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HUMAN PERFORMANCE PREDICTION IN MAN-MACHINE SYSTEMS:

II. The Test Catalog

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FOREWORD

This report is the second of three volumes constituting the final technical report completed under National Aeronautics and Space Administration Contract NAS2-5038, "Human Performance Prediction Tests." Dr. R. Mark Patton was the NASA Ames Research Center Technical Monitor.

VOLUME II

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SECTION I. GUIDE TO THE TEST CATALOGUE

GUIDE TO THE TEST CATALOGUE

The Test Catalogue has been designed to provide access to socio-psychological dimension measurement information from either of two starting points. These two access points, 1) a test name (e.g., Spatial Orientation Test) or 2) a dimension name (e.g., Manual Dexterity), and the information flow are demonstrated below in Figure 1.

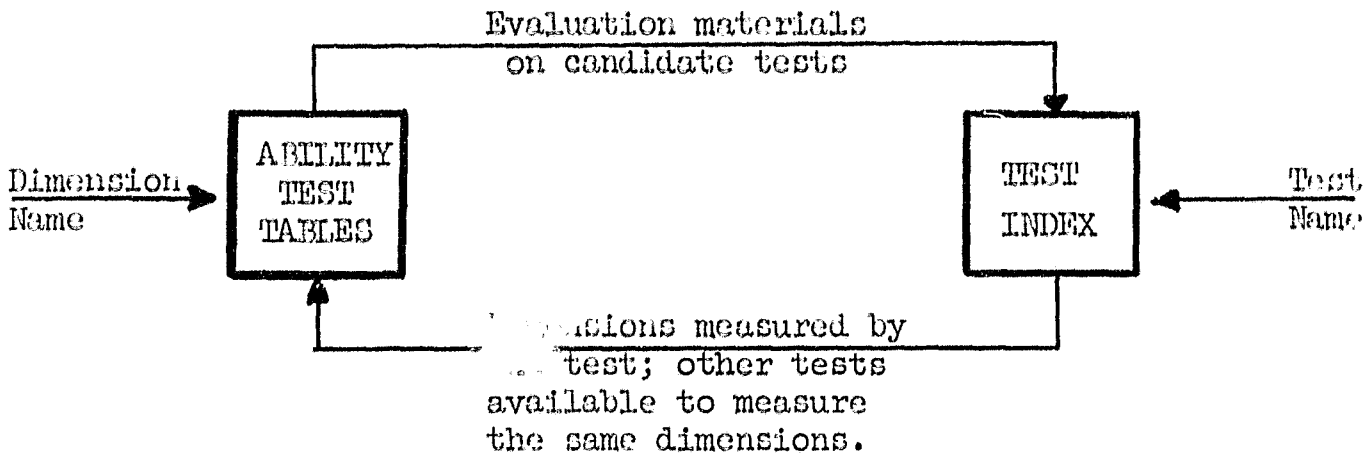

FIGURE 1. Information Flow Provided by the Ability-Test Tables and Test Index

1. Sociopsychological Dimension Name

The dimensions included in the Ability-Test Tables are listed in the Table of Contents. The tables have been organized with respect to these dimensions to allow answers to be obtained to the following questions:

1. What test instruments are either known (by factor loadings) or suspected (by correlations or similarities to other known tests) to measure a particular dimension?

2. What other dimensions do these tests also measure?

3. What descriptors have been used by other authors for apparently analogous dimensions?

A sample Ability-Test Table is given below to illustrate the location of answers to these questions.

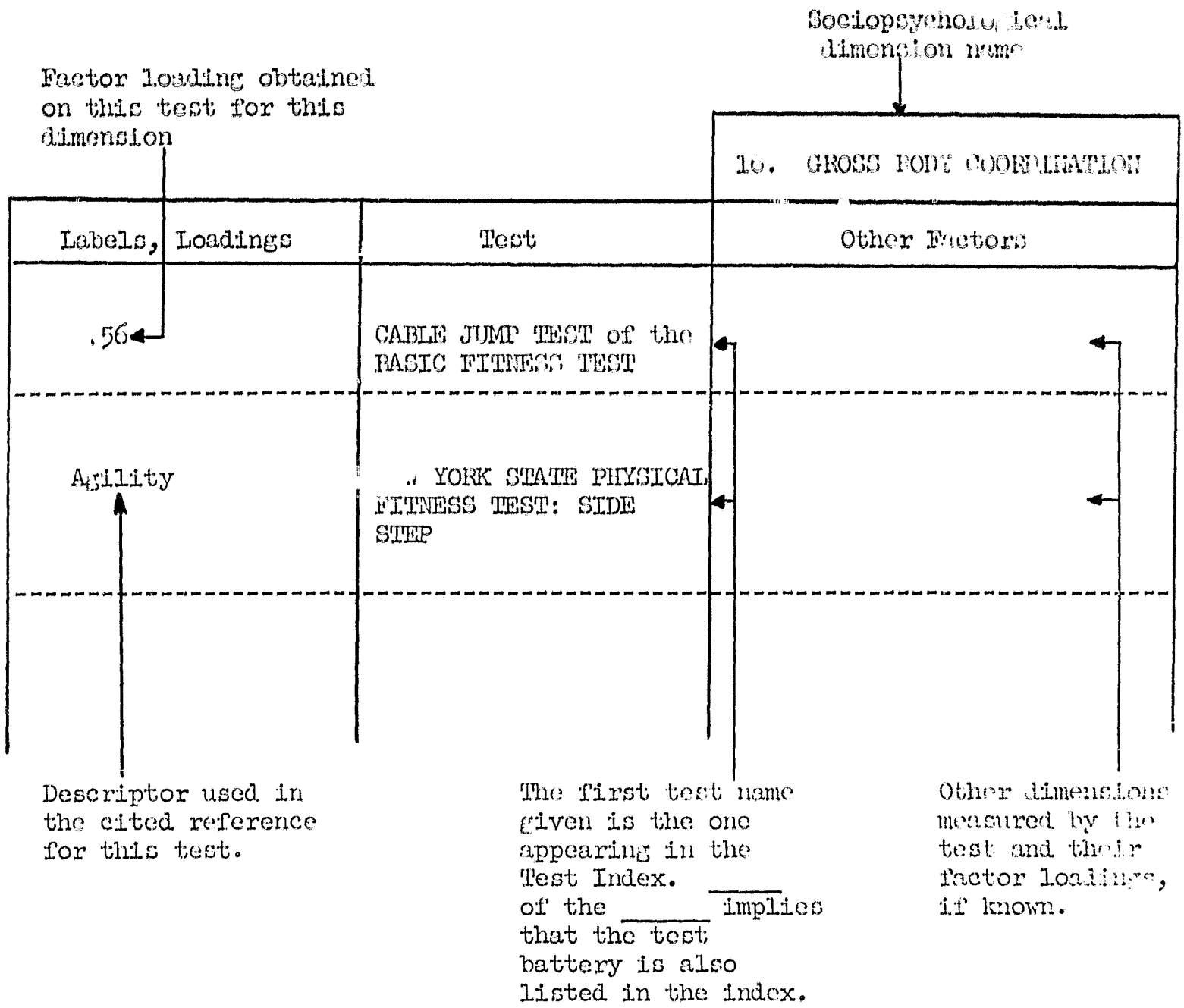

FIGURE 2. Sample Ability-Test Table

2. Test Name

The dimensional and bibliographic information available on each test has been organized in the Test Index with respect to the test names, alphabetically ordered. It is intended that this organization will: (1) allow reference to the Ability-Test Tables to discover what dimension

the test, or subtests, are considered to measure and (2) allow reference, by citation number, to the Annotated Bibliography of Volume III such that the potential value and cost of a candidate test for a particular situation can be appraised (final selection should, of course, be based on the original documentation).

Specifically, the test Index lists the following information, when available, for each test:

Ability dimension: the numbers, or name if no number was assigned, provide reference to the Ability-Test Tables. Usually only one of the dimensions measured will be listed except in the case of test batteries which were listed separately by subtest in the Tables. The absence of a number implies the test was not entered into the Tables. In this instance, direction to a similar test, which is listed, is usually given.

Costs: the numbers refer to citations located in the Annotated Bibliography which give very exact cost figures.

Data: those bibliographic citations which provide information on the norms, reliability data and validity data available on the test instrument.

Description: citations which present test instrument description (e.g., hardware), test content (e.g., test length and item description), and test administration procedures. Whenever possible, the cited references give sufficient detail to allow evaluation of what the test requires the examinee to do and of what the approximate cost will be in terms of materials and time.

Measures: citations which indicate what the test was considered by the author to measure or which give data, such as factor loadings or correlations, which empirically demonstrate what the test does measure.

Stress experimentation: those citations which report the use of this test in a stress situation and the effect of the stress on the test scores. Unfortunately, a great many of the stress and other experimental researches surveyed used relatively unique rather than standard test instruments. Therefore, several of the cited references in this and the following category used tests either similar in appearance to the test being indexed or disimilar tests which appeared to tap primarily the same dimensions.

Other experimentation: citations which describe the use of the test in other than stress situations. Special emphasis is given here to those studies which demonstrated any predictive relationships to performance. Key word identification has been used in both this and the above category to facilitate search efforts.

SECTION II. TEST INSTRUMENTS: ABILITY-TEST TABLES

		1. EXPLOSIVE STRENGTH: GENERAL
Labels, Loadings	Test	Other Factors
	AAHPER YOUTH FITNESS TEST: SIT-UPS	Dynamic strength, legs
	ARMY AIR FORCE PHYSICAL FITNESS TEST: SIT-UPS	
.62	GRASS DRILL	
.26	REVERSE SIT-UPS - TIME LIMIT	
.33	SIT-UPS - TIME LIMIT	Dynamic strength, legs .31

		2. EXPLOSIVE STRENGTH: LEG EMPHASIS
Labels, Loadings	Test	Other Factors
	AAPHER YOUTH FITNESS TEST: 40 YARD RUN, BROADJUMP, AND 50 YARD DASH	
	ARMY AIR FORCE PHYSICAL FITNESS TEST: 300 YARD SHUTTLE RUN	
	INDIANA MOTOR FITNESS TESTS: VERTICAL JUMP AND STANDING BROAD JUMP	
	JCR TEST: VERTICAL JUMP AND 100 YARD SHUTTLE RUN	Dynamic Strength, legs
	NEW YORK STATE PHYSICAL FITNESS TEST: 50 YARD DASH	Dynamic strength, legs
.59	CIRCLE RUN	
.25	DEEP KNEE BENDS - TIME LIMIT	Dynamic strength, legs .25 Weight balance .25

		2. EXPLOSIVE STRENGTH: LEG EMPHASIS (CONT'D)
Labels, Loadings	Test	Other Factors
.69	DODGE RUN	
.68	FIGURE-8 DUCK	
.27	LEG CIRCLING	Dynamic flexibility: .48
.75	FIFTY YARD DASH-TIMED	Dynamic strength, legs: .44
.63	SHUTTLE RUN	
.77	SHUTTLE RUN-TIMED OF THE BASIC FITNESS TEST	Dynamic strength, legs: .39
.64	VERTICAL JUMP	Dynamic strength, legs: .30
.66	STANDING BROAD JUMP	Dynamic strength, legs: .35
.70	TEN YARD DASH - TIMED	Dynamic strength, legs: .28

		3. EXPLOSIVE STRENGTH: ARM-SHOULDER EMPHASIS
Labels, Loadings	Test	Other Factors
	AAHPER YOUTH FITNESS TEST: SOFTBALL THROW	
.52	ARM CIRCLING	Speed of limb movement, arms: .39
.33	DIPS - TIME LIMIT	Dynamic strength, arms - extensor: .70
.27	DIPS - TO LIMIT	Athletic experience - specific -.30 Dynamic strength, arms-extensor: .63
.39	PLATE TAPPING	Speed of limb movement, arms: .44
.29	PULL-UPS - TO LIMIT OF THE BASIC FITNESS TESTS	Dynamic strength, arms-flexor: .81
.40	PULL-UPS --TIME LIMIT	Dynamic strength, arms-flexor: .78
.41	ROPE CLIMB - TIME LIMIT	Dynamic strength, arms-flexor: .67
.54	SOFTBALL THROW of the BASIC FITNESS TESTS	Static strength, arm-hand-shoulder: .32

		2. EXPLOSIVE STRENGTH: ARM-SHOULD EMPHASIS (cont)
Labels, Loadings	Test	Other Factors
.28	TOE TOUCHING	Extent flexibility: .39

		4. STATIC STRENGTH: ARM-HAND-SHOULDER EMPHASIS
Labels, Loadings	Test	Other Factors
.71	ARM PULL-DYNAMOMETER	
.72	HANDGRIP of the BASIC FITNESS TESTS	Desired level of output
	HAND-GRIP DYNAMOMETER TEST	
.44	MEDICINE BALL PUT - SITTING	
.71	MEDICINE BALL PUT - STANDING	
.33	PULL WEIGHTS, ARMS - TIME LIMIT	Weight balance: .50
.51	PUSH WEIGHTS, ARMS - TIME LIMIT	Dynamic strength, arms-extensor: .38 Weight balance: .44
.32	SOFTBALL THROW of the BASIC FITNESS TESTS	Explosive strength, arm-shoulder: .54
	BACK-PULL DYNAMOMETER TEST	Static strength, trunk and legs:

		5. STATIC STRENGTH: LEG, TRUNK EMPHASIS
Labels, Loadings	Test	Other Factors
.35	PUSH WEIGHTS, FEET - TIME LIMIT	Weight balance: .43
.59	TRUNK PULL-DYNAMOMETER	
	BACK-PULL DYNAMOMETER TEST	Static strength: leg, arm-hand-shoulder (?)

		6. DYNAMIC STRENGTH: ARMS-FLEXOR EMPHASIS
Labels, Loadings	Test	Other Factors
	AAHPER YOUTH FITNESS TEST: PULL-UPS	
	ARMY AIR FORCE PHYSICAL FITNESS TEST: CHINNING	
.73	BENT ARM HANG - TIMED	
	INDIANA MOTOR FITNESS TESTS: CHINS AND STRADDLE CHINS	
	JCR TEST: CHINNING	
	NEW YORK STATE PHYSICAL FITNESS TEST: PULL-UPS	
.81	PULL-UPS -- TO LIMIT OF THE BASIC FITNESS TESTS	Explosive strength, arm-shoulder: .29
.78	PULL-UPS--TIME LIMIT	Explosive strength, arm-shoulder: .40
.67	ROPE CLIMB--TIME LIMIT	Explosive strength, arm-shoulder: .41

		7. DYNAMIC STRENGTH: ARMS-EXTENSOR EMPHASIS
Labels, Loadings	Test	Other Factors
.70	DIPS - TIME LIMIT	Explosive strength, arm-shoulder: .33
.63	DIPS - TO LIMIT	Explosive strength, arm-shoulder: .27 Athletic experience - specific -.30
.68	HOLD HALF PUSH-UP--TIMED	
	INDIANA MOTOR FITNESS TESTS: PUSH-UPS	
.68	PUSH-UPS --TIME LIMIT	
.74	PUSH-UPS-- TO LIMIT	
.38	PUSH WEIGHTS, ARMS--TIME LIMIT	Static strength, arm-hand-shoulder: .51 Weight balance: .44
.45	SQUAT THRUST--TIME LIMIT	Athletic experience, general: .40

		8. DYNAMIC STRENGTH: [illegible]
Labels, Loadings	Test	Other Factors
	AAHPER YOUTH FITNESS TESTS: SIT-UPS	Explosive strength, general
	ARMY AIR FORCE PHYSICAL FITNESS TEST: SIT-UPS AND 300 YARD SHUTTLE RUN	Explosive strength, general and legs
.25	[illegible] KNEE BENDS - [illegible]E LIMIT	Explosive strength, legs: .25 Weight balance: .25
.44	FIFTY YARD DASH-TIMED	Explosive strength, legs: .75
.30	HOLD HALF SIT-UP-TIMED	Trunk strength: .45
	JCR TEST: 100 YARD SHUTTLE RUN	Explosive strength, legs
.32	LEG LIFTS - TIME LIMIT of the BASIC FITNESS TEST	Trunk strength: .47
.35	LEG RAISER - TIMED	Trunk strength: .43
	NEW YORK STATE PHYSICAL FITNESS TEST: 50 YARD DASH	Explosive strength, legs
.39	SHUTTLE RUN - TIMED of the BASIC FITNESS TESTS	Explosive strength, legs: .77

		8. DYNAMIC STRENGTH: LEGS (CONT'D)
Labels, Loadings	Test	Other Factors
.31	SIT-UPS --TIME LIMIT	Explosive strength, general: .33
.35	STANDING BROAD JUMP	Explosive strength, legs: .66
.28	TEN YARD DASH - TIMED	Explosive strength, legs: .70
.30	VERTICAL JUMP	Explosive strength, legs: .64

		9. TRUNK STRENGTH
Labels, Loadings	Test	Other Factors
.45	HOLD HALF SIT-UP--- TIMED	Dynamic strength, legs: .30
.47	LEG LIFTS - TIME LIMIT of the BASIC FITNESS TESTS	Dynamic strength, legs: .32
.43	LEG RAISER - TIMED	Dynamic strength, legs: .35

		10. EXTENT FLEXIBILITY
Labels, Loadings	Test	Other Factors
.55	ABDOMINAL STRETCH	
.39	TOE TOUCHING	Explosive strength, arm-shoulder: .28
.49	TWIST AND TOUCH of the BASIC FITNESS TEST (so called EXTENT FLEXIBILITY)	

		11. DYNAMIC FLEXIBILITY
Labels, Loadings	Test	Other Factors
.50	BEND, TWIST & TOUCH of the BASIC FITNESS TESTS (also called DYNAMIC FLEXIBILITY)	
.56	BLOCK TRANSFER	
.30	BOARD BALANCE	Gross body equilibrium: .27 Balance - visual cues: .29
.58	LATERAL BEND	
.48	LEG CIRCLING	Explosive strength, legs: .27
.58	ONE FOOT TAPPING	
.32	SOCCER DRIBBLE	
.53	SQUAT, TWIST AND TOUCH	

		12. GROSS BODY EQUILIBRIUM
Labels, Loadings	Test	Other Factors
	ATAXIA TEST BATTERY	
.27	BOARD BALANCE	Dynamic flexibility: .30 Balance-visual cues: .29
.72	BALANCE-A TEST of the BASIC FITNESS TESTS (also called ONE FOOT LENGTHWISE BALANCE-EYES CLOSED)	
.54	ONE FOOT CROSS BALANCE-EYES CLOSED	
.38	ONE FOOT CROSS BALANCE-EYES OPEN	Balance-visual cues: .55
.44	RAIL WALKING	
.64	TWO FOOT LENGTHWISE BALANCE-EYES CLOSED	

		12. GROSS BODY EQUILIBRIUM
Labels, Loadings	Test	Other Factors
.53	TWO FOOT LENGTHWISE BALANCE-EYES OPEN	Balance-visual .32

		13. BALANCE - VISUAL CUES
Labels, Loadings	Test	Other Factors
.29	BOARD BALANCE	Gross body equilibrium: .27 Dynamic flexibility: .30
	NEW YORK STATE PHYSICAL FITNESS TEST: SQUAT STAND	
.55	ONE FOOT CROSS BALANCE - EYES OPEN	
.64	ONE FOOT LENGTHWISE BALANCE - EYES OPEN	
.33	STICK BALANCE	
.26	TWO FOOT CROSS BALANCE - EYES OPEN	Speed of limb movement - arms: .31
.32	TWO FOOT LENGTHWISE BALANCE - EYES OPEN	Gross body equilibrium: .53

		14. SPEED OF LIMB MOVEMENT: ARMS
Labels, Loadings	Test	Other Factors
.39	Arm circling	Explosive strength, arm-shoulder: .52
.47	Ball Balance	
.44	Plate Tapping	Explosive strength, arm-shoulder: .39
.33	TWO FOOT CROSS BALANCE-EYES CLOSED	
.31	TWO FOOT CROSS BALANCE- EYES OPEN	Balance-visual: .26

		15. SPEED OF LIMB MOVEMENT: LEGS
Labels, Loadings	Test	Other Factors
.46	TWO-FOOT TAPPING	

		16. GROSS BODY COORDINATION
Labels, Loadings	Test	Other Factors
.56	CABLE JUMP TEST of the BASIC FITNESS TESTS	
Agility	NEW YORK STATE PHYSICAL FITNESS TEST: SIDE STEP	

		17. STAMINA: CARDIO-VASCULAR ENDURANCE
Labels, Loadings	Test	Other Factors
	AAPHER YOUTH FITNESS TEST: 600 YARD RUN-WALK	
	MAXIMAL OXYGEN INTAKE: ESTIMATION METHOD	
	MAXIMAL OXYGEN UPTAKE: ASTRAND TEST	
	MAXIMAL OXYGEN UPTAKE: ASTRAND-RYHMING INDIRECT TEST	
	MAXIMAL OXYGEN UPTAKE: MITCHELL, SPROULE, AND CHAPMAN TEST	
	MAXIMAL OXYGEN UPTAKE: TAYLOR, BUSKIRK, AND HENSCHEL TEST	
	600 YARD RUN-WALK of the BASIC FITNESS TESTS	

		18. MEANINGFUL MEMORY ABILITY
Labels, Loadings	Test	Other Factors
.50	REMEMBERED RELATIONS	
.44	DESCRIPTIONS	Memory for semantic systems: .30
.42	MEMORY FOR WORD RELATIONS	Memory for semantic classes: .34

		19. VERBAL KNOWLEDGE
Labels, Loadings	Test	Other Factors
General Intelligence	FACTOR B SCORE	Verbal analogies and classifications
Verbal Intelligence	OFFICER QUALIFICATIONS TEST	Mechanical Knowledge, Numerical ability
Verbal Comprehension .43	MECHANICAL PRINCIPLES TEST	Mechanical experience (other studies: .61, .49) Visualization (other studies: .40, .41, .41)
Verbal Comprehension .46 (other study: .16)	PATTERN COMPREHENSION TEST	Visualization (other studies: .58, .60, .55, .60 final trials) Perceptual speed (other studies: .23, .36 - final trials) Spatial orientation: (Other studies: .24, .33, .40, .31 final)
Verbal Comprehension .20 (other study: .37)	SPEED OF IDENTIFICATION TEST	Visualization: .38 final, (other studies: .29, .06) Finger dexterity: (other studies: .33, .10) Perceptual Speed: .46 final, (other studis: .43, .45, .47, .53) Spatial orientation (other studies: .37, .32, .35, .16) Peripheral acuity: (other studies: r=-.5)
Verbal Comprehension .67	WORD KNOWLEDGE (VOCABULARY)	
	ARMY GENERAL CLASSIFICATION	Numerical ability and a space factor.

		19. VERBAL KNOWLEDGE
Labels, Loadings	Test	Other Factors
Verbal concepts	CALIFORNIA TEST OF MENTAL MATURITY	Logical evaluation, spatial orientation, numerical ability, associate memory: meaningful.

		19. VERBAL KNOWLEDGE
Labels, Loadings	Test	Other Factors
Comprehension .25	ARITHMETIC REASONING -TEST 1	Numerical ability .54 Visual memory (?) .28 Visualization (?) .28 Kinesthetic - spatial - reasoning .36
Comprehension	GUILFORD-ZIMMERMAN APTITUDE SURVEY: VERBAL COMPREHENSION	
	LIFT LINK INTELLECTUAL FUNCTIONS TESTER	Discovery of principles, General reasoning, Numerical ability, Perceptual speed.
Comprehension .51	MEANINGFUL MEMORY: PARAGRAPH	Associate memory: rote .20
Verbal Meaning	SRA PRIMARY MENTAL ABILITIES	Numerical ability, Spatial orientation, Discovery of principles, Logical evaluation
Comprehension .48	READING COMPREHENSION	Spatial visualization (?) .31 Kinesthetic - spatial - reasoning .55
	NAVY GENERAL CLASSIFICATION TEST	Adjustment potential, optimal Automatic feedback

		19. VERBAL KNOWLEDGE
Labels, Loadings	Test	Other Factors
Comprehension .38	SENTENCE SPAN TEST	Memory span: immediate .24 Auditory memory (?) .28
Comprehension .60	VOCABULARY	
Comprehension .52	ADVANCED VOCABULARY I, II	
Comprehension	VOCABULARY V-1, V-2	
Comprehension	WIDE RANGE VOCABULARY TEST	
	VERBAL - NUMERICAL TEST	Numerical ability, Stress responsibility
	HENMON-NELSON TESTS OF MENTAL ABILITY, Rev. Ed.	Numerical ability, Discovery of principles, General reasoning
.49	REVERSED READING	Flexibility .63

		20. WORD FLUENCY
Labels, Loadings	Test	Other Factors
Associational fluency	ASSOCIATIONAL FLUENCY of GUILFORD'S BATTERY FOR CREATIVE THINKING	
Associational fluency	ASSOCIATIONAL FLUENCY I	
Associational fluency	ASSOCIATIONS IV	
	CONTROLLED ASSOCIATIONS TEST	
Expressional fluency	EXPRESSIONAL FLUENCY of GULLFORD'S BATTERY FOR CREATIVE THINKING	
	WORD FLUENCY of GUILFORD'S BATTERY FOR CREATIVE THINKING	
Expressional fluency	SIMILE INTERPRETATIONS	

		20. WORD FLUENCY
Labels, Loadings	Test	Other Factors
Expressional fluency	WORD ARRANGMENTS	
	WORD BEGINNINGS TEST	
	WORD BEGINNINGS AND ENDINGS TEST	
	WORD ENDINGS TEST	

32 + 33

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		21. NUMERICAL ABILITY
Labels, Loadings	Test	Other Factors
	HERMON-NELSON TESTS of MENTAL ABILITY Rev. Ed.	Verbal knowledge, Discovery of principles, General reasoning
	SINDBAD I	Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		21. NUMERICAL ABILITY
Labels, Loadings	Test	Other Factors
Mathematical ability	LIFT-LINK INTELLECTUAL FUNCTIONS TESTER	Verbal, discovery of principles, general reasoning, perceptual speed
Numerical facility .26	MEMORY FOR RELATIONS TEST	Spatial visualization (?) .39 Visual memory (?) .28
Mental functioning	AUTOMATED NUMERICAL FUNCTION TEST	
Numerical facility .67	NUMERICAL OPERATIONS	Perceptual speed .26
Number facility	SRA PRIMARY MENTAL ABILITIES	Verbal knowledge, spatial orientation, Discovery of principles, Logical evaluation
Number facility	SUBTRACTION AND MULTIPLICATION TEST	

		21. NUMERICAL ABILITY
Labels, Loadings	Test	Other Factors
	SUBTRACTION PROBLEMS	
	INTEGRATED CREW MONITORING SYSTEM	Control precision, Perceptual speed
	PERFORMANCE PANEL	Response orientation, Visual memory, Vigilance

		22. CONCEPT FLUENCY
Labels, Loadings	Test	Other Factors
Ideational fluency	GUILFORD'S BATTERY FOR CREATIVE THINKING: IDEATIONAL FLUENCY	
Ideational fluency	THEME TEST	
Ideational fluency .67	THING CATEGORIES TEST	Flexibility .27, .36
Ideational fluency .67	TOPICS TEST	
Ideational fluency 1.04	UTILITY TEST	Flexibility .72
Ideational fluency .50	OBJECT NAMING	Flexibility .43

		23. DISCOVERY OF PRINCIPLES
Labels, Loadings	Test	Other Factors
Synthetic reasoning, nonverbal	BLOCK DESIGN TEST of the WAIS	Logical evaluation
Induction .26, .50, .45	NUMBER SERIES	General reasoning .47, .36 Numerical ability .50
Induction	FIGURE CLASSIFICATION	
Abstract analytic induction .50	VERBAL CLASSIFICATION II	
Sequential induction .36, .37, .42, .50, .38	LETTER GROUPING	
Sequential induction .39, .49, .53 .52, .47	LETTER SERIES	
	HENMON-NELSON TESTS of MENTAL ABILITY Rev. Ed.	Verbal knowledge, Numerical ability, General reasoning

		23. DISCOVERY OF PRINCIPLES
Labels, Loadings	Test	Other Factors
Sequential induction .39, .36	NUMBER PATTERNS	
Sequential induction .39, .33	PATTERN ANALOGIES	
Sequential induction .47	PROGRESSIVE MATRICES B	
Sequential induction .57	PROGRESSIVE MATRICES C	
Sequential induction .54	PROGRESSIVE MATRICES D	
Sequential induction, AAF Reasoning II & III, & non-verbal, non-numerical reasoning .40, .51, .66, .47, .31	FIGURE ANALOGIES COMPLETION	

		23. DISCOVERY OF PRINCIPLES
Labels, Loadings	Test	Other Factors
Induction	LETTER SETS TEST	
Reasoning ability	LIFT-LINK INTELLECTUAL FUNCTIONS TESTER	General reasoning, verbal, numerical, perceptual speed
Induction	LOCATIONS TEST	
Reasoning	SRA PRIMARY MENTAL ABILITIES	Logical evaluation, verbal knowledge, numerical ability, spatial orientation.
	SINDBAD I	Numerica ability Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning, Vigilance

		24. GENERAL REASONING
Labels, Loadings	Test	Other Factors
Deduction .49 AAF Reasoning I .40, .58 Restrictive thinking .58	ARITHMETIC REASONING TESTS 2, 3 and 4	Numerical ability .49
AAF Reasoning I .35, .34, .02	FIGURE ANALOGIES	Numerical ability .49
AAF Reasoning I .55, .48, .50, .50	MATHEMATICS B	
AAF Reasoning I .36 Deduction .47	NUMBER SERIES	Numerical ability .50 Discovery of principles .26, .50, .45
	GUILFORD-ZIMMERMAN APTITUDE SURVEY: GENERAL REASONING	Verbal comprehension
Reasoning ability	LIFT-LINK INTELLECTUAL FUNCTIONS TESTER	Discovery of principles, verbal, numerical, perceptual speed
	HENMON-NELSON TESTS of MENTAL ABILITY, Rev. Ed.	Verbal knowledge Numerical ability, Discovery of principles

		24. GENERAL REASONING
Labels, Loadings	Test	Other Factors
	MATHEMATICS APTITUDES TEST R-1	
	MATHEMATICS APTITUDES TEST R-2	
	NECESSARY ARITHMETIC OPERATIONS	
	SHIP DESTINATION TEST	
	SENTENCE COMPLETION TEST	Flexibility: rigidity reaction

		25. SEEING IMPLICATIONS AND CONSEQUENCES (FORESIGHT)
Labels, Loadings	Test	Other Factors
.45	CONTINGENCIES	
.54, .75, .68	PERTINENT QUESTIONS	
.34	APPARATUS TEST	
	SEEING DEFICIENCIES	
.43	SEEING PROBLEMS	

		26. FLEXIBILITY
Labels, Loadings	Test	Other Factors
Semantic spontaneous flexibility	ALTERNATE USES of GUILFORD'S BATTERY FOR CREATIVE THINKING	
Originality	CONSEQUENCES (REMOTE) of GUILFORD'S BATTERY FOR CREATIVE THINKING	
Semantic redefinition	GESTALT TRANSFORMATION	
	GUILFORD'S BATTERY FOR CREATIVE THINKING: MATCH PROBLEMS	
Figural adaptive flexibility	MATCH PROBLEMS II	
Figural adaptive flexibility	MATCH PROBLEMS V	
Semantic spontaneous flexibility .43	OBJECT NAMING	Concept fluency .50

		26. FLEXIBILITY
Labels, Loadings	Test	Other Factors
Semantic redefinition	OBJECT SYNTHESIS	
Semantic redefinition	PICTURE GESTALT	
Figural adaptive flexibility	PLANNING AIR MANEUVERS	
Originality	PLOT TITLES (CLEVER)	
Originality	SYMBOL PRODUCTION	
Semantic spontaneous flexibility .72	UTILITY TEST	Concept fluency 1.04
	CALIFORNIA PSYCHOLOGICAL INVENTORY: FLEXIBILITY	Reaction time

		26. FLEXIBILITY
Labels, Loadings	Test	Other Factors
Cognitive flexibility - rigidity: .63	REVERSED READING	Verbal ability .49
Cognitive flexibility - rigidity: .27 Semantic spont. flexibility: .36	THING CATEGORIES	Concept fluency .67
Cognitive flexibility - rigidity: -.41	GESTALT COMPLETION	Speed of closure: .46, .49 Spatial visualization: .40
Cognitive flexibility - rigidity: .73	SIGN CHANGES	
Cognitive flexibility -rigidity: .69	RESOURCEFUL ARITHMETIC	
Interference	STROOP COLOR - WORD TEST	

		27. SYMBOL MANIPULATION
Labels, Loadings	Test	Other Factors
Evaluation of symbolic relations .45	RELATED WORDS I TEST	Evaluation of symbolic classes .28
Evaluation of symbolic relations .58	SYMBOL MANIPULATION TEST	Evaluation of symbolic classes .33

		28. LOGICAL EVALUATION
Labels, Loadings	Test	Other Factors
Analytic reasoning, nonverbal	BLOCK DESIGN TEST of the WAIS	Discovery of principles
Logical reasoning	CALIFORNIA TEST OF MENTAL MATURITY	Spatial orientation, numerical ability, verbal knowledge, associate mamory; meaningful
Hypothesis verification .30 Education of perceptual relations .32 Deduction and logical reasoning .58, .45, .45, .42	FALSE PREMISES	
Syllogistic reasoning	INFERENCE TEST	
Syllogistic reasoning	LOGICAL REASONING	
Syllogistic reasoning	NONSENSE SYLLOGISM TEST	

		28. LOGICAL EVALUATION
Labels, Loadings	Test	Other Factors
Reasoning	SRA PRIMARY MENTAL ABILITIES	Discovery of principles, verbal knowledge, numerical ability, spatial orientation

		29. PRACTICAL JUDGMENT
Labels, Loadings	Test	Other Factors
	PRACTICAL JUDGMENT	

		30. INTELLIGENCE
Labels, Loadings	Test	Other Factors
	WONDERLIC PERSONNEL TEST	
General Verbal - IQ	GENERAL CLASSIFICATION TEST	
General Verbal - IQ	PROBLEM SOLVING TEST	Good vs poor group performance in survival training
General Verbal - IQ	GROUP-INTERACTION PICTURE-STORY TEST	Differentiated between bomber crews in training and in combat
.57 Correlation	INTELLIGENCE SCALE	
Verbal and Quantitative	HENMON-NELSON TESTS of MENTAL ABILITY	

		30. INTELLIGENCE
Labels, Loadings	Test	Other Factors
Verbal and Performance	WECHSLER ADULT INTELLIGENCE SCALE (WAIS)	
Verbal and performance	WECHSLER-BELLEVUE INTELLIGENCE SCALE	

		31. ABILITY, LOADING ARM-HAND STEADINESS
Labels, Loadings	Test	Other Factors
.50 (other studies: .56, .36)	PRECISION-STEADINESS TEST	
.36 (other study: -.04)	PURSUIT CONFUSION-ERRORS	Control precision .04 (other study: .37) Mirror tracing (?)
.40 (other study: .60)	STEADINESS AIMING	
.31	ADINESS TEST	
.61 (other studies: .61, .50, .42)	TRACK TRACING	Finger dexterity .21 (other studies: .35, .18) Control precision (other studies: .29)
.26	TWO-HAND PURSUIT	Multilimb coordination .32 Rate Control .37
.63	STEADINESS TREMOR	
	PATTERN TRACING TEST	

		31. ABILITY, LOADING ARM-HAND STEADINESS
Labels, Loadings	Test	Other Factors
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing
	SINDBAD I	Numerical ability Discovery of principles Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		32. WRIST-FINGER SPEED
Labels, Loadings	Test	Other Factors
.52 (other study: .45)	AIMING	Aiming .57 (other studies .63, .36) Finger dexterity .30 (other studies: .12, .35)
	MACQUARRIES TEST FOR MECHANICAL ABILITY	Aiming, finger and hand dexterity, spatial relations, visual acuity and muscular control.
.31	MINNESOTA DATA OF MANIPULATION-TURNING	Finger dexterity .39 (other studies: .34, .34, .18) Manual dexterity .49 (other studies: .38, .52, .40, .61)
.50	PIN STICK TEST	Finger dexterity .25 (other studies: .34, .19)
.52 (other study: .50)	PURSUIT AIMING I TEST	Finger dexterity .27 Aiming .63 (other study: .68)
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Finger dexterity Manual dexterity Response orientation

		32. WRIST-FINGER SPEED
Labels, Loadings	Test	Other Factors
	SINDBAD I (cont'd)	Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance
.54 (other study: .48)	PURSUIT AIMING II TEST	Finger dexterity .28 Aiming .63 (other study .63)
.14 (other study: .30)	DISCRIMINATION REACTION TIME (PRINTED)	Manual dexterity .26 (other studies: .34, .04, .15) Perceptual speed (other studies: .35, .14) Response orientation (other studies: .42, .52, .41, .38)
.36	ROTARY AIMING	Speed of arm movement .46 (other studies: .38, .53, .02) Aiming (other studies: .22, .38)

		32. WRIST-FINGER SPEED
Labels, Loadings	Test	Other Factors
.29 (other study: .46)	SQUARE MARKING	Aiming .30 (other studies: 31., .71, .55)
.75 (other studies: .74, .43)	LARGE TAPPING TEST	Speed of arm movement, .31 (other study .21) Aiming (other study: .33) Manual dexterity (other study .28)
.77 (other study .74)	MEDIUM TAPPING TEST	Speed of arm movement .28
.42	SMALL TAPPING TEST	Aiming .54
.36	TWO-PLACE TAPPING	Manual dexterity .24 (other study .35) Speed of arm movement .54 (other study: -.05) Control precision (other study .41)
	TAPPING, PRINTED	Aiming

		32. WRIST-FINGER SPEED
Labels, Loadings	Test	Other Factors
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Finger dexterity, Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing

		33. FINGER DEXTERITY
Labels, Loadings	Test	Other Factors
.30 (other studies: .12, .35)	AIMING	Aiming .57 (other studies: .63, .36) Wrist-finger speed .52 (other study: .45)
	MACQUARRIES TEST FOR MECHANICAL ABILITY	Wrist-finger speed, aiming, hand dexterity, spatial relations and visual acuity, muscular control.
.31 (other studies: .36, .37)	MARKING ACCURACY TEST	Aiming .37 (other studies: .40, .52) Spatial orientation (other studies: .35, .34) Manual dexterity .32 (other studies: .28, .38, .53, .73) Spatial visualization .32 Auditory perceptual speed .28
.31 (other studies: .37, .36)	MINNESOTA RATE OF M MANIPULATION-PLACING	Manual dexterity .32 (other studies: .53, .38, .42, .73) Speed of arm movement .36 (other studies: .24,-.13) Positioning (other studies: .43)
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed

		33. FINGER DEXTERITY
Labels, Loadings	Test	Other Factors
	SINDBAD I (cont'd)	Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance
.34 (other studies: .34, .18, .39)	MINNESOTA RATE OF MANIPULATION-TURNING	Manual dexterity .38 (other studies: .52, .40, .49, .61) Wrist-finger speed (other study .31)
.53 (other studies: .59, .49, .55)	O'CONNOR FINGER DEXTERITY TEST	Manual dexterity .25 (other study: .50) Visual feedback (other study: .43)
	PENNSYLVANIA BI-MANUAL WORK SAMPLE	Aiming and multilimb coordination
.25 (other studies: .34, .19)	PIN STICK TEST	Wrist-finger speed .50
.55 (other studies: .43, .59, .35, .57)	PURDUE PEGBOARD-ASSEMBLY TASK	Manual dexterity .21 (other studies: .32, .32) Perceptual speed (other study: .31)
.58 (other studies; .55, .68)	PURDUE PEGBOARD-LEFT HAND TASK	

		33. FINGER DEXTERITY
Labels, Loadings	Test	Other Factors
.61 (other studies: .66, .61)	PURDUE PEGBOARD-BOTH HANDS TASK	Manual dexterity .21 (other study: .63)
.27	PURSUIT AIMING I TEST	Wrist-finger speed .52 (other study: .50) Aiming .63 (other study: .68)
.28	PURSUIT AIMING II TEST	Wrist-finger speed .54 (other study: .48) Aiming .63 (other study: .63)
	CRAWFORD SMALL PARTS DEXTERITY TEST	Manual dexterity Control precision
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness, Wrist-finger speed Manual dexterity, Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing
	BENGE HAN - DEXTERITY TEST	Manual dexterity

		33. FINGER DEXTERITY
Labels, Loadings	Test	Other Factors
.16 (other studies: .42, .46, .06)	SANTA ANA FINGER DEXTERITY	Manual dexterity .47 (other STUDIES: .38, .38, .28) Aiming (other studies: .17, .33) Spatial orientation (other studies: .39, -.07, .26)
.33 (other study: .10)	SPEED OF IDENTIFICATION TEST	Visualization (other studies: .38 (final trials), .29, .06) Perceptual speed .45 (other studies: .46 (final), .43, .47, .53) Spatial orientation .32 (other studies: .37 (final) .35, .16) Verbal comprehension (other studies: .37, .20) Peripheral acuity (other study: r = -.5)
.21 (other studies: .35, .18)	TRACK TRACING	Arm hand steadiness .61 (other studies: .61, .50, .42) Control precision (other study: .29)

		34. MANUAL DEXTERITY
Labels, Loadings	Test	Other Factors
	MACQUARRIES TEST FOR MECHANICAL ABILITY	Finger dexterity, wrist-finger speed, aiming, spatial relations, visual acuity, muscular control.
32. (other studies: .28, .38, .53, .73)	MARKING ACCURACY TEST	Finger dexterity .31 (other studies: .36, .37) Aiming .37 (other studies: .37, .40, .52) Spatial orientation (other studies: .35, .40) Spatial visualization .32 Auditory perceptual speed .28
.49 (other studies: .38, .52, .40, .61)	MINNESOTA RATE OF MANIPULATION - TURNING	Finger dexterity .39 (other studies: .34, .34, .18) Wrist-finger speed .31
.42 (other studies: .32, .53, .38, .73)	MINNESOTA RATE OF MANIPULATION - PLACING	Finger dexterity .29 (other studies: .31, .37, .36) Positioning .43 Speed of arm movement (other studies: .36, .24, -.13)
.24 (other study: .50)	O'CONNOR FINGER DEXTERITY TEST	Finger dexterity .53 (other studies: .59, .49, .55) Visual feedback: (other study: .43)
	O'CONNOR TWEEZER DEXTERITY TEST	Control precision.
.21 (other studies: .32, .32)	PURDUE PEGBOARD ASSEMBLY TASK	Finger dexterity .55 (other studies: .43, .59, .35, .57) Perceptual speed (other study: .31)
.21 (other study: .63)	PURDUE PEGBOARD - BOTH HANDS TASK	Finger dexterity .61 (other studies: .66, .61)

		34. MANUAL DEXTERITY
Labels, Loadings	Test	Other Factors
.10 (other studies: .34, .01)	DISCRIMINATION REACTION TIME	Speed of arm movement .05 (other studies: .46, .03, -.03, .25, .07) Response orientation (other studies: .28, .53, .67, .50, .29) Spatial orientation (other studies: .38, .38, .72, .52, .37, .33, .14) Visualization (other studies: .16, .23, .10, .34)
	CRAWFORD SMALL PARTS DEXTERITY TEST	Finger dexterity, control precision
	BENGE HAN-DEXTERITY TEST	Finger dexterity
	BALL AND PIPE TEST	Speed of arm movement
.26 (other studies: .34, .04, .15)	DISCRIMINATION REACTION TIME (PRINTED)	Perceptual speed (other studies: .35, .14) Response orientation (other studies: .42, .52, .41, .38) Wrist-finger speed .14 (other study: .30)
.17 (other studies: .35, -.06)	ROTARY PURSUIT	Control precision (other studies: .17, .35, -.06) Speed of arm movement .22 (other studies: .47, .17, .20, .34, -.02)
.47 (other studies: .38, .38, .28)	SANTA ANA FINGER DEXTERITY	Aiming (other studies: .17, .33) Finger dexterity .16 (other studies: .42, .46, .06) Spatial orientation (other studies: .39, -.07, .20)
	COMPLEX, TIME-SHARED PERCEPTUAL-MOTOR SKILLS TASK	Response orientation, Time sharing

34. MANUAL DEXTERITY

Labels, Loadings	Test	Other Factors
.27	SPATIAL ORIENTATION TEST	Spatial orientation .34 (other study: .35) Perceptual speed .30 (other study: .45)
	STROMBERG DEXTERITY TEST	Visualization, possibly visual acuity and non verbal IQ
.28	LARGE TAPPING TEST	Wrist-finger speed .43 (other studies: .75, .74) Aiming .33 Speed of arm movement (other studies: .31, .21)
.35 (other study: .24)	TWO-PLATE TAPPING	Speed of arm movement -.05 (other study: .54) Control precision .41 Wrist-finger speed (other study: .36)
.42 (other study: .05)	TEN TARGET AIMING - CORRECTS	Speed of arm movement .50 (other studies: .66, .72) Aiming (other study .31)
.43 (other study .35)	TEN TARGE AIMING - ERRORS	Speed of arm movement .63 (other studies: -.35, -.70)
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Position estimation, Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time

		34. MANUAL DEXTERITY
Labels, Loadings	Test	Other Factors
	PERCEPTUAL-MOTOR PERFORMANCE TESTER (cont'd)	Mirror tracing Perceptual speed Time sharing
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		35. POSITION ESTIMATION
Labels, Loadings	Test	Other Factors
.48	CONTROL MOVEMENT - ESTIMATE	
.42	KNOB POSITIONING - ESTIMATE	
.45	ROTARY POSITIONING - ESTIMATE	
.43 "positioning"	MINNESOTA RATE OF MANIPULATION - PLACING	Finger dexterity .29 (other studies: .31, .37, .36) Manual dexterity .42 (other studies: .32, .53, .38, .73) Speed of arm movement (other studies: .36, .24, -.13)
.38 "positioning"	PURDUE PEGBOARD - RIGHT HAND TASK	Finger dexterity .46 (other studies: .46, .60) Position reproduction
.27 "positioning"	TRACING TEST	Aiming .39
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimg coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing

		36. RESPONSE ORIENTATION
Labels, Loadings	Test	Other Factors
	PERCEPTUAL-MOTOR	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing
	PERFORMANCE PANEL	Numerical ability, Visual memory Vigilance
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		36. RESPONSE ORIENTATION
Labels, Loadings	Test	Other Factors
.44 (other studies: .43, .09, .22, .23	COMPLEX COORDINATION TASK	Control precision .45 (other studies: .35, .44, .47, .50, .36) Multilimb coordination (other studies: .30, .38) Spatial orientation .13 (other studies: .40, .46, .39 (first trials), .16, .45, .34) Speed of arm movement .37 (other studies: .21, .09, .37, .09, .09) Visualization (other study: .38, first trials)
.43	DIAL SETTING	Control precision .40 Rate control .27
.58 (other study: .23)	DIRECTION CONTROL	Spatial visualizations (other studies: .34, .44) Spatial orientation .34 (other studies: .24, .39)
.27	DIRECTIONAL CONTROL	Spatial orientation .34 (other study: .38) Integration .30 (other study .28) Spatial visualization (other study .34)
.36	FORCED LANDINGS	Mechanical experience .35 Spatial orientation .29
.35, first trials (.40, final trials)	KINESTHETIC COORDINATION	Mechanical experience, first, .28
.32	MULTIDIMENSION PURSUIT -BANK AND ALTITUDE	Rate control .37
.41	MULTIDIMENSIONAL PURSUIT-BANK AND HEADING	

		36. RESPONSE ORIENTATION
Labels, Loadings	Test	Other Factors
.31	MULTIDIMENSIONAL PURSUIT - BANK AND AIRSPEED	
.33	MULTIMIMENSIONAL PURSUIT - BANK, HEADING AND AIRSPEED	
	HUMAN PERFORMANCE TESTER	Control precision Multilimb coordination Spatial orientation
	RESPONSE ANALYSIS TESTER	Spatial orientation
.27, final trials	PLANE CONTROL	Control precision .38, final Speed of arm movement .49, final Multilimb coordination (other study: .41)
.28 (other studies: .53, .67, .50, .29)	DISCRIMINATION REACTION TIME TEST	Speed of arm movement .46 (other studies: .05, .03, -.03, .25, .07) Manual dexterity (other studies: .10, .34, .01) Spatial orientation .38 (other studies .38, .72, .52, .37, .33, .14) Visualization .16 (other studies: .23, .10, .34)
.42 (other studies: .41, .38)	DISCRIMINATION REACTION TIME TEST (PRINTED)	Manual dexterity (other studies: .26, .34, .04, .15) Perceptual speed (other studies: .35, .14) Wrist-finger speed (other studies: .14, .30)

		36. RESPONSE ORIENTATION
Labels, Loadings	Test	Other Factors
.39	CHOICE REACTION TIME	
.30	SIGNAL INTERPRETATION I	Spatial orientation .45
	COMPLEX REACTION TIME TEST	Speed of arm movement, Spatial orientation
.14 (other studies: .61, final trials)	TWO HAND MATCHING (BIMANUAL MATCHING)	Speed of arm movement .37 Spatial orientation .33 (other study: .28 final trials)
.61, final trials	UNIDIMENSIONAL MATCHING	Spatial visualization .34, final trials Perceptual speed .34, first trials Control precision .45, first trials
.36	VISUAL COINCIDENCE	
.63	MAZE of the DRIVING PERFORMANCE BATTERY	Spatial orientation .51
.64	MIRROR REVERSE of the DRIVING PERFORMANCE BATTERY	
.26	NO-SLIP BACK of the DRIVING PERFORMANCE BATTERY	Kinesthetic discrimination .39 Reaction time .56

		36. RESPONSE ORIENTATION
Labels, Loadings	Test	Other Factors
	COMPLEX, TIME-SHARED, PERCEPTUAL-MOTOR SKILLS TASK	Manual dexterity, Time sharing

		37. CONTROL PRECISION
Labels, Loadings	Test	Other Factors
.36 (other studies: .45, .35, .44, .47, .50)	COMPLEX COORDINATION TASK	Multilimb coordination (other studies: .30, .38) Response orientation (other studies: .44, .43, .09, .22, .23) Spatial orientation (other studies: .13, .40, .46, .39 (first trials), .16, .45, .34) Speed of arm movement .09 (other studies: .37, 21, .09, .37, .09) Visualization (other studies: .38, first trials)
.38 (other study: . .46)	CONTROL ADJUSTMENT, Also called control sensitivity	Reaction time .29 Mechanical experience .26
.40	DIAL SETTING	Response orientation .43 Rate control .27
.40	MOTOR JUDGMENT	Rate control .40
	INTEGRATED CREW MONITORING SYSTEM	Numerical ability, Perceptual speed
	O'CONNOR TWEEZER DEXTERITY TEST	Manual dexterity
.38, final trials	PLANE CONTROL	Speed of arm movement .49, final Response orientation .27, final Multilimb coordination (other study: .41)

		37. CONTROL PRECISION
Labels, Loadings	Test	Other Factors
	PURDUE HAND PRECISION TEST	
.12 (other studies: .48, .38)	PURSUIT CONFUSION - TIME-ON-TARGET	Rate control .37 (other study: .17)
.04 (other study: .37)	PURSUIT CONFUSION-ERRORS	Arm-hand steadiness .36 (other study: -.04)
.30 (other studies: .24)	RATE CONTROL	Rate control .30 (other studies: .72, .58) Spatial orientation (other studies: .17, .47) Reaction time .29
	CRAWFORD SMALL PARTS DEXTERITY TEST	Finger dexterity, manual dexterity
	HUMAN PERFORMANCE TESTER	Response orientation, Multilimb coordination, Spatial orientation
.60 (other studies: .26, .49)	ROTARY PURSUIT	Manual dexterity -.[illegible] (other studies: .35, 17) Speed of arm movement -.02 (other studies: .22, .47, .17, .20, .34)

		37. CONTROL PRECISION
Labels, Loadings	Test	Other Factors
.48 (other studies: .45, .40, .52, .40)	RUDDER CONTROL-TRIPLE TARGET	Multilimb coordination .48 (other study: .36)
.44	RUDDER CONTROL - SINGLE TARGET	Multilimb coordination .52
.41	TWO-PLACE TAPPING	Manual dexterity .35 (other study: .24) Speed of arm movement -.05 (other study: .54) Wrist-finger speed (other study .36)
.29	TRACK TRACING	Arm hand steadiness .50 (other studies: .61, .61, .42) Finger dexterity (other studies .21, .35, .18)
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimatio Spatial scanning, Vigilance

		37. CONTROL PRECISION
Labels, Loadings	Test	Other Factors
.25 (other study: .46)	TWO HAND COORDINATION	Multilimb coordination .33 (other study: .30) Rate control .32 (other study: .17)
.45, first trials	UNIDIMENSIONAL MATCHING	Perceptual speed .34, first trials Spatial visualization .34, final trials Response orientation .61, final trials
.24 (other studies: .36, .20)	[illegible]AL PURSUIT TEST	Perceptual speed .46 (other studies: .28, .50, .35) Spatial orientation .17 (other studies: .22, .35) Integration (other study: .33)
	PERCEPTUAL - MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing

38. SPEED OF ARM MOVEMENT

Labels, Loadings	Test	Other Factors
.09 (other studies: .37, .21, .09, .37, .09)	COMPLEX COODINATION TASK	Control precision .36 (other studies: .45, .35, .44, .47, .50) Multilimb coordination (other studies: .30, .38) Response orientation (other studies: .44, .43, .09, .22, .23) Spatial orientation (other studies: .13, .40, .46 (first trials), .16, .45, .34 Visualization (other study: .38, first trials)
-.51 (other study: .01)	HAND PRECISION AIMING-ERRORS	
.56 (other study: .14)	HAND PRECISION AIMING-CORRECTS	
.36 (other studies: .24, -.13)	MINNESOTA RATE OF MANIPULATION-PLACING	Manual dexterity .32 (other studies: .53, .38, .42, .73) Finger dexterity .31 (other studies: .37, .36, .29) Positioning (other study: .43)
.49, final trials	PLACE CONTROL TEST	Control precision .38, final Multilimb coordinations (other study: .41) Response orientation .27, final
.42 (other studies: .40, .48)	RATE OF MOVEMENT TEST	
.19 (other studies: .65, .54, .40, .54, .36)	JUMP VISUAL REACTION TIME TEST	Reaction time .73 (other studies .54, .73, .52)
.44 (other study: .31)	JUMP AUDITORY REACTION TIME	Reaction time .64 (other studies: .70, 48)

38. SPEED OF ARM MOVEMENT

Labels, Loadings	Test	Other Factors
.05 (other studies: .46, .03, -.03, .25, .07)	DISCRIMINATION REACTION TIME	Manual dexterity .10 (other studies: .34, .01) Response orientation (other studies: .28, .53, .67, .50, .29) Spatial orientation (other studies: .38, .38, .72, .52, .37, .33, .14) Visualization (other studies: .16, .23, .10, .34)
.46 (other studies: .38, .53, .02)	ROTARY AIMING	Aiming (other studies: .22, .38) Wrist-finger speed .36
.22 (other studies: .47, .17, .20, .34, -.02)	ROTARY PURSUIT	Control precision (other studies: .26, .49, .60) Manual dexterity .17 (other studies: .35, -.06)
	SWITCH PERFORMANCE	Aiming
.31 (other study: .21)	LARGE TAPPING TEST	Wrist-finger speed .75 (other studies: .74, .43) Manual dexterity (other study: .28) Aiming (other study .33)
.28	MEDIUM TAPPING TEST	Wrist-finger speed .77 (other study .74)
-.05(other study: .54)	TWO-PLATE TAPPING	Manual dexterity .35 (other study: .24) Control precision .41 Wrist-finger speed (other study .36)
.72 (other studies: .66 .50)	TEN TARGET AIMING - CORRECTS	Manual dexterity (other studies: .05, .42) Aiming .31

		38. SPEED OF ARM MOVEMENT
Labels, Loadings	Test	Other Factors
-.70 (other studies: -.35, .63)	TEN TARGET AIMING - ERRORS	Manual dexterity (other studies: .43, .35)
.37	TWO HAND MATCHING (BI-MANUAL MATCHING)	Spatial orientation .33 (other study: .28 final trials) Response orientation .1 (other study: .61, final trials.)
	BALL AND PIPE TEST	Manual dexterity
	COMPLEX REACTION TIME TEST	Response orientation, Spatial orientation
	PERCEPTUAL- MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing

		38. SPEED OF ARM MOVEMENT
Labels, Loadings	Test	Other Factors
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		39. MULTILIMB COORDINATION
Labels, Loadings	Test	Other Factors
.30 (other study: .38)	COMPLEX COORDINATION TASK	Control precision .35 (other studies: .44, .47, .50, .36, .45) Response orientation .09, (other studies: .22, .23, .44, .43) Spatial orientation (other studies: .46, .39 (first trials), .16, .45, .34, .13, .40) Speed of arm movement .21 (other studies: .09, .37, .09, .09, .37) Visualization (other studies: .38, first trials)
	PENNSYLVANIA BI-MANUAL WORK SAMPLE	Finger dexterity and aiming
.41	PLANE CONTROL	Control precision (other study: .38) Speed of arm movement (other study, .48, final) Response orientation (other study .27, final)
.48 (other study: .36)	RUDDER CONTROL - TRIPLE TARGET	Control precision .48 (other studies: .45, .40, .52, .40)
.52	RUDDER CONTROL-SINGLE TARGET	Control precision .44
.33 (other study: .30)	TWO HAND COORDINATION	Control precision .25 (other study .46) Rate control .32 (other study: .17)
.32	TWO-HAND PURSUIT	Arm-hand steadiness .26 Rate control .37

		39. MULTILIMB COORDINATION
Labels, Loadings	Test	Other Factors
.31	CONTOUR of the DRIVING PERFORMANCE BATTERY	Spatial orientation .26 Kinesthetic discrimination .26
.36	DRIVING PERFORMANCE CRITERION	Spatial orientation .37
.31	NO-SLIP FORWARD of the DRIVING PERFORMANCE BATTERY	Reaction time .47
.55 (other study: .30, final trials)	TRACKING TASK, CRITER-	Movement prediction .33 Spatial orientation (other study: .30, initial trials)
	HUMAN PERFORMANCE TESTER	Response orientation, Control precision, Spatial orientation
	PERCEPTUAL - MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing

		39. MULTILIMB COORDINATION
Labels, Loadings	Test	Other Factors
	SINDBAD I	Numerical ability Discovery of principle Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		40. POSITION REPRODUCTION
Labels, Loadings	Test	Other Factors
.32	CONTROL MOVEMENT - RESPOND	
.39	DIRECTION TRACING	
.34	KNOB POSITIONING-RE-SPOND	
.30	STICK POSITIONING, LATERAL	
.38 "positioning"	PURDUE PEGBOARD - RIGHT HAND TASK	Finger dexterity .46 (other studies: .46, .60) Position estimation
.43 "positioning"	MINNESOTA RATE OF MA-NIPULATION - PLACING	Finger dexterity .29 (Other studies: .31, .37, .36) Manual dexterity .42 (Other studies: .32, .53, .38, .73) Speed of arm movement (Other studies: .36, .24, -.13)
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing

		41. MOVEMENT ANALYSIS
Labels, Loadings	Test	Other Factors
.22	ANALOG ADDITION (ELECTRONIC)	Control precision .31 Single/Integ Diff Spec .23
.58	DOUBLE DIFFERENTIATION (ELECTRONIC)	
.21	MULTIPLICATION BY A CONSTANT (ELECTRONIC)	Mult. by constant (Electronic) Specific .41
.60	SINGLE DIFFERENTIATION (ELECTRONIC)	
.24	TRACKING TASK, CRITERION	Movement prediction .33 Multilimb Coordination .55
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing

		42. MOVEMENT PREDICTION
Labels, Loadings	Test	Other Factors
.43	DOUBLE DIFFERENTIATION/INTEGRATION (MECHANICAL)	
-.30	TIME SHARING (ELECTRONIC)	
.33	TRACKING TASK, CRITERION	Movement analysis .24 Multilimb coordination .55
.23	RUDDER CONTROL	Control precision .52 (other studies: .45, .44, .40, .40) Multilimb coordination .36 (other study: .48) Single Integ/Diff Specific .21
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger-dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Rate control Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing

		43. RATE CONTROL
Labels, Loadings	Test	Other Factors
.27	DIAL SETTING	Response Orientation .43 Control precision .40
.40	MOTOR JUDGMENT	Control precision .40
.37	MULTIDIMENSIONAL PURSUIT - BANK ALTITUDE	
.37	PURSIT CONFUSION - TIME-ON-TARGET	Control precision .12 (other studies: .48, .38)
.30 (other studies: .72, .58)	RATE CONTROL	Control precision .30 (other studies .01, .24) Reaction time .29 Spatial orientation (other studies .17, .47)
.55 (other studies: .64, -.06)	SINGLE DIMENSION PURSUIT	
.32 (other study: .17)	TWO-HAND COORDINATION	Multilimb coordination .33 (other study: .30) Control precision .25 (other study: .46)

		43. RATE CONTROL
Labels, Loadings	Test	Other Factors
.37	TWO-HAND PURSUIT	Arm-hand steadiness .26 Multilimb coordination .32
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Acceleration control Reaction time Mirror tracing Perceptual speed Time sharing
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		44. ACCELERATION CONTROL
Labels, Loadings	Test	Other Factors
	ACCELERATION CONTROL	
	PERCEPTUAL - MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Reaction time Mirror tracing Perceptual speed Time sharing

		45. REACTION TIME
Labels, Loadings	Test	Other Factors
.29	RATE CONTROL	Rate control .30 (other studies: .72, .58) Control precision .30 (other studies: .01, .24) Spatial Orientation (other studies: .17, .47)
.73 (other studies: .54, .73, .52)	JUMP VISUAL REACTION TIME TEST	Speed of arm movement .19 (other studies: .65, .54, .40, .54, .36)
.64 (other studies: .70, .48)	JUMP AUDITORY REACTION TIME TEST	Speed of arm movement .44 (other study: .31)
.56 (other studies: .72, .48)	VISUAL REACTION TIME	
.68 (other studies: .68, .63, .68, .51)	AUDITORY REACTION TIME	
.29	CONTROL ADJUSTMENT	Mechanical experience .26 Control Precision .29 (other study: .46)
.56	NO-SLIP BACK of the DRIVING PERFORMANCE BATTERY	Kinesthetic discrimination .39
.47	NO-SLIP FORWARD of the DRIVING PERFORMANCE BATTERY	Response orientation .26 Multilimb coordination .31

		45. REACTION TIME
Labels, Loadings	Test	Other Factors
	CALIFORNIA PSYCHOLOGICAL INVENTORY: FLEXIBILITY	Flexibility
	PERCEPTUAL - MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Mirror tracing Perceptual speed Time sharing
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		46. MIRROR TRACING
Labels, Loadings	Test	Other Factors
	MIRROR DRAWING	
(?)	PURSUIT CONFUSION - ERRORS	Arm-hand Steadiness (factorial studies: .36, -.04) Control precision (factorial studies: .04, .37)
(?)	PURSUIT CONFUSION - TIME-ON-TARGET	Rate Control (other studies: .37, .17) Control precision (Other studies: .12, .48, .38)
	PERCEPTUAL - MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Perceptual speed Time sharing

		47. DISCRIMINATION ABILITIES
Labels, Loadings	Test	Other Factors
KINESTHETIC Proprioception .26	CONTOUR of the DRIVING PERFORMANCE BATTERY	Multilimb coordination .31 Spatial orientation .26
Proprioception .52	NON-VISUAL of the DRIVING PERFORMANCE BATTERY	Spatial orientation .46
Proprioception .39	NO-SLIP BACK of the DRIVING PERFORMANCE BATTERY	Response orientation .26 Reaction time .56
Weight balance .25	DEEP KNEE BENDS - TIME LIMIT	Dynamic strength, legs: .25 Explosive strength, legs: .25
Weight balance .50	PULL WEIGHTS, ARMS - TIME LIMIT	Static strength, arm-hand-shoulder .33
Weight balance .44	PUSH WEIGHTS, ARMS - TIME LIMIT	Dynamic strength, arms-extensor .38 Static strength, arm-hand-shoulder .51

		47. DISCRIMINATION ABILITIES
Labels, Loadings	Test	Other Factors
KINESTHETIC Weight balance. .43	PUSH WEIGHTS, FEET - TIME LIMIT	Static strength, trunk .35
	KINESTHETIC SENSITIVITY MEASURE	
	MASS DISCRIMINATION TEST	
AUDITORY	AUDITORY TESTS	
	SEASHORE MEASURES OF MUSICAL TALENTS, REV.ED.	
Pitch discrimination	NAVY SONAR PITCH MEMORY TEST	
VISUAL: BRIGHTNESS DISCRIMINATION	BRAUNSTEIN AND WHITE APPARATUS	
	LIGHT INTENSITY APPARATUS	

		47. DISCRIMINATION ABILITIES
Labels, Loadings	Test	Other Factors
VISUAL: ACUITY, DYNAMIC	LANDOLT C RING APPARATUS II	
VISUAL: ACUITY, STATIC	AMERICAN OPTICAL SIGHT SCREENER	
	ARMED FORCES VISION TESTER	
	SNELLEN EYE CHART	
	LANDOLT C RINGS	
	INFLIGHT VISION TESTER	
	VISION TESTS	
	BAUSCH AND LOMB ORTHO-RATER	

		4'. DISCRIMINATION ABILITY
Labels, Loadings	Test	Other Factors
VISUAL: COLOR PERCEPTION	DVORINE COLOR TEST	
VISUAL: DEPTH PERCEPTION, STATIC	HOWARD-DOHLMAN APPARATUS	
VISUAL: DEPTH PERCEPTION, DYNAMIC	HOWARD-DOHLMAN APPARATUS	
	BAUSCH and LOMB ORTHO-RATER	
	BAUSCH and LOMB STEREO-SCOPIC TRAINER M-2	
VISUAL: NIGHT VISION	ARMY NIGHT SEEING TESTER	
	BIO-PHOTOMETER	
VISUAL: PERIPHERAL ACUITY	LANDOLT C RING APPARATUS I	
	AERIAL RECONNAISANCE TEST	
	AMERICAN OPTICAL BROMBACH PARIMETER	

		47. DISCRIMINATION ABILITIES
Labels, Loadings	Test	Other Factors
VISUAL: PERIPHERAL ACUITY		
r = -.5	SPEED OF IDENTIFICATION TEST	Perceptual speed (other studies: .46, .43, .45, .47, .53) Visualization (other studies: .38, .29, .06) Finger dexterity (other studies: .33, .10) Spatial orientation (other studies: .37, .32, .35, .16) Verbal comprehension (other studies .37, .20)

		48. PERCEPTUAL SPEED
Labels, Loadings	Test	Other Factors
.23	CONSEQUENCES TEST I	
.52	COORDINATE READING	Numerical ability .35 Spatial visualization (?).24
.58	DIAL AND TABLE READING	Numerical ability .47
	FINDING A'S TEST	
	GUILFORD-ZIMMERMAN APTITUDE SURVEY: PERCEPTUAL SPEED	
	IDENTICAL PICTURES TEST	
Perceptual abilities	LIFT-LINK INTELLECTUAL FUNCTIONS TESTER	Verbal, discovery of principles, general reasoning, numerical

		48. PERCEPTUAL SPEED
Labels, Loadings	Test	Other Factors
.31	FOLLOWING DIRECTIONS	Spatial Orientation .27 Integration .27
.29, final trials (other studies: .15, .35, .15)	INSTRUMENT COMPREHENSION TEST	Spatial Orientation, final .49 (other studies: .50, .46, .47, .69, .37) Mechanical experience, final .19 (other studies: .41, .16, .16)
.36, final trials (other study: .23)	PATTERN COMPREHENSION TEST	Spatial Visualization .60, final (other studies: .55, .60, .58) Spatial Orientation .31, final (other studies: .40, .33, .24) Verbal Comprehension (other studies: .46, .16)
.31	PURDUE PEGBOARD - ASSEMBLY TASK	Finger dexterity .43 (other studies: .55, .59 .35, .57) Manual dexterity (other studies: .21, .32, .32)
.35 (other study: .14)	DISCRIMINATION REACTION TIME (PRINTED)	Manual dexterity (other studies: .26, .34, .04, .15) Response orientation (other studies: .42, .52, .41, .38) Wrist-finger speed (other studies: .14, .30)

		48. PERCEPTUAL SPEED
Labels, Loadings	Test	Other Factors
.35	MAP MEMORY TEST I (REPRODUCTION)	Visualization (?) .25
	NUMBER COMPARISON TEST	
.26	NUMERICAL OPERATIONS	Numerical ability .67
.22	REPRODUCTION OF VISUAL DESIGNS TEST	Spatial visualization (?) .43 Visual memory (?) .55
.43	SPATIAL ORIENTATION II	Spatial visualization (?) .48

		48. PERCEPTUAL SPEED
Labels, Loadings	Test	Other Factors
.30 (other study: .45)	SPATIAL ORIENTATION TEST	Spatial orientation .34 (other study: .35) Manual dexterity .27
.46, final trials (other studies: .43, .45, .47, .53)	SPEED OF IDENTIFICATION TEST	Visualization: .38, final trials (other studies: .29, .06) Finger dexterity (other studies: .33, .10) Spatial orientation .37, final trials (other studies: .32, .35, .16) Verbal Comprehension (other studies: .37, .20) Peripheral acuity (other study: r = -.)
.34, first trials	UNIDIMENSIONAL MATCHING	Control precison .45, first trials Spatial visualization: .34, final trials Response orientation .61, final trials
.46 (other studies: .28, .50, .35)	VISUAL PURSUIT TEST	Control precision .24 (other studies: .36, .20) Spatial orientation .17 (other studies: .22, .35) Integration (other study: .33
	INTEGRATED CREW MONITORING SYSTEM	Numerical ability, Control precision

		48. PERCEPTUAL SPEED
Labels, Loadings	Test	Other Factors
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Length estimation Time interval estimation Spatial scanning Vigilance
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Time sharing

		SPATIAL SCANNING
Labels, Loadings	Test	Other Factors
.65, .27	CHOOSING A PATH	Spatial orientation .41 Spatial visualization .47
.30	COPYING TEST	Flexibility of closure .61 Spatial visualization .34 Spatial orientation .28
.30	CUBE COMPARISONS TEST	Flexibility of closure .27 Spatial visualization .32 Spatial orientation .61
.39	FORM BOARD TEST	Flexibility of closure .53 Spatial visualization .45 Spatial orientation .42
.51	HIDDEN PATTERNS TEST	Flexibility of closure .44 Spatial visualization .28
.29, .71	MAP PLANNING TEST	Flexibility of closure .44 Spatial visualization .48 Speed of closure .37 Memory span: Immediate .32
.52, .71	MAZE TRACING SPEED TEST	Speed of closure .39

		SPATIAL SCANNING
Labels, Loadings	Test	Other Factors
.33	PAPER FOLDING TEST	Spatial orientation .34 Spatial visualization .56
.48	SURFACE DEVELOPMENT TEST	Spatial orientation .46 Spatial visualization .48
	OBJECT IDENTIFICATION TEST	Spatial visualization, Speed of closure
-.36, .03, .02	VISUAL RECOGNITION TASK	Spatial visualization .55, -.34, -.15 Speed of closure -.50, .46, .55
.35	CARD ROTATIONS	Spatial orientation .42
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing

		SPATIAL SCANNING
Labels, Loadings	Test	Other Factors
	SINDBAD I (cont'd)	Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Vigilance

		49. TIME SHARING
Labels, Loadings	Test	Other Factors
Visual information .79	TIME SHARING TEST (MECHANICAL)	
Visual information .71	TIME SHARING TEST (PRINTED)	
Visual, psycho-motor, noise and tones	COMPLEX, TIME-SHARED, PERCEPTUAL-MOTOR SKILLS TASK	Manual dexterity Response orientation
	PERCEPTUAL-MOTOR PERFORMANCE TESTER	Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Position estimation Response orientation Control precision Speed of arm movement Multilimb coordination Position reproduction Movement analysis Movement prediction Rate control Acceleration control Reaction time Mirror tracing Perceptual speed

		TIME SHARING
Labels, Loadings	Test	Other Factors
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

50. CLOSURE ABILITIES: SPEED OF CLOSURE

Labels, Loadings	Test	Other Factors
.28, .65	CONCEALED WORDS TEST	Spatial visualization .46
.49, .46	GESTALT COMPLETION TEST	Flexibility: .41 Spatial visualization: .40
.37	MAP PLANNING TEST	Spatial scanning .29 Flexibility of closure .44 Spatial visualization .48
.39	MAZE TRACING SPEED TEST	Spatial scanning .52
	OBJECT IDENTIFICATION TEST	
.28	DOT PERCEPTION	Auditory rhythm discrimination .58 Auditory perceptual speed .32
.31	COPYING BEHIND	Auditory rhythm discrimination .32 Auditory perceptual speed .54
.55	MUTILATED WORDS	Spatial visualization .38

		50. CLOSURE ABILITIES: SPEED OF CLOSURE
Labels, Loadings	Test	Other Factors
-.50, .46, .55	VISUAL RECOGNITION TASK	Spatial visualization .55, -.34, -.15 Spatial scanning -.36, .03, .02

		51. CLOSURE ABILITIES: FLEXIBILITY OF CLOSURE
Labels, Loadings	Test	Other Factors
.43	CARD ROTATIONS TEST	Spatial orientation .53
.61 , .73	COPYING TEST	Spatial scanning .30 Spatial visualization .34 Spatial orientation .28
.27	CUBE COMPARISONS TEST	Spatial scanning .30 Spatial visualization .32 Spatial orientation .61
.53	FORM BOARD TEST	Spatial scanning .39 Spatial visualization .45 Spatial orientation .42
.40, .66	HIDDEN FIGURES TEST	
.44, .70	HIDDEN PATTERNS TEST	Spatial scanning .51 Spatial visualization .28

		51. CLOSURE ABILITIES: FLEXIBILITY OF CLOSURE
Labels, Loadings	Test	Other Factors
.44	MAP PLANNING TEST	Spatial scanning .29 Spatial visualization .48 Speed of closure .37
Analytic .50	FIGURE CLASSIFICATION II A	
Analytic .44	FIGURE CLASSIFICATION II B	
Imaginative .36, .45	COPYING	
Imaginative .38, .38	DESIGNS	
Imaginative .30, .41	GOTTSCHALDT FIGURES	
Imaginative .47	HIDDEN PICTURES	

		51. CLOSURE ABILITIES: FLEXIBILITY OF CLOSURE
Labels, Loadings	Test	Other Factors
	EMBEDDED FIGURES TEST	
	ROD AND FRAME TEST	
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial Scanning Vigilance

52. AUDITORY IDENTIFICATION ABILITIES: AUDITORY RHYTHM DISCRIMINATION

Labels, Loadings	Test	Other Factors
.56	Rhythm Discrimination	
.58	Dot Perception	Speed of closure .28 Auditory perceptual speed .32
.32	Copying Behind	Speed of closure .31 Auditory perceptual speed .54
.62	Hidden Tunes	Spatial visualization .28
.30	Army Radio Code	Auditory perceptual speed .51
	Seashore Measures of Musical Talents, Rev. ED: Rhythm discrimination	
	AUDITORY TESTS	

53. AUDITORY IDENTIFICATION ABILITIES: AUDITORY ~~PERCEPTUAL SPEED~~

Labels, Loadings	Test	Other Factors
.32	Dot Perception	Auditory rhythm discrimination .58 Speed of closure .28
.54	Copying Behind	Auditory rhythm discrimination .32 Speed of closure .31
.51	Army Radio Code	Auditory rhythm discrimination .30
.31	Concealed Figures	Spatial visualization .66
.28	Marking Accuracy	Spatial visualization .32 Manual dexterity (other studies: .32, .28, .38, .53, .73) Finger dexterity (other studies: .31, .36, .37) Aiming (other studies: .37, .37, .40, .52) Spatial orientation (other studies: .35, .40)

		54. SPATIAL ORIENTATION
Labels, Loadings	Test	Other Factors
.52 (other study: .61)	AERIAL ORIENTATION	
.39, first trials (other studies: .13, .40, .46, .16, .45, .34)	COMPLEX COORDINATION TASK	Spatial visualization, first trials .38 Speed of arm movement .37 (other studies: .09, .37, .21, .09, .09) Response orientation (other studies: .44, .43, .09, .22, .23) Multilimb coordination (other studies: .30, .38) Control precision .47 (other studies: .36, .45, .35, .44, .50)
.36 (other study: .36)	COORDINATE MOVEMENTS	Integration .40 (other study: .44)
.34 (other studies: .39, .24)	DIRECTION CONTROL	Spatial visualization (other study: .44, .34) Response Orientation .58 (other study: .23)
.34 (other study: .38)	DIRECTIONAL CONTROL	Response Orientation .27 Spatial visualization (other study: .34) Integration .30 (other study: .28)

		54. SPATIAL ORIENTATION
Labels, Loadings	Test	Other Factors
	SPATIAL ORIENTATION of the GUILFORD-ZIMMERMAN APTITUDE SURVEY	
.34	PAPER FOLDING TEST	spatial scanning .33 Spatial visualization .56
Spatial relations	SRA PRIMARY MENTAL ABILITIES	Verbal knowledge Numerical ability, Discovery of principles, Logical evaluation
.46	SURFACE DEVELOPMENT TEST	Spatial visualization. 48 Spatial scanning .48
.73, .44	FLAGS-ORIGINAL VERSION	Spatial orientation and visualization .64, .68, .73, .81
	FLAGS: A TEST OF SPACE THINKING	Spatial visualization
	VISUAL TASK	

54. SPATIAL ORIENTATION

Labels, Loadings	Test	Other Factors
Spatial relationships	CALIFORNIA TEST OF MENTAL MATURITY	Logical evaluation, numerical ability, verbal knowledge, associate memory: meaningful
.53, .42	CARD ROTATIONS TEST	Flexibility of closure .43 Spatial scanning .35
.41	CHOOSING A PATH	Spatial scanning .65
.28	COPYING TEST	Spatial scanning .30 Flexibility of closure .61 Spatial visualization .34
.61, .80	CUBE COMPARISONS TEST	Spatial scanning .30 Flexibility of closure .27 Spatial visualization .32
.42	FORM BOARD TEST	Spatial scanning .39 Flexibility of closure .53 Spatial visualization .45

		54. SPATIAL ORIENTATION
Labels, Loadings	Test	Other Factors
.27	FOLLOWING DIRECTIONS	Perceptual speed .31 Integration .27
.29	FORCED LANDINGS	Response orientation .36 Mechanical experience .35
.33	FORMATION VISUALIZATION	Spatial Visualization .61 (other study: .58)
.49, final trials (other studies: .50, .46, .47, .69, .37)	INSTRUMENT COMPREHENSION TEST	Mechanical experience, final .19 (other studies: .41, .16, .16) perceptual speed, final .29 (other studies: .15, .35, .15)
.36 (other studies: .54 & .53 on spatial orientation and visualization)	MACQUARRIES TEST FOR MECHANICAL ABILITY	Wrist-finger speed, aiming, finger and hand dexterity, visual acuity and muscular control Spatial Visualization
.35 (other study: .34)	MARKING ACCURACY TEST	Aiming (other studies: .52, .37, .40) Finger dexterity (other studies: .31, .36, .37) Manual dexterity .28 (other studies: .32, .38, .53, .73) Spatial visualization .32 Auditory perceptual speed .28

		54, SPATIAL ORIENTATION
Labels, Loadings	Test	Other Factors
.26	CONTOUR of the DRIVING PERFORMANCE BATTERY	Multilimb coordination .31 Kinesthetic discrimination .26
.37	DRIVING PERFORMANCE, CRITERION	Multilimb coordination .36
.51	MAZE of the DRIVING PERFORMANCE BATTERY	Response orientation .63
.46	NON-VISUAL of the DRIVING PERFORMANCE BATTERY	Kinesthetic discrimination .52
.62	PARALLEL-PARK LEFT of the DRIVING PERFORMANCE BATTERY	
.30 (initial)	TRACKING TASK, CRITERION	Multilimb coordination .30 (final), (other study: .55) movement prediction (other study: .33)

		54. SPATIAL ORIENTATION
Labels, Loadings	Test	Other Factors
.32	MECHANICAL COMPREHENSION TEST	Spatial Visualization .38 Mechanical experience .47
.58 (other study: .74 spatial orientation and visualization	MINNESOTA SPATIAL RELATIONS TEST	Spatial visualization
.31, final trials (other studies: .40, .33, .24)	PATTERN COMPREHENSION TEST	Spatial Visualization .60, final (other studies: .55, .60, .58) Perceptual speed .36, final (other study: .23) Verbal comprehension (other studies: .46, .16)
.17 (other study: .47)	RATE CONTROL	Rate control .72 (other studies: .30, .58) Control precision .01 (other studies: .30, .24) Reaction time (other study: .29)
.38 (other studies: .38, .72, .52, .37, .33, .14)	DISCRIMINATION REACTION TIME	Speed of arm movement .46 (other studies: .03, -.03, .25, .07, .05) Manual dexterity (other studies: .10, .34, .01) Response orientation .28 (other studies: .53, .67, .50, .29) Spatial Visualization .16 (other studies: .23, .10, .34)

		54. SPATIAL ORIENTATION
Labels, Loadings	Test	Other Factors
.20 (other studies: -.07, .39)	SANTA ANA FINGER DEXTERITY	Manual dexterity .38 (other studies: .38, .28, .47) Aiming (other studies: .17, .33) Finger dexterity .46 (other studies: .42, .06, .16)
.45	SIGNAL INTERPRETATION I	Response orientation .30
.34 (other study: .35)	SPATIAL ORIENTATION TEST	Manual dexterity .27 Perceptual speed .30 (other study: .45)
.37, final trials (other studies: .32, .35, .16)	SPEED OF IDENTIFICATION TEST	Spatial Visualization .38, final trials (other studies: .29, .06) Finger dexterity (other studies: .33, .10) Perceptual speed .46, final trials (other studies: .43, .45, .47, .53) Verbal comprehension (other studies: .37, .20) Peripheral acuity (other study: r = -.5)
.53	STICK AND RUDDER ORIENTATION	Spatial Visualization .57
.33 (other study .28, final trials)	TWO HAND MATCHING (BIMANUAL MATCHING)	Speed of arm movement .37 Response orientation .14 (other study: .61, final trials)

		54. SPATIAL ORIENTATION
Labels, Loadings	Test	Other Factors
.17 (other studies: .22, .35)	VISUAL PURSUIT TEST	Perceptual speed .46 (other studies: .28, .50, .35) Control precision .24 (other studies: .36, .20) Integration (other study: .33)
.46	VISUALIZATION OF MANEUVERS	Spatial visualization .47
	COMPLEX REACTION TIME TEST	Response orientation, Speed of arm movement
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		54. SPATIAL ORIENTATION
Labels, Loadings	Test	Other Factors
.46	TRAILER-BACK of the DRIVING PERFORMANCE BATTERY	
	HUMAN PERFORMANCE TESTER	Response orientation, Control precision, Multilimb coordination
	RESPONSE ANALYSIS TESTER	Response orientation

		55. SPATIAL VISUALIZATION
Labels, Loadings	Test	Other Factors
.38 (first 5 trials only)	COMPLEX COORDINATION TASK	Control precision .47 (other studies: .36, .45, .35, .44, .50) Multilimb coordination (other studies: .30, .38) Spatial orientation .39, first 5 trials only (other studies: 13, .40, .46, .16, .45, .34) Speed of arm movement .37 (other studies: .09, .37, .21, .09, .09 Response orientation (other studies: .44, .43, .09, .22, .23)
.34 (other study: .32)	COMPLEX MOVEMENTS	Integration .30 (other study: .40)
.34 (other study: .44)	DIRECTION CONTROL	Spatial orientation .24 (other studies: .39, .34)
.34	DIRECTIONAL CONTROL	Spatial orientation .38 (other studies; .34) Integration .28 (other study: .30) Response orientation (other study: .27)
.61 (other study .58)	FORMATION VISUALIZA	Spatial orientation .33

		55. SPATIAL VISUALIZATION
Labels, Loadings	Test	Other Factors
.09 (other studies .06, .38)	GENERAL MECHANICS TEST	Mechanical experience .64 (other studies: .62, .47, .81)
.38	MECHANICAL COMPREHENSION	Mechanical experience .47 Spatial orientation .32
.40, final trials, (other studies: .41, .41)	MECHANICAL PRINCIPLES TEST	Mechanical experience .61, final (other study: .49) Verbal comprehension (other study: .43)
.74, "Spatial Orientation and Visualization"	MINNESOTA SPATIAL RELATIONS TEST	Spatial orientation .58
.60, Final trials (other studies: .55, .60, .58)	PATTERN COMPREHENSION TEST	Perceptual speed .36, final (other studies: .23) Spatial orientation .31 final (other studies: .40 .33, .24) Verbal comprehension (other studies: .46, .16)

		55. SPATIAL VISUALIZATION
Labels, Loadings	Test	Other Factors
.34	COPYING TEST	Spatial scanning .30 Flexibility of closure .61 Spatial orientation .28
.32	CUBE COMPARISONS TEST	Spatial scanning .30 Flexibility of closure .27 Spatial orientation .61
.45, .89	FORM BOARD TEST	Spatial scanning .39 Flexibility of closure .53 Spatial orientation .42
	GUILFORD-ZIMMERMAN APTITUDE SURVEY: SPATIAL VISUALIZATION	
.28	HIDDEN PATTERNS TEST	Spatial scanning .51 Flexibility of closure .44

		55. SPATIAL VISUALIZATION
Labels, Loadings	Test	Other Factors
.34, final trials	UNIDIMENSIONAL MATCHING	Response orientation .61, final trials Perceptual speed .34, first trials Control percision .45, first trials
.47	VISUALIZATION OF MANEUVERS	Spatial orientation. .46
.54, .53 on Spatial orientation and visualization	MACQUARRIES TEST FOR MECHANICAL ABILITY	Spatial orientation .36
.46	CONCEALED WORDS TEST	Speed of closure .28
Visualization (?) .24	COORDINATE READING	Numerical ability .35 Perceptual speed .52

		55. SPATIAL VISUALIZATION
Labels, Loadings	Test	Other Factors
Visualization (?) .25	MAP MEMORY TEST I (REPRODUCTION)	Perceptual speed .35
Visualization (?) .46	MAP MEMORY TEST III (RECOGNITION)	
.48	MAP PLANNING TEST	Spatial scanning .29 Flexibility of closure .44 Speed of closure .37
Visualization (?) .39	MEMORY FOR RELATIONS TEST	Numerical ability .26 Visual memory (?) .28
.56, .93	PAPER FOLDING TEST	Spatial scanning .33 Spatial orientation .34
Visualization (?) .31	READING COMPREHENSION	Verbal knowledge .48 Kinesthetic - spatial reasoning .28

		55. SPATIAL VISUALIZATION
Labels, Loadings	**Test**	**Other Factors**
Visualization (?) .24	RECOGNITION TEST I (SYLLABLES)	Associate memory: rote .21
Visualization (?) .28	RECOGNITION TEST III (FIGURES)	Associate memory: meaningful .21 Visual memory (?) .26
Visualization (?) .43	REPRODUCTION OF VISUAL DESIGNS TEST	PErceptual speed. .22 Visual memory (?) .55
Visualization (?) .48	SPATIAL ORIENTATION II	Perceptual speed .43
.48, .90	SURFACE DEVELOPMENT TEST	Spatial scanning .48 Spatial orientation .46
Spatial orientation and visualization .64, .68, .73, .81	FLAGS-ORIGINAL VERSION	Spatial orientation .73, .44

		55. SPATIAL VISUALIZATION
Labels, Loadings	**Test**	**Other Factors**
	FLAGS: A TEST OF SPACE THINKING	
.28	HIDDEN TUNES	Auditory rhythm discrimination .62
.66	CONCEALED FIGURES	Auditory perceptual speed .31
.38	MUTILATED WORDS	Speed of closure .55
.32	MARKING ACCURACY TEST	Auditory perceptual speed .28 Manual dexterity (other studies: .32, .28, .38, .53, .73) Finger dexterity (other studies: .31, .36, .37) Aiming (other studies: .37, .37, .40, .52) Spatial orientation (other studies: .35, .40)
	OBJECT IDENTIFICATION TEST	Speed of closure, Spatial scanning
.40	GESTALT COMPLETION	Speed of closure .49, 46 Flexibility .40
.47	CHOOSING A PATH	Spatial scanning .27

		55. SPATIAL VISUALIZATION
Labels, Loadings	Test	Other Factors
.16 (other studies: .23, .10, .34)	DISCRIMINATION REACTION TEST	Speed of arm movement .46 (other studies: .05, -.03, .25, .07) Manual dexterity (other studies: .10, .34, .01) Response orientation .28, .67, .50, .29) Spatial orientation .38 (other studies: .38, .72, .52, .37, .33, .14)
.38, final trials (other studies: .29, .06	SPEED OF IDENTIFICATION	Finger dexterity (other studies: .33, .10) Perceptual speed .46, final (other studies: .43, .45, .47, .53) Spatial orientation .37 final (other studies: .32, .35, .16) Verbal comprehension (other studies: .37, .20) Peripheral acuity (other study: r = -.5)
.57	STICK AND RUDDER ORIENTATION	Spatial orientation .53
	STROMBERG DEXTERITY	Manual dexterity, Possibly visual acuity and nonverbal IQ.
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement

		55. SPATIAL VISUALIZATION
Labels, Loadings	Test	Other Factors
	SINDBAD I (cont'd)	Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Rote memory Length estimation Time interval estimation Spatial scanning Vigilance

		56. ASSOCIATE MEMORY: ROTE MEMORY
Labels, Loadings	Test	Other Factors
	FIRST AND LAST NAMES TEST	
.33	LETTER SPAN TEST II (AUDITORY)	Memory span: immediate .64
.36	MEANINGFUL MEMORY: NUMBER	Visual memory (?) .31
.20	MEANINGFUL MEMORY: PARAGRAPH	Verbal knowledge .51
.53	MEMORY FOR NUMBERS TEST	Visual memory (?) .21
.41	MEMORY FOR SYLLABLES TEST I	Doublet - nonsense - syllable paired associates .58

		56. ASSOCIATE MEMORY: ROTE MEMORY
Labels, Loadings	**Test**	**Other Factors**
.34	MEMORY FOR SYLLABLES TEST II	Doublet - nonsense - syllable paired associates .35
.64	MEMORY FOR WORDS TEST I (UNRELATED WORDS)	Visual memory (?) .25
.36	MEMORY FOR WORDS TEST II (RELATED WORDS)	Associate memory: meaningful .43
.27	NUMBER SPAN TEST I (AUDITORY)	Memory span: immediate .57 Visual memory (?) .21
.26	NUMBER SPAN TEST II (VISUAL)	Memory span: immediate .59
	OBJECT-NUMBER TEST	

		56. ASSOCIATE MEMORY: ROTE MEMORY
Labels, Loadings	Test	Other Factors
	PICTURE-NUMBER TEST	
.21	RECOGNITION TEST I (SYLLABLES)	Spatial visualization (?) .24
.53	RECOGNITION TEST II (WORDS)	
	DIGIT SYMBOL TEST of the WECHSLER-BELLEVUE	Stress responsivity, Writing speed
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation

		56. ASSOCIATE MEMROY: ROTE MEMORY
Labels, Loadings	Test	Other Factors
	SINDBAD I (cont'd)	Spatial visualization Immediate memory span Length estimation Time interval estimation Spatial scanning Vigilance

		57. ASSOCIATE MEMORY: MEANINGFUL MEMORY
Labels, Loadings	Test	Other Factors
Memory	CALIFORNIA TEST OF MENTAL MATURITY	Logical evaluation, Spatial orientation, Numerical ability, Verbal knowledge
.44	CONSEQUENCES TEST II	
.22	MEANINGFUL MEMORY: PICTURE	
.33	MEMORY FOR IDEAS TEST	Auditory memory (?) .54
.48	MEMORY FOR LIMERICKS TEST	Auditory memory (?) .32
.43	MEMORY FOR WORDS TEST II (RELATED WORDS)	Associate memory: rote .36

		57. ASSOCIATE MEMORY: MEANINGFUL MEMORY
Labels, Loadings	Test	Other Factors
.21	RECOGNITION TEST III (FIGURES)	Visual memory (?) .26 Spatial visualization (?).28
.53	SENTENCE COMPLETION TEST	

		58. MEMORY SPAN: IMMEDIATE MEMORY
Labels, Loadings	Test	Other Factors
.97	AUDITORY NUMBER SPAN TEST	
	DIGIT SPAN of the WAIS	Stress responsivity
	IT SPAN - VISUAL	
.66	LETTER SPAN TEST I (VISUAL)	
.64	LETTER SPAN TEST II (AUDITORY)	Associate memory: rote .33
.75	LETTER SPAN-AUDITORY	
.41	MEMORY FOR INSTRUCTIONS TEST	
.57	NUMBER SPAN TEST I (AUDITORY)	Associate memory: rote .27 Visual memory (?) .21

		58. MEMORY SPAN: IMMEDIATE MEMORY
Labels, Loadings	**Test**	**Other Factors**
.59	NUMBER SPAN TEST II (VISUAL)	Associate memory: rote .26
.24	SENTENCE SPAN TEST	Verbal knowledge .38 Auditory memory (?) .28
.32	MAP PLANNING	Spatial scanning .71
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Length estimation Time interval estimation Spatial scanning Vigilance

		59. MEMORY SPAN: INTEGRATION I
Labels, Loadings	Test	Other Factors
.57	COMBAT PLANES	
.46	FLIGHT FORMATION	
.59	SIGNAL INTERPRETATION II	

		60. VISUAL MEMORY
Labels, Loadings	Test	Other Factors
.28	ARITHMETIC REASONING, TEST I	Verbal comprehension .25 Numerical ability .54 Visualization (?) .28 Kinesthetics - spatial - reasoning (?) .36
.24	MAP MEMORY TEST II (VERBAL RECALL)	
.31	MEANINGFUL MEMORY: NUMBER	Associate memory: rote .36
.21	MEMORY FOR NUMBERS TEST	Associate memory: rote .53
.28	MEMORY FOR RELATIONS TEST	Numerical ability .26 Spatial visualization (?) .39
.25	MEMORY FOR WORDS TEST I (UNRELATED WORDS)	Associate memory: rote .64

		60. VISUAL MEMORY
Labels, Loadings	Test	Other Factors
.21	NUMBER SPAN TEST I (AUDITORY)	Associate memory: rote .27 Memory span: immediate .57
.26	RECOGNITION TEST III (FIGURES)	Associate memory: meaningful .21 Spatial visualization (?).28
.55	REPRODUCTION OF VISUAL DESIGNS TEST	Perceptual speed .22 Spatial visualization (?) .43
	PERFORMANCE PANEL	Response orientation, Numerical ability, Vigilance

		AUDITORY MEMORY
Labels, Loadings	Test	Other Factors
.54	MEMORY FOR IDEAS TEST	Associate memory: meaningful .33
.32	MEMORY FOR LIMERICKS TEST	Associate memory: meaningful .48
.28	SENTENCE SPAN TEST	Verbal knowledge .38 Memory span: immediate .24

		61. GROUP COMPOSITION: SIMILARITY, PERCEIVED
Labels, Loadings	Test	Other Factors
	SOCIOMETRIC MEASURES	Compatibility, Cohesiveness, Leadership
	ASSUMED SIMILIARTY BETWEEN OPPOSITES	Leadership
	LEAST PREFERRED COWORKER	Leadership
	ASSUMED SIMILIARITY MEASURES	Leadership

		62. GROUP COMPOSITION: COMPATIBILITY
Labels, Loadings	Test	Other Factors
	SOCIOMETRIC MEASURES	Cohesiveness; Similarity, perceived; Leadership
Organizational Compatibility	FIRO-F	
	EDWARDS PERSONAL PREFERENCE SCHEDULE	Conformity and/or control reaction, Desired level of output; Closeness of interactions, Amount of interaction, Time estimation
	DOGMATISM TEST	
	ARMY GROUP COMPOSITION BATTERY	Strength of interaction, Conformity and/or control reaction, Desired level of output Adjustment potential

		62. GROUP COMPOSITION: COMPATIBILITY
Labels, Loadings	Test	Other Factors
Homogeneous with respect to personal vs. counter-personal interaction behavior	FIRO-B	Leadership, Closeness of interactions, Conformity and/or control reaction Amount of interaction
Pair-counterpairing, dependency-counter-dependency	GROUP COMPATIBILITY TEST	Closeness of interaction, Agression reaction, Conformity and/or control reaction
Cooperativeness	GZTS: PERSONAL RELATIONS SCALE	
	DOGMA SCALE	Conformity and/or control reaction; Flexibility, rigidity reaction

63. GROUP COMPOSITION: COHESIVENESS

Labels, Loadings	Test	Other Factors
	ATTRACTION TO GROUP TEST	
	SOCIOMETRIC MEASURES	Similarity, perceived; Compatibility; Leadership

		64. GROUP COMPOSITION: LEADERSHIP
Labels, Loadings	Test	Other Factors
	SOCIOMETRIC MEASURES	Similarity, perceived; Compatibility; Cohesiveness
	GZTS: ASCENDENCE SCALE	
Sociometric	ASSERTIVENESS TEST BATTERY	Strength of interaction
	BEHAVIOR SCALE	Aggression reaction Conformity and/or control reaction Desired level of output Desired type of output
Sociometric	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: Q2, E, N, Q3	

		64. GROUP COMPOSITION: LEADERSHIP
Labels, Loadings	Test	Other Factors
Salient	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: Q2, C, H, O, Q3, Q4	
Problem solving	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: B, F, G, H, O, Q3	
Elected	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: F, G, H, M, O, Q3	
Supervisory	LEADERSHIP OPINION QUESTIONNAIRE	
Adequacy	GROUP DIMENSIONS DESCRIPTION QUESTIONNAIRE	

64. GROUP COMPOSITION: LEADERSHIP

Labels, Loadings	Test	Other Factors
	SOCIOMETRIC MEASURES	
Elected	LEADERSHIP RATING SCALE	
	ASSUMED SIMILARITY MEASURES	Similarity, perceived
	ASSUMED SIMILARITY BETWEEN OPPOSITES	Similarity, perceived
	LEAST PREFERRED CO-WORKER	Similarity, perceived
	MATURITY SCALE	Emotionality, sensitivity of reaction

		64. GROUP COMPOSITION LEADERSHIP
Labels, Loadings	Test	Other Factors
Manual Performance	GROUP SQUARES TEST	
Supervisory .48 correlation with superiors' ratings	SELF DESCRIPTION INVENTORY: SUPERVISORY ABILITY SCALE	
	TAT: GROUP COMPOSITION	
Upper vs. Middle management	DECISION MAKING APPROACH SCALE	
	FIRO-B	Group compatibility, Closeness of interactions, Amount of interaction Conformity and/or control reaction

		65. CLOSENESS OF INTERACTIONS
Labels, Loadings	Test	Other Factors
Affection, expressed and wanted	FIRO-B	Group compatibility, Leadership, Amount of interaction, Conformity and/or control reaction
Closeness and intimacy desired	GROUP COMPATIBILITY TEST: PAIRING AND COUNTERPAIRING SCALES	
Friendly cyclothymia vs. Taciturn, schizothymia	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR A	
Independent self-sufficiency	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR Q2	Task vs social orientation
Pairing	REACTIONS TO GROUP SITUATIONS TEST	Amount of interaction, Agression reaction, Conformity and/or control reaction.

		65. CLOSENESS OF INTERACTIONS
Labels, Loadings	Test	Other Factors
Socially active	GZTS: SOCIABILITY SCALE	
Affiliation needs	EDWARDS PERSONAL PREFERENCE SCHEDULE	Group Compatibility, Amount of interaction, Conformity and/or control reaction, Desired level of output
Sociability	BORGATTA'S GROUP PERSONALITY TEST	Strength of interaction; Emotionality, sensitivity of reaction; Desired type of output
Aloof sophistication	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR N	
Sociable	THURSTONE TEMPERAMENT SCHEDULE	Strength of interaction Self control reaction Desired level of output

		65. CLOSENESS OF INTERACTIONS
Labels, Loadings	Test	Other Factors
Sociability	BEHAVIORAL SELF-RATING FORM	Strength of interaction Emotionality, sensitivity of reaction Desired type of output
Interaction-Orientation	THE ORIENTATION INVENTORY	Amount of interaction; Subjectivity, objectivity reaction; Desired type of output
Sociability	CALIFORNIA PSYCHOLOGICAL INVENTORY	Amount of interaction; Conformity and/or control reaction; Flexibility, rigidity reaction; Self control reaction

		66. AMOUNT OF INTERACTION
Labels, Loadings	Test	Other Factors
Inclusion, expressed and wanted	FIRO-B	Group compatibility, Leadership, Closeness of interaction, Conformity and/or control reaction
Withdrawal	AGGRESSION TEST	Agression reaction
Self-conscious withdrawn schizothymia	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR H	
Withdrawal, Intraversion	MMPI	Emotionality, sensitivity of reaction; Desired level of output; Self control reaction
Flight	REACTIONS TO GROUP SITUATIONS TEST	Closeness of interactions, Agression reaction, Conformity and/or control reaction

		66. AMOUNT OF INTERACTION
Labels, Loadings	Test	Other Factors
Withdrawal	CALIFORNIA TEST OF PERSONALITY	Conformity and/or control reaction
Adventurous cyclothymia	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR H	
Interaction - orientation	THE ORIENTATION INVENTORY	Closeness of interactions; Subjectivity, objectivity reaction; Desired type of output
Extroversion	MAUDSLEY PERSONALITY INVENTORY	Emotionality, sensitivity of reaction
Extroversion	EYSENCK PERSONALITY INVENTORY	Emotionality, sensitivity of reaction
Reflective meditation	GZTS: THOUGHTFULNESS SCALE	

		66. AMOUNT OF INTERACTIONS
Labels, Loadings	Test	Other Factors
Affiliation need	EDWARDS PERSONAL PREFERENCE SCHEDULE	Group compatibility, Closeness of interaction, Conformity and/or control reaction, Desired level of output
Socialization	CALIFORNIA PSYCHOLOGICAL INVENTORY	Closeness of interactions; Conformity and/or control reaction; Flexibility, rigidity reaction; Self control

		67. STRENGTH OF INTERACTIONS
Labels, Loadings	Test	Other Factors
Initiative	SELF DESCRIPTION INVENTORY: INITIATIVE SCALE	
Assertiveness	BEHAVIORAL SELF-RATING FORM	Closeness of interactions Emotionality, sensitivity of reaction Desired type of output

		67. STRENGTH OF INTERACTION
Labels, Loadings	Test	Other Factors
Assertiveness	BORGATTA'S GROUP PERSONALITY TEST	Closeness of interactions; Emotionality, sensitivity of reaction; Desired type of output
	ARMY GROUP COMPOSITION BATTERY	Group compatibility Conformity and/or control reaction Desired level of output Adjustment potential
Dominant	THURSTONE TEMPERAMENT SCHEDULE	Closeness of interactions Self control reaction Desired level of output
Assertiveness	ASSERTIVENESS TEST BATTERY	Leadership
Dominance	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR E	

68. AGGRESSION REACTION

Labels, Loadings	Test	Other Factors
Aggressive nonconformity	AGGRESSIVE NONCONFORMITY BATTERY	
Disapproval of certain authority symbols	GROUP COMPATIBILITY TEST: COUNTER-DEPENDENCY SCALE	
Bohemian symbolic aggressiveness	SIXTEEN FACTOR PERSONALITY QUESTIONNAIRE: FACTOR M	
Fight	REACTIONS TO GROUP SITUATIONS TEST	Closeness of interactions, Amount of interaction, Conformity and/or control reaction
High toleration of hostility and frustration	GZTS: FRIENDLINESS SCALE	Conformity and/or control reaction

		68. AGGRESSION REACTION
Labels, Loadings	Test	Other Factors
	AGGRESSION TEST	Amount of interaction
	BEHAVIOR SCALE	Leadership Conformity and/or control reaction Desired level of output Desired type of output

69. CONFORMITY AND/OR CONTROL REACTION

Labels, Loadings	Test	Other Factors
Inhibition, Sociable willingness	OBJECTIVE-ANALYTIC PERSONALITY TEST BATTERY	Self control reaction Emotionality, sensitivity of reaction Desired level of output Desired type of output
Dependency	GROUP COMPATIBILITY TEST: DEPENDENCY SCALE	
Control, expressed and wanted; Dependency	FIRO-B:	Group compatibility, Leadership, Closeness of interaction, Amount of interaction
Dependency	REACTIONS TO GROUP SITUATIONS TEST	Closeness of interaction, Amount of interaction, Aggression reaction
	NEED TO AFFILIATE	

		69. CONFORMITY AND/OR CONTROL REACTION
Labels, Loadings	Test	Other Factors
Dominance, Deference, Autonomy	EDWARDS PERSONAL PREFERENCE SCHEDULE	Group compatibility, Closeness of interactions, Amount of interaction, Desired level of ouput
Self-reliance	POWER ORIENTATION BATTERY	
Task vs. Group Orientation, Lack of resolution vs. independent self sufficiency	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR Q2	
	CALIFORNIA TEST OF PERSONALITY	Amount of interaction
Nonconformity	ASSUMED SIMILARITY BETWEEN OPPOSITES	
	CPI: ACHIEVEMENT VIA INDEPENDENCE	

		69. CONFORMITY AND/OR CONTROL REACTION
Labels, Loadings	Test	Other Factors
Resistance of social pressures	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR Q3	
	ARMY GROUP COMPOSITION BATTERY	Group compatibility Strength of interaction Desired level of output Adjustment potential
Conformity	CONFORMITY TEST	
	ASCH-TYPE GROUP SITUATIONS	
	CRUTCHFIELD-TYPE GROUP SITUATIONS	
Yielding	TAT	

		69. CONFORMITY AND/OR CONTROL REACTIONS
Labels, Loadings	Test	Other Factors
Domination accepting, urge to please	GZTS: FRIENDLINESS SCALE	Agression reaction
	BEHAVIOR SCALE	Leadership Aggression reaction Desired level of output Desired type of output
Authoritarian submission and aggression	CALIFORNIA F SCALE	Flexibility, rigidity reaction
General authoritarianism	DOGMA SCALE	Group compatibility; Flexibility, rigidity reaction
Prejudice, authoritarianism	ETHNOCENTRISM SCALE	
Conservatism	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR Q1	

		69. CONFORMITY AND/OR CONTROL REACTIONS
Labels, Loadings	Test	Other Factors
Abstractness vs. Integrative complexity	MACHIAVELLIAN SCALE	
Abstractness vs. Integrative complexity	ASCENDENCE-SUBMISSION SCALE	
Dependency adjustment	SPACE CABIN SIMULATOR	Sleep adjustment, interpersonal relations
Ego strength	BARRON'S EGO-STRENGTH SCALE	Emotionality, sensitivity of reaction

		70. FLEXIBILITY: RIGIDITY REACTION
Labels, Loadings	Test	Other Factors
	RIGIDITY BATTERY	
	GOUGH-SANFORD RIGIDITY SCALE	
Conservatism	SIXTEEN FACTOR PERSONALITY INVENTORY: FACTOR Q_1	
Interference	STROOP COLOR - WORD TEST	Color difficulty, speed
	CPI: FLEXIBILITY SCALE	
Perceptual social complexity	IMPRESSION FORMATION TEST	

		70. FLEXIBILITY: RIGIDITY REACTION
Labels, Loadings	Test	Other Factors
Broad or narrow categorization	CATEGORY WIDTH	
	SENTENCE COMPLETION TEST	General reasoning
	SITUATIONAL INTER-PRETATION TEST	
	CALIFORNIA F SCALE	
	DOGMA SCALE	Group compatibility, Conformity and/or control reaction
	DOGMATISM TEST	

		71. SELF CONTROL REACTION
Labels, Loadings	Test	Other Factors
Impulsive	THURSTONE TEMPERAMENT SCHEDULE	Closeness of interactions Strength of interaction Desired level of output
Self-seniment control	OBJECTIVE-ANALYTIC PERSONALITY TEST BATTERY	Conformity and/or control reaction Emotionality, sensitivity of reaction Desired level of output Desired type of output
	CPI: SELF-CONTROL SCALE	
Restraint, deliberate seriousness	GZTS: RESTRAINT SCALE	
Inhibition of emotional expression	GZTS: MASCULINITY SCALE	Desired type of output
Action impulsiveness	BARRATT IMPULSIVENESS SCALE	

		71. SELF CONTROL REACTION
Labels, Loadings	Test	Other Factors
Impulsity vs. Intellectual control	MMPI	Amount of interaction; Desired level of output; Emotionality, sensitivity reaction

		72. SUBJECTIVITY: OBJECTIVITY REACTION
Labels, Loadings	Test	Other Factors
Paranoid suspiciousness vs Trusting	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR L	Trusting
Worrying, suspicious anxiety vs. Trustfulness	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR O	
Objectivity; less egoism, sensitiveness and suspiciousness	GZTS: OBJECTIVITY SCALE	
Self-orientation	THE ORIENTATION INVENTORY	Closeness of interaction, Amount of interaction, Desired type of output

		73. EMOTIONALITY, SENSITIVITY REACTION
Labels, Loadings	Test	Other Factors
Emotionality	BORGATTA'S GROUP PERSONALITY TEST	Closeness of interactions, Strength of interaction, Desired type of output
Ego strength	BARRON'S EGO-STRENGTH SCALE	Conformity and/or control reaction
	AUTONOMIC NERVOUS SYSTEM MEASURES	
	ANXIETY DIFFERENTIAL	
Anxiety	OBJECTIVE-ANALYTIC PERSONALITY TEST BATTERY	Conformity and/or control reaction Self control reaction Desired level of output Desired type of output
Stress responsitivity	BREATH HOLDING TIME-GSR RANGE	Adjustment potential

		73. EMOTIONALITY SENSITIVITY REACTION
Labels, Loadings	Test	Other Factors
Stress responsitivity	STRESS-GSR RANGE	Adjustment potential
.267	SELF-REPORTED MOTIVATIONAL QUESTIONNAIRE	
	PRESSURE CHAMBER EXPERIENCE	
	DIGIT SPAN TEST	Memory span: immediate
	DIGIT SYMBOL TEST	Associate memory: rote
	CRITICAL FLICKER FUSION	

		73. EMOTIONALITY SENSITIVITY REACTION
Labels, Loadings	Test	Other Factors
	TREMBLEOMETER	
	SUBJECTIVE STRESS SCALE	
	SUBJECTIVE SYMPTOMOLOGY QUESTIONNAIRE	
Performance stability	VERBAL-NUMBERICAL TEST	Verbal and Numerical abilities
	COLD PRESSOR TEST	
	FAILURE STRESS	

		73. EMOTIONALITY, SENSITIVITY REACTION
Labels, Loadings	Test	Other Factors
	SUBJECTIVE STRESS QUESTIONNAIRE	
	THE IPAT ANXIETY SCALE QUESTIONNAIRE	
Neuroticism	EYSENCK PERSONALITY INVENTORY	Amount of interaction
Emotional maturity vs. General neuroticism	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR C	
Defense mechanism activity	DEFENSE MECHANISM TEST	
Weakness	MMPI	Amount of interaction, Desired level of output, Self control reaction

		73. EMOTIONALITY, SENSITIVITY REACTION
Labels, Loadings	Test	Other Factors
Self-assurance	SELF-DESCRIPTION INVENTORY: SELF-ASSURANCE SCALE	
Emotional stability	GZTS: EMOTIONAL STABILITY SCALE	
Emotionality	BEHAVIORAL SELF-RATING FORM	Closeness of interactions Strength of interaction Desired type of output
Manifest anxiety	FREEMAN MANIFEST ANXIETY TEST	
Manifest anxiety	PERSONAL INVENTORY BAROMETER	Adjustment potential

		73. EMOTIONALITY, SENSITIVITY REACTION
Labels, Loadings	Test	Other Factors
Manifest anxiety	TAYLOR MANIFEST ANXIETY SCALE	
Anxiety and stress lability	WORRYING SCALE	
Nervous tension	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR Q4	
State and trait anxiety	STATE-TRAIT ANXIETY INVENTORY	
Self-confidence	SPATIAL REASONING -A	
Self-confidence	SELF-CREDITING - V	

		73. EMOTIONALITY, SENSITIVITY REACTION
Labels, Loadings	Test	Other Factors
	MATURITY SCALE	Leadership
Fear of failure	HOSTILE PRESS SYSTEM FOR THE TAT	Desired level of output
Neuroticism	MAUDSLEY PERSONALITY INVENTORY	Amount of interaction

		74. DESIRED LEVEL OF OUTPUT
Labels, Loadings	Test	Other Factors
Active, vigorous	THRUSTONE TEMPERAMENT SCHEDULE	Closeness of interactions Strength of interaction Self control reaction
Exuberance, apathy, neural reserves vs. neuroticism	OBJECTIVE-ANALYTIC PERSONALITY TEST BATTERY	Conformity and/or control reaction Self control reaction Emotionality, sensitivity of reaction Desired type of output
Long-term motivation	BEHAVIOR INTERPRETATION INVENTORY	
Motivational state	HANDGRIP of the BASIC FITNESS TEST	Static strength: arm-hand-shoulder emphasis .72
Motivation to comply with instructions	TAT: VERBAL OUTPUT	

		74. DESIRED LEVEL OF OUTPUT
Labels, Loadings	Test	Other Factors
	MOTIVATION SCALE	
Academic aspiration	LEVEL OF ACADEMIC ASPIRATION	
	ARMY GROUP COMPOSITION BATTERY	Group compatibility Strength of interaction Conformity and/or control reaction Adjustment potential
	NEED TO ACHIEVE	
	MMPI	Self control reaction; Amount of interaction; Emotionality, sensitivity of reaction
Level of aspiration	HOSTILE PRESS SYSTEM for the TAT	Emotionality, sensitivity of reaction

		74. DESIRED LEVEL OF OUTPUT
Labels, Loadings	Test	Other Factors
Achievement need	EDWARDS PERSONAL PREFERENCE SCHEDULE	Group compatibility, Closeness of interactions, Amount of interaction, Conformity and/or control reaction Desired level of output
Strong drive, energy and rapid activity pace	ITS: GENERAL ACTIVITY SCALE	
Persistance	PERSISTANCE TEST	
Attitude	ATTITUDE SCALE	
Persistance	BEHAVIOR SCALE	Leadership Aggression reaction Conformity and/or control reaction Desired type of output

		75. DESIRED TYPE OF OUTPUT
Labels, Loadings	Test	Other Factors
Critical practicality	OBJECTIVE-ANALYTIC PERSONALITY TEST BATTERY	Conformity and/or control reaction Self control reaction Emotionality, sensitivity of reaction Desired level of output
Tender minded sensitivity vs. Hard headed practicality	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR I	
Radicalism vs. Conservatism, Experimental intellectual vs. "matter-of-fact"	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR Q1	
"Hard-boiled", masculine interests and activities	GZTS: MASCULINITY SCALE	Self control reaction
Task orientation	THE ORIENTATION INVENTORY	Closeness of interaction; Amount of interaction; Subjectivity, objectivity reaction

		75. DESIRED TYPE OF OUTPUT
Labels, Loadings	Test	Other Factors
Interest	LSU INTEREST INVENTORY	
Task responsibility	BORGATTA'S GROUP PERSONALITY TEST	Closeness of interactions; Strength of interaction; Emotionality, sensitivity of reaction
Surgency vs. desurgency	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR F	
Serious deliberation vs. happy-go-lucky	GZTS: RESTRAINT SCALE	
Conscientious vs. expedient, Interiorized social norms	SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE: FACTOR G	
Responsibility	BEHAVIORAL SELF-RATING FORM	Closeness of interactions Strength of interaction Emotionality, sensitivity of reaction

		75. DESIRED TYPE OF OUTPUT
Labels, Loadings	Test	Other Factors
Carefulness	SCORE CHECKING	
Carefulness	LETTER COMPARISON	
Values	KLUCKHORN VALUE ORIENTATION	
Carefulness	COUNTING ACCURACY	
Orderliness	BEHAVIOR SCALE	Leadership Aggression reaction Conformity and/or control reaction Desired level of output
Carefulness	BROKEN PATTERN	

		ADJUSTMENT POTENTIAL, OPTIMAL: LIMITED
Labels, Loadings	Test	Other Factors
.882 to .932, Limited Adjustment	STRESS-GSR RANGE	
.185 to .513, Limited adjustment	BREATH HOLDING TIME-GSR RANGE	
.213, Optimal NAVY Adjustment	GENERAL CLASSIFICATION TEST	Verbal I.Q.
.186, Optimal adjustment	PERSONAL INVENTORY BAROMETER	Emotionality, sensitivity of reaction
	INCOMPLETE SENTENCES TEST	
	SELF-APPRAISAL BLANK	
	ARMY GROUP COMPOSITE BATTERY	Group compatibility Strength of interaction Conformity and/or control reaction Desired level of output

		GROUP PERFORMANCE
Labels, Loadings	Test	Other Factors
	GROUP TASKS	
	GROUP-INTERACTION PICTURE STORY TEST	
	PROBLEM SOLVING TEST, 401B, HFORL	
	GROUP SQUARES TASK	Leadership
	PURDUE PEGBOARD	
	CROSSWORD PUZZLE	

		MECHANICAL KNOWLEDGE
Labels, Loadings	Test	Other Factors
	ELECTRICAL INFORMATION	
	GUILFORD-ZIMMERMAN APTITUDE SURVEY: MECHANICAL KNOWLEDGE	
Experience .26	CONTROL ADJUSTMENT	Control precision .38 (other study: .46) Reaction time .29
Comprehension	TEST OF MECHANICAL COMPREHENSION	
	MECHANICAL INFORMATION	
	OFFICER QUALIFICATION TEST	Verbal knowledge, Numerical ability
	TOOL KNOWLEDGE TEST	

		MECHANICAL KNOWLEDGE
Labels, Loadings	Test	Other Factors
.35	FORCED LANDINGS	Response orientation .36 Spatial orientation .29
.64 (other studies: .81, .62, .47)	GENERAL MECHANICS	Spatial visualization .09 (other studies: .06, .38)
.19, final trials (other studies: .41, .16, .16)	INSTRUMENT COMPREHENSION TEST	Spatial orientation, final .49 (other studies: .50, .46, .47, .69, .37) Perceptual speed, final .29 (other studies: .15, .35, .15)
.47	MECHANICAL COMPREHENSION TEST	Spatial orientation .32 Visualization .38
.51, final trials (other study: .49)	MECHANICAL PRINCIPLES TEST	Spital visualization final, .40 (other studies: .41, .41) Verbal comprehension (other study: .43)

		INTEGRATION
Labels, Loadings	Test	Other Factors
.30 (other study: .40)	COMPLEX MOVEMENTS	Spatial visualization .34 (other study: .32)
.40 (other study: .44)	COORDINATE MOVEMENTS	Spatial Orientation .36 (other study .36)
.30 (other study: .28	DIRECTIONAL CONTROL	Spatial Orientation .34 (other study: .38) Spatial Visualization (other study: .34) Response Orientation .27
.27	FOLLOWING DIRECTIONS	Perceptual Speed .31 Spatial Orientation .27
.33	VISUAL PURSUIT TEST	Perceptual speed .35 (other studies: .46, .28, .50) Control Precision (Other studies: .24, .36, .20) Spatial Orientation .35 (other studies: .17, .22)

		LENGTH ESTIMATION
Labels, Loadings	Test	Other Factors
	ESTIMATION OF LENGTH TEST	
	NEARER POINT TEST	
	SHORTEST ROAD TEST	
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Time interval estimation Spatial scanning Vigilance

		TIME ESTIMATION
Labels, Loadings	Test	Other Factors
	TIME ESTIMATION: 15, 90, 180 and 300 SECONDS	
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Spatial scanning Vigilance
	ORDER SCALE of the EDWARDS PERSONAL PREFERENCE SCHEDULE	
	VARIABLE INTERVAL TIME ANALYZER	

		MOTION SICKNESS SUSCEPTIBILITY
Labels, Loadings	Test	Other Factors
	BRIEF VESTIBULAR DISORIENTATION TEST	
	SPIRAL AFTER-EFFECTS	
	ARTS	

		CORIOLIS REACTIVITY
Labels, Loadings	Test	Other Factors
	SLOW ROTATION ROOM	
	SPATIAL DISORIENTATION DEMONSTRATOR	Spatial orientation

		SPATIAL DISORIENTATION SUSCEPTIBILITY
Labels, Loadings	Test	Other Factors
	SPATIAL DISORIENTATION DEMONSTRATOR	Coriolis reactivity
	ARTS	

		METABOLIC LIMITATIONS
Labels, Loadings	Test	Other Factors
	METABOLIC LIMITATIONS	

		VIGILANCE, ALERTNESS
Labels, Loadings	Test	Other Factors
	VIGILANCE TASK	
	WONDERLIC PERSONNEL TEST	Intelligence
	CALIFORNIA PSYCHOLOGICAL INVENTORY: ACHIEVEMENT VIA INDEPENDENCE and SELF-CONTROL	Personality
	PERFORMANCE PANEL	Response orientation, Numerical ability, Visual memory
	SINDBAD I	Numerical ability Discovery of principles Arm-hand steadiness Wrist-finger speed Finger dexterity Manual dexterity Response orientation Control precision Speed of arm movement Multilimb coordination Rate control Reaction time Perceptual speed Time sharing Flexibility of closure Spatial orientation Spatial visualization Rote memory Immediate memory span Length estimation Time interval estimation Spatial scanning

		VISUAL FEEDBACK
Labels, Loadings	Test	Other Factors
.43	O'Connor Finger Dexterity Test	Finger dexterity (other studies: .53, .59, .49 .55) Manual dexterity .50 (other studies .25)

		AIMING
Labels, Loadings	Test	Other Factors
.57 (other studies: .63, .36)	AIMING	Wrist-finger speed .52 (other study: .45) Finger Dexterity .30 (other studies: .12, .35)
	"AIMING" TEST	
	A MACQUARRIES TEST FOR MECHANICAL ABILITY	Finger and hand dexterity, visual acuity and muscular control, spatial relations, aiming and wrist-finger speed
.52 (other studies: .37, .40)	MARKING ACCURACY TEST	Manual dexterity .28 (other studies: .32, .33, .53, .73) Spatial orientation (other studies: .35, .34) Finger dexterity (other studies: .31, .35, .37) Spatial visualization .32 Auditory perceptual speed .28
	PENNSYLVANIA BI-MANUAL WORK SAMPLE	Finger dexterity and Multi-limb coordination
.63 (other study: .68)	PURSUIT AIMING I TEST	Wrist-finger speed .52 (other study: .50) Finger dexterity .2[illegible]

		AIMING
Labels, Loadings	Test	Other Factors
.63 (other study: .63)	PURSUIT AIMING II TEST	Wrist-finger speed .54 (other study: .48) Finger dexterity .28
.38 (other study: .22)	ROTARY AIMING	Speed of arm movement (other studies: .46, .38, .53, .02) Wrist-finger speed (other study: .36)
.33 (other study: .17)	SANTA ANA FINGER DEXTERITY	Manual dexterity .28 (other studies: .38, .38, .47) Finger dexterity .06 (other studies: .46, .42, .16) Spatial orientation (other studies: .20, -.07, .39)
.30 (other studies: .31, .71, .55)	SQUARE MARKING	Wrist-finger speed .29 (other study: .46)
.33	LARGE TAPPING TEST	Wrist-finger speed .43 (other studies: .74, .75) Manual dexterity .28 Speed of arm movement (other studies: .21, .31)
.54	SMALL TAPPING TEST	Wrist-finger speed .42
	SWITCH PERFORMANCE	Speed of arm movement

		AIMING
Labels, Loadings	Test	Other Factors
.31	TEN TARGET AIMING - CORRECTS	Speed of arm movement .79 (other studies: .66, .50) Manual dexterity (other studies: .05, .42)
.3[illegible]	TRACING TEST	Position estimation .27
	TAPPING TEST, PRINTED	Wrist-finger speed

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
AAHPER YOUTH FITNESS TEST	1, 2, 3, 6	129	129	129			
ABDOMINAL STRETCH	10		131	131	131		
ACCELERATION CONTROL	44	192		192	192		
ADDITION TEST	21			168	168	Noise, Sleeploss, Anoxia 177 Six week confinement at 1.5% CO_2: 328	Vibration: 194 Pressure: 205
ADDITION AND SUBTRACTION TEST	21			202		Sleep loss: 202 Fatigue: 177 Rotation: 147	
ADVANCED VOCABULARY I	19		166	168	168		
ADVANCED VOCABULARY II	19			168	168		
AERIAL ORIENTATION	54	189	189	189	155, 189		
AERIAL RECONNAISSANCE TEST (see Visual Search Task)				187		Confinement: 187	
AGGRESSION TEST	66			299	299		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
AGGRESSIVE NONCONFORMITY BATTERY	68			220	220		
AIMING TEST	32		159	159	159		
"AIMING" TEST	Aiming			180		Weightlessness, acceleration: 180	
AIRBORNE SIMULATOR				378			
ALTERNATE USES OF GUILFORD'S BATTERY FOR CREATIVE THINKING	26			168	168		Dyad creativity: 199
AMERICAN OPTICAL BROMBACH PERIMETER	47			330	330		Search performance 330 Perceptual Speed: 330
AMERICAN OPTICAL SIGHT SCREENER	47			330	330		
AMES MIDCOURSE NAVIGATION AND GUIDANCE SIMULATOR							Navigation: 385
ANALOG ADDITION (ELECTRONIC)	41			188	188		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
ANXIETY DIFFERENTIAL	73			256	256		Group research: 256
APPARATUS TEST	25			168	168, 176		
ARITHMETIC REASONING, TEST 1	19			178	178	Confinement: 187	
ARITHMETIC REASONING, TESTS 2, 3 AND 4	21			181	181		Learning: 70
ARM CIRCLING	3		131	131	131		
ARMED FORCES VISION TESTER	47			335	335	Weightlessness, acceleration: 335	
ARM PULL-DYNAMOMETER	4		131	131	131		
ARMY AIR FORCE (AAF) PHYSICAL FITNESS TEST	1, 2, 6, 8		136	136	136		
ARMY GENERAL CLASSIFICATION TEST, FIRST CIVILIAN ED.	19	146	146	146	146		Learning: 70
ARMY GROUP COMPOSITION BATTERY	62			259	259		Rifle squad performance: 259

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
ARMY NIGHT SEEING TESTER	47			336	336		Night performance: 336
ARMY RADIO CODE	52			342	342		
ARTS, AIR-BEARING RESEARCH AND TRAINING SIMULATOR	Spat. Disor.			381	381		Tumbling: 381
ASCENDENCE-SUBMISSION SCALE	69						Group composition, performance: 314
ASCH-TYPE GROUP SIT-UATIONS	69			282	282		
ASo - see Assumed Similarity Between Opposites							
ASSERTIVENESS TEST BATTERY	64			220	220		
ASSOCIATIONAL FLUEN-CY I (Also see Guil-ford's Battery for Creative Thinking)	20			168	168		
ASSOCIATIONS IV	20			168	168		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
ASSUMED SIMILARITY BETWEEN OPPOSITES (ASo) (Also see Least Preferred Co-worker and Assumed Similarity Measure)	61	242	242	242	237, 242 243, 306	Confinement, cohesiveness: 235	Group attraction: 267 Conformity: 306 Group effectiveness: 231, 241, 242 Review: 256
ASSUMED SIMILARITY MEASURES (ASo, ASp, ASn) (Also see Assumed Similarity Between Opposites and Least Preferred Co-worker	61	242	237, 242	242	237, 242		
ATAXIA TEST BATTERY	12		134	134	134	Validity: 134	
ATTITUDE SCALE	74			279	279		Combat crew performance: 247
ATTRACTION TO GROUP (ATG)	63				304		
AUDITORY LETTER SPAN TEST - see Letter Span-Auditory							

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
AUDITORY NUMBER SPAN TEST (Also see Number Span Test I (Auditory) and Digit Span-Visual)	58		166	168	166, 168		
AUDITORY TESTS	47	341		341, 347	347		
AUTOMATED NUMERICAL FUNCTION TEST	21			148	148	Acceleration: 148	
AUTONOMIC NERVOUS SYSTEM (ANS) MEASURES	73			322	321, 322		
BACK-PULL DYNAMOMETER TEST	5		141	141		Starvation, work, heat, sleep deprivation: 141	
BALANCE-A TEST OF THE BASIC FITNESS TEST (see One Foot Lengthwise Balance - Eyes Closed)	12		131		131		
BALL AND PIPE TEST	34		141	141		Starvation, work, heat, and sleep deprivation: 141	Learning effect: 141
BALL BALANCE	14		131	131	131		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
BARRETT IMPULSIVENESS SCALE (BIS)	71			212	211, 212		Psychomotor performance: 211
BARRON'S EGO-STRENGTH SCALE	69			213	213		Confinement: 254, 268
BASIC FITNESS TEST (see Extent Flexibility, Dynamic Flexibility, Shuttle Run Test - Timed, Softball Throw, Hand Grip, Pull-ups - To Limit, Leg Lifts - Time Limit, Cable Jump, Balance A, and 600 Yard Run-Walk)	2, 3, 4, 8, 10, 11, 12, 16, 17	129	129	129, 131	131, 129		
BAUSCH AND LOMB ORTHO-RATER	47			328	328	Six week confinement at 1.5%: 328	
BAUSCH AND LOMB STEREOSCOPIC TRAINER M-2	47			328	328	Six week confinement at 1.5% CO_2: 328	
BEHAVIOR INTERPRETATION INVENTORY (BII)	74			289		Motivation: 209	
BEHAVIOR SCALE	64			269	269		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
BEHAVIORAL SELF-RATING FORM, BSR	65		222	222	222		
BEND, TWIST, AND TOUCH (Also called Dynamic Flexibility of the Basic Fitness Tests)	11		131		131		
BENGE HAN-DEXTERITY TEST	33	143		143			
BENT ARM HANG-TIMED	6		131	131	131		
BIMANUAL MATCHING -see Two Hand Matching							
BIO-PHOTOMETER	47			328	328	Six week confinement at 1.5% CO_2: 328	
BLOCK DESIGN TEST OF THE WAIS	23			149	149		
BLOCK TRANSFER	11		131	131	131		
BOARD BALANCE	11		131	131	131		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
BORGATTA'S GROUP-PERSONALITY TEST (Also see Behavioral Self-Rating Form)	65			223	223		Group interaction: 221, 223
BRAUNSTEIN AND WHITE APPARATUS	47			337	337	Weightlessness: 337	
BREATH HOLDING TIME-GSR RANGE, BHT-GSR RANGE	73			321	321	Submarine confinement: 321	
BRIEF VESTIBULAR DISORIENTATION TEST, BVDT	Mot. Sick. Sus.		339	339	339		Pilot selection: 339
BROKEN PATTERN	75			290	290		
CABLE JUMP TEST OF THE BASIC FITNESS TEST	16		131	131	131		
CALIFORNIA F SCALE	69		206, 230, 270	206	206, 230, 249, 311		Supervisor performance: 317 Leaders, followers: 262 Conformity: 255 Group learning: 286 Group research: 256 Group performance: 258, 314

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
CALIFORNIA PSYCHOLOGICAL INVENTORY (CPI)	65	226	226	226	226		Achievement motivation: 238 Vigilance, reaction time: 257 Decision-making: 313 Treadmill performance: 280
CALIFORNIA TEST OF MENTAL MATURITY	19	146	144, 146, 149	146	146		
CALIFORNIA TEST OF PERSONALITY, 1953 REV.	66	226	224	226	226		Decision-making: 313
CARD ROTATIONS TEST	54		165	168	165, 166, 168		
CARDS-see Card Rotations Test							
CATEGORY WIDTH	70		256	256			Group research: 256
CHOOSING A PATH	54		165, 166	168	165, 166, 168		
CIRCLE RUN	2		131	131	131		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
COLD PRESSOR TEST	73			285	285	Physiological response: 210, 285	
COLOR NAMING TEST				202		Sleep loss: 202	
COMBAT PLANES	59			169	169		
COMPARE (Also see Performance Panel)				355			
COMPLEX BEHAVIOR SIMULATOR				384			
COMPLEX COORDINATION TASK	37		157, 189	154	161, 190		Prediction, initial and final performance: 137 Task components: 61
COMPLEX MOVEMENTS	55		189	189	160, 189		
COMPLEX REACTION TIME see Reaction Time, Complex							
COMPLEX, TIME-SHARED, PERCEPTUAL-MOTOR SKILLS TASK	36		375	375	375		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
CONCEALED FIGURES-see Hidden Figures Test							
CONCEALED WORDS TEST	50		165, 166	168	165, 166, 168, 342		
CONFORMITY TEST	69		255	255			
CONSEQUENCES (REMOTE) OF GUILFORD'S BATTERY FOR CREATIVE THINKING	26			168	168	Confinement: 268	Dyad Creativity: 199
CONSEQUENCES TEST I (NONVERBAL)	48			178	178		
CONSEQUENCES TEST II (VERBAL)	57			178	178		
CONTINGENCIES TEST	25			184	184		
CONTOUR OF THE DRIVING PERFORMANCE BATTERY	39		173	173	173		
CONTROL ADJUSTMENT	37	157		157	157, 189		
CONTROLLED ASSOCIATIONS TEST	20			168	168		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
CONTROL MOVEMENT E	35		156	156	156		
CONTROL MOVEMENT R	40		156	156	156		
CONTROL SENSITIVITY-see Control Adjust-ment							
COORDINATE MOVEMENTS	54		189	189	189		
COORDINATE READING	21			178	178		
COPYING BEHIND	50			342	342		
COPYING TEST	51		165, 166	168, 181	165, 166 168, 181		
COUNTING ACCURACY	75			290	290		
CPI - see California Psychological Inven-tory							
CRAWFORD SMALL PARTS DEXTERITY TEST	33	143, 144, 145	143, 144, 145	143			

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
CRITICAL FLICKER FUSION, CFF	73			288	288	Jump tower, noise: 288	
CROSSWORD PUZZLE	Group perf.						Group performance: 234
CRUTCHFIELD-TYPE GROUP SITUATIONS	69			282	282		
CUBE COMPARISONS	51		165, 166	168	165, 166 168		
CURETON MULTI-APTITUDE TEST - see Multi-aptitude Test							
DECISION MAKING APPROACH (DMA) SCALE	64			293	251		Multisolutioned problems: 294 Complex task, close cooperation: 251
DEEP KNEE BENDS-TIME LIMIT	2		131	131	131		
DEFENSE MECHANISM TEST	73			281	281	Stress resistance: 281	
DESCRIPTIONS	18		140	140	140		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
DESIGNS (Also see Hidden Patterns)	51			181	181		
DIAL AND TABLE READING	21			178	178		
DIAL SETTING	36		157	157	157	Rotation: 147	
DIGIT SPAN, SUBTEST OF THE WAIS	58			149		Anxiety: 185 Confinement: 186, 187 Jump tower: 288	Astronaut selection: 117
DIGIT SPAN-VISUAL (Also see Auditory Number Span Test)	58			168	168		
DIGIT SYMBOL, SUBTEST OF WECHSLER-BELLEVUE IQ SCALE	56			149	149	Anxiety, shock: 204 Distraction, failure: 195 Jump tower: 288	
DIPS - TIME LIMIT	3		131	131	131		
DIPS - TO LIMIT	3		131	131	131		
DIRECTIONAL CONTROL	54		189	189	160, 189		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
DIRECTION CONTROL	36		189	152, 189	155, 160, 189		
DIRECTION TRACING	40		156	156	156		
DIVISION TEST	21			168	168		
DODGE RUN	2		131	131	131		
DOGMA SCALE	62		298	298	298	Dyad confinement: 207, 208, 261	Group performance: 314
DOGMATISM TEST	62			256			Group research: 256
DOT PERCEPTION TEST	50			342	342		
DOUBLE DIFFERENTIA-TION (ELECTRONIC)	41			188	188		
DOUBLE DIFFERENTIA-TION/INTEGRATION (MECHANICAL)	41			188	188		
DRIVING PERFORMANCE BATTERY (see Contour, Maze, Mirror Reverse, Non-Visual, No-slip Back, No-Slip For-ward, Parallel Park, Trailer-Back)				173	173		Validity: 173

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
DRIVING PERFORMANCE, CRITERION (see Driving Performance Battery)	39						Task duration: 173
DRIVING TASK, SIMULATED				194		Vibration effects: 193, 194	
DVORINE COLOR TEST	47			200	200	Sensory deprivation: 200	
DYNAMIC FLEXIBILITY OF THE BASIC FITNESS TESTS -see Bend, Twist and Touch							
EDWARDS PERSONAL PREFERENCE SCHEDULE (EPPS)	62	266	266	266	266	Dyad confinement: 261 Confinement: 345 Dyad confinement: 207, 208	Resistance to opinion change-autonomony, dominance, deference and abasement: 271 Aviator training success: 292
ELECTRICAL INFORMATION	Mech.Know.			168	168		
ELECTRONICS TRAINER-TESTER				388, 389			Operational performance: 388, 389

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
EMBEDDED FIGURES TEST, EFT (also see Gottscheldt Figures and Hidden Figures)	51					Emergency behavior: 80 Confinement: 187	Target identification: 198 Perceptual behavior: 78, 79
ESTIMATION OF LENGTH TEST	(Length est.)			168	168		
ETHNO CENTRISM SCALE	69			206			
EXPRESSIONAL FLUENCY	20			168	168		
EXTENT FLEXIBILITY OF THE BASIC FITNESS TESTS -see Twist and Touch							
EYSENCK PERSONALITY INVENTORY (Also see Maudsley Personality Inventory)	66	226	226	226	226	Sleep loss, disturbance: 252	
FAILURE STRESS (Also see Digit Symbol Test)	73			285	285	Physiological reaction: 285	
FALSE PREMISES (Also see Nonsense Syllogisms Test)	28			181	181		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
50-FOOT CENTRIFUGE				383			
FIFTY YARD DASH-TIMED	2		131	131	131		
FIGURE ANALOGIES	21			181	181		
FIGURE ANALOGIES COMPLETION	23			181	181		
FIGURE CLASSIFICATION (Also see Figure Classification IIA and IIB)	23			168	168		
FIGURE CLASSIFICATION IIA, IIB (Also see Figure Classifica-tion)	51			181	181		
FIGURE - 8 DUCK	2		131	131	131		
FINDING A's TEST	48			168	168		
FIRO-B - see Funda-mental Interpersonal Relations Orientation -Behavior							

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
FIRST AND LAST NAMES TEST	56			168	168		
FLAGS: A TEST OF SPACE THINKING	54	146	146	146	146		
FLAGS: ORIGINAL VERSION	54		138		138		Validity: 138
FLIGHT FORMATION	59			169	169		
FOLLOWING DIRECTIONS	48		189	189	189		
FORCED LANDINGS	36		189	189	189		
FORMATION VISUALIZATION	55		189	189	155, 189		
FORM BOARD TEST (similar to Minnesota Paper Form Board Test)	55		165, 166	168	165, 166, 168	Anoxemia: 182 Pressure: 205	
FREEMAN MANIFEST ANXIETY TEST	73		248	248	248		
FUNDAMENTAL INTERPERSONAL RELATIONS ORIENTATION-BEHAVIOR (FIRO-B)	62	225	226	226, 301	226, 301		Compatibility, group performance: 299

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
FUNDAMENTAL INTERPERSONAL RELATIONS ORIENTATION-FEELING (FIRO-F)	62		295	295	295		
GENERAL CLASSIFICATION TEST - see the Army or Navy Classification Test							
GENERAL MECHANICS TEST	55		189	194	190		
GESTALT COMPLETION TEST	50		165, 166	168	165, 166, 168		
GESTALT TRANSFORMATION	26			168	168		
GHISELLI'S SELF DESCRIPTION INVENTORY - see Self Description Inventory							
GOTTSCHALDT FIGURES (see Hidden Figures Test)	51			181	181		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
GOUGH-SANFORD RIGIDITY SCALE	70			298	298		Group performance: 314
GRASS DRILL	1		131	131	131		
GRAY CAPSULE				383			
GROUP COMPATIBILITY TEST	62			299	299		Compatibility, group performance: 299 Group leadership: 300
GROUP DIMENSIONS DE-SCRIPTION QUESTION-NAIRE	64	226	265	265	265, 264		job satisfaction, performance: 265
GROUP-INTERACTION PICTURE-STORY TEST	Group per-formance			312			Training, combat performance. 312
GROUP SQUARES TASK	54			312	312		Crew performance: 312
GROUP TASKS	(group per-formance)		256	256	29, 122, 256		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
GUILFORD'S BATTERY FOR CREATIVE THINKING	26		170	170	170	Confinement: 268 Sensory, perceptual deprivation: 167	Dyad creativity: 199
THE GUILFORD-ZIMMERMAN APTITUDE SURVEY (Also see Spatial Orientation)	19, 21, 24, 48, 54, 55, Mech. Know.	146		144	144, 146		
GUILFORD-ZIMMERMAN TEMPERAMENT SCHEDULE, GZTS	62, 64, 65, 66, 68, 69, 71, 72, 73, 74, 75	226	226	278	212, 224		Pilot performance: 278 Group performance: 234, 258, 266
HAND DYNAMOMETER - see Hand Grip of the Basic Fitness Test							
HAND GRIP OF THE BASIC FITNESS TEST	4		131	131, 235	131, 235, 328	Starvation, work, heat, and sleep deprivation: 141 Six week confinement in 1.5% CO_2: 328 Rotation: 147 34 day confinement: 235	
HAND PRECISION AIMING-CORRECTS	38			159	151, 159		
HAND PRECISION AIMING-ERRORS	38			159	151, 159		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
HEMPHILL'S GROUP DIMENSIONS DESCRIPTIONS QUESTIONNAIRE - see Group Dimensions Descriptions Questionnaire							
THE HENMON-NELSON TESTS OF MENTAL ABILITY, REV. ED.	19	146	146	146	146		Decision making: 313
HIDDEN FIGURES TEST (An adaptation of Concealed Figures) (Also see Gottschaldt Figures)	51		165, 166	168	165, 166, 168, 342	Confinement: 268	
HIDDEN PATTERNS (Also see Designs)	51		165, 166	168	165, 166, 168		
HIDDEN PICTURES	51			181	181		
HIDDEN TUNES	52			342	342		
HOLD HALF PUSH-UP - TIMED	8		131	131	131		
HOLD HALF SIT-UP - TIMED	7		131	131	131		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
HOSTILE PRESS SYSTEM FOR THE TAT	73		218	218	218		Review: 219 Leadership: 310
HOWARD-DOHLMAN APPARATUS	47			194, 332	194, 332	Vibration: 194 Sensory deprivation: 200	Static, dynamic perception: 332
HUMAN PERFORMANCE TESTER	36			363, 374	374	Hypoxia: 367 Decompression: 366 Alcohol: 376 Antihistamines: 359	
IDENTICAL PICTURES TEST	48			168	168		
IMPRESSION FORMATION TEST	70		308	308	308		Information processing: 308
INCOMPLETE SENTENCES TEST	(Adj. potent)			239	239		
INDIANA MOTOR FITNESS TESTS	2, 6, 7		136	136			
INFERENCE TEST	28			168	168		
INFLIGHT VISION TESTER	47		325	326	326	Astronaut performance: 326	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
INSTRUMENT COMPRE-HENSION	48		189	154	154, 190		
INTEGRATED CREW MONI-TORING SYSTEM	37		360	360			Pressure suit evaluation: 361
INTERNALIZATION RATIO - see MMPI, (cf.,245)							
THE IPAT ANXIETY SCALE QUESTIONNAIRE	73	226	226	226	212, 226		
JCR TEST	2, 6, 8		136	136			
KINESTHETIC COORDI-NATION	36			154	154		
KINES[illegible] SENSITI-VITY ME[illegible]E	47		164	164	164		
KIT OF REFERENCE TESTS FOR COGNITIVE FACTORS		146, 168		146, 168			
KLUCKHOHN VALUE ORI-ENTATION	75			256	256		Group research: 256

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
KNOB POSITIONING E	35		156	156	156		
KNOB POSITIONING R	40		156	156	156		
LANDOLT C RINGS	47			194, 333	194, 333	Vibration: 193, 194	Operational requirements: 329
LANDOLT C RING APPARATUS I	47			325	325		Search performance: 327
LANDOLT C RING APPARATUS II	47		333	331	331		Static, dynamic vision: 331 Operational requirements: 329
LATERAL BEND	11		131	131	131		
LEADERSHIP OPINION QUESTIONNAIRE	64	226, 246	246	226, 246	246		Fear of failure: 310 Group performance: 258
LEADERSHIP RATING SCALE	64			215	215		
LEAST PREFERRED CO-WORKER (LPC) (see Assumed Similarity Measure and Assumed Similarity Between Opposites)	61		243	256	243		Review: 256

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
LEG CIRCLING	2		131	131	131		
LEG LIFTS - TIME LIMIT OF THE BASIC FITNESS TEST	8		131	131	131		
LEG RAISER - TIMED	8		131	131	131		
LETTER COMPARISON	75			290	290		
LETTER GROUPING (Also see Letter Sets Test)	23			181	181		
LETTER SERIES	23			181	181	Confinement: 186	
LETTER SETS TEST (Also [illegible]etter Groupi[illegible]	23			168	168		
LETTER SPAN-AUDITORY (Also see Letter Span Test II (Auditory))	58		166	168	166, 168		
LETTER SPAN TEST I (VISUAL)	58			178	178	Six week confinement at 1.5% CO_2: 328	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
LETTER SPAN TEST II (AUDITORY) (Also see Letter Span-Auditory)	58			178	178		
LEVEL OF ACADEMIC ASPIRATION	74			253	253		OCS performance: 253
LIFT-LINK INTELLECTUAL FUNCTIONS TESTER	19		362	362	362		
LIGHT INTENSITY APPARATUS	47			338	338		
LOCATIONS TEST	23			168	168		
LOCKHEED INTEGRATED SYSTEM - see Integrated Crew Monitoring System							
LOGICAL REASONING	28			168	168	Confinement: 187	
LONG DIVISION PROBLEMS						Anxiety, social pressure 177	
LSU INTEREST INVENTORY	75			256			Space research: 256

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
MACHIAVELLIAN SCALE	69						Group performance: 314
MACQUARRIES TEST FOR MECHANICAL ABILITY (Also see Copying Test)	54	143	143	143	138, 143		
MAINTENANCE TASK SIMULATOR -1, MTS-1				380			
MAP MEMORY TEST I (REPRODUCTION)	48			178	178		
MAP MEMORY TEST II (VERBAL RECALL)	60			178	178		
MAP MEMORY TEST III (RECOGNITION)	48			178	178		
MAP PLANNING TEST	51		165, 166	168	165, 166, 168		
MARKING ACCURACY	33		162	162	162, 190, 342		
MARKS - see Locations Test							

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MANUAL	SPECIAL EXPERIMENTATION	OTHER EXPERIMENTATION
MASS DISCRIMINATION TEST	47		[illegible]	346	346		
MATCH PROBLEMS II	26	146		168	168		
MATCH PROBLEMS I	25			168	168		
MATHEMATICS APTITUDE TEST, R-1	24			168	168		
MATHEMATICS APTITUDE TEST, R-2	24			168	168		
MATHEMATICS B	24			181	181		
MATURITY SCALE	64			263	263	Leadership: 263	
MAUDSLEY PERSONALITY INVENTORY, MPI	66	226	226	226	226		
MAXIMAL OXYGEN UPTAKE: ASTRAND TEST	17		133	133		Heat, altitude, and cold: 197	
MAXIMAL OXYGEN UPTAKE: ASTRAND-RHYMING INDIRECT TEST	17		133	133		Heat, altitude, and cold: 197	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
MAXIMAL OXYGEN INTAKE: ESTIMATION METHOD	17			135		Heat, altitude, cold: 127	
MAXIMAL OXYGEN UPTAKE: MITCHELL SPROULE AND CHAPMAN TEST	17		133	133		Heat, altitude, cold: 127	
MAXIMAL OXYGEN UPTAKE: TAYLOR, BUSKIRK AND HENSCHEL TEST	17		133	133		Heat, altitude, cold: 127	
MAYO TANK				383			
MAZE OF THE DRIVING PERFORMANCE BATTERY	36		173	173	173		
MAZE TRACING SPEED TEST	50		165, 166	168	165, 166, 168		
MEANINGFUL MEMORY: NUMBER	56			178	178		
MEANINGFUL MEMORY: PARAGRAPH	56			178	178		
MEANINGFUL MEMORY: PICTURE	57			178	178		

NAME	ABILITY DIMENSION(S)	COST	DATA	DESCRIPTION	MEASURE	OTHER EXPERIMENTATION	OTHER EXPERIMENTATION
MECHANICAL COMPREHENSION TEST	9		131	134	139		
MECHANICAL INFORMATION	(Mech. Know.)			168	168		
MECHANICAL PRINCIPLES TEST	19			154	154, 190		
MEDICINE BALL PUT-SITTING	4		131	131	131		
MEDICINE BALL PUT-STANDING	4		131	131	131		
MEMORY FOR IDEAS TEST	57			178	178		
MEMORY FOR INSTRUCTIONS TEST	58			178	178		
MEMORY FOR LIMERICKS TEST	57			178	178		
MEMORY FOR NUMBERS TEST	56			178	178		
MEMORY FOR RELATIONS TEST	58			178	178		

NAME	ABILITY DIMENSION(S)	SONIS	JAPA	RESEARCH-ER	MASTER	SERIOUS EXPERIMENTATION	OTHER EXPERIMENTATION
MEMORY FOR SYLLABLES TEST I	56			178	178	Confinement: 187	
MEMORY FOR SYLLABLES TEST II	56			178	178		
MEMORY FOR WORD RELATIONS	18		140	140	140		
MEMORY FOR WORDS TEST I (UNRELATED WORDS)	56			178	178		
MEMORY FOR WORDS TEST II (RELATED WORDS)	56			178	178		
METABOLIC LIMITATIONS	(Metabolic limitations)			127		Cold, altitude: 127	
MICHIGAN GROUP PROJECTION SKETCHES - see Group Interaction Picture-Story Test							

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
MINNESOTA MANUAL DEXTERITY TEST - see Minnesota Rate of Manipulation Test							
MINNESOTA MULTIPHASIC PERSONALITY INVENTORY MMPI	66	226		226, 278	274, 278, 303, 315, 318	Cold Pressor Test, Failure: 285 Confinement: 254, 268 Altitude: 130	Pilot performance: 278 School attrition: 276 Driver performance: 245 Group performance: 258 Leadership: 291 Review: 319
MINNESOTA PAPER FORM BOARD TEST - see Form Board Test							
MINNESOTA RATE OF MANIPULATION TEST (A Revision of Minnesota Manual Dexterity Test	32	146	142, 143, 162, 189	142, 143, 153	142, 143, 162, 190	Six week confinement at 1.5% CO_2: 328 Cold: 203	
MINNESOTA SPATIAL RELATIONS	54	143	142, 143	142	138		
MIRROR DRAWING	46			200		Sensory deprivation: 200	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
MIRROR REVERSE OF THE DRIVING PERFORMANCE BATTERY	36		173	173	173		
MIRROR TRACING	46			192		Anxiety: 177 Sleep loss, disturbance: 252	
MMPI - see Minnesota Multiphasic Personality Inventory							
MOTIVATION MEASURES, PHYSIOLOGICAL	73						Autonomic discrimination: [illegible]0
MOTIVATION SCALE	74			216	216		
MOTOR JUDGMENT	37		157, 189	157	157		
MPI - see Maudsley Personality Inventory							
MULTI-APTITUDE TEST				256	244	Group IQ, Anxiety: 244	Group research: 256
MULTIDIMENSIONAL PURSUIT	36		157	157		Drugs, time length, response stimulus: 172	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
MULTIPLICATION BY A CONSTANT (ELECTRONIC)	41			188	188		
MUTILATED WORDS (Also see Concealed Words Test)	50			342	342		
NAVY GENERAL CLASSI-FICATION TEST	(Adjust. Potent.)			321	321	Submarine confinement: 321	
NAVY SONAR PITCH MEMORY TEST	47			328	328	Six week confinement at 1.5% CO_2: 328	
NEARER POINT TEST	(Length Est.)			168	168		
NECESSARY ARITHMETIC OPERATIONS	24			168	168		
NEED TO ACHIEVE (Nach)	74			218			
NEED TO AFFILIATE (Naff)	69			218			
NEW YORK STATE PHYSI-CAL FITNESS TEST	2, 6, 13, 16				136		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
NIGHT SEEING TESTER - see Army Night Seeing Tester							
NONSENSE SYLLOGISMS TEST (Also see False Premises)	28			168	168		
NON-VISUAL OF THE DRIVING PERFORMANCE BATTERY	54		173	173	173		
NO-SLIP BACK OF THE DRIVING PERFORMANCE BATTERY	45		173	173	173		
NO-SLIP FORWARD OF THE DRIVING PERFOR-MANCE BATTERY	39		173	173	173		
NUMBER COMPARISON TEST	48			168	168		
NUMBER PATTERNS	23			181	181		
NUMBER SERIES	21			181	181		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
NUMBER SPAN TEST I (AUDITORY) (Also see Auditory Number Span Test)	56			178	178	Confinement: 187	
NUMBER SPAN TEST II (VISUAL)	56			178	178		
NUMERICAL OPERATIONS	21			178	178		
OBJECT IDENTIFICATION TEST	55		171	171	See Vis. Recog. Task	Noise, shock and confinement: 171	
OBJECTIVE-ANALYTIC (O-A) PERSONALITY TEST BATTERY	69	225	225	278			Pilot performance: 278
OBJECT NAMING	26		166	168	166, 168		
OBJECT-NUMBER TEST	56			168	168		
OBJECT SYNTHESIS	26			168	168		Dyad creativity: 199
O'CONNOR FINGER DEXTERITY TEST	33	146	142, 146, 162, 174, 189	159	142, 159, 190		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STEPS IMPLEMENTATION	OTHER INFORMATION
O'CONNOR TWEEZER DEXTERITY TEST	33	146	142		142		
OFFICER QUALIFICATION TEST	19			253	253		OCS performance: 253
ONE FOOT CROSS BALANCE - EYES CLOSED	12		131	131	131		
ONE FOOT CROSS BALANCE - EYES OPEN	13		131	131	131		
ONE FOOT LENGTHWISE BALANCE - EYES CLOSED (Also called Balance-A of the Basic Fitness Test	12		131	131	131		
ONE FOOT LENGTHWISE BALANCE - EYES OPEN	13		131	131	131		
ONE FOOT TAPPING	11		131	131	131		
ORDER SCALE OF THE EDWARDS PERSONAL PREFERENCE SCHEDULE	(Time est.)				345		

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] EXPERIMENTATION
THE ORIENTATION INVENTORY, ORI	05	226	226	226	214		Review: 214
ORTHO-RATER - see Bausch and Lomb Ortho-Rater							
PAPER FOLDING TEST	55		165, 166	168	165, 166, 168		
PARAGRAPH COMPLETION TEST - see Sentence Completion Test							
PARALLEL-PARK LEFT OF THE DRIVING PERFORMANCE BATTERY	54		173	173	173		
PATTERN ANALOGIES	23			181	181		
PATTERN COMPREHENSION TEST	48		189	154	154, 190		
PATTERN TRACING TEST	31		141	141		Starvation, work, heat, lack of sleep: 141	Learning: 141
PENNSYLVANIA BI-MANUAL WORKSAMPLE	33	143	143	143	143		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
PENSACOLA SLOW ROTATION ROOM - see Slow Rotation Room							
PERCEPTUAL-MOTOR PERFORMANCE TESTER	31		354, 364	190, 373	190, 373	Oscillation, rotation: 364 Confinement: 354	
PERFORMANCE PANEL (Also see COMPARE)	36		349, 350, 351, 353, 370	350, 351, 356	356	Work-rest cycles: 349 Confinement, work chedules: 350, 352	Task combination responses: 351
PERSISTANCE TEST	74			277	277		Motivation: 277
PERSONAL INVENTORY BATTERY	73		320, 323	323	320, 323	Submarine confinement: 321	
PERTINENT QUESTIONS TEST	25			184	176, 184		
PICTURE GESTALT	26			168	168		
PICTURE-NUMBER TEST	56			168	168		
PIN STICK TEST	33		159, 162	159	151, 159, 162		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
PLANE CONTROL	36		157	154	154, 157		
PLANNING AIR MANEUVERS	26			168	168		
PLATE TAPPING	3		131	131	131		
PLOT TITLES (CLEVER)	26			168	168		Dyad creativity: 199
POWER ORIENTATION BATTERY	69			220	220		
PRACTICAL JUDGMENT	29			169	169		
PRECISION-STEADINESS TEST (Also see Steadiness Precision)	31		159, 189	159	151, 156, 157, 189		
PRESSURE CHAMBER EXPERIENCE	73						Pilot attrition: 316
PRIMARY MENTAL ABILITIES - see SRA Primary Mental Abilities							

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
PROBLEM SOLVING TEST, 401-B, HFORL	(Group tasks)			312			Training, combat performance: 312
PROGRESSIVE MATRICES B	23			181	181		
PROGRESSIVE MATRICES C	23			146, 181	146	Sleep loss, disturbance: 252	
PROGRESSIVE MATRICES D	23			146	146		
PULL-UPS - TIME LIMIT	3		131	131	131		
PULL-UP - TO LIMIT OF THE BASIC FITNESS TEST	3		131	131	131		
PULL [illegible]GHTS, ARMS-TIME LIMIT	4		131	131	131		
PUNCHED HOLES - see Paper Folding Test							
PURDUE HAND PRECISION TEST	37	146	146				

NAME	APTITUDE DIMENSION(S)	JOBS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
PURDUE PEGBOARD - RIGHT HAND, LEFT HAND, BOTH HANDS, ASSEMBLY AND SUM	33	146	143, 162, 189	143, 159	151, 158, 159, 162, 189		Group performance: 232, 233, 234
PURSUIT AIMING I TEST	32		159	159	151, 159		
PURSUIT AIMING II TEST	32		159	159	151, 159		
PURSUIT CONFUSION - TOT AND ERRORS	31		157, 189	157	157, 190		
PURSUIT METER TASK (PURSUIT ROTOR) (Also see Rotary Pursuit)				196		Temperature, sleep loss: 177, 196 Sensory deprivation: 200 Anoxemia: 182 Anxiety: 191	
PUSH-UPS - TIME LIMIT	7		131	131	131		
PUSH-UPS - TO LIMIT	7		131	131	131		
PUSH WEIGHTS, ARMS - TIME LIMIT	4		131	131	131		
PUSH WEIGHTS, FEET - TIME LIMIT	5		131	131	131		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DEFINITION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
THE RAIL-WALKING TEST	12	128	128	131, 200	131	Sensory deprivation: 200 Rotation: 147	
RATE CONTROL	37		157, 189	157	157, 190		
RATE OF MOVEMENT TEST	38			154	154, 190		
RATER - see Response Analysis Tester							
RATINGS, PERSONALITY						Confinement: 254, 268	Astronaut selection: 117
REACTION TIME, AUDITORY	45		157, 189	157	190		
REACTION TIME, CHOICE	36		189	189	71, 189	Noise, sleep loss, temperature: 177 Anoxemia: 182 Vibration: 194	Serial performance: 50 Processing performance: 71
REACTION TIME, COMPLEX			141	141		Starvation, work, heat, sleep loss: 141	Learning: 141
REACTION TIME, DISCRIMINATION (MECHANICAL)	38		157	154	154, 190	Weightlessness: 180	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
REACTION TIME, DISCRIMINATION (PRIMED)	32		159, 189	159	190		
REACTION TIME, JUMP AUDITORY	45		157	157	190		
REACTION TIME, JUMP VISUAL	45		157	154, 157	190		
REACTION TEST, SERIAL						Heat, noise, sleep loss: 139	
REACTION TIME, SIMPLE -VISUAL AND AUDITORY					71	Temperature, anoxia: 177 Anoxemia: 182 Cold: 203	
REACTION TIME, VISUAL (Also see Reaction Time, Simple)	45		157, 189	157	190		
REACTIONS TO GROUP SITUATIONS TEST, RGST	65		307	307	307		
READING COMPREHENSION	19			178	178		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
RECOGNITION TEST I (SYLLABLES)	56			178	178		
RECOGNITION TEST II (WORDS)	56			178	178		
RECOGNITION TEST III (FIGURES)	55			178	178		
RELATED WORDS I TEST	27		175	175	175		
REMEMBERED RELATIONS	18		140	140	140		
REPRODUCTION OF VISUAL DESIGNS TEST	48			178	178		
RESONAL ARITHMETIC	26		166	166	166		
RESPONSE ANALYSIS TESTER, RATER	36		364, 368, 369	357, 358, 364	364	Oscillation, rotation: 364, 365	
REVERSED READING	19		166	166	166		
REVERSE SIT-UPS - TIME LIMIT	1		131	131	131		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
RHYTHM DISCRIMINATION	52			342	342		
RIGIDITY BATTERY	70			220			
RIGIDITY SCALE, see Gough-Sanford Rigidity Scale							
ROD AND FRAME TEST (RFT)	51		78, 79	78, 79		Emergency behavior: 80	Perceptual behavior: 78, 79
ROKEACH DOGMATISM SCALE - see Dogma Scale							
ROPE CLIMB - TIME LIMIT	3		131	131	131		
ROTARY AIMING	32		157, 189	157	190		
ROTARY POSITIONING E	35		156	156	156		
ROTARY PURSUIT (Also see Pursuit Meter Task)	34		189, 157	154	190		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
RUDDER CONTROL - SINGLE AND TRIPLE TARGET	37		157, 189	157	157, 190		
SANTA ANA DEXTERITY	34		162	162	162, 190		
SCAT							Dyad creativity: 199
SCORE CHECKING	75			290	290		
SCOW COMPLEX COORDINATOR - see Human Performance Tester							
SEASHORE MEASURES OF MUSICAL TALENTS, REV. ED.	47		341	341	341		
SEEING DEFICIENCIES	25			168	168		
SEEING PROBLEMS	25			168	168, 176		
SELF-APPRAISAL BLANK	(Adjust. Potent.)		239	239	239		
SELF-CREDITING - V	73			290	290		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
SELF DESCRIPTION IN-VENTORY	64, 67, 73		250	250	250		Group performance: 258
SELF-REPORTED MOTIVA-TIONAL QUESTIONNAIRE, SMQ	73			321	321	Submarine confinement: 321	
SENTENCE COMPLETION TEST	57			178	178		
SENTENCE COMPLETION TEST	70			302, 314	296, 302		Group performance: 314 Information pro-cessing: 37, 303
SENTENCE SPAN TEST	58			178	178	Confinement: 187	
SH[illegible]FINATION TES[illegible]	24			168	168		
SHORTEST ROAD TEST	(length est.)			168	168		
SHUTTLE RUN	2		131	131	131		
SHUTTLE RUN - TIME[illegible] OF THE BASIC FITNESS TESTS	2		131	131	131	130	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
SIGNAL INTERPRETATION I	36		189	189	189		
SIGNAL INTERPRETATION II	59			169	169		
SIGN CHANGES	26		166	166	166		
SIMILE INTERPRETA-TIONS	20			168	168		
SIMULATION METHODS				387	377		386
SINDBAG I	31			372	372		
SINGLE DIFFERENTIA-TION (ELECTRONIC)	41			188	188		
SINGLE DIMENSION PUR-SUIT METER	43		189	189	157, 158, 160		
SITUATIONAL INTERPRE-TATION TEST	70			314			Group performance: 314
SIT-UPS - TIME LIMIT	1		131	131	131		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
600 YARD RUN-WALK OF THE BASIC FITNESS TEST	17		131	131	131	Altitude: 130	
SIXTEEN PERSONALITY FACTOR QUESTIONNAIRE, CATTELL'S	64, 65, 66, 67, 68, 69, 70, 72, 73, 75	226	226	226	212, 226, 227, 228	Altitude: 130	Group effectiveness: 260 Decision making: 313 Group dimensions: 227 Leadership: 228
SLOW ROTATION ROOM	(Corio. React.)			343	343	Performance: 147	
SNELLEN EYE CHART	47				331	Weightlessness, acceleration: 335	Static, dynamic vision: 331
SOC[illegible]RIBBLE	11		131	131	131		
SOCIOMETRIC MEASURES	61			123, 256	123		Review: 256 Combat, OCS success: 324
SOFTBALL THROW OF THE BASIC FITNESS TEST	3		131	131	131	Rotation: 147	
SPACE CABIN SIMULATOR				390		Work schedule, confinement: 390	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
SPACE CABIN SIMULATOR	69			236	236	Confinement: 236	
SPATIAL DISORIENTATION DEMONSTRATOR (Also see Spatial Orientation Trainer)	(Spat. Dis.)			344	344		
SPATIAL ORIENTATION II	48			178	178		
SPATIAL ORIENTATION OF THE GUILFORD-ZIMMERMAN APTITUDE SURVEY	54			168	168		
SPATIAL ORIENTATION TEST (Also see The Guilford-Zimmerman Aptitude Survey)	54		189	189	161, 189		
SPATIAL ORIENTATION TRAINER (Also see Spatial Disorientation Demonstrator				382	382		
SPATIAL REASONING A	73			290	290		
SPEED OF IDENTIFICATION TEST	55		189	154	190, 330		Observer performance: 197

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
SPIRAL AFTER-EFFECT	(Mot. Sick. Sus.)			340	340		
SQUARE MARKING TEST	32		159	159	162, 190, 159		
SQUAT THRUST - TIME LIMIT	7		131	131	131		
SQUAT, TWIST, AND TOUCH	11		131	131	131		
SRA PRIMARY MENTAL ABILITIES, REV.	19	146	144		144, 146	Jump tower, noise: 288	
STANDARD PROGRESSIVE MATRICES - see Progressive Matrices C							
STANDING BROAD JUMP	2		131	131	131		
STATE-TRAIT ANXIETY INVENTORY (STAI)	73		305	305	284		
STEADINESS AIMING	31		189	189	151, 189	Six week confinement in 1.5% CO_2: 328	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
STEADINESS PRECISION TEST AND STEADINESS TREMOR TEST (Also see Precision Steadiness)	31		156	156	156	Rotation: 147	
STEADINESS TEST (PRINTED)	31		159	159	151		
STEREOSCOPIC TRAINER-see Bausch and Lomb Stereoscopic Trainer M-2							
STICK BALANCE	13		131	131	131		
STICK POSITIONING, LATERAL	40		156	156	156		
STICK AND RUDDER ORIENTATION	54		189	189	189		
STRESS-GSR RANGE	73			321	321	Submarine performance: 321, 322	
STROMBERG DEXTERITY TEST	34	144	144	144	144		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
STROOP COLOR-WORD TEST	70		272	272	272	Confinement: 268	Review: 272
SUBJECTIVE STRESS QUESTIONNAIRE	73			186	186	Confinement: 186	
SUBJECTIVE STRESS SCALE (SSS)	73			217	217	Dyad confinement: 261 Airplane ditching, demolition: 217 Confinement: 186	
SUBJECTIVE SYMPTOMOTOLOGY QUESTIONNAIRE (SSQ)	73				261	Dyad Confinement: 261	
SUBTRACTION AND MULTIPLICATION TEST	21			168	168		
SUB[illegible]ION PROBLEMS	21					Noise: 177 Isolated Confinement: 186	
SUFFIXES - see Word Endings Test							
SURFACE DEVELOPMENT TEST	55		165, 166	168	165, 166, 168		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
SWITCH PERFORMANCE	38			201		Weightlessness: 201, 130	
SYMBOL MANIPULATION TEST	27		175	175	175		
SYMBOL PRODUCTION	26			168	168		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
TAPPING, LARGE (7/16" & 1/2")	32		159,162	159	151, 159, 162		
TAPPING, MEDIUM	32		159	159	151, 159		
TAPPING, SMALL	32		162	162	162		
TAPPING TESTS, MISC.	32					Sleep loss: 202 Noise, sleep loss, anoxia: 177 Six week confinement at .5% CO_2: 328	
TAPPING TEST, PRINTED	32		141			Semi-starvation; work, heat, sleep loss: 141	Learning: 1 Sensitivity - see Tapping, Two-Plate
TAPPING, TWO-PLATE	32		189	189	151, 189	Starvation, work, heat, sleep loss: 141 Vibration: 194	Learning, sensitivity: 141
TAT - see Thematic Apperception Test							
TAYLOR MANIFEST ANXIETY SCALE, TMAS	73		309	309	212	Cold pressor test, and failure: 285 Anxiety, shock: 204	Psychomotor performance: 191
TEN TARGET AIMING-CORRECTS, ERRORS	38		189	159	159, 189, 190		
TEN YARD DASH-TIMED	2		131	131	131		
TESTS OF MECHANICAL COMPREHENSION	Mech. Know.		146	146	149		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIPTION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
TEST OF SOCIAL INTELLIGENCE - see Worrying Scale							
THEMATIC APPERCEPTION TEST, TAT (Also see Hostile Press System, Need to Achieve, and Need to Affiliate)	64, 69, 74		226	226	226	Confinement: 268, 240 328	Group performance: 258, 297 Submarine school success: 275 Conformity: 273
THEME TEST	22			168	168		
THING CATEGORIES TEST	22		166	168	166, 168		
THURSTONE'S PRIMARY MENTAL ABILITIES - see SRA Primary Mental Abilities, Rev.							
THURSTONE TEMPERAMENT SCHEDULE	65		224	224, 226	212		
TIME ESTIMATION: 15, 90, 180 and 300 seconds	Time est.					Confinement: 84, 235	
TIME SHARING (ELECTRONIC)	42			188	188		
TIME SHARING TEST (MECHANICAL	49			188	188		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
TIME SHARING TEST (PRINTED)	49			188	188		
TMAS - see Taylor Manifest Anxiety Scale							
TOE TOUCHING	3		131	131	131		
TOOL KNOWLEDGE TEST	Mech. Know.			168	168		
TOPICS TEST	22		166	168	166, 168		
TOWNSEND-SMITH TEST OF DECISION MAKING ABILITY				313	313		Relation to other tests: 313
TRAC[illegible] TEST	35		162	159	162	See Minn. Rate of Manip. Test	
TRACKING TASK, CRITERION	39			189	188, 189		Learning, 189
TRACK TRACING	31		157, 189	157	157, 190	See Pattern Tracing	
TRAILER-BACK of the DRIVING PERFORMANCE BATTERY	54		173	173	173		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
TREMBLEOMETER	73			288		Jump tower, Noise: 288	
TRUNK PULL - DYNA-MOMETER	5		131	131	131		
TWIST AND TOUCH (Also called Extent Flexi-bility of the Basic Fitness Test)	10		131	131	131		
TWO FOOT CROSS BALANCE - EYES CLOSED	14		131	131	131		
TWO FOOT CROSS BALANCE - EYES OPEN	13		131	131	131		
TWO FOOT LENGTHWISE BALANCE - EYES CLOSED	12		131	131	131		
TWO FOOT LENGTHWISE BALANCE - EYES OPEN	12		131	131	131		
TWO FOOT TAPPING	15		131	131	131		
TWO HAND COORDINATION	39		157,189	157	157, 164, 181, 190		Learning: 164, 179
TWO HAND MATCHING (Also called Bimanual Matching)	36		189	154	154,189		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
TWO-HAND PURSUIT	31		157	157	157		
TWO-PLATE TAPPING: See Tapping, Two-Plate							
UNIDIMENSIONAL MATCHING	36			154	154		
UNUSUAL USES - See Alternate Uses							
UTILITY TEST or UTILITIES TEST			166	168	166, 168		
VARIABLE INTERVAL TIME ANALYZER, VITA	Time est.		348	348	348		
VEHI[illegible] [illegible]MULATOR				379			
VERBAL CLASSIFICATION II	23			181	181	Confinement: 187	
VERBAL - NUMERICAL TEST	73				253		OCS performance: 253
VERTICAL JUMP	2		31	131	131		
VIGILANCE TASK	Vigilance					Sleep deprivation: 177	

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
VISION TESTS	47			341, 347	347		
VISUAL COINCIDENCE	36		157	157	157		
VISUALIZATION OF MANEUVERS	54		189	189	189		
VISUAL PURSUIT	48		189	154	154, 190		
VISUAL RECOGNITION TASK (Also see Object Identification Test)	55		165	165	165	Confinement: 187	
VISUAL SEARCH TASK (Also see Aerial Reconnaisance Test)			330	330	Peripheral Acuity	Confinement: 187	
VISUAL SIMULATOR				391			
VISUAL TASK	54		150	150	150	Hypoxic stress: 150	
VOCABULARY	19			178	178	Anxiety: 185 Confinement: 187	
VOCABULARY V-1	19			168	168		
VOCABULARY V-2	19			168	168		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
WAIS - see Wechsler Adult Intelligence Scale							
WARNING LIGHT MONITORING						Confinement: 187	
WECHSLER ADULT INTELLIGENCE SCALE, WAIS, Rev. Ed. (Form 1 of the Wechsler-Bellevue IQ Scale)	19	146	149	146	146, 149		Achievement: 149
WECHSLER-BELLEVUE INTELLIGENCE SCALE (Form 2 of the WAIS)	30	146		146	146		
WIDE RANGE VOCABULARY TEST	19			168	168		
WONDERLIC PERSONNEL TEST	30	146	146	146			Vigilance 257
WORD ARRANGEMENTS	20			168	168	Isolated confinement: 186	
WORD BEGINNINGS TEST	20			168	168		
WORD BEGINNINGS AND ENDINGS TEST	20			168	168		

NAME	ABILITY DIMENSION(S)	COSTS	DATA	DESCRIP-TION	MEASURES	STRESS EXPERIMENTATION	OTHER EXPERIMENTATION
WORD ENDINGS TEST	20			168	168		
WORD KNOWLEDGE (VOCABULARY)	19		189	189	163, 189		
WORD-NUMBER - see Object-Number Test							
WORRYING SCALE	73		283	283	283		