

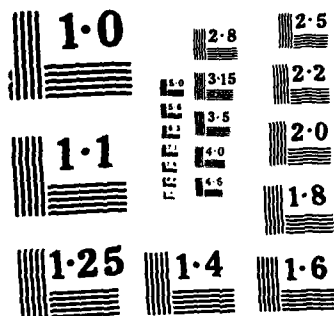
MATRIS (MANPOWER AND TRAINING RESEARCH INFORMATION SYSTEM) HANDBOOK(U) DEFENSE TECHNICAL INFORMATION CENTER SAN DIEGO CA MATRIS OFFICE 01 OCT 85

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MATRAIS

manpower & training research information system

HANDBOOK



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MATRIS

(MANPOWER AND TRAINING RESEARCH INFORMATION SYSTEM)

HANDBOOK

OCTOBER 1985

Produced by
**DEFENSE TECHNICAL INFORMATION CENTER
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FIRST EDITION

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The MATRIS Handbook contains examples of standard database outputs with appendices which provide basic information about the structure of the MATRIS data elements. It is one of several documents produced at the Defense Technical Information Center (DTIC) by the Manpower and Training Research Information System (MATRIS) Office.													
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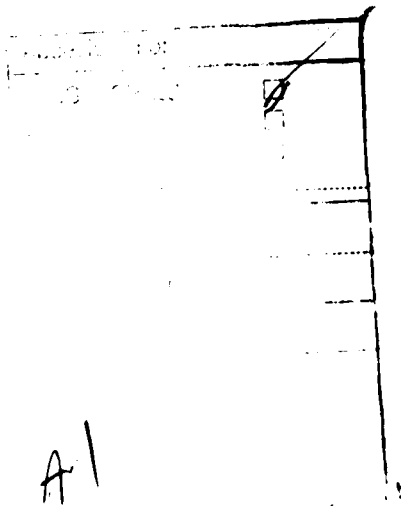
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INTRODUCTORY NOTES TO THE USER

This handbook has been prepared to help you understand and make use of the Manpower and Training Research Information System (MATRIS). Our goal is to explain clearly and simply what you need to know to take full advantage of MATRIS and its many special features. This handbook contains examples of what can be done; appendices provide basic information about the structure of the MATRIS data elements. Please contact MATRIS regarding any special requirements you may have that are not addressed in this book. To request a search or to obtain further information, please contact us at:

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SAN DIEGO, CA 92152-6800
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AUTOVON 933-2056



WHAT IS MATRIS?

MATRIS is an automated information system developed to support the technical information needs of the Manpower, Personnel and Training (MPT) R&D Community.

MATRIS is jointly sponsored by the Office of the Under Secretary of Defense/Research and Engineering (OUSD/R&E) and the Office of the Assistant Secretary of Defense/Force Management and Personnel (OASD/FM&P). It originated as two separate systems: the Research and Development Information System (RDIS) and the Training and Personnel Systems Technology (TPST) System. RDIS was designed and initiated by the Navy Personnel Research and Development Center in FY 77, and contained information about MPT Work Unit-level R&D. The TPST information system, covering Program Element and Project information, was designed for OUSD/R&E and OASD/FM&P and implemented in FY 79-80. The two systems were merged in FY 82 to form MATRIS. In FY 83 DLA/DTIC assumed administrative/operational responsibility for MATRIS.

MATRIS provides program managers, laboratory managers, and researchers with information about planned, on-going, and recently completed DoD research within the technology areas of Human Factors, Manpower and Personnel, Education and Training, and Simulation and Training Devices. The database contains Program Element, Project, and Work Unit information.

A major benefit of MATRIS is the ability to track and manage research and funding allocations according to various classifications, including Congressional categories, DoD goals and objectives, DoD budget categories, and technical descriptive terms.

For example, MATRIS can:

- Display the relationship of people-related R&D to missions, goals and objectives
- Identify redundancies and/or gaps in the R&D program
- Display the distribution of R&D efforts among organizations, technology areas, budget categories, etc.
- Tabulate funding by service, organization, etc.
- Search descriptive data by indexed key words or full-text scanning
- State benefits and utilization of people-related R&D
- Generate comprehensive research program description documents

WHAT IS MATRIS?, cont.

MATRIS can also generate sets of pre-formatted management reports and respond to ad-hoc management queries requiring custom output products.

Managers can use the MATRIS database to monitor R&D resource allocations and assess progress towards stated goals and objectives. Researchers can survey past and present projects to prevent duplication of R&D efforts and ensure that current research builds on lessons already learned.

THE REGISTRATION PROCESS

MATRIS is administered by the Defense Technical Information Center (DTIC). DTIC requires all users to register for service because of the nature of the R&D information that is being disseminated. Registration is free and involves completing one or two brief forms which are available from DTIC or MATRIS as part of a registration kit. Contractors must complete a separate DD Form 1540, Registration for Scientific and Technical Information Services, for each contract or grant, providing information such as organization name, address, prime contract/grant or program number, expiration date, and the security classification of information to be requested. The DoD contract monitor then signs the form to signify approval. Contractors requiring classified information must also complete a DD Form 1541, Facility Clearance Register, and have it approved by their cognizant Defense Investigative Service (DIS) office. DD Forms 1540 submitted by contractors remain in force for whatever period is authorized by the contract monitor. Military users recertify annually.

DTIC's registration kit contains a manual entitled "Certification and Registration for Access to DoD Scientific and Technical Information" (DLAM 4185.6), which helps organizations determine their eligibility for DTIC services and outlines registration procedures. The kit also includes other materials on a variety of DTIC products and services.

SECTION 1.

DIRECTORY OF INQUIRIES

This section lists the sample inquiries that are presented in the Output Format Section. It is a reference guide to the page number of the inquiry and its accompanying output.

DIRECTORY OF INQUIRIES

SAMPLE INQUIRY	FORMAT	PAGE NO.
What R&D is being done in PE 63,31A?	SYNOPSIS	5
What is the current funding from the FY 86 President's Budget for Project A792-1? What research is being done in that Project?	SYNOPSIS	6
What R&D is currently being done in development and validation of the Armed Services Vocational Aptitude Battery (ASVAB)?	SYNOPSIS	7
Which Navy PEs had a funding change of 50 percent (either up or down) between FY 85 and FY 84 according to the FY 85 President's Budget?	LISTING	8
What is the Air Force funding in FYs 84-85 for PE 63704F? What percentage change has occurred between those two fiscal years? What Projects are under that PE and which labs are conducting the work?	LISTING	9
For the area of Goal 6, "Training Systems", how complete is the current DoD coverage broken out by Congressional category?	GOAL COVERAGE MATRIX	10
What was the Air Force funding in FY 85 for 6.4 research? What percentage of the total MPT program did Air Force 6.4 research represent?	TABLE	11
How does the Navy's FY 85 funding break out by Congressional category for the budget categories 6.1 through 6.4?	TABLE	12
What portion of the total MPT program was under the Congressional category "Simulation and Training Devices" in FY 85? How was that funding divided by budget category?	TABLE	13

DIRECTORY OF INQUIRIES, cont.

SAMPLE INQUIRY	FORMAT	PAGE NO.
What DoD goals are being covered by the Air Force for FY 85?	TABLE	14
List the Army 6.3 PEs. Show a funding breakout for PEs by Congressional category for FY 85.	TABLE	15
Show a funding summary for PE 02763N and Project F63-521 consisting of actual and estimated dollars for the fiscal years 1980-1983.	MULTI- YEAR SUMMARY	16
Show the difference between inflation-adjusted funding and funding not adjusted for inflation for the MPT program for the fiscal years 1981-1985, broken out by budget category.	MULTI- YEAR SUMMARY	17
What contractors are working for the Army Research Institute in the area of computer-assisted/computer-aided instruction?	EXPAND & REPORT DISPLAY	18
For the ARI contract Work Unit efforts (from the question above), who are the responsible individuals from ARI, what are the beginning dates, and who are the contractors performing the work?	REPORT DISPLAY	19
List the average PE size for the three services in dollars for FY 85 according to the FY 86 President's Budget.	REPORT DISPLAY	20

SECTION 2.

OUTPUT FORMAT EXAMPLES

This section presents the sample inquiries and the output format that best addresses the information requirements. For ease of use, boxes surround the pertinent information.

SYNOPSIS

INQUIRY: What R&D is being done in PE 63731A? Provide the title, an abstract of the work, and a statement about the payoffs.

PROGRAM ELEMENT OVERVIEW

PE: 63731A

MANPOWER AND PERSONNEL

CONGRESSIONAL CATEGORY: MANPOWER & PERSONNEL

DoD ORGANIZATION: ARMY

PE SYNOPSIS:

The objective of this Program Element is to develop: (a) computer-supported methods for projecting the impact of new system and force structure designs on future manpower and personnel requirements, (b) computer technology-based methods to increase the success of the Army's recruiting effort, (c) computer-based methods for more efficient allocation of manpower to appropriate military jobs, and (d) techniques to reduce soldier attrition and to increase rates of enlistment and reenlistment of highly qualified soldiers.

This advanced development program will improve the Army's capability to specify personnel requirements and skill.... *

PAYOFF/UTILIZATION:

The payoffs of this Program Element include: (a) improved methods for selecting and utilizing soldiers and for determining the effects of manpower demands of new systems upon the available manpower supply, (b) models for projecting personnel resources and for allocating resources to requirements, (c) techniques for attracting needed personnel into the Army and for assigning them to Military Occupational Specialties that make use of their aptitudes and interests, (d) programs for retaining highly qualified personnel.... *

*

Note: These fields have been truncated to save space.

SYNOPSIS

INQUIRY: What is the current funding from the FY 86 President's Budget for Project A792-1? What research is being done in that Project?

PROJECT OVERVIEW

PROJECT: A792-1 MANPOWER AND PERSONNEL
PE: 63731A MANPOWER AND PERSONNEL
CONGRESSIONAL CATEGORY: MANPOWER & PERSONNEL
DoD ORGANIZATION: ARMY
RESPONSIBLE ORGANIZATION: ARMY RESEARCH INSTITUTE

FUNDING: FY86 \$12.0M FY87 \$16.9M

PROJECT SYNOPSIS:

A792-1: MANPOWER AND PERSONNEL

The objectives of this Project are to develop and evaluate: (a) methods to attract needed personnel to the Army, to select the most qualified, and to assign them to jobs (Military Occupational Specialties) that capitalize on their aptitudes and vocational interests, (b) programs to retain highly qualified personnel, (c) programs to develop cohesive units and leaders needed to assure combat readiness in the high-technology Army environment, and (d) computer-based tools to identify aggregated future manpower and personnel needs for the battlefield of the future.

Approaching the year 2000, the number of military-age people in the population will be 20 percent fewer than at present... *

*
Note: This field has been truncated to save space.

SYNOPSIS

INQUIRY: What R&D is currently being done on development and validation of the Armed Services Vocational Aptitude Battery (ASVAB)? (This question resulted in a set of records on the topic. One sample record from the record set is shown.)

MATRIS 250224 CONTROL DA303189 WORK UNIT A7922312101

WORK UNIT TITLE:

DEVELOPMENT AND VALIDATION OF ARMY SELECTION AND
CLASSIFICATION MEASURES (ADV DEV)

RESPONSIBLE ORGANIZATION:

ARMY RESEARCH INSTITUTE

PERFORMING ORGANIZATION:

HUMAN RESOURCES RESEARCH ORGANIZATION

PRINCIPAL INVESTIGATOR: GOER M

PHONE (COMM: 703-549-3611; AUTOVON: NE)

SYNOPSIS/PURPOSE:

VALIDATE CURRENT AND FUTURE ASVAB (ARMED SERVICES
VOCATIONAL APTITUDE BATTERY) AGAINST SOLDIER
PERFORMANCE; DEVELOP NEW SELECTION AND CLASSIFICATION
PROCEDURES AND MEASURES TO OPTIMIZE THE MATCH....*

PROGRESS MADE:

CONDUCTED A SYMPOSIUM AT THE AMERICAN PSYCHOLOGICAL
ASSOCIATION AND PRESENTED SEVERAL PAPERS; DEVELOPED A
TAXONOMY OF HUMAN ABILITIES, AN ABILITIES BY TASK
PERFORMANCE MATRIX, AN EXTENSIVE TASK... *

FUTURE DIRECTIONS/MILESTONES:

NE

PAYOFFS/UTILIZATION:

IMPROVED ABILITY TO MATCH SOLDIER ABILITIES TO
MILITARY OCCUPATIONAL SPECIALTIES THROUGH THE
DEVELOPMENT AND VALIDATION OF ARMY.... *

RESEARCH PRODUCTS:

WORKING PAPERS DESCRIBE METHODS USED TO SELECT
PREDICTORS FOR THE PRELIMINARY TEST BATTERY. PRESENTED
PAPERS AT THE AMERICAN PSYCHOLOGICAL.... *

START DATE: 1 SEP 82 END DATE: 30 SEP 89 STATUS: CONTINUING

*

Note: These fields have been truncated to save space.

LISTING

INQUIRY: Which Navy PEs had a funding change of 50 percent (either up or down) between FY 85 and FY 84 according to the FY 85 President's Budget? Give the PE, percent change, title, Congressional category, and funding.

MATRIS LISTING FOR **PE'S WITH FUNDING CHANGES OF 50 %**

RESTRICTED UNIVERSE: NAVY

PE	F85L84 (\$M)	F85L85 (\$M)	CONG. CAT.	% CHG	TITLE
63701N	1.192	1.862	HF	56 %	HUMAN FACTORS ENGINEERING
63707N	1.805	5.074	MP	181 %	MANPOWER CONTROL SYSTEMS DEVELOP- MENT
63720N	2.239	5.062	ET	126 %	EDUCATION AND TRAINING
63727N	1.697	10.533	ET	521 %	ADVANCED TECHNOLOGY FOR LOGISTICS INFORMA- TION
64703N	3.285	6.505	MP; ST	98 %	TRAINING AND PER- SONNEL SYSTEM DEVELOPMENT
64714N	11.585	3.125	ST	-73 %	AIR WARFARE TRAINING DEVICES

LISTING

INQUIRY: What was the Air Force funding in FYs 84-85 for PE 63704F?
 What percentage change has occurred between those two fiscal years?
 What projects are under that PE and which labs are conducting the work?

MATRIS LISTING FOR AIR FORCE PE'S AND PROJECTS

RESTRICTED UNIVERSE: PE=63704F

PE/PROJECT	RESP. ORG.	F85L84 (\$M)	F85L85 (\$M)	CONG. CAT.	PROG. GOAL	TITLE
63704F						MANPOWER AND PERSONNEL SYSTEMS TECHNOLOGY
2922	AFHRL	.500	1.242	MP	2	PERSONNEL ASSESSMENT SYSTEMS
2948	AFHRL	.170	.091	MP	3	COMPREHENSIVE OCCUPATIONAL DATA ANALYSIS PROGRAM (CODAP)
2949	AFHRL	.000	.360	ET	6	BASIC SKILLS ASSESSMENT AND ENHANCEMENT SYSTEM
2951	AFHRL	.130	.350	ET	6	TRAINING DECISIONS SYSTEM
		-----	-----			
		.800	2.043			

TOTAL FUNDING IN 63704F:

FY84	FY85	% CHANGE
-----	-----	-----
.800	2.043	155 %

							V						
GOAL	1		2		3		4		5		6		A
SUBGOAL	A	B	C	D	E	F	G	H	I	J	K	L	R
CONGRESSIONAL CATEGORY													
ET			-	-				*	*	*		*	*
HF					-	-	*	*	*	*		*	*
MP	*	*	-	-	*	*			*	*		*	*
ST			*	*	*	*			*	*		*	*
VARIOUS	*				*							*	*

- INDICATES ONE OR MORE PROJECTS WITH FUNDING FOR THE GIVEN FUNDING LINE AND A RELATED GOAL/SUBGOAL AS SHOWN

10

TABLE

INQUIRY: What was the Air Force funding in FY 85 for 6.4 research?
What percentage of the total MPT program did Air Force 6.4 research represent?

MPT PROGRAM FUNDING IN 1985
BASED ON FY86 PRESIDENT'S BUDGET

BUDGET CATEGORY BY DOD ORGANIZATION

1985 (\$MILLIONS)

DOD ORGANIZATION	BUDGET CATEGORY				TOTAL
	6.1	6.2	6.3	6.4	
AF	6.15	44.53	18.01	138.00	206.70
(COL%)	(23)	(53)	(20)	(60)	(48)
ARMY	7.70	26.89	51.64	53.32	139.55
(COL%)	(28)	(32)	(58)	(23)	(33)
NAVY	13.27	12.06	19.39	37.74	82.45
(COL%)	(49)	(14)	(22)	(16)	(19)
TOTAL	27.12	83.48	89.05	229.06	428.70
(COL%)	(100)	(100)	(100)	(100)	(100)

TABLE PARAMETERS:

COLUMN VARIABLE	- BUDGET CATEGORY
ROW VARIABLE	- DOD ORGANIZATION
SELECT VALUE	- (NONE)
FISCAL YEAR	- 1985
BUDGET MILESTONE	- FY86 PRESIDENT'S BUDGET
DATA TABULATED	- PROJECT RECORDS
PERCENT/COUNTS	- COLUMN PERCENTAGES

TABLE

INQUIRY: How does the Navy's FY 85 funding break out by Congressional category for the budget categories 6.1 through 6.4? Provide graphs showing both percentages and dollars. *

**MPT PROGRAM FUNDING IN 1985
BASED ON FY86 PRESIDENT'S BUDGET
FOR DOD ORGANIZATION = NAVY**

CONGRESSIONAL CATEGORY BY BUDGET CATEGORY

1985 (\$MILLIONS)

BUDGET CATEGORY	CONGRESSIONAL CATEGORY				
	ET	HF	MP	ST	TOTAL
6.1	6.19	3.12	3.95	.00	13.27
(COL%)	(55)	(37)	(35)	(0)	(17)
6.2	1.51	3.51	3.79	3.25	12.06
(COL%)	(13)	(41)	(33)	(7)	(15)
6.3	3.53	1.87	2.52	8.82	16.74
(COL%)	(31)	(22)	(22)	(18)	(21)
6.4	.00	.00	1.18	36.56	37.74
(COL%)	(0)	(0)	(10)	(75)	(47)
TOTAL	11.23	8.50	11.45	48.63	79.81
(COL%)	(14)	(11)	(14)	(61)	(100)

TABLE PARAMETERS:

COLUMN VARIABLE - CONGRESSIONAL CATEGORY
ROW VARIABLE - BUDGET CATEGORY
SELECT VALUE - DOD ORGANIZATION = NAVY
FISCAL YEAR - 1985
BUDGET MILESTONE - FY86 PRESIDENT'S BUDGET
DATA TABULATED - PROJECT RECORDS
PERCENT/COUNTS - COLUMN PERCENTAGES

*
Graphs shown on page 22.

TABLE

INQUIRY: What portion of the entire MPT program was under the Congressional category "Simulation and Training Devices" in FY 85? How was that funding divided by budget category?

MPT PROGRAM FUNDING IN 1985
 BASED ON FY86 PRESIDENT'S BUDGET

CONGRESSIONAL CATEGORY BY BUDGET CATEGORY

1985 (\$MILLIONS)

BUDGET CATEGORY	CONGRESSIONAL CATEGORY				TOTAL
	ET	HF	MP	ST	
6.1	7.69	13.42	5.50	.50	27.12
(ROW%)	(28)	(49)	(20)	(2)	(100)
6.2	12.91	34.41	14.84	21.32	83.48
(ROW%)	(15)	(41)	(18)	(26)	(100)
6.3	15.21	16.29	17.27	40.27	89.05
(ROW%)	(17)	(18)	(19)	(45)	(100)
6.4	7.70	.00	1.18	220.17	229.06
(ROW%)	(3)	(0)	(1)	(96)	(100)
TOTAL	43.52	64.12	38.79	282.27	428.70
(ROW%)	(10)	(15)	(9)	(66)	(100)

TABLE PARAMETERS:

COLUMN VARIABLE - CONGRESSIONAL CATEGORY
 ROW VARIABLE - BUDGET CATEGORY
 SELECT VALUE - (NONE)
 FISCAL YEAR - 1985
 BUDGET MILESTONE - FY86 PRESIDENT'S BUDGET
 DATA TABULATED - PROJECT RECORDS
 PERCENT/COUNTS - ROW PERCENTAGES

TABLE

INQUIRY: How are the DoD goals being covered by the Air Force for FY 85?

MPT PROGRAM FUNDING IN 1985
 BASED ON FY86 PRESIDENT'S BUDGET
 FOR DOD ORGANIZATION = AF

DOD GOAL BY BUDGET CATEGORY

1985 (\$MILLIONS)

BUDGET CATEGORY	DOD GOAL						VAR	TOTAL
	1	2	3	4	5	6		
6.1	.00	.55	.00	5.60	.00	.00	.00	6.15
(ROW%)	(0)	(9)	(0)	(91)	(0)	(0)	(0)	(100)
6.2	1.29	2.33	.00	10.68	.00	12.38	17.85	44.53
(ROW%)	(3)	(5)	(0)	(24)	(0)	(28)	(40)	(100)
6.3	.00	1.24	.13	4.92	.97	10.76	.00	18.01
(ROW%)	(0)	(7)	(1)	(27)	(5)	(60)	(0)	(100)
6.4	.00	.00	.00	.00	.00	138.00	.00	138.00
(ROW%)	(0)	(0)	(0)	(0)	(0)	(100)	(0)	(100)
TOTAL	1.29	4.12	.13	21.20	.97	161.13	17.85	206.70
(ROW%)	(1)	(2)	(0)	(10)	(0)	(78)	(9)	(100)

TABLE PARAMETERS:

COLUMN VARIABLE - DOD GOAL
 ROW VARIABLE - BUDGET CATEGORY
 SELECT VALUE - DOD ORGANIZATION = AF
 FISCAL YEAR - 1985
 BUDGET MILESTONE - FY86 PRESIDENT'S BUDGET
 DATA TABULATED - PROJECT RECORDS
 PERCENT/COUNTS - ROW PERCENTAGES

TABLE

INQUIRY: List the Army 6.3 PEs. Show a funding breakout for the PEs by Congressional categories for FY 85.

MPT PROGRAM FUNDING IN 1985
 BASED ON FY85 PRESIDENT'S BUDGET

CONGRESSIONAL CATEGORY BY PROGRAM ELEMENT
 FOR DOD ORGANIZATION = ARMY

1985 (\$MILLIONS)

PROGRAM ELEMENT	CONGRESSIONAL CATEGORY				
	ET	HF	MP	ST	TOTAL
63216A	.00	.00	.00	9.09	9.09
(ROW%)	(0)	(0)	(0)	(100)	(100)
63731A	.00	.00	17.03	.00	17.03
(ROW%)	(0)	(0)	(100)	(0)	(100)
63738A	.00	.00	.00	6.10	6.10
(ROW%)	(0)	(0)	(0)	(100)	(100)
63739A	.00	10.38	.00	.00	10.38
(ROW%)	(0)	(100)	(0)	(0)	(100)
63743A	11.66	.00	.00	.00	11.66
(ROW%)	(100)	(0)	(0)	(0)	(100)
63744A	.00	.00	.00	4.76	4.76
(ROW%)	(0)	(0)	(0)	(100)	(100)
ARMY 6.3 TOTAL	11.66	10.38	17.03	19.95	59.02
(ROW%)	(17)	(18)	(14)	(51)	(100)

TABLE PARAMETERS:

COLUMN VARIABLE - CONGRESSIONAL CATEGORY
 ROW VARIABLE - PROGRAM ELEMENT
 SELECT VALUE - DOD ORGANIZATION = ARMY
 FISCAL YEAR - 1985
 BUDGET MILESTONE - FY85 PRESIDENT'S BUDGET
 PERCENT/COUNTS - ROW PERCENTAGES

MULTI-YEAR SUMMARY

INQUIRY: Show a funding summary for PE 62763N and Project F63-521 consisting of actual and estimated dollars for the fiscal years of 1980-1983. Show the PE data in a graph. *

PROGRAM ELEMENT SUMMARY

PE NUMBER TITLE

62763N PERSONNEL AND TRAINING TECHNOLOGY

MATRIS FUNDING SUMMARY
(\$ MILLIONS)

PRES. BUDGET	LINE YEAR					84	85	86
	80	81	82	83	83			
FY81	5.154	0.000	0.000					
FY82	5.529	5.734	6.607	0.000				
FY83		5.734	6.377	7.259	7.736			
FY84			8.084	6.845	7.746	8.192		
FY85				6.749	5.684	6.456	6.870	

PROJECT SUMMARY

PE NUMBER PROJECT NO. TITLE

62763N F63-521 MANPOWER AND PERSONNEL TECHNOLOGY

MATRIS FUNDING SUMMARY
(\$ MILLIONS)

PRES. BUDGET	LINE YEAR					84	85	86
	80	81	82	83	83			
FY81	3.279	0.000	0.000					
FY82	3.659	4.274	3.310	0.000				
FY83		2.937	3.248	3.861	4.060			
FY84			6.497	4.959	5.292	5.779		
FY85				4.928	4.033	4.649	4.654	

* Graph shown on page 23.

MULTI-YEAR SUMMARY

INQUIRY: Show the difference between inflation-adjusted funding and funding not adjusted for inflation for the MPT program for the fiscal years 1981-1985, broken out by budget category.

Multi-Year Funding by Budget Category

(\$ millions - inflation adjusted - base year 1985)

Budget Category	1981	1982	1983	1984	1985
6.1	20.473	20.528	22.156	21.284	26.886
6.2	67.606	72.456	75.647	84.262	83.481
6.3	50.712	58.448	71.769	73.174	89.047
6.4	99.674	127.146	105.856	95.805	229.059
TOTAL	238.465	278.578	275.428	274.525	428.473

Multi-Year Funding by Budget Category

(\$ millions - not adjusted for inflation)

Budget Category	1981	1982	1983	1984	1985
6.1	17.297	18.334	20.543	20.464	26.886
6.2	57.114	64.713	70.141	81.009	83.481
6.3	42.841	52.198	66.542	70.348	89.047
6.4	84.205	113.554	98.147	92.107	229.059
TOTAL	201.457	248.799	255.373	263.928	428.473

EXPAND

INQUIRY: What contractors are working for the Army Research Institute in the area of computer-assisted/computer-aided instruction?

Working from a set of 130 active Work Unit records on computer-aided/computer-assisted instruction, the responsible DoD organizations for those efforts are as follows:

THE UNIQUE VALUES ARE

14	AIR FORCE
42	ARMY
74	NAVY

Taking the Army records as a separate set, further refinements show the performance method and the responsible organizations for these efforts:

THE UNIQUE VALUES ARE

20	CONTRACT
22	IN-HOUSE

THE UNIQUE VALUES ARE

16	ARMY RESEARCH INSTITUTE
4	PROJECT MANAGER FOR TRAINING DEVICES

Of the Army Research Institute contract efforts, the performing organizations and the number of efforts for each are:

THE UNIQUE VALUES ARE

2	CALIFORNIA INST OF TECH
2	HUMAN RESOURCES RESEARCH ORGANIZATION
2	INTERAMERICA RESEARCH ASSOCIATION INC
2	SCIENCE APPLICATIONS INC
2	SCIENTIFIC SYSTEMS INC
1	DECISIONS AND DESIGNS INC
1	FLORIDA STATE UNIV
1	FRANKLIN RESEARCH CENTER
1	GORGE MASON UNIV
1	INSTRUCTIONAL SYSTEMS DESIGN
1	XEROX CORP

REPORT DISPLAY

INQUIRY: For the ARI contract Work Unit efforts, who are the responsible individuals from ARI, what are the beginning dates, and who are the contractors performing the work? In a separate list, show the performing organizations for those efforts and the persons to contact.

MATRIS NUMBER	RESPONSIBLE INDIVIDUAL	START DATE	PERFORMING ORGANIZATION
250227	BOLIN S	830401	INSTRUCTIONAL SYSTEMS DESIGN
250267	BURNSIDE B	830801	HUMAN RESOURCES RESEARCH ORGANIZATION
250139	FARR B	820927	FLORIDA STATE UNIV
250268	GOLDBERG S	831001	SCIENTIFIC SYSTEMS INC
250330	HILLER J	840401	CALIFORNIA INST OF TECH
250192	HILLER J	830101	CALIFORNIA INST OF TECH
250347	KRISTIANSEN D	840901	DECISIONS AND DESIGNS INC
250349	KRISTIANSEN D	840901	INTERAMERICA RESEARCH ASSOCIATION
250348	KRISTIANSEN D	840901	SCIENTIFIC SYSTEMS INC
250353	MIRABELLA A	810301	SCIENCE APPLICATIONS INC
250344	MIRABELLA A	830101	SCIENCE APPLICATIONS INC
250157	NARVA M	820601	GEORGE MASON UNIV
250328	PSOTKA J	831101	XEROX CORP
250332	SIMUTIS Z	801001	FRANKLIN RESEARCH CENTER
250345	SIMUTIS Z	831001	HUMAN RESOURCES RESEARCH ORGANIZATION
250122	SIMUTIS Z	820201	INTERAMERICA RESEARCH ASSOCIATION

PERFORMING ORGANIZATION	CONTACT	PHONE
CALIFORNIA INST OF TECH	SILLIMAN A	818-577-9328
DECISIONS AND DESIGNS INC	MARTIN A	703-821-2828
FLORIDA STATE UNIV	BRANSON R	904-644-4720
FRANKLIN RESEARCH CENTER	FERTNER K	215-355-8111
GEORGE MASON UNIV	ALLEN J	703-323-2211
HUMAN RESOURCES RESEARCH ORGANIZATION	DRUCKER E	502-942-3232
HUMAN RESOURCES RESEARCH ORGANIZATION	KNERR C	703-549-3611
INSTRUCTIONAL SYSTEMS DESIGN	PATTON S	206-392-1295
INTERAMERICA RESEARCH ASSOCIATION INC	RUSSO R	703-528-8480
SCIENCE APPLICATIONS INC	SWEZEY R	703-827-4974
SCIENTIFIC SYSTEMS INC	MARCO R	617-661-6364
XEROX CORP	BROWN J	415-494-4341

REPORT DISPLAY

INQUIRY: List the average PE size for the three services in dollars for FY 85 according to the FY 86 President's Budget.

ARMY	PE	F86L85	
	61102A	7.7000	
	62716A	10.4370	
	62717A	4.7540	
	62722A	7.1910	
	62727A	4.5070	
	63216A	9.0520	
	63731A	11.9520	
	63738A	7.9410	
	63739A	7.8370	
	63743A	10.1260	
	63744A	4.7350	
	64217A	13.2430	
	64715A	32.3720	
	64722A	7.7030	
		139.5500	TOTAL
		9.9678	MEAN

AIR FORCE	PE	F86L85	
	61102F	6.1500	
	62202F	13.4860	
	62205F	23.2400	
	62703F	7.8080	
	63227F	7.4860	
	63231F	3.4200	
	63704F	2.0390	
	63751F	5.0700	
	64227F	138.0000	
		206.6990	TOTAL
		22.9665	MEAN

NAVY	PE	F86L85	
	61153N	13.2660	
	62757N	6.7590	
	62763N	5.2990	
	63701N	1.8680	
	63707N	2.5200	
	63720N	3.5350	
	63733N	8.8180	
	64703N	5.6900	
	64715N	32.0510	
		79.8060	TOTAL
		8.8673	MEAN

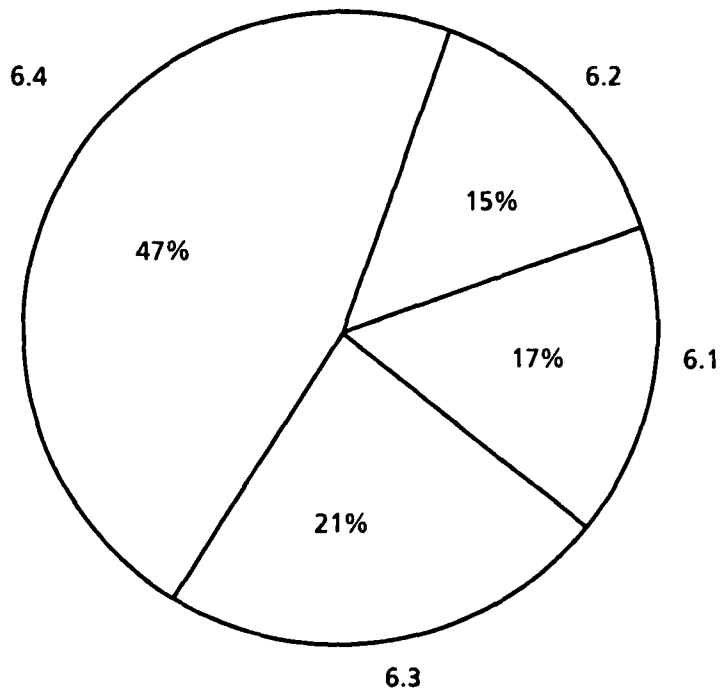
SECTION 3.

GRAPHICS

The examples on the following pages were produced with Xerox Star software. MATRIS has in-house graphics capabilities and can provide similar outputs.

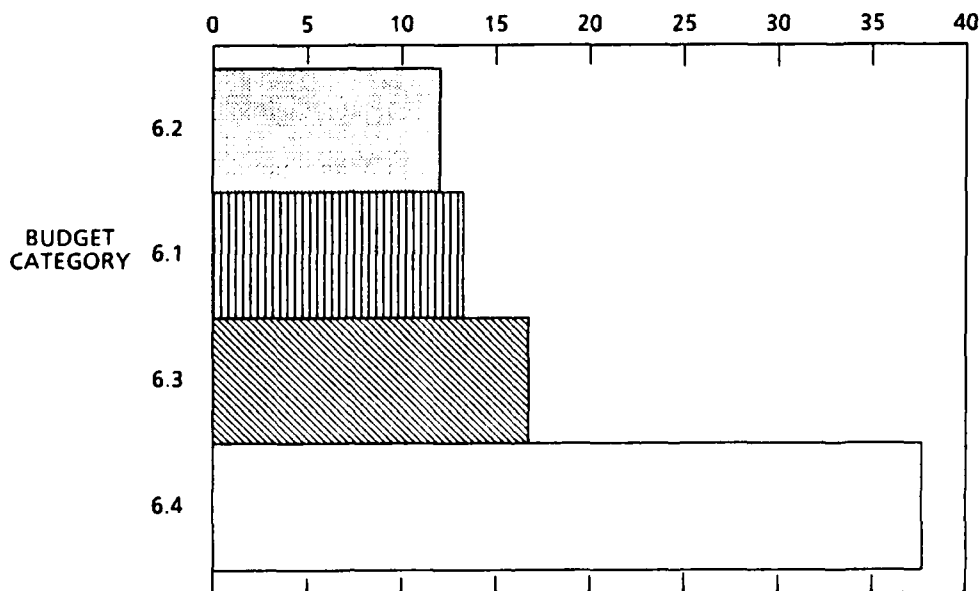
NAVY MPT FUNDING * FY85

GRAPHICS



NAVY MPT FUNDING * FY86

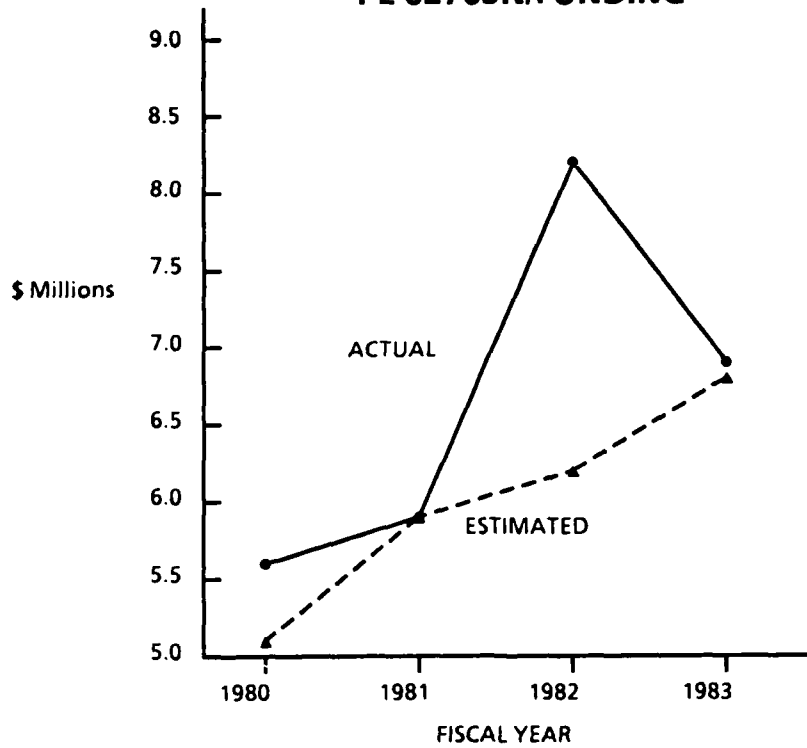
\$ IN MILLIONS



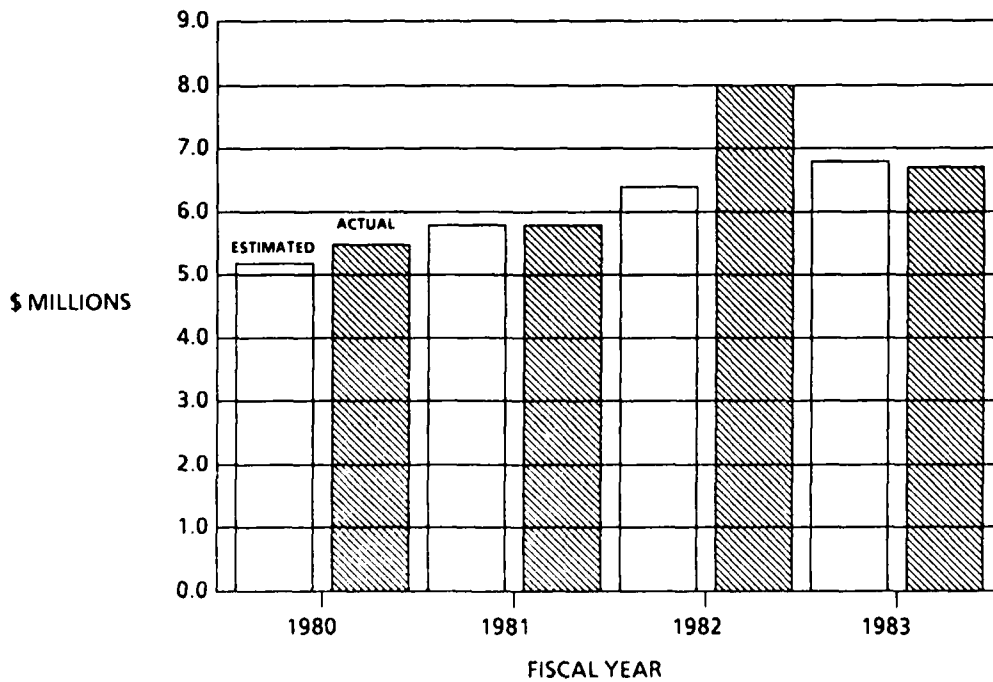
* Source: President's Budget, FY 86

PE 62763N/FUNDING*

GRAPHICS



PE 62763N/FUNDING*



* Source: President's Budgets, FYs 82-85

APPENDIX A.

DATA ELEMENT DEFINITIONS AND EXAMPLES

In this Appendix the data elements are arranged alphabetically in order of: organizational information, text fields, date fields, and other identifiers.

DATA ELEMENT DEFINITIONS AND EXAMPLES

Element Name	Data Example	Definition	P P W E R U
ORGANIZATIONAL INFORMATION:			
Associate Investigator (AI)	NE	The name of the secondary investigator assigned to the research effort (if applicable)	X
DoD Organization	Army	The military service or DoD organization sponsoring the research effort	X X X
Performance Method	CONTRACT	The method of performing the the research effort (contract, in-house, grant, or other)	X
Performing Organization	HUMAN RESOURCES RESEARCH ORGANIZATION	The name of the organization performing the work	X
Performing Unit	HUMPRO-ALEXANDRIA	The name of the performing division, directorate, department, or code within the performing organization	X
Performing Unit Address		The address of the performing organization or unit	X
Principal Investigator (PI)	GOER M	The name of the primary investigator assigned to the research effort	X
PI Organization Code	NE	The PI's organization code (if applicable)	X
PI Phone	703-549-6934 (AV)NE	The PI's phone number; commercial and autovon (if applicable)	X
Program Element Number(s)	63731A	The number of the Program Element (PE) or the PE under which a given Project or Work Unit is funded	X X X
Project Number(s)	A792-1	The Project number or the Project under which a given Work Unit is funded	X X

*
PE= Program Element; PR= Project; WU= Work Unit

DATA ELEMENT DEFINITIONS, cont.

Element Name	Data Example	Definition	P E	P R	W U
Responsible Individual (RI)	EATON N	The name of the program manager in the responsible unit			X
RI Organization Code	PERIRS	The RI's organization code (without punctuation)			X
RI Phone Number(s)	202-274-8275 (AV)284-8275	The RI's phone number, both commercial and autovon			X
Responsible Organization	ARI	The organization responsible for the research effort; typically a research laboratory in the MPT Program			X
Responsible Unit	MANPOWER AND PER- SONNEL RESEARCH LAB	The name of the responsible division, directorate, department, or code within the responsible organization			X

TEXT FIELDS:

Funding Fields	F85L86	PE and Project funding information for any President's Budget year (represented by "F") and the four years reported by each Budget (represented by "L"), as illustrated below: Budget year minus 2 (actual) Budget year minus 1 (estimated) Budget year itself (estimated) Budget year plus 1 (estimated)	X	X	
Future Directions/ Milestones		A description of the planned or potential work; mandatory in PE records and optional in Projects and Work Units	X	X	X
Payoffs/Utilization		A description of the potential benefits and products of a research effort	X	X	X

PE= Program Element; PR= Project; WU= Work Unit

DATA ELEMENT DEFINITIONS, cont.

Element Name	Data Example	Definition	P E	P R	W U
Progress Made		The narrative description of accomplishments of the research effort to date			X
Research Products		The technical documents, journal articles, symposia/papers, etc., produced by the research effort			X
Synopsis/Purpose		The summary of the defense need addressed by a research effort and a description of the approach to that work	X	X	X
Title		The title of the research effort	X	X	X

DATE FIELDS:

Date Source Data Prepared	850115	The date the source document was prepared	X	X	X
Completion Date	890930 (YYMMDD) 999999	Date which the research effort ends (999999 indicates the effort has an undetermined completion date)	X	X	X
Start Date	781001 (YYMMDD)	Date which the research effort begins	X	X	X

OTHER IDENTIFIERS:

Agency Accession Number	DA303189	A unique number assigned to an effort by the research laboratory to serve as the "key"			X
Budget Category 6.3		The first two characters of the PE number used for categorizing levels of research from basic to engineering development	X	X	X
Congressional Category	MP	The major technical area of a research effort; this scheme was developed to categorize the MPT Program for Congress	X	X	

*

PE= Program Element; PR= Project; WU= Work Unit

DATA ELEMENT DEFINITIONS, cont.

Element Name	Data Example	Definition	P P W E R U
Contract Number	MDA903-82- C-0531	The contract number of a con- tract or grant (if applicable)	X
DoD Goal(s)	2	The DoD Goal primarily address- ed by the research effort	X X
DoD Subgoal(s)	G	A narrower classification of the primary focus of the goal(s) of the research effort	X X
Major R&D Classification	5.0	A 1-2 digit decimalled number from the Human Resources Re- search Indexing Vocabulary (HRRIV), a controlled hierarch- ical vocabulary used to retrieve information at the Work Unit level; this number represents the first-level broad category grouping	X
MATRIS Number	1008; 10060	A number of up to 6 digits, depending on the record type, which uniquely identifies a record in the data base	X X X
Principal Topic(s)	5.09.14	A number from the HRRIV which adds to the major classifica- tion number the narrower category grouping (.09) and the most specific grouping (.14); this number represents the primary topics (a maximum of four per record) of the research effort	X
Record Type	PE; PROJ; WU	Designates which of the pos- sible kinds of records a given record is	X X X
Related DoD Goal(s)	1; 3	The DoD Goal secondarily ad- dressed by the research effort	X X

PE= Program Element, PR= Project, WU= Work Unit

DATA ELEMENT DEFINITIONS, cont.

Element Name	Data Example	Definition	P P W E R U
Related DoD Subgoal(s)	F; A	A narrower classification of the secondary focus of the goal(s) of the research effort	X X
Secondary Topic(s)	2.05.02	This number is structurally the same as described above, and represents the secondary or related topics (a maximum of ten per record) of the research effort	X
Security of Work	U	The security classification of the research effort	X
Status	CONTINUING	The state of whether the effort is planned, continuing, completed, or terminated	X X X

*

PE= Program Element; PR= Project; WU= Work Unit

APPENDIX B.

DATABASE RECORDS

This Appendix lists the data elements most commonly requested by MATRIS users. The format of the Appendix simply lists the name of the data element and a data example. The records that have been used are the same as shown in the synopsis format in the Output Format Examples Section. MATRIS tracks additional data that, for brevity's sake, are not presented in this document.

PROGRAM ELEMENT RECORD (Selected Fields)

MATRIS NUMBER : 1008
 RECORD TYPE : PE
 DATE SOURCE DATA PREPARED : 850115 (YYMMDD)
 PROGRAM ELEMENT NUMBER(S) : 63731A
 TITLE : MANPOWER AND PERSONNEL
 DOD ORGANIZATION : ARMY
 BUDGET CATEGORY : 6.3
 CONGRESSIONAL CATEGORY : MP
 DOD GOAL(S) : 2
 RELATED DOD GOAL(S) : 1; 3
 RELATED DOD SUBGOAL(S) : NE
 STATUS : CONTINUING
 STATUS CODE : A
 START DATE : 781001 (YYMMDD)
 COMPLETION DATE : 999999 (YYMMDD)

SYNOPSIS/PURPOSE :

The objective of this Program Element is to develop: (a).... *

PAYOFFS/UTILIZATION :

The payoffs of this Program Element include: (a) improved.... *

FY82 PRESIDENT'S BUDGET, 1980 FUNDING	:	3.085	\$MILLION
FY82 PRESIDENT'S BUDGET, 1981 FUNDING	:	3.065	\$MILLION
FY82 PRESIDENT'S BUDGET, 1982 FUNDING	:	4.675	\$MILLION
FY83 PRESIDENT'S BUDGET, 1981 FUNDING	:	3.359	\$MILLION
FY83 PRESIDENT'S BUDGET, 1982 FUNDING	:	4.662	\$MILLION
FY83 PRESIDENT'S BUDGET, 1983 FUNDING	:	9.787	\$MILLION
FY83 PRESIDENT'S BUDGET, 1984 FUNDING	:	12.219	\$MILLION.... *

*

Note: These fields have been truncated to save space.

PROJECT RECORD (Selected Fields)

MATRIS NUMBER : 10060
 RECORD TYPE : PROJ
 DATE SOURCE DATA PREPARED : 850115 (YYMMDD)
 PROGRAM ELEMENT NUMBER(S) : 63731A
 PROJECT NUMBER(S) : A792-1
 TITLE : MANPOWER AND PERSONNEL
 DOD ORGANIZATION : ARMY
 BUDGET CATEGORY : 6.3
 CONGRESSIONAL CATEGORY : MP
 DOD GOAL(S) : 2
 RELATED DOD GOAL(S) : 1; 3
 RELATED DOD SUBGOAL(S) : F; A
 STATUS : CONTINUING
 STATUS CODE : A
 RESPONSIBLE ORGANIZATION : ARI
 START DATE : 781001 (YYMMDD)
 COMPLETION DATE : 999999 (YYMMDD)
 SYNOPSIS/PURPOSE :

The objectives of this Project are to develop and evaluate.... *

FY82 PRESIDENT'S BUDGET, 1980 FUNDING	:	2.159	\$MILLION
FY82 PRESIDENT'S BUDGET, 1981 FUNDING	:	2.329	\$MILLION
FY82 PRESIDENT'S BUDGET, 1982 FUNDING	:	3.226	\$MILLION
FY83 PRESIDENT'S BUDGET, 1981 FUNDING	:	3.359	\$MILLION
FY83 PRESIDENT'S BUDGET, 1982 FUNDING	:	4.662	\$MILLION
FY83 PRESIDENT'S BUDGET, 1983 FUNDING	:	9.787	\$MILLION.... *

*

Note: These fields have been truncated to save space.

WORK UNIT RECORD (Selected Fields)

MATRIS NUMBER : 250224
 RECORD TYPE : WU
 DATE SOURCE DATA PREPARED : 840601 (YYMMDD)
 PROGRAM ELEMENT NUMBER(S) : 63731A
 PROJECT NUMBER(S) : 2Q263731A792
 TASK NUMBER(S) : 2312
 WORK UNIT NUMBER : A7922312101
 TITLE :
 DEVELOPMENT AND VALIDATION OF ARMY SELECTION AND CLASSIFICATION
 MEASURES (ADV DEV)
 DOD ORGANIZATION : ARMY
 BUDGET CATEGORY : 6.3
 MAJOR R AND D CLASSIFICATION : 5.0
 PRINCIPAL TOPIC(S) : 5.09.14; 2.03.03.... *
 SECONDARY TOPIC(S) : 2.05.02; 6.13.05.... *
 STATUS : CONTINUING
 AGENCY ACCESSION NUMBER : DA303189
 RESPONSIBLE ORGANIZATION : ARMY RESEARCH INST
 RESPONSIBLE UNIT : MANPOWER AND PERSONNEL
 RESEARCH LAB
 RESPONSIBLE INDIVIDUAL (RI) : EATON N
 RI ORGANIZATION CODE : PERIRS
 RI PHONE NUMBER(S) (COMM; AUTOVON) : 202-274-8275; 284-8275
 PERFORMANCE METHOD : CONTRACT
 PERFORMING ORGANIZATION : HUMAN RESOURCES RESEARCH
 ORGANIZATION
 PERFORMING UNIT : HUMMRO-ALEXANDRIA
 PERFORMING UNIT ADDRESS :
 1100 S WASHINGTON ST, ALEXANDRIA, VA 22314
 PRINCIPAL INVESTIGATOR (PI) : GOER M
 PI ORGANIZATION CODE : NE
 PI PHONE NUMBER(S) (COMM; AUTOVON) : 703-549-3611; NE
 ASSOCIATE INVESTIGATOR (AI) : NE
 AI ORGANIZATION CODE : NE
 AI PHONE NUMBER(S) (COMM; AUTOVON) : NE; NE
 CONTRACT NUMBER(S) : MDA903-82-C-0531
 START DATE : 820901 (YYMMDD)
 COMPLETION DATE : 890930 (YYMMDD)
 SECURITY OF WORK : U
 SYNOPSIS/PURPOSE :
 VALIDATE CURRENT AND FUTURE ASVAB (ARMED SERVICES... *
 PROGRESS MADE :
 CONDUCTED A SYMPOSIUM AT THE AMERICAN PSYCHOLOGICAL.... *
 PAYOFFS/UTILIZATION :
 IMPROVED ABILITY TO MATCH SOLDIER ABILITIES TO MILITARY.... *
 FUTURE DIRECTIONS/MILESTONES: NE
 RESEARCH PRODUCTS :
 WORKING PAPERS DESCRIBE METHODS USED TO SELECT PREDICTORS.... *
 ADDITIONAL INFORMATION : NE
 *

Note: These fields have been truncated to save space.

APPENDIX C.

OUTPUT FORMAT VARIABLES

This Appendix contains the various output formats that are in this document and illustrates the variables available for each.

GOAL MOSAIC FORMAT VARIABLES

(Project data)

Row Selections:

Budget category
Congressional category
DoD organization

Selection of budget year/line year *

MPT PROGRAM COVERAGE
BASED ON F85L85 PROJECT DATA
DOD GOAL
BY CONGRESSIONAL CATEGORY

DOD GOAL/SUBGOAL

GOAL	1	2	3	4	5	6	V
SUBGOAL	ABCDEFGHIJK	ABCDE	ABC	ABCDE	ABCDEFG	ABCDEFGH	A
CONGRESSIONAL CATEGORY							
ET							
HP							
MP							
ST							
VAR							

- * INDICATES ONE OR MORE PROJECTS WITH FUNDING FOR THE GIVEN FUNDING LINE AND A GOAL/SUBGOAL AS SHOWN
- INDICATES ONE OR MORE PROJECTS WITH FUNDING FOR THE GIVEN FUNDING LINE AND A RELATED GOAL/SUBGOAL AS SHOWN

*
See Appendix D for funding year choices

LISTING MOSAIC FORMAT VARIABLES

(PE and Project data)

Selection of:

A single PE and its Project(s)
PEs by branch of service

Selection of a budget year and two
consecutive line years *

RESTRICTED UNIVERSE: PE=63704F

PE/PROJECT	RESP. ORG.	F85L84 (\$M)	F85L85 (\$M)	CONG. CAT.	PROG. GOAL	TITLE
63704F						HANPOWER AND PER- SONNEL SYSTEMS TECHNOLOGY
2922	AFHRL	.500	1.242	MP	2	PERSONNEL ASSES- MENT SYSTEMS
2948	AFHRL	.170	.091	MP	3	COMPREHENSIVE OCCUPATIONAL DATA ANALYSIS PROGRAM (CODAP)
2949	AFHRL	.000	.360	ET	6	BASIC SKILLS ASSESSMENT AND AND ENHANCEMENT SYSTEM
2951	AFHRL	.130	.350	ET	6	TRAINING DECISIONS SYSTEM
		.800	2.043			

TOTAL FUNDING IN 63704F:

FY84	FY85	% CHANGE
.800	2.043	155 %

Selection of:

On a single PE/Project format, a percent
change applying to the PE only
On a listing of PE's, a percent change
for each PE

See Appendix D for funding year choices

INFLATION-ADJUSTED MULTI-YEAR SUMMARY FORMAT VARIABLES

(PE and Project data)

Row selections:

Budget category
Congressional category
DoD organization
Responsible organization

Multi-Year Funding by Budget Category

(\$ millions - inflation adjusted - base year 1985)

Budget Category	1981	1982	1983	1984	1985*
6.1	20.473	20.528	22.156	21.284	26.886
6.2	67.606	72.456	75.647	84.262	83.481
6.3	50.712	58.448	71.769	73.174	89.047
6.4	99.674	127.146	105.856	95.805	229.059
TOTAL	238.465	278.578	275.428	274.525	428.473

Span length:

5 years

6 years

Multi-Year Funding by Budget Category

(\$ millions - not adjusted for inflation)

Budget Category	1981	1982	1983	1984	1985
6.1	17.297	18.334	20.543	20.464	26.886
6.2	57.114	64.713	70.141	81.009	83.481
6.3	42.841	52.198	66.542	70.348	89.047
6.4	84.205	113.554	98.147	92.107	229.059
TOTAL	201.457	248.799	255.373	263.928	428.473

*

5th year of period (base year for inflation adjustment)

TABLE FORMAT VARIABLES

(PE and Project data)

Selections to limit records to:
(optional; one choice per table)

Budget category
Congressional category
DoD organization
Responsible organization

Selection of budget year/line year *

Row selections:

Budget category
Congressional category
DoD goal
DoD organization
Program Element
Responsible organization

CONGRESSIONAL CATEGORY BY BUDGET CATEGORY
1985 (\$MILLIONS)

BUDGET CATEGORY	CONGRESSIONAL CATEGORY				
	ET	HF	HP	ST	TOTAL
6.1 (ROWS)	6.19 (47)	3.12 (24)	3.95 (30)	.00 (0)	13.27 (100)
6.2 (ROWS)	1.51 (12)	3.51 (29)	3.79 (31)	3.25 (27)	12.06 (100)
6.3 (ROWS)	3.53 (21)	1.87 (11)	2.52 (15)	8.82 (53)	16.74 (100)
6.4 (ROWS)	.00 (0)	.00 (0)	1.18 (3)	36.56 (97)	37.74 (100)
TOTAL (ROWS)	11.23 (14)	8.50 (11)	11.45 (14)	48.63 (61)	79.81 (100)

Column selections:

Budget category
Congressional category
DoD goal
DoD organization

TABLE PARAMETERS:
COLUMN VARIABLE - CONGRESSIONAL CATEGORY
ROW VARIABLE - BUDGET CATEGORY
SELECT VALUE - DOD ORGANIZATION = NAVY
FISCAL YEAR - 1985
BUDGET MILESTONE - FY86 PRESIDENTS BUDGET
DATA TABULATED - PROJECT RECORDS
PERCENT/COUNTS - ROW PERCENTAGES

Percent/Count selections:
(shown above in parentheses)

Percentage of column variable
Percentage of row variable
Count of the number of records

* See Appendix D for funding year choices

APPENDIX D.

FUNDING FIELD INFORMATION

This Appendix describes the format MATRIS uses to track funding for PEs and Projects. It also gives the funding years that are available from the database.

FUNDING FIELD INFORMATION

Every year the President's Budget, which is reported in January to Congress, provides funding information for each Program Element and Project for four consecutive years: the President's Budget (fiscal) year, the fiscal year minus 2, minus 1, and plus 1. For example, the 1986 President's Budget contains funding figures for 1984, 1985, 1986, and 1987.

MATRIS contains funding information from the President's Budgets from 1981 to the present.

MATRIS funding data fields have a specific format to indicate the four years that are reported. This format is illustrated below:

Fiscal Year of the President's Budget
(reported in the preceding January)

F86L84

Individual line year from the budget
(the year the funding applies to)

The "F" precedes the President's Budget Year in this data field format. For each budget year there are four years of funding information displayed. The "L" in this data field format precedes each of the four years' funding figures. Another way of illustrating this format is:

Data Field Example	Definition
F86L84	1986 President's Budget figure for 1984 (actual)
F86L85	1986 President's Budget figure for 1985 (estimated)
F86L86	1986 President's Budget figure for 1986 (estimated)
F86L87	1986 President's Budget figure for 1987 (estimated)

The three figures that are defined as "estimated" are subject to revision in subsequent Presidential budgets. The figure defined as "actual" is the last year that particular fiscal year's funding is reported.

APPENDIX E.
MPT GOALS AND SUBGOALS

MANPOWER, PERSONNEL AND TRAINING GOALS AND SUBGOALS

1. Management Trade-offs
 - A. Manpower Models and Trade-offs
 - B. Compensation Issues
 - C. Career Issues
 - D. Reserve Issues
 - E. Military-Civilian Issues
 - F. Organizational Issues
 - G. Mobilization Issues
 - H. Equal Opportunity Issues
 - I. National Trends
 - J. Presidential and Congressional Issues
 - K. Studies with Foreign Affairs/Policy Implications
2. Accession and Retention
 - A. Forecasting of Supply
 - B. Skills and Specialties
 - C. Recruiting System Issues
 - D. Selection and Classification
 - E. Reserve Manpower
3. Unit Productivity
 - A. Measurement/Prediction of Individual and Unit
 - B. Enhancement of Individual and Unit
 - C. Effectiveness/Analysis and Trade-offs of Methods and Processes
4. Designing for System Readiness
 - A. Front-end Analytical Techniques
 - B. Human Capabilities and Design Criteria
 - C. Techniques/Methods for Improved Operability
 - D. Techniques/Methods for Improved Maintainability
 - E. Test, Evaluation and Effectiveness Measurement Methods
5. Improved Sustainability
 - A. Maintaining Individual and Unit Capabilities
 - B. Improved Logistical Support
 - C. Deficiency Measurement and Improvement
 - D. Improved Technical Documentation
 - E. Wartime Factors of Special Concern
 - F. Routine Effectiveness Issues
 - G. Combat Effectiveness Issues

MANPOWER, PERSONNEL AND TRAINING GOALS AND SUBGOALS, cont.

- 6. Training Systems
 - A. Management Trade-offs
 - B. Acquisition Issues
 - C. Utilization Issues
 - D. Cost-Effectiveness Issues
 - E. Design and Analytical Issues and Methods
 - F. Improved Instructional Strategies
 - G. Critical Technologies
 - H. Support System Issues

Various (VAR)

APPENDIX F.

ACRONYMS

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AF	Air Force
ARI	Army Research Institute
CC	Congressional Category
DLA	Defense Logistics Agency
DoD	Department of Defense
DTIC	Defense Technical Information Center
ET	Education and Training
FY	Fiscal Year
HF	Human Factors
MATRIS	Manpower and Training Research Information System
MP	Manpower and Personnel
MPT	Manpower, Personnel and Training
NE	No Entry
OASD/FM&P	Office of the Assistant Secretary of Defense/Force Management and Personnel
OUUSD/R&E	Office of the Under Secretary of Defense/Research and Engineering
PE	Program Element
R&D	Research and Development
RDIS	Research and Development Information System
ST	Simulation and Training
TPST	Training and Personnel Systems Technology
WU	Work Unit

END

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