/R (2)			
DIAMOND Gem (43)	ring (15), gem (6), jewel (4), stone (2), shine (2), hard (2), clear, glitters, sharp, girl, tip, cutter, rough, ruby, bright, love, expensive, sparkle	DRAW Sketch (34)	picture (10), sketch (8), write (2), art (2), paint (2), people, pencil, artist, poodle, circles, hand, paper, well, see, scribble
Baseball (2) ? (1)	baseball (2) four	Pull (9) ? (2) N/R (1)	back (2), shoot, bridge, poker, budge, pull, horse, mister saw, draw
DIE Death (36)	live (13), death (8), dead (4), hard (3), end (2), young, nonliving, funeral, grave, expire, lie	DRESS Clothing (44)	clothes (7), up (6), skirt (6), maker (3), suit (3), pants (2), shirt (2), code (2), woman, clothing, belt, blouse, new, don, stockings, down, red, white, nice,
Mold (1) Dice (1)	cut cast		

Table 2 (Continued)

? (2)	look, fashion mess, close	FAN Cool (37)	cool (14), blow (6), spin (3), breeze (3), blades (2), air (2), Japanese, hand, hot, turn, electric, dance, wind club (3), mail, football, ball, letter, glamour fare
DRILL Tool (29)	bit (9), hole (7), tool (4), saw (2), oil, dentist, wood, down, press, electric, hammer	Follower (8)	
Exercise (13)	sergeant (5), fire (4), practice, trial, rifle, repeat	Trumpets (1)	
? (4)	hill, me, stop, frill	FARE Fee (35)	money (6), cost (5), change (3), pay (3), train (2), taxi (2), fee (2), bus (2), price (2), ticket (2), fifty, no-frills, pass, toll, coin, token well (2), fan things, fair, nice, lady, honest, ideal, bare
DRIP Drops of liquid (46)	drop (19), water (9), faucet (6), dry (6), coffee (3), plop, sink, filter	Display (3) ? (7)	
DRUM Music instrument (42)	beat (11), stick (9), hit (3), instrument (2), loud (2), music (2), horn (2), bang (2), sound (2), Thoreau, major, boy, boom, bass, roll, base bum, slip, sum	N/R (1)	
? (3) N/R (1)		FAST Quick (41)	slow (35), race, play, eagle, boyfriend, run, swift eat (3) brain
DUCK Fowl (40)	soup (5), bird (5), goose (3), water (3), rubber (2), hunt (2), quack (2), feathers (2), mallard (2), hen, dinner, sitting, swan, hunting, Donald, pressed, chicken, webbed, waddle, swim, tail, lake, feet down, under, bend fuck, cluck	Abstain (3) ? (1) N/R (1)	
Evasive movement (3) ? (2) N/R (1)		FENCE Barrier (38)	yard (8), gate (7), post (7), in (2), wire (2), wooden (2), link, picket, separate, sheep, jump, enclosure, repair, trap, white, protect "engarde," duel, sword, foil, game sell
DUMP Garbage (36)	garbage (14), trash (7), city (4), yard, county, all, shit, fine, smell, odor, junk, scrap, stuff, "Gandy Blvd."	Sport (5) Sell (1) N/R (2)	
Unload (9) ? (1)	truck (8), unload hump	FIELD Cultivated land (29)	grass (5), work (3), mice (2), flower (2), stream (2), open, land, daisies, hunting, farm, park, plow, trip, crop, weeds, green, corn, wheat, plain, meadow baseball (5), football (3), ball (2), play, goal, hockey, game optical magnetic
EAR Organ (43)	hear (15), lobe (4), eye (4), nose (4), drum (2), ache (2), head (2), music, appendage, hole, wax, wash, cochlear, vestibular, phone, ring, pierce class, audit, fear	Sports arena (14)	
? (3)		Area of vision (1) Area of force (1) N/R (1)	
EXPRESS Rapid transport (28)	train (16), fast (5), local, freeway, bus, lane, car, railroad, way	FIGURE Shape (35)	eight (5), shape (4), nice (3), girl (3), body (2), hourglass (2), good (2), picture (2), woman, skater, improvement, face, salon, drab, thin, dress, proportional, triangle, curves, skate number (2), ground (2), math, add, calculate, out
Convey (13)	words (2), tell (2), say (2), self, opinion, show, emotions, feelings, yourself, music	Calculate (8)	
Deliver (5)	pony (2), mail, check, card	N/R (3)	
FAIR Just (18)	just (3), even (3), right (2), game (2), equal, equitable, good, wrong, dirty, honest, foul, understanding	FILE Order (31)	cabinet (16), papers (4), card (2), clerk (2), room, records, drawer, 13, folder, letter, look naïl (3), tooth, tool, saw, down, carpentry, cut rank (2), single, line pile, mile
Carnival (15)	fun (5), grounds (3), rides (2), carnival (2), country, Largo, circus	Tool (9)	
Light complected (6) Average (3) Pleasant (2) ? (1) N/R (1)	hair (2), lady, animal fur, light, dark O.K. (2), teacher day, friends money	Line (4) ? (2)	
		FINE Excellent (25)	good (10), okay (3), day (2), great (2),

Table 2 (Continued)

Penalty (11)	arts, lousy, terrible, bind, nice, dandy, job, quality	Fun (13)	(2), shot, frisbee, flung, plane, rock, hit, catch, arms
Delicate (8)	money (4), penalty (3), court, tariff, policeman, stopped	? (2)	party (3), affair (2), fun (2), romance, circus, lover, bar, highland, swing nun, transform
? (2)	smooth (2), coarse (2), tiny, comb, sharp, line	FOIL	
FIRE	now, mine	Metal sheet (29)	aluminum (15), tin (6), wrap (3), paper (2), Reynolds, can, cook
Flame (41)	hot (8), flame (4), water (4), drill (3), place (2), log (2), engine (2), alarm (2), camp (2), ball (2), boy, disaster, fighter, wind, hose, man, burn, blaze, peaceful, station	Sword (10)	fence (4), sword (3), fencing, rapier, fencer
Shoot (1)	rocket	Ruin (6)	ruin (2), again, messed up, villain, rot
Terminate (1)	help	? (1)	toil
? (2)	mire, wire	FOLD	
N/R (1)		Bend (42)	bend (9), paper (6), crease (6), spindle (4), sheets (2), mutilate (2), open (2), towel, close, turn-over, up, fix, over, rip, out, clothes, twice, in half
FIRM		Flock (2)	flock, sheep
Solid (35)	hard (15), soft (4), strong (2), grip (2), stiff (2), tight (2), grounds (2), breasts, steady, enough, loose, sturdy, solid	? (2)	hold, lap
Company (6)	company (5), law	FOOT	
Strict (5)	strict (2), gentle, heart, offer	Leg (44)	shoe (10), ball (8), toe (6), leg (3), feet (2), hand, tap, boot, mouth, print, loose, kick, walk, smell, skate, stool, guard, around, run, fall
FIT		Measurement (1)	inch
Appropriate (30)	tight (3), clothes (3), sag (2), loose (2), together (2), room, place, pipe, out, form, dress, don't fit, perfect, humor, king, wear, college, poor, tuck, fix, pants, meet, right	N/R (1)	
Healthy (9)	seizure (2), epilepsy (2), physically able, thin, fiddle, crazy, rage	FRAY	
? (5)	mit, bit, fun, Fla. Institute of Tech., screw	Tear (30)	tear (5), ravel (3), jeans (2), frazzle (2), fringe (2), clothes, mess, edges, old, tablecloth, cloth, erode, torn, ragged, rope, delicate, hem, worn, tatter, string, unravel
N/R (2)		Fight (7)	fight (7)
FIX		Nervous (2)	frustrated, sick
Repair (33)	repair (10), mend (7), it (4), tool, correct, adjust, fine, right, nice, break, help, up, set, heal, car	? (5)	horse, ray, stray, gray, play
Drugs (8)	drugs (2), heroin (2), find, dupe, needle, hit	N/R (2)	
Mount (1)	kill	FRISK	
Prearrange (1)	race	Search (40)	search (15), cops (5), police (5), feel (3), check (2), touch (2), check-out, explore, rub, jail, pants, coat, pat, scratch
Stare (1)	stare	Brisk, playful	
? (2)	mix (2)	movement (6)	cat (2), run, play, blink, fast
FLAT		FRONT	
Level (24)	land (2), surface (2), smooth (2), raised, straight, hill-less, earth, foot, board, even, beach, chest, world, slope, mountains, boat, shoes, Florida, level, plain, table	Before (44)	back (34), door (2), rear (2), anterior, fence, page, porch, army, of
Tire (11)	tire (6), round (3), full, car	Facade (1)	fake
Music (3)	sharp (2), under	? (1)	you
Apartment (2)	apartment, house	GAG	
Paint (1)	paint	Choke (25)	choke (12), mouth (4), tie (2), stifle, reflex, shoot, strangle, quiet, sick, rule
? (5)	hard, good, bat, second, out	Joke (18)	joke (11), funny (2), prank, trick, laugh, line, flop
FLEET		? (2)	this, flag
Ships (39)	ships (32), navy (3), boats, armada, group, gasoline	N/R (1)	
Swift (6)	foot (2), fast (2), run, gone	GAME	
? (1)	meet	Fun (39)	play (14), ball (3), Monopoly (2), fun (2), cards (2), time, chess, poker, sports, card, rules, plan, mind, soccer, Parchesi, pool, chance, bet, smile, darts, football
FLING			
Toss (31)	throw (17), sling (2), flang (2), toss		

Table 2 (Continued)

Animal (4) ? (2) N/R (1)	cock (2), hunter, animals chest, plane	? (2) N/R (1)	mill, dog
GAS		GRIND	
Petroleum (40)	car (17), oil (4), fuel (2), expensive (2), station (2), mileage (2), money, Corvette, stamp, shortage, bill, war, up, pump, strike, go, automobile	Pulverizing motion (36)	meat (7), teeth (3), coffee (3), bump (3), chew (2), in (2), rub, pulverize, bones, cut, flour, stone, file, grit, meal, grate, wheat, corn, churn, eat, mince, smaller
Property of matter (6)	light, liquid, chamber, heat, fart, main	Tedious task (5) ? (3) N/R (2)	work (2), routine, school, hard mead (2), find
GIN		GROUND	
Liquor (39)	tonic (12), drink (4), booze (3), alcohol (3), liquor (3), rum (3), drunk (2), bottle (2), mill (2), vodka, seven, dry, rickey, bathtub	Earth (33)	dirt (7), hog (6), earth (4), grass (2), hard (2), air, fire, field, feet, breaking, solid, under, hay, wire, deep, land, leaf
Card game (6) ? (1)	Rummy (5), cards fin	Grind (8)	meat (2), grind (2), chuck, coffee, peanuts, beef
GRACE		Foundation (3) ? (1) N/R (1)	base, work, rules figure
Prayer (20)	prayer (4), blessing (3), God (3), church (2), faith, good, amazing, religion, meal, gift, thanks, saved	HABIT	
Poise (15)	poise (4), calm, nice, gazelle, coordination, figure, smooth, women, manners, beauty, delicate, style	Frequent behavior (39)	bad (8), smoke (4), smoking (3), practice (2), break (2), inveterate, drugs, constant, finger, bother, sameness, same, repeat, problem, strength, drinking, do, bite, dope, form, awful, fun, conditioned, pattern, habitat
Woman's name (9) ? (1) N/R (1)	Slick (4), Kelley (3), name, Allen face	Costume (4) ? (1) N/R (2)	nun (3), riding Babbit
GRADE		HAIL	
Evaluative scale (41)	"A" (17), mark (5), school (4), average (3), milk (2), improve, letter, pass, good, score, position, low, report, eech, period	Pay tribute (19)	chief (7), king (2), Mary (2), praise (2), cheer (2), Hitler, song, queen, friend
Incline (5)	hill (2), incline (2), lever	Ice particles (17)	rain (7), snow (3), ice (2), sleet, weather, stone, storm, bullets
GRATE		Call (7) ? (3)	wave (2), call, command, yell, taxi, hello way, harty, mail
Rub or scrape (36)	cheese (13), grind (4), carrots (2), nerves (2), onions (2), scratch, chills, slice, sharp, cut, punish, teeth, rub, grit, irate, ear, Parmesan, corn	HAM	
Gridiron (4) ? (4) N/R (2)	fence, door, iron, grill hill, sometimes, gring, Kate	Meat (42)	bone (7), eggs (6), cheese (5), meat (4), food (3), pig (3), pork (3), steak (2), hog, hock, bacon, eat, sandwich, breakfast, fat, yams, lamb
GRAVE		Amateur radio operator (2) Incompetent actor (2)	radio (2) actor, you
Burial place (41)	dead (15), yard (5), death (4), dig (4), stone (2), hole (2), die (2), site (2), digger (2), bury, robber, shallow	HAND	
Serious (5)	bad, decision, somber, serious, stern	Appendage (41)	fingers (11), ball (5), shake (5), arm (4), foot (4), work, appendage, gun, write, over, sewn, ring, leg, good, out, rub, job
GREEN		Cards (1) ?? Combining form (1) ? (1) N/R (2)	poker some name
Color (39)	grass (9), blue (5), yellow (4), red (3), color (3), light (3), tree (3), gray, spade, ball, berets, jade, house, leaves, celery, money	HANG	
Immature/ inexperienced (4) ? (3)	apples, king, young, nice mean, spleen, reg.	Execute (21)	dead (5), man (4), noose (3), neck (3), rope (3), kill (2), suicide
GRILL		Suspend (24)	up (3), on (3), picture (3), clothes (2), out (2), stake, dangle, put up, tail, plant, high, down, cliff, in, ten, nail
Cooking surface (40)	hamburger (7), cook (6), cheese (5), food (4), barbeque (4), steak (3), hot (2), grate, bar, toast, ground, cooker, onions, meat, eat, burner		
Question relentlessly (3)	investigate, question, drill		

Table 2 (Continued)

N/R (1)					
HARD			Informal dance (1)		rabbit, along, rock
Rigid (34)	soft (21), rock(s) (2), wood, hat, egg, on, iron, shell, head, nose, stiff, worker, core		Flower (1)		dance
Difficult (11)			HORN		beer
N/R (1)	work (4), tough (3), easy (3), luck		Instrument (42)		blow (22), car (4), honk (3), flute (2), trumpet (2), blower, play, sound, loud, cab, blast, French, beep, bugle
HARP			Antler (2)		bull, broken
Musical instrument (36)	music (8), angel (6), instrument (3), strings (3), heaven (2), play (2), sing (2), aeolian, soft, harpsichord, blues, melody, flute, heavenly, sound, chord, finger		? (2)		Bob, scorn
Harangue (7)	Marx (2), nag (2), harping, harangue, jaw		HOST		
? (1)	sharp		Social (37)		hostess (11), party (8), guest (8), talk, man, guard, star, maitre de, favorite, social, friend, entertainer, see
N/R (2)			Organism (5)		parasite (2), tick, cell, America
			Eucharist (1)		cake
			? (2)		ghost, most
			N/R (1)		
HATCH			HOUND		
Bear young			Dog (45)		dog (37), track (2), ground, Bluetick, Baskerville, chase, heaven, cat
from an egg (24)	egg (15), chick (3), come out, out, chicken, yolk, coop, hen		N/R (1)		
Vertical opening (17)	cover (3), open (3), boat (3), submarine (2), top, roof, door, ship, lock, back		JAM		
? (4)	hatchet, fast, batch, act		Fruit preserves (34)		jelly (23), bread (3), strawberry (2), raspberry, grape, jar, butter, toast, jelly door (4), stuck (3), close, up, wreck session
N/R (1)			Wedge (10)		ham
HAUNT			Music (1)		
Ghost (41)	ghost (17), house (14), spook (3), scare (2), mansion, castle, witch, hill, frighten		? (1)		
Frequented place (2)	roost, drink		JAR		
? (3)	dog, seek, gaunt		Container (38)		jelly (7), lid (6), bottle (4), glass (4), jam (4), mason (3), container (2), ball (2), pickle, mustard, jug, hold, mayonnaise, vase
HEAD					open (2), shake (2), sway, bell
Cranium (44)	hair (9), face (5), ache (4), top (3), brains (3), shoulder (3), round (2), skull (2), feet, eyes, toes, think, bald, mind, neck, ear, comb, gear, cutter, board, shop		Jolt (6)		bar (2)
Ship's bathroom (1)	bathroom		? (2)		
N/R (1)			JERK		
HEAT			Abrupt motion (29)		off (9), pull (6), jump (3), twist (2), knee (2), twitch (2), snatch, hit, dance, shake, rope
Temperature (44)	hot (11), cold (9), warm (5), cool (3), sun (2), sweat (2), pad, kitchen, cook, wave, Ben-Gay, liniment, stroke, fire, ray, temperature, ham, summer		Stupid person (16)		creep (2), stupid (2), fool (2), nurd (2), soda (2), idiot, bozo, you, person, shmuck, student
? (2)	eat, beat		? (1)		merk
HEM			JOINT		
Cloth border (40)	dress (14), skirt (10), sew (9), shirt (2), line (2), darn, up, seam		Joining point (23)		knee (4), elbow (4), arm (2), bone (2), leg, fingers, shoulder, connection, hinge, junction, meat, lock, appendage, move, point
Hesitate in speaking (5)	haw (3), throat, ditto				smoke (6), pot (4), reefer, marijuana, dope, roll, water
N/R (1)			Drugs (15)		bar (3), place
HIDE			Cheap tavern (4)		with, together
Conceal (42)	seek (23), find (4), out (2), fear (2), away (2), go seek, covered, run, avoid, under, in, bushes, face, conceal		Together (2)		scale, event
Animal skin (4)	tan (2), tanning, skin		? (2)		
HOP			JUICE		
Small jump (44)	jump (21), skip (10), scotch (6), bunny, kangaroo, grasshopper, run,		Liquid of fruit (46)		orange (35), drink (4), fruit (3), bar (2), apple, glass
			KFRNEL		
			Grain (43)		corn (42), cereal
			? (2)		dog, Saunders

Table 2 (Continued)

N/R (1)			stand, shed, post, shoulder, top, fall, against, side, on, relax, toward, railing school, mean
KEY		? (2)	
Lock (42)	lock (18), door (5), hole (3), club (3), car (2), open (2), opener, chain, turn, apartment, in, fit, room, unlock, lost Biscayne, West	N/R (1)	
Low island (2)		LEFT	
Essential (1)	word	Direction (43)	right (41), hand, field
Piano (1)	board	Political (2)	radical, gauche
		Remain (1)	over
KICK		LETTER	
Strike with the foot (42)	ball (11), hurt (5), foot (3), hit (3), leg (2), football, shin, karate, shoe, over, punch, boot, horse, ass, fall, pant, stomp, bull, tree, feet, punt, strike, soccer	Postal (42)	mail (12), write (8), opener (6), stamp (5), send (3), friends, white, recommendations, read, man, head, tell, arts alphabet, red
Reaction (2)	back (2)	Alphabet (2)	bed
Stimulating effect (1)	grass	? (1)	
? (1)	bit	N/R (1)	
KID		LIE	
Child (29)	child (17), boy (2), brat (2), Cassidy, monster, pupil, sister, adult, parent, boxer, Billy	Falsehood (37)	truth (10), cheat (7), fib (3), bad (3), detector (2), told, life, untruth, say, falsify, white, honest, machine, true, doubt, false, nope
Young goat (10)	goat (9), glove	Recline (9)	down (4), sit, back, still, low, sex
Hoax (6)	fun, toy, joke, laugh, play, wonder		
? (1)	death	LIGHT	
KIND		Illumination (42)	bulb (10), dark (9), house (4), switch (2), on (2), electricity (2), fixture (2), match, fire, moth, lamp, sun, stop, flash, years, beam, bright, optics
Sympathetic (39)	nice (11), good (3), generous (3), mean (3), pleasant (2), gentle (2), unkind, soft, gently, person, just, hard, word, cold, love, cruel, dear, humble, relative, folk, queen	Weight (4)	heavy (2), foot, airy
Sort (4)	type (2), different, pair	LIKE	
? (3)	find, yes, mind	Affection (41)	dislike (13), hate (13), love (3), me (2), desire, nice, O.K., fond, enjoy, it, wife, women, trust, to
LAND		Similarity (5)	other, now, as, alike, differ
Property (41)	water (6), owner (4), fill (3), dirt (3), scape (3), food (2), earth (2), acre (2), mine (2), wild, open, world, expensive, plain, Tarra, plot, USA, free, development, property, sea, lover, fields	LITTER	
Return (verb) (3)	plane (2), ho	Refuse (26)	trash (6), box (4), garbage (4), basket (3), pick-up, waste, despicable, bag, bug, paper, throw, dirty, dirt
Lord (euphemism) (1)	"O'Goshen"	Multiple young (9)	kittens (3), puppies (3), mice, cub, dogs
? (1)	Guthrie	Cat (7)	ambiguous—can be in either category
LAP		Stretcher (1)	transport
Sitting (21)	sit (9), legs (4), seat (2), lady, suit, pants, thighs, girl, love	? (3)	read, fold, bitter
Drink (4)	drink (2), sip, lick	LOAF	
Dog (11)	ambiguous—can be in either category	Baked food (41)	bread (34), meat (6), pan
Complete circuit (6)	run (2), around, card, swim, relay	Idleness (5)	lazy (3), indolent, relax
Lapland (1)	Lander		
? (3)	cap, hap, wap	LOBBY	
LEAF		Anteroom (34)	hotel (12), motel (3), sit (2), wait (2), hall (2), door, theater, meeting place, open, seat, Hilton, building, clerk, hospital, dorm, relax, couch, room
Plant (41)	tree (27), green (4), maple (2), gold(en) (2), mold, oak, jump, lovely, two, rake through (2), tablet	Legislative (11)	government (3), Congress (3), Washington (2), politician, lobbyist, provoke
Sheet (3)	Erikson	? (1)	hobby
Name (1)		LOCK	
N/R (1)		Fastener (43)	key (15), door (13), up (3), secure (2), open (2), out, pick, chain, smith, tight, combination, seal, pad
LEAN			John, mock, heed
Thin (22)	fat (6), meat (5), thin (4), beef (2), tall (2), skinny, steak, slender		
Slant (21)	over (3), forward (2), bend (2), to (2),	? (3)	

Table 2 (Continued)

LOG		MINT	
Wood (39)	cabin (16), tree (6), fire (5), wood (4), roll (3), flume, burn, logger, water, cable	Flavoring (27)	candy (13), julep (4), flavor (2), spear, gum, cool, taste, tea, chocolate, spice, sneeze
Cumulative record (4)	diary (2), book, back	Manufacture (19)	green (8), money (5), condition (2), coin, stole, gold, fortune
Math (2)	arithmetic (2)		
N/R (1)			
LOT		MISS	
Land parcel (35)	land (13), house (3), car (3), parking (3), sale (2), plot (2), empty (2), ground, burial, ranch, rent, vacant, baseball, housing	Fail to hit (18)	hit (7), error (3), wrong, not hitting, out, shot, pass, ball, pitch, construe
Amount (10)	little (3), less (2), much (2), of, bunch, money	Unmarried woman (17)	Ms. (3), Mrs. (3), girl (3), America (2), Mr. (2), young, lady, single, pretty you (4), school, Dru, Mary, me, absent
Destiny (1)	luck	Feel loss (9)	hiss, piss
		? (2)	
MAJOR		MOLD	
Significant (29)	minor (18), psychology (6), most (2), important, college, problem	Fungus (24)	bread (8), mildew (5), slime (2), cheese (2), fungus (2), yeast (2), penicillin, green nurospora
Military rank (15)	general (5), army (3), colonel (3), captain, sergeant, Lt. colonel, rank	Pattern (20)	jello (5), shape (4), clay (3), lace, iron, candle, make, round, fit, ceramic, model
Music (1)	key	? (2)	hold, cold
? (1)	major		
MARBLE		MUG	
Type of limestone (30)	table (9), statue (3), floor (3), stone (2), granite (2), fireplace, tile, block, hard, slab, sink, arch, grind, mantle, cake, candy	Container (33)	beer (10), coffee (7), cup (5), glass (3), pottery, stein, jug, pitcher, jar, warm, drink, shaving
Small, hard ball (15)	shoot (3), glass (2), play (2), game (2), round (2), colored, ball, cat's eye, blue	Assault (7)	rob, New York, hit, stick-up, shoot, rape, wallet
N/R (1)		Face (4)	shot (2), picture, face
		? (2)	rug, loose
MATCH		NET	
Pair together (23)	game (7), mix (3), maker (2), choose, colors, alike, set, together, miss, sure, mate, good, up, catch	Mashed fabric (37)	tennis (11), fish (11), ball (3), basket-ball (2), serve (2), badminton, hair, butterfly, cord, holes, catch, game, sweat
Ignite (22)	fire (6), light (5), book (3), strike (2), box (2), stick, incendiary, cover, cigarette	Remainder (9)	weight (3), worth (2), left-over, two, asset, earnings
N/R (1)			
MEAN		NOTE	
Unkind (32)	nasty (10), nice (3), bad (2), mad (2), cross (2), man, hateful, hard, kind, dog, happy, machine, snake, ugly, good, wicked, word, Joe Green	Memo (33)	book (12), write (3), card (3), letter (3), class (2), paper (2), message (2), mark, take, pencil, exam, memo, pad
Average (13)	average (8), mode (2), standard deviation, median, measure	Musical tone (6)	music (4), musical, single
Intend (1)	understand	Observe (4)	important, worthy, number, this
		? (1)	rote
MIND		N/R (2)	
Consciousness (39)	brain (11), matter (8), think (4), game (4), control (2), head (2), boggle, cognition, intellect, soul, close, thoughts, psychology, abstract	NOVEL	
Obey (3)	good (2), obey	Book (41)	book (27), read (12), chapter, best
? (2)	find, yes	New (5)	new (2), marvel, unusual, stimulus
N/R (2)			
MINE		NUT	
Possession (29)	yours (22), belonging, ours, his, my, selfish, pen, mind	Shelled fruit (29)	shell (4), squirrel (4), eat (3), walnut (2), tree (2), cracker, crack pecan, fruit, food, bread, hard, almond, peanut, pea, cake, chest, cashew, Brazil
Excavation (12)	coal (5), gold (2), shaft (2), dig, ore, salt	Eccentric person (8)	house (2), crazy, weirdo, weird, square, person, dumb
Explosive device (3)	field, land, sweep	Hardware (7)	bolt (7)
? (2)	fine (2)	? (1)	ball
		N/R (1)	
ORDER		ORDER	
		Organization (19)	law (4), rank (4), chaos (2), sequence (2), mess, papers, fix, file, neat, day, species

Table 2 (Continued)

Request (16)	food (3), form (3), now (2), cook, more, blank, pizza, "ask for," "two burgers and a coke," number, mail	Searching look (5) ? (3)	look (2), in (2), peep beer, steer, dock
Command (10) ? (1)	command (5), court (3), demand, call truth	PEN Writing tool (39)	pencil (16), write (10), ink (5), knife (3), pal (2), paper (2), ball pig (3), crib warm, spend
ORGAN Musical instrument (29)	music (10), piano (7), grinder (3), player (2), play (2), instrument, church, pipe, mouth, Hammond	Enclosed area (4) ? (2) N/R (1)	
Anatomy (17)	body (4), ear (3), sex (2), liver (2), heart (2), intestine, penis, lungs, kidney	PERCH Sit (25) Fish (18) ? (1) N/R (2)	bird (15), sit (9), on fish (18) belch
PACK Luggage (37)	back (17), trip (3), rat (3), horse (2), mule (2), camping (2), hike (2), clothes, walk, move, leave, knap, bag	PET Domestic animal (38)	dog (24), cat (4), animal (3), store (2), food, fun, fish, mouse, mice pat, love, feel, caress milk (3) peeve
Group (8) N/R (1)	wolf (3), dogs (2), cigarette, beer, motorcycle	Fondle (4) Brand name (3) ? (1)	
PAGE Paper (40)	book (15), paper (5), one (4), number (4), turn (3), yellow (2), novel, read, two, news, first, nine, turner	PITCH Throw (31)	throw (13), ball (9), baseball (2), hit (2), toss (2), curve, game, catch
Servant (1) Call for (1) ? (3) N/R (1)	servant intercom Ann, Bryant, rage	Frequency (8) Persuade (3) Erect (1) Resin (1) ? (2)	sound (2), voice, tone, even, sing, under, high sell, sales, line tent sap hitch, ditch
PANEL Section of a surface (24) Group of people (20) ? (1) N/R (1)	wood (7), wall (6), truck (4), display (2), wagon, dash, button, closet, room discussion (6), group (2), debate (2), question(s) (2), experts, gossip, judge, people, board, host, quiz, jury Mantel	PITCHER Container (24) Baseball (21) N/R (1)	glass (5), milk (4), water (4), container (3), "kool aid" (2), beer (2), glasses, sangria, drink, plant throw (5), baseball (4), catcher (4), game (2), ball (2), mound (2), Yankee, catch
PASS Go by (18)	go (3), out (3), over (2), up (2), bridge, leave, under, by, turn, B7, "let by," ball	PLAIN Simple (35)	fancy (5), ordinary (4), Jane (4), simply (2), different, mousey, average, simple, uninteresting, truth, white, clothes, common, folk, blah, drab, air, complex, homely, custard, bare, neat, clear, exceptional
Transfer (13)	football (3), throw (3), forward (2), give (2), touch, catch, receive	Prairie (10) ? (1)	flat (2), plane, mountain, old, field, Indian, desert, grass, straight chain
Successful completion (6) Ticket (5) Narrow opening (2) ? (1) N/R (1)	fail (4), course, class ticket, port, weekend, permit, privilege mountain (2) a-grille	PLANE Airplane (30) Flat surface (8) Carpentry tool (4) ? (4) PLOT Piece of ground (16)	fly (11), air (9), sky (2), airport, takeoff, propeller, land, ticket, trip, crash, jet straight, level, horizon, surface, geometry, point, area, smooth shave, cut, carpentry, sand fancy, dress, simple, Indians
PAT Gentle tap (29)	back (5), touch (4), pet (4), tap (4), strong (2), caress (2), like, head, down, hit, scratch, fondle, hat, hug	Conspiracy (13) Story (9)	ground (6), land (5), cemetery (2), garden, soil, corn plan (6), kill (3), steal, assassination, destroy, trick story (5), subplot, novel, movie, thickens
Name (14)	Nixon (4), Boone (2), Zurflich, brother, name, girl, roommate, friend, Helen, Mike		
Exactly suitable (1) ? (1) N/R (1)	perfect bat		
PEER An equal (38)	group (13), friend (11), equal (4), person (2), age, less, professional, counseling, student, level, teacher, comrade		

Table 2 (Continued)

Graph (7) N/R (1)	graph (5), course, dots	PRESS Compress (26)	iron (10), hard (4), push (2), pull (2), compress, shirt, squash, dress, mash, against, leaf, button
POACH Cooking (27) Hunt illegally (18) ? (1)	egg (26), boil steal (13), hunt (2) take, possum, kangaroo coach	Printing (20)	newspaper (5), news (5), printing (4), reporter, book, paper, journal, agent, stop
POKER Card game (43)	chips (14), cards (9), game (8), face (4), hand (2), player (2), jack, ante, joker, stake	PRUNE Dried fruit (37)	juice (10), fruit (7), wrinkled (5), pit (3), face (2), sauce, cocktail, Danish, eat, dried, constipated, plum, raisin, crap, shit
Metal rod (3)	fire (2), fireplace	Cut (6) ? (2) N/R (1)	trees (3), cut, trim, pick swoon, cold
POOL Swimming (32)	swim (19), water (7), cool (2), slide, sun, party, swimmer	PUNCH Strike (25)	hit (9), Judy (4), nose (3), out (2), first, job, slug, card, mouth, bag, hurt bowl (4), drink (4), fruit (2), Hawaiian (2), planters, ball, juice, drunk, apple, vodka, party, wet bunch
Billiards (13) ? (1)	cue (3), hall (3), table (3), play, room, game, billiards ear	Drink (20)	
PORT Harbor (30)	ship (10), boat (3), Tampa (2), Ever- glades (2), harbor (2), authority, entry, Arthur, of, sea, o'call, water, sailor, cove, air, voyage	? (1)	
Ship's side (9) Beverage (6) ? (1)	starboard (5), right, side, hole, left wine (4), brandy, tawny court	PUPIL Student (26) Eye (20)	student (19), school (3), me (2), teacher, study eye (20)
POST Mail (25)	office (15), mail (4), man (3), master, letter, bonds	QUACK Sound (27) Charlatan (18) N/R (1)	duck (26), clack doctor (16), charlatan, physician
Pillar (13)	fence (3), hole (2), lean, pole, nail, column, display, whippin', pillar, time mortem (2), after, pre, operation	QUEEN Royalty (39) Homosexual (5) ? (1) N/R (1)	king (27), bee (5), Mary (2), aristocrat closet, drag, fairy, gay, queer Ellery
Following (5) Base (1) ? (2)	military hast, ghost		
POT Marijuana (24)	smoke (10), "grass" (5), marijuana (3), dope (2), flower, joint, plant, bad pan (4), stew (3), hot (2), cook (2), gold, soup, tea, stove, kettle, cooking, dirt, belly, utensil spot, dot	QUIVER Tremble (33) Arrow case (13)	shake (22), cold (3), shudder (2), scared, palpitate, afraid, shiver, tremble, lips arrow (9), bow (2), silver (2)
Container (20) ? (2)		RACKET Sport (41) Noise (3) Illicit business (1) ? (1)	tennis (26), ball (9), club (6) noise (3) gambling bracket
POUND Unit of weight (25)	cake (5), ounce (5), weight (4), meat, grass, heavy, sugar, loaf, water, ham- burger, ham, amount, pint, lb.	RAM Male sheep (32)	sheep (9), goat (6), horn (3), football (2), ewe (2), lamb, bull, Los Angeles, Pan, butt, April, Leo, Aries, ham, hill shove, push, hit, smash, damn, rod, jet, thrust, rage, pass, on, goal, jam, ocean
Hammer (13)	hit (4), beat (2), thump, out, nail, hammer, desk, bang, hound	Strike (14)	
Livestock enclosure (5) Monetary unit (2) N/R (1)	dog (5) England, shilling		
PRESENT Gift (21)	gift (13), Christmas (4), receive, box, give, birthday	RANGE Cooking stove (18) Horizontal distance (15)	oven (9), stove (8), hot width (2), statistics (2), high (2), spread (2), wide, reach, finder, alti- tude, distance, intensity, meters golf (3), home, space, horses, war, fire,
Current (15)	past (6), now (5), future (2), last, moment	Open area (12)	
At hand (8) ? (1) N/R (1)	absent (5), here (3) Nixon		

Table 2 (Continued)

N/R (1)	missile, ranch, pasture, rifle		wait, recuperate, nap, worst, bed, relaxation, heaven, work
RANK		Remainder (0)	
Row/sequence (37)	order (9), file (5), army (2), place (2), list (2), top, colonel, check, chief, serial, military, soldier, title, level, low, age, vacation, position, money, priority, first, high	? (12)	bird (8), egg (2), offspring, west
Offensive (6)	stink (2), odoriferous, smell, spoiled, rude	RIB	
? (2)	hank, steel	Curved support (42)	Adam (9), cage (7), steak (4), eye (3), chest (3), bone (3), Bar-B-Q (3), eat, spire, pork, break, slab, meat, heart, chew, cracked, roast
N/R (1)		Tease (2)	rub, joke
RARE		N/R (2)	
Scarce (31)	unusual (6), diamonds (2), bird (2), unique (2), valuable (2), earth (2), few (2), scarce, gem, divine, book, find, expensive, coin, seldom, common, abundant, novel, case, bit	RIDDLE	
Incompletely cooked (15)	steak (6), medium (4), meat (3), well-done, hare	Conundrum (39)	joke (15), puzzle (8), rhyme (4), question (3), game (3), solve (2), truth, this, me, poem
RARE		Perforate (1)	holes
Scarce (33)	unusual (5), unique (4), coin (3), earth (2), common (2), diamond, love, exotic, bird, book, find, antique, occasion, few, gem, expensive, abundant, novel, plenty, UFO, redundant, money	? (4)	Nelson, fiddle, none, charm
Incompletely cooked (10)	steak (4), meat (2), well-done, medium, hare, bit	N/R (2)	
? (2)	back, fare	RIGHT	
N/R (1)		Correct (24)	wrong (22), on (2)
RASH		Direction (22)	left (20), hand, arm
Skin irritation (42)	red (6), heat (6), itch (6), measles (4), hive (3), skin (3), bumps (2), poison (2), diaper, allergy, sore, redden, irritation, break, break-out, scratch, leg, "2°"	RING	
Reckless (4)	brash (2), harsh, hasty	Circular object (28)	finger (7), diamond (6), round (3), wedding (2), circle (2), circus (2), around, marry, opal, gold, jewelry, bought
RECORD		Sound (16)	bell (11), bicycle, sound, loud, rang, ding
Phonograph (32)	player (9), music (5), play (3), tape (2), album (2), listen, phonograph, changer, label, shop, store, table, sound, Bob Dylan, jockey, dance maker, everything, write, talk, G.P.A., top, world, on	Group (1)	leader
Account of events (8)		N/R (1)	
N/R (6)		ROAD	
REEL		Path (45)	runner (6), street (5), drive (5), travel (4), sign (3), dirt (2), car (2), hug, asphalt, shell, narrow, barrier, wind, track, pavement, to Rio, work, curves, go, test, run, SR 581, map, highway
Spool (43)	rod (15), fish (11), fishing (10), in (3), movie, recorder, roll, tape	N/R (1)	
Dance (1)	Virginia	ROCK	
Swaying motion (1)	train	Stone (29)	stone (5), hard (5), heavy (2), pile, big, garden, ages, boulder, hammer, gem, sand, pebble, shell, bottle, salt, pet, minerals, river, throw, hunter
N/R (1)		Music type (15)	roll (7), music (5), market, dance, star
RELISH		? (1)	sock
Pickles (36)	pickle(s) (12), hot dog (11), tray (2), garnish (2), mustard (2), radish, dish, hot, hamburger, vegetable, food, jam	N/R (1)	
Savor (10)	enjoy (3), like (2), me, savor, you, love, treasure	ROLL	
REST		Tumble (23)	down (3), over (3), log (2), tide, turn, stop, ball, dirt, joint, out, play, dog, a-coaster, on, tumble, hill, along, dice
Repose (34)	sleep (13), relax (7), tired (5), go,	Bread (12)	butter (4), bread (4), eat, bun, food, dinner
		Reverberating sound (7)	rock (5), pitch, stomach
		Listing (2)	call (2)
		? (1)	hold
		N/R (1)	
		ROOM	
		Space (44)	class (8), house (4), bed (3), bath (2), space (2), door (2), live (2), hall (2), crowded, cold, small, large, apartment,

Table 2 (Continued)

	curtain, mirrors, dorm, ball, place, mate, two, freshen, board, day, empty, study, sleep, place	SCALE Measure (39)	
N/R (2)		Climb (2)	weigh (14), weight (12), measure (3), down (2), music (2), judge, hundred, inch, sing, musical, note
ROOT		Epidermis (4)	climb (2)
Base (41)	tree (12), beer (7), plant (6), potatoes (2), evil (2), square, tall, bottom, legume, doctor, stem, ground, hair, tap, word, earth, source	? (1)	fish (3), skin
		SCRAP	Hale
Rummage (1)	pig	Fragment (41)	iron (6), junk (6), paper (5), meat (4), metal (3), book (3), waste (3), sew, extra, grease, trash, dog, garbage, city, food, piece, left-over, crap
? (2)	hoot, shoot		fight (3)
N/R (2)		Quarrel (3)	snap
ROSE		? (1)	
Plant (44)	flower (19), red (9), bush (4), smell (3), petal, plant, hips, queen, daisy, thorn, wine, bud, sweet	N/R (1)	
Rise (2)	hop, stein	SCREEN	
		Partition (32)	window (8), door (7), porch (4), bug (3), out (2), cover (2), wire, play, net, silk, gem, flies
ROW			movie (5), film (3), printing, print, projector, test
Propel (27)	boat (23), oars (2), fish, paddle	Project (12)	preen
Straight line (18)	column (6), field (2), hoe, series, aisle, seat, seven, two, 3rd, line, sew, seats	? (1)	
Quarrel (1)	angry	N/R (1)	
RULER		SEAL	
Measurement (36)	measure (21), twelve (2), number (2), foot (2), inches, slide rule, staple, geometry, pencil, stat, yardstick, desk, length	Animal (23)	animal (6), lion (3), ball (2), water (2), swim, bark, fish, black, seaquarium, mammal, sea, cold, clap, sea lion
Govern (9)	king (7), emperor, kingdom	Close (14)	close (4), letter (2), lick (2), open, protect, it, kiss, wrap, tight
? (1)	none	Emblem (5)	corporate, Easter, approval, Florida, affix
RUNNER		? (3)	peal, start, take
Race (44)	track (5), road (5), fast (4), distance (3), mile (2), race (2), up (2), athlete (2), sprint (2), walker, mail, ran, person, mark, grass, slow, base, quarter-back, jogger, swimmer, run, message	N/R (1)	
	marathon, football, gun, miler	SECOND	
Narrow covering (1)	rug	Time (25)	minute (12), time (6), short (2), tick, millisecond, split, less, one
N/R (1)		Ordinal position (21)	first (8), third (4), chance (2), place (2), guess, syllable, best, hand, helping
SACK		SET	
Bag (43)	potato (12), race (5), bag (5), back (3), burlap (2), grain (2), cloth (2), lunch (2), nap, stack, loose, brown, wine, flour, tie, hold, up, mill	Place (26)	up (4), hair (3), down (3), place (3), back (2), sit (2), hen, pain, put-on, rigid, close, on, table, screw, get
Bed (3)	bed (2), time	Collection (11)	collection (2), group (2), theory, match, math, chess, tennis, china, decision
SAP		Receiver (6)	TV (6)
Fluid (38)	tree (23), pine (2), maples, spring, "life-giving liquid," "maple syrup," resin, strength, blood, pitch, rubber, life, sip, syrup, plants	? (2)	met, still
Stupid person (4)	sucker (2), POW, dope	N/R (1)	
? (1)	rap	SHARE	
N/R (3)		Portion (44)	give (7), alike (3), stock (3), cropper (3), food (2), crop (2), fair (2), equal (2), money (2), generous, cookies, children, split, toys, "give and take," part, holders, help, land, parcel, trust, kind, lend, friendship, bread, bonds, yes
SAW			equipment
Cutting tool (31)	hammer (6), cut (6), wood (6), horse (3), tool (2), chain (2), carpenter, stool, shop, sharp, blade, rip	Plow (1)	
Observed (12)	see (9), came, eye, seen	N/R (1)	
Proverb (1)	adage	SHARP	
? (2)	buck, order	Pointed (40)	pointed (11), dull (7), knife (6), teeth

Table 2 (Continued)

Clever (3) Pungent (2) ? (1)	(4), blunt (2), cut (2), pencil (2), soft, axe, stick, object, edge, point keen (3) cheese, awful harp	Signature (17)	(2), signal, information, hands, detour, street, stimuli, traffic, post, negative, read, Aries, see, highway, omen, painter name (8), signature (2), line (2), up, autograph, document, write, paper
SHED Throw off (25)	skin (5), hair (4), remove (2), light (2), went, lose, leave, feathers, grace, coat, hold, fell, drop, "get out of," lawn, birds	SINK Basin (26) Descend (20)	kitchen (8), dishes (8), wash (4), soap (2), leak, bathroom, drink, cleaner fall (3), ship (3), water (2), down (2), boat (2), swim (2), Bismark, well, hold, float, line, under
Shelter (19) ? (1) N/R (1)	tool (3), barn (3), storage (2), wood (2), hut (2), lean-to, house, cow, backyard, horse, building, store yes	SKIRT Garment (39) Border (4) ? (3)	dress (15), hem (4), short (4), blouse (3), clothing (3), pants (2), slip (2), full, mini, passe, wear, slacks, legs around, table, edge, control skirt (3)
SHELL Outer covering (41)	sea (10), beach (8), fish (5), oil (5), feet, macaroni, game, crab, egg, sand, outside, road, outer, rock, clam, collec- tion, hard	SLAB Flat, thick piece (42)	concrete (11), stone (4), meat (3), rock (3), marble (3), morgue (2), cement (2), rib (2), granite (2), body, tomb stone, skate, piece, plot, grave, cold, flat, paint, metal
Explosive (3) ? (1) N/R (1)	mortar, casing, shock constant	? (3) N/R (1)	crab, blab, lab
SHIFT Change position (30)	change (11), gear (9), car (3), move (2), alter (2), rearrange, sands, less work (5), job, third, graveyard	SLIDE Slip (37) (Verb)	slip (10), rule (6), down (4), door (3), fall (2), sled, move, easy, under, children, home run, snow, safe, roll, playground, board, glide
Work period (8) Chemise (7) Trick (1)	dress (3), skirt (2), slip, clothes cheater	Image plate (9)	projector (3), picture (2), microscope, camera, show, film
SHIP Boat (43)	boat (10), sail (9), water (4), vessel (3), sea (2), ocean (2), port (2), shore (2), shape, big, carrier, dock, fleet, ahoy, mast, fools, tree	SLING Weapon (34) Supporter (11)	shot (20), arrow (4), throw (3), shoot (2), fly, rubber, fling, hit, mud arm (4), cast (3), broken (2), injury, rope
? (2) N/R (1)	flip, shop	N/R (1)	
SHOOT Discharge (45)	gun (13), kill (6), bird (3), out (2), bull (2), fire (2), bang (2), down (2), retrieve, sport, hunt, bear, over, star, turkey, skeet, dice, hit, ducks, pool, buffalo	SLIP Slide (32) Clothes (11)	fall (14), slide (7), on, bath, banana, knot, sink, slop, down, slap, mistake cover (2), undergarment (2), clothes (2), lingerie, show, skirt, shop, miss paper (3)
? (1)	hoot	Specialized paper (3)	
SHOT Discharge (26)	gun (15), kill (3), hurt (2), fired, far, at, sheriff, hit, bullet	SLUG Hit (20)	hit (12), boxer, fight, first, punch, bat- ter, mug, swing, hug
Medical (7)	arm (2), blood, allergy, helpful, rabies, injection	Mollusk (12)	worm (4), snail (3), "ugh," rain, garden, bug, hate
Liquor (6) Athletic (3) Attempt (3) Ruined (1)	whiskey (4), jigger, bourbon put, sling, discus dark (3) worn	Bullet (11) Liquor (1) N/R (2)	bullet (8), gun, shot, plug whiskey
SHOWER Bathe (40)	clean (7), water (6), bath (5), wash (4), stall (3), curtain (2), soap (2), wet (2), powder, off, head, often, body, nice, two, nozzle, tub	SOCK Garment (39) Strike (6) N/R (1)	shoe (20), foot (12), feet (3), white, Christmas, hold, food hit (3), punch, it, jaw
Light rain (6)	rain (3), cool, flower, April	SOLE Bottom surface (27)	foot (13), shoe (12), heel, rubber
SIGN Symbol (29)	stop (6), neon (3), road (3), language		

Table 2 (Continued)

Fish (12)	fish (10), filet (2)	STABLE	
Single (3)	single, alone, only	Shelter (36)	horse (29), barn (2), animals, cow, straw, stall, smell
? (3)	soul, fool, sin		
N/R (1)		Secure (8)	shake (2), firm, me, mate, buddy, irrational, able
SOW		? (1)	cheer
Female pig (24)	pig (18), cow (4), fat (2)	N/R (1)	
Spread (verb) (19)	reap (8), farm (4), seed (3), plant, hoe, oats, plow	STAFF	
? (2)	low, cloth	Specialized group (31)	faculty (6), meeting (5), member (5), group (2), car (2), sergeant, colleagues, workers, work, doctor, helpers, secretaries, professor, chief, room, teachers
N/R (1)			stick (3), rod (2), cane, flag, pole, Moses, life
SPADE		Pole (10)	music, line
Shovel (22)	shovel (14), dig (2), hoe (2), garden, tool, sand, dirt	Music (2)	lane (2)
Card suit (22)	black (7), cards (6), ace (4), club (2), diamond, heart, nigger	? (2)	
? (1)	made	N/R (1)	
N/R (1)		STAGE	
SPEAKER		Platform (38)	fright (6), actor (6), act (5), door (4), play (4), acting, platform, writer, show, stop, "Act I," game, theatre, production, curtain, crew, hand, perform
Speech maker (28)	lecturer (4), guest (4), listener (3), teacher (3), house (2), talk (2), voice, stage, bore, orator, listen, lecture, topic, talker, podium, McCormick		coach (6)
Musical (15)	stereo (6), loud (2), hi-fi, acoustic, sound, noise, wires, cone, big	Vehicle (6)	rage
? (2)	no, meeker	? (1)	
N/R (1)		N/R (1)	
SPELL		STAKE	
Orthography (37)	words (15), correctly (7), bee (4), English (2), write (2), number, out, error, I, game, school, well	Post (38)	ground (4), Dracula (4), out (3), stick (3), wood (3), vampire (2), post (2), wooden (2), pole (2), heart (2), hang, nail, board, kill, burn, tent, peg, tomato, throat, lots, make
Supernatural event (8)	bound (2), bad (2), cast (2), witch, trance	Property (2)	bet, claim
N/R (1)		? (6)	vane, eat, take, steak, shake, beef
SPREAD		STALK	
Diffusion (36)	butter (15), jam (4), bread (4), legs (2), smooth (2), sandwich (2), pour, eagle, wise, mustard, dip, out, Playboy	Pursue (31)	hunt (12), prey (6), follow (2), catch (2), walk, pursue, leopard, stealth, chase, tiger, plot, lion, shoot
Cloth cover (5)	bed (4), satin	Plant stem (13)	corn (6), celery (3), asparagus, tree, forest, sheath
Ranch (3)	Texas, soil, ranch	? (2)	balk, filet
? (1)	Fred	STALL	
N/R (1)		Compartment (32)	horse (25), farm, garbage, "small area," shower, barn, hall, bathroom
SPRING		Delay (12)	wait (3), go, stop, delay, hold, plane, car, choke, bluff, "put-off"
Season (27)	summer (6), flowers (4), winter (2), fall (2), training (2), autumn, pretty, leaves, beautiful, time, now, break, bean, trees, enthusiasm, fresh	? (1)	all
Coil (15)	board (3), bounce (2), bed (2), mattress (2), sprung, wire, tense, leap, jump, open	N/R (1)	
Water source (2)	water, well	STAMP	
? (1)	string	Postage (38)	letter (7), mail (7), postage (6), lick (5), collector (2), collection (2), collect, need, envelope, expensive, gas, paper, affix, post, duck
N/R (1)		Stomp (8)	down (2), out, on, rubber, money, shoe, approval
SQUARE		STAND	
Plane figure (39)	round (16), circle (7), dance (3), rectangle (2), shape, Latin, cylinder, blocks, city, box, triangle, inch, four, deal, table	Position (40)	sit (17), up (9), by (3), fall (2), erect (2), upright (2), for, out, tall, feet, firm
Personality (3)	people (2), parent	Structure (6)	tire, ice cream, set, music, night, desk
Root (3)	root (3)	STAPLE	
N/R (1)		Binder (29)	gun (15), paper (4), together (3), page

Table 2 (Continued)

Chief commodity (12)	(2), attach, machine, clip, nail, fasten food (5), bread (2), goods, flour, diet, sugar, maple	Prison (1)	glass, water, candy, swizzle stick crazy
? (4)	horse, room, singers, bird	STOCK	
N/R (1)		Supply (36)	market (9), bonds (5), supply (3), exchange (2), holder (2), boy (2), money (2), cows (2), fix up, business, beef, animals, merchandise, extra, item, take, room
STAR		Support (5)	barrel (3), block, shoe
Heavenly body (40)	sky (10), bright (5), heavens (3), trek (3), moon (2), planet (2), shine (2), Arcturus, wish, dark, nova, galaxy, sun, David, north, "Big Dipper," spangled, system, far, Orion	Original (4)	car (2), bred, first
Prominent performer (6)	piano, born, player, quarterback, music, struck	? (1)	Jamie
STATE		STORE	
Territory (37)	Florida (12), fair (6), union (3), city (2), country (2), Texas, New Orleans, Michigan, highway, government, bird, Indiana, Kansas, Ohio, Oklahoma, Tennessee, federal	Market (33)	grocery (6), buy (6), keeper (5), food (4), bought (2), A & P, owner, 7-11, Maas Brothers, market, country, watch, general, open, merchandise house (4), room (3), money (2), save (2), in, more
Status (7)	condition (2), square, affair, be, "of mind," consciousness	Supply (13)	
Say (2)	case, tell	STORY	
STEEP		Fable (43)	book (11), tale (7), teller (5), tell (4), novel (2), read (2), fable (2), fairy, short, child, writer, joke, moral, bad, good, write, telling
Incline (42)	hill (11), incline (6), high (5), slope (4), climb (3), mountain (2), sharp (2), steps, tall, narrow, heap, grade, church, steeple, cliff, pit	Elevation (2)	building, floors
Brew (2)	brew, tea	N/R (1)	
? (2)	throat, keep	STRAIN	
STEER		Effort (30)	stress (6), work (3), try (2), brain (2), muscle (2), hard (2), back (2), lift, sprain, hardship, tax, hear, struggle, stretch, effort, labor, train, mental food (2), honey, screen, sift, straw, drink, noodles, juice, mesh, tea, water type, virus, bacteria, culture
Ox (34)	cow (15), beef (5), cattle (5), bull (4), food, calf, horns, cowboy, castrate	Filter (12)	
Direct (10)	car (4), drive (2), wheel, lead, guide, away	Ancestry (4)	
N/R (2)		STRAW	
STEW		Grain (30)	hat (18), hay (5), stable, yellow, hay-stack, bedding, floor, turkey, horse last (3), man (2), dog, testy
Food (46)	beef (22), food (6), meat (4), pot (3), potato (2), vegetable (2), fish, cook, Irish, meatballs, eat, carrots, hash	Worthless (7)	drink (4), sip
STICK		Drink (5)	berry (2), stretch
Rod (30)	ball (5), shift (4), wood (4), branch (2), cane (2), dog, stone, stir, tree, limb, club, pin, guns, throw, drum, fence, man, dip	? (3)	
Adhesive (11)	gum (4), stuck, slip, gooie, mud, on, good, tire	N/R (1)	
Jab (5)	kick, punch, hit, up, poke	STRIKE	
STILL		Hit (34)	hit (19), out (4), ball (2), hard (2), three (2), one, blow, down, spare, violence
Stationary (34)	quiet (7), water (6), calm (3), dead (2), active (2), life (2), hard, unmoving, silent, house, same, fast, here, bound, shallow, agitated, listless, mountain whiskey (4), booze (3), liquor, mill Stephen, Nash	Stop work (10)	union (3), picket (2), wages, hike, "on strike," Busch, work
Distillery (9)		N/R (2)	
? (2)		STRIP	
N/R (1)		Undress (26)	naked (3), joint (2), tease (2), undress (2), clothes (2), disrobe (2), off (2), poker (2), nude, now, see, take-off, peel, down, pull-apart, bare, mine piece (2), bacon (2), steak (2), tear (2), land (2), enamel, wood, zebra, line, thin, sirloin, comic, stripe, door, film
STIR		Narrow piece (20)	
Agitate (45)	mix (16), coffee (5), pot (3), move (3), spoon (2), up (2), fry, bubble, fudge, drink, burn, rotate, cook, boil, soup,	SUIT	
		Clothing (45)	clothes (12), tie (6), dress (5), shirt (3), case (3), conservative, neat, man, sweat, tux, fit, skirt, coat, up, wear,

Table 2 (Continued)

? (1)	brown, swim, best, jacket, dirty, office shoot	Inclination (14)	lean (4), spend (2), toward, trend, likely, habit, move, direction, think, inclination lend, tent
SWALLOW		? (2)	
Ingest (30)	throat (7), water (5), gulp (4), fish (2), eat (2), choke, chew, milk, up, mouth, digest, hard, spittle	N/R (2)	
Bird (15)	bird (14), tail	TERMINAL	
N/R (1)		End (45)	end (12), train (7), cancer (6), bus (4), airport (3), illness (3), death (2), goal, man, stop, course, fly, computer, final, last wire
SWAMP		Electrical (1)	
Marsh (40)	water (6), alligator (5), mud (4), Everglades (4), bog (2), muck (2), dismal, murky, gators, hunt, fox, fever, mush, buggy, marsh, messy, foggy, mosquito, lagoon, bugs, watery, yearling	TICK	
Overwhelm (5)	shake (2), work, canoe, overload	Sound (24)	tock (10), clock (6), tac(k) (4), sound, hear, time, click
N/R (1)		Parasite (19)	flea (7), dog (5), bug (2), mite (2), insect, mad, off
SWITCH		Movement (1)	superstitious
Device (29)	light (12), blade (6), on (4), TV (2), off (2), board (2), train	? (1)	Dick
Transference (10)	change (6), turn, turnabout, trade, over	N/R (1)	
Twig (5)	hit, punish, swat, stick, me	TIE	
? (1)	band	Knot (45)	know (8), bow (7), shirt (6), suit (3), neck (4), shoe (2), coat (2), dye, formal, thread, blue, hold, clip, cord, ribbon, knob, down, wife, clothes, tack win
N/R (1)		Draw (1)	
TAB		TIP	
Drink (21)	drink (9), coke (7), soda (3), can, diet	Edge (26)	top (7), end (4), hat (3), toe (3), turn (2), pool cue, dump, pin, pen, glass, flip, touch
Charges (10)	bill (4), check (2), tablet, ticket, leave, credit	Gratuity (14)	money (5), waitress (2), waiter (2), pay, 15%, bar, maid, restaurant
Flap (7)	pull (3), paper, file, beer, bit	Advise (5)	point (2), off (2), hint
Tabulator (2)	typewriter, type	N/R (1)	
Name (3)	Hunter (3)	TIRE	
? (1)	slap	Automobile (41)	car (11), flat (8), iron (4), wheel (3), care (2), mark (2), blowout, Goodyear, rubber, tube, truck, bald, radial, spin, wear, tool, waist
N/R (2)		To fatigue (5)	easily (2), rejuvenate, fatigue, fire
TAG		TOAST	
Label (36)	license (5), car (5), dog (4), mark (3), name (3), number (2), it (2), identify (2), auto, label, deer, Xmas, shirt, cloth, collar, shoes, file, plate	Bread (41)	bread (14), butter (5), breakfast (5), burnt (3), jam (3), toaster (2), cook (2), brown (2), coffee, milk, cinamon, jelly, roast
Touch (10)	game (3), team (2), play, children, along, catch, touch	Drink to (4)	drink (3), town
TAP		N/R (1)	
Strike lightly (27)	dance (8), hit (3), touch (3), back (2), fingers (2), drum, thump, pat, shoulder, tip, pencil, desk, strike, rap	TOOL	
Spigot (15)	water (8), beer (3), sink, spring, keg, pub	Instrument (46)	hammer (9), shed (6), dye (3), work (3), instrument (2), wrench (2), kit (2), screwdriver, object, mend, box, hardware, good, rod, rock, shop, utensil, calculator, rake, awl, wheel, leather, fix, fool, saw, artifact
Borrow (1)	out	TRACE	
? (1)	clothes	Follow (19)	follow (3), trail (2), find (2), track (2), shooting, check, fire, out, trackdown, see, police, path, evidence, elementary
N/R (2)		Copy (19)	outline (4), draw (3), picture (2), paper (2), line (2), cheat (2), copy, over, face, finger
TAX			
Fee (45)	income (8), money (7), collector (5), pay (3), man (3), government (3), cut (3), evasion (2), bite, deduction, penalty, credit, sales, dollar, cost, return, number, shelter, break		
? (1)	ax		
TEND			
Look after (28)	care (6), watch (4), do (4), cows (3), show (2), to (2), ignore, to go, cattle, attend, mind, give, mend		

Table 2 (Continued)

Minute quantity (6)	small, bit, memory, speck, element, chemical	VESSEL Ship (28) Vase (14)	ship (22), boat (5), navy container (5), vase (2), drinking, cup, tub, urn, carry, glass, contain blood (3) tressel
N/R (2)			
TRADE		Hollow tube (3) ? (1)	
Exchange (33)	exchange (6), barter (3), post (2), winds (2), off (2), give (2), made (2), baseball, wampum, turn, stamps, in, even, swap, sell, corner, share, stock, deal, draft, yes	WAKE Sleep (24)	sleep (8), up (8), morning (5), asleep (2), arise
Commerce (9)	mark (4), business, market, commerce, travel, name	Wave (9)	ship (2), slip, flood, boat, ocean, surf, water, wave
Craft (4)	union (3), work	Funeral (9) ? (3) N/R (1)	funeral (5), death (2), dead (2) fake (2), forest
TRAIN			
Railroad (37)	tracks (7), station (6), engine (5), whistle (3), car (3), stop, toy, coal, choo-choo, ride, travel, boat, plane, truck, freight, Europe, caboose, strain	WASH Cleanse (46)	clean (10), hands (4), dry (4), clothes (4), feet (2), up (2), dish (2), scrub (2), car (2), cloth (2), rag, cleanse, wear, face, self, basin, tub, soap, body, sink, hair, shower
Instruct (7)	teach (2), dog, learn, run, thought, organism		
? (2)	rain, Jordan		
TRUNK		WATCH Chronometer (28)	time (17), wrist (4), clock (2), hand (2), maker, gold, fob
Luggage (27)	car (6), box (6), suitcase (3), lid (2), traveling (2), clothes, luggage, locker, large, case, Saratoga, store, key	Observe (15)	watchdog (4), look (3), see (2), tower, out, observe, duty, me, listen
Main axis (9)	tree (8), chest	? (1) N/R (2)	chair
Prehensile proboscis (6)	elephant (6)		
Pants (1)	swim	WAX Paraffin (39)	floor (8), car (5), bees (3), shine (3), museum (2), slippery (2), candle (2), paper (2), shiny, polish, surfboard, board, figure, cleaner, sap, beauty, bar, slide, ears, skis
? (3)	skunk, drunk, bunk	Gradually grow (7)	wane (7)
TRUST			
Faith (30)	me (3), faith (3), truth (2), God (2), credible, believe, blind, mistrust, distrust, caring, obey, people, friend, loyal, gamble, honesty, judgment, like, togetherness, judge, nobody, love, must, rely upon	WEAR Habitually carry (36)	clothes (16), wash (5), dress (4), pants (2), apparel, top, slip, ring, jeans, shoe, don, under, loose
Property (12)	fund (5), bank (3), money (2), company, account	Erode (8) ? (1) N/R (1)	tear (4), out (2), ragged, off bear
? (2)	kick, knife		
N/R (2)			
TYPE		WELL Underground source (26) Positive state (20)	water (18), deep (3), wishing, oil, dig, dry, field sick (7), done (3), good (3), fine (2), get, wishes, dead, happy, trained
Print (34)	writer (12), write (5), print (4), error (4), letter (3), typist, ink, no, paper, elite, bell		
Ilk (12)	kind (5), blood, good, B-, style, person, crossmatch, file		
VAIN		WIND Air (42)	blow (15), breeze (4), sail (3), mill (2), north (2), rain (2), storm (2), cosmic, willows, beach, push, bag, soft, window, smooth, howl, song, cold, fall clock (3), up
Conceit (28)	conceited (5), proud (2), mirror (2), ego (2), self (2), showy, beauty, haughty, alright, stuck-up, peacock, sickening, you, skin, you're, success, pretty, fool, modest, glorious	To turn (4)	
Futile (6)	useless, hostile, allow, hope, in, futile	WORK Effort (35)	hard (10), play (10), loaf, relax, horse, through, toil, ethic, difficult, easy, detail, lazy, rest, bad, run, tired, labor job (4), money, shirt, days, employed
? (11)	arteries (2), weather (2), leg, shrimp, bain, blood, arm, gold, refrain	Employment (8) ? (2) N/R (1)	hard, cork
N/R (1)			
VAULT			
Chamber (36)	safe (17), bank (11), money (2), key, chest, coffin, box, safety, lock		
Jump (10)	pole (4), fault (2), jump (2), over, leap		

Table 2 (Continued)

YARN			(2), brown (2), flower, warm, dog,
Thread (34)	knit (10), thread (7), string (4), wool (4), ball (2), rugs, darn, cloth, booties, spool, weave, skein	Cowardly (2)	bird, journalism, fever, pad, paper, brick, sub
Fable (11)	tale (6), story (2), farm (2), fable	YIELD	chicken, back
? (1)	danger	Succumb (46)	give (12), stop (11), sign (5), right (4), give-in (2), slow (2), go (2), traffic, bend, allow, break, way, overcome, give-away, succumb
YELLOW			
Color (44)	color (7), blue (6), green (5), sun (4), cab (4), golden (2), mellow (2), taxi		

REFERENCES

- The American Heritage Dictionary of the English Language*. New York: American Heritage, 1973.
- CRAMER, P. A study of homographs. In L. Postman & G. Keppel (Eds.), *Norms of word association*. New York: Academic Press, 1970.
- GEIS, M. F., & WINOGRAD, E. Norms of semantic encoding variability for fifty homographs. *Bulletin of the Psychonomic Society*, 1974, 3, 429-431.
- KAUSLER, D. H., & KOLLASCH, S. F. Word associations to homographs. *Journal of Verbal Learning and Verbal Behavior*, 1970, 9, 444-449.
- NELSON, D. L., WALLING, J. R., & McEVOY, C. L. Doubts about depth. *Journal of Experimental Psychology: Human Learning and Memory*, 1979, 5, 24-44.
- PERFETTI, C. A., LINDSEY, R., & GARSON, B. *Association and uncertainty: Norms of association to ambiguous words*. Pittsburgh: University of Pittsburgh, Learning Research and Development Center, 1971.
- Rogel's International Thesaurus* (3rd ed.). New York: Crowell, 1962.
- SCHVANEVELDT, R. W., & MEYER, D. E. Retrieval and comparison processes in semantic memory. In S. Kornblum (Ed.), *Attention and performance VI*. New York: Academic Press, 1973.
- WOLLEN, K. A., COX, S. D., COAHN, M. M., SHEA, D. S., & KIRBY, R. F. Frequency of occurrence and concreteness ratings of homograph meanings. *Behavior Research Methods & Instrumentation*, 1980, 12, 8-15.

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