

GAO

Fact Sheet for the Chairman, Joint
Committee on Printing, U.S. Congress

September 1988

FEDERAL INFORMATION

Agency Needs and Practices



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General Government Division

B-231160.2

September 20, 1988

The Honorable Frank Annunzio
Chairman, Joint Committee on Printing
Congress of the United States

Dear Mr. Chairman:

As requested by the former Committee Chairman and you as the then Vice Chairman, we have completed a survey of federal agency information needs and practices. We collected this information through a questionnaire sent to all federal departments and 57 agencies in June 1987. The questionnaire was designed to provide (1) information the Committee needs to carry out its oversight role in federal printing and publishing management and (2) information to assist the Office of Technology Assessment (OTA) in its study entitled "Technology, Public Policy, and the Changing Nature of Federal Information Dissemination."¹ The Committee requested the OTA study at the same time it requested assistance from us. The Committee's overall objective in requesting this work was to assess the implications of evolving public printing, publishing, and information dissemination technology on the future of the Government Printing Office and public information functions of the federal government.

We sent the questionnaire to the senior information resources management (IRM) officials of all 13 Cabinet-level departments and asked them to provide one response for each major subdivision of their departments. We asked the senior IRM officials of agencies, or the agency head or other appropriate official when the agency was not required to have a senior IRM official, to provide one response for each of their agencies. We received a total of 114 responses from the civilian Cabinet-level departments, 11 responses from the Department of Defense, and 48 responses from agencies. Our

¹OTA's resulting report, tentatively entitled Informing the Nation: Federal Information Dissemination in an Electronic Age, is scheduled to be issued about October 1, 1988.

objective, scope, and methodology are further discussed in appendix I.

As agreed with the Committee, information in this fact sheet is limited to a compilation of department and agency questionnaire responses. We edited responses for completeness and internal consistency and contacted departments and agencies when necessary to clarify answers or obtain complete responses. However, we did not independently verify the accuracy of the responses.

Responses are summarized in appendixes II through XI by the three groups: Cabinet-level civilian department subdivisions, Department of Defense, and agencies. A glossary of terms that was included in the questionnaire is reproduced in appendix XII. Departments and agencies represented by the respondents are listed in appendix XIII. The appendixes do not include respondent-provided (1) narrative comments, (2) information on specific information products or services disseminated to the public in electronic format, and (3) copies of relevant statutes and policies and procedures. This information has been furnished separately to OTA.

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As agreed with the Committee, we plan no further distribution of this fact sheet until 10 days after the date of issuance, unless you publicly announce its contents earlier. At that time, we will send copies to interested parties and make copies available to others upon request. If we can be of further assistance, please call Larry Herrmann on 275-4412 or me on 275-8676.

Sincerely yours,



L. Nye Stevens
Associate Director

ABBREVIATIONS

GPO	Government Printing Office
IRM	Information Resources Management
JCP	Joint Committee on Printing
OTA	Office Of Technology Assessment

OBJECTIVE, SCOPE, AND METHODOLOGY

The former Chairman and Vice Chairman, Joint Committee on Printing (JCP), asked us to identify (1) the current and future information needs of the government and the public and (2) services that might be provided from the Government Printing Office (GPO).¹ We were asked to include traditional information technology but to emphasize state-of-the-art information technology, such as database management, information storage, retrieval, and dissemination systems. At the same time, JCP asked the Office of Technology Assessment (OTA) to identify, analyze, and develop the key issues relevant to the future of GPO and, more generally, to the future direction of the federal government's public information technology and policy.

On the basis of discussions with JCP, our objective was specified as support of the broad OTA study. We agreed to design a questionnaire and collect and provide information on federal agency information needs and practices that could be used to satisfy the needs of both JCP and OTA. We further agreed that we would provide the questionnaire results directly to OTA but would also prepare a fact sheet transmitting the questionnaire data to JCP. Finally, it was agreed that we would document the questionnaire results but not verify information provided by the departments and agencies.

Our questionnaire survey was designed principally to collect

- information on the agencies' present information dissemination practices and plans for use of various new information dissemination technologies,
- department and agency assessments of service provided by GPO and other federal information disseminators,
- department and agency positions on information policy issues and information on the extent of some electronic dissemination practices, and
- information on agency expenditures and information products.

We met with JCP and OTA representatives several times and jointly developed several drafts of the proposed questionnaire as JCP's interests evolved and OTA's study plan was refined. When we

¹Information on information needs of the public is being assessed through questionnaires sent to libraries and associations. The results will be reported separately.

reached substantial agreement on the questionnaire content it was reviewed by GPO, pre-tested with federal department officials, and revised.

In June 1987 we sent a letter and the questionnaire to executive branch senior IRM officials² recognized by OMB in all 13 Cabinet-level departments and in 50 judgmentally selected agencies. In addition, we sent a letter and the questionnaire to heads or other appropriate officials of seven legislative, judicial, and executive branch agencies that were not subject to the provisions of the Paperwork Reduction Act. Departments and agencies represented by questionnaire respondents are listed in app. XIII.

Because the questionnaire dealt with many department and agency functions and information issues, we stressed in the transmittal letter and on the questionnaire cover that we believed information from multiple sources was necessary to develop a single consolidated response. We cited department and agency printing officers, librarians, publishers, public information officers, and advanced technology application planning groups as those we believed the senior IRM official might find beneficial to consult. To help ensure that those in the departments and agencies in the best position to provide information were asked to do so, we provided copies to associations and other groups representing several of these specialties so that group members would be aware the questionnaire had been sent and could seek to contribute to the department or agency responses.

To obtain some detail on subdivisions of Cabinet-level departments, we asked that departments provide a single response for each of their major subdivisions, such as bureaus or administrations. Civilian departments provided a total of 114 responses. The Departments of the Army, the Navy, and the Air Force each provided a single response, and the Marine Corps and seven other Department of Defense components each provided a single response. For clarity, the responses summarized in this fact sheet are presented in three major groups:

-- civilian Cabinet-level department subdivisions (114 responses);

²The Paperwork Reduction Act requires that most executive branch departments and agencies designate a senior official in this capacity. The senior IRM official is to report directly to the agency head and carry out the responsibilities of the agency under the Paperwork Reduction Act. The Federal Election Commission is the one executive branch agency that we contacted that is not subject to the act.

- Department of Defense, including the three services (11 responses); and
- agencies (48 responses).

The following appendixes give the survey results by these major groups.

DEPARTMENT AND AGENCY
CURRENT INFORMATION TYPES AND FORMATS

We asked each department and agency to identify the various types of public information that it disseminates and the format(s) it currently uses for dissemination. They were instructed to check as many boxes in each row as applied. If they did not disseminate a given type of information, they were asked to check column (a). Results are expressed as the number of total responses for each type of public information. Separate results are provided for each of the three groups.

Civilian Cabinet-Level
Department Subdivisions
N=114

For the following types of public information that your agency may disseminate, which of the following formats does the agency currently use for dissemination? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. IF YOUR AGENCY DOES NOT DISSEMINATE THE TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

FORMATS CURRENTLY USED

TYPES OF PUBLIC INFORMATION	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
	DO NOT DISSEMINATE THIS TYPE OF INFORMATION	PAPER	MICROFILM	MICROFICHE	ELECTRONIC MAIL	ELECTRONIC BULLETIN BOARD	MAGNETIC DATA TRANSFER	FLOPPY DISK	VIDEODISK	COMPACT OPTICAL DISK	FILM	VIDEOTAPE	NO RESPONSE
1. Administrative reports	43	69	4	6	16	1	14	7	9		1	1	1
2. Scientific and technical reports/bulletins	42	70	9	22	7	7	17	16	10	2		9	15
3. Pamphlets/bulletins	21	93	1	11	10	4	5	2	2	1	1	1	
4. Press releases	24	88		1	15	6	8	2	4		5	7	
5. Directories/catalogs/bibliographies	35	78	2	12	1	2	10	10	6	1		1	
6. Manuals	41	73	1	5	1	1	4	5	6	1			
7. Contractual specifications/documents	42	72	1	2	1	2	2	2	6		1		
8. Professional journals/proceedings	63	49	2	5	1	3	3	3	1			2	
9. Decisions/opinions	61	53		1	3		3	1	3				1
10. Rules, regulations, directives, circulars	43	71		1	10	1	3	2	7				1
11. Laws/statutes	67	47					1	1	1		1		1
12. Maps, charts, photos	53	61	1	3	2		4	3	3	2	9	4	
13. Software products	80	17		2	2		7	20	19		1	1	
14. Statistical data	29	83	6	14	9	4	20	36	22		1	2	
15. Satellite imagery/data	107	6		1			1	2			1	1	
16. Other (Specify)													

For the following types of public information that your agency may disseminate, which of the following formats does the agency currently use for dissemination? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. IF YOUR AGENCY DOES NOT DISSEMINATE THE TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

FORMATS CURRENTLY USED

TYPES OF PUBLIC INFORMATION	DO NOT DISSEMINATE THIS TYPE OF INFORMATION PRODUCT													NO RESPONSE
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	
1. Administrative reports	3	8	1	2	3	2	2	3	4			2	2	
2. Scientific and technical reports/information	3	8	3	4	1	1	2	2	3		1	2	2	
3. Pamphlets/bulletins		11		2	2	1	2	2	3			3	3	
4. Press releases	4	7			2	2	2	1				1	4	
5. Directories/catalogs/bibliographies	1	10	1	4	1	1	2	3	4			1	1	
6. Manuals	1	10	1	5	1	1	2	2	4			2	1	
7. Contractual specifications/documents	2	9	1		1	1	1		3		1			
8. Professional journals/proceedings	5	6		1	1	1	1		1		1			
9. Decisions/opinions	7	4					1		1					
10. Rules, regulations, directives, circulars	1	10		3		1	1	2	2			1	1	
11. Laws/statutes	11													
12. Maps, charts, photos	3	8	1				1	2	1			2	2	
13. Software products	2	7			1	3	3	6	7					
14. Statistical data	3	7		2	1	1	1	2	2					
15. Satellite imagery/data	11													
16. Other (Specify)												1	1	

Department of
Defense
N=11

For the following types of public information that your agency may disseminate, which of the following formats does the agency currently use for dissemination? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. IF YOUR AGENCY DOES NOT DISSEMINATE THE TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

FORMATS CURRENTLY USED

Agencies
N=48

TYPES OF PUBLIC INFORMATION	DO NOT DISSEMINATE THIS TYPE OF INFORMATION PRODUCT													NO RESPONSE
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	
	PAPER	MICROFILM	MICROFICHE	ELECTRONIC MAIL	ELECTRONIC BULLETIN BOARD	ELECTRONIC DATA TRANSFER	MAGNETIC TAPE/DISK	FLOPPY DISK	VIDEODISK	COMPACT OPTICAL DISK	FILM	VIDEOTAPE		
1. Administrative reports	6	42	2	5	6	1	7	7	9	1	1			
2. Scientific and technical reports/information	17	31	3	10	4	1	5	6	5		2	4		
3. Pamphlets/bulletins	3	45		4	3	3	3	1	2		1	2		
4. Press releases	3	45		2	3	1	3	2	1		1	2		
5. Directories/catalogs/bibliographies	8	40	2	6	1	1	3	5	1					
6. Manuals	16	32	1	1	1		1	2						
7. Contractual specifications/documents	8	40	1	1				2	1		1			
8. Professional journals/proceedings	22	26	1	3			1	1				1		
9. Decisions/opinions	14	34	3	10	2	1	1	1	2					
10. Rules, regulations, directives, circulars	7	41	2	6	1	2	2	1	2		1	1		
11. Laws/statutes	27	21									1			
12. Maps, charts, photos	24	23	3	3			1				3	2		
13. Software products	36	9		1	2		3	7	7			1		
14. Statistical data	12	36	6	6	4	2	5	14	8					
15. Satellite imagery/data	45	2	1	1										
16. Other (Specify)		6	2	3	1		1	2			4	4		
													39	

DEPARTMENT AND AGENCY
PLANNED INFORMATION TYPES AND FORMATS

We asked departments and agencies to check those new formats they planned to use for public information dissemination in the next 3 years. They were instructed to check as many boxes in each row as applied. If they did not plan to disseminate this type of information, they were asked to check column (a). They were not to check formats already in use (see app. II). Results are expressed as the number of total responses for each type of public information. Separate results are provided for each of the three groups.

Civilian Cabinet-Level
Department Subdivisions
N=114

For the following types of public information that your agency may disseminate, which of the following new formats does your agency plan to use for dissemination within the next three years? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. DO NOT CHECK FORMATS ALREADY IN USE CHECKED IN THE PRECEDING QUESTION. IF YOUR AGENCY WILL NOT DISSEMINATE THIS TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

FORMATS PLANNED FOR USE WITHIN NEXT 3 YEARS

TYPES OF PUBLIC INFORMATION	FORMATS PLANNED FOR USE WITHIN NEXT 3 YEARS												
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
1. Administrative reports	43		1	3	14	9	10	6	10	1	3		
2. Scientific and technical reports/information	42		1	2	11	5	4	3	9	3	10	1	3
3. Pamphlets/bulletins	21		1	1	11	8	10	3	9	1	1		2
4. Press releases	23	1			17	8	7		2	4	1		3
5. Directories/catalogs/bibliographies	35		1	1	12	7	11	3	11	3	9		
6. Manuals	42		3	3	10	5	9	1	10	3	4		
7. Contractual specifications/documents	42		1	1	5	3	5		5		2		
8. Professional journals/proceedings	64	1	1	1	4	2	2	2	1		2		
9. Decisions/opinions	60	1	1	2	9	6	8	4	4		1		1
10. Rules, regulations, directives, circulars	45		3	2	11	6	9	2	2	7	1		
11. Laws/statutes	67	1	1	1	4	1	1				1		
12. Maps, charts, photos	53		2	1	5	2	4	1	4	2	3	2	1
13. Software products	79	1	1	1	3	2	3	1	3		2		
14. Statistical data	29	2	1	2	14	10	8	3	14		3		
15. Satellite imagery/data	106						1		1	1	1		1
16. Other (Specify)	1												

NO RESPONSE

Department of
Defense
N=11

For the following types of public information that your agency may disseminate, which of the following new formats does your agency plan to use for dissemination within the next three years? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. DO NOT CHECK FORMATS ALREADY IN USE CHECKED IN THE PRECEDING QUESTION. IF YOUR AGENCY WILL NOT DISSEMINATE THIS TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

FORMATS PLANNED FOR USE WITHIN NEXT 3 YEARS

TYPES OF PUBLIC INFORMATION	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
	WILL NOT DISSEMINATE THIS TYPE OF INFORMATION	PAPER	MICROFILM	MICROFILM	ELECTRONIC	ELECTRONIC MAIL	ELECTRONIC BULLETIN BOARD	MAGNETIC DATA TRANSFER	FLOPPY DISK	VIDEODISK	COMPACT OPTICAL DISK	FILM	VIDEOTAPE
1. Administrative reports	3				1	2	2	1	1	4			
2. Scientific and technical reports/information	3				2	3	2	1	1	1			
3. Pamphlets/bulletins					2	3	2	1					1
4. Press releases	4							1					
5. Directories/catalogs/bibliographies	1				1	2	2	1	2	3			
6. Manuals	1				1	2	2	1	1	2			1
7. Contractual specifications/documents	2				1		1	1					
8. Professional journals/proceedings	5					1							
9. Decisions/options	7					1				1			
10. Rules, regulations, directives, circulars	1				2	3	2	1		2			
11. Laws/statutes	11												
12. Maps, charts, photos	3							2	1				
13. Software products	2				2				1				1
14. Statistical data	3	1						1	2	1			
15. Satellite imagery/data	11												
16. Other (Specify)													

NO RESPONSE

Agencies
N=48

FORMATS PLANNED FOR USE WITHIN NEXT 3 YEARS

TYPES OF PUBLIC INFORMATION	FORMATS PLANNED FOR USE WITHIN NEXT 3 YEARS												
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
1. Administrative reports	7	1	2	2	3	4		4	2	1			
2. Scientific and technical reports/information pamphlets/bulletins	17		1	2	2	2	1	1	4	1	2	1	
3. Pamphlets/bulletins	2	2	2	2	2	2	1	1	2	1		2	
4. Press releases	3			6	3	3	1	1	1				1
5. Directories/catalogs/bibliographies	8	1	2	1	1	3	2	2	1	1	3		
6. Manuals	15	1		3	1	3	2	1	1				
7. Contractual specifications/documents	10		2			1	1	1	1				
8. Professional journals/proceedings	21				1	1	1	1	1				
9. Decisions/opinions	14	1	1	2	2	4	1	5	1	1			
10. Rules, regulations, directives, calculars	7	1	2	1	3	4	6	3	5		2		
11. Laws/statutes	27		1				1						
12. Maps, charts, photos	24				1	1	1	2	1	1	1		
13. Software products	34	1			1	2	1	1					
14. Statistical data	13					1	3	1	3	1	2		
15. Satellite imagery/data	45												
16. Other (Specify)													1

For the following types of public information that your agency may disseminate, which of the following new formats does your agency plan to use for dissemination within the next three years? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. DO NOT CHECK FORMATS ALREADY IN USE CHECKED IN THE PRECEDING QUESTION. IF YOUR AGENCY WILL NOT DISSEMINATE THIS TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

CURRENT INFORMATION TYPES
AND DISSEMINATION SERVICES

We asked departments and agencies which of several possible dissemination services they currently use for the types of public information they disseminate. They were instructed to check as many boxes in each row as apply. If they did not disseminate a given type of information, they were asked to check column (a). Results are expressed as the number of total responses for each type of public information. Separate results are provided for each of the three groups.

For the following types of public information that your agency may disseminate, which of the following dissemination services does the agency currently use for dissemination? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. IF YOUR AGENCY DOES NOT DISSEMINATE THIS TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

Civilian Cabinet-Level
Department Subdivisions
N=114

DISSEMINATION SERVICES CURRENTLY USED

TYPES OF PUBLIC INFORMATION	DISSEMINATION SERVICES CURRENTLY USED								NO RESPONSE
	(a) DO NOT DISSEMINATE THIS TYPE OF INFORMATION PRODUCT	(b) OWN AGENCY	(c) GOVERNMENT PRINTING OFFICE	(d) NATIONAL TECHNICAL INFORMATION SERVICE	(e) CONSUMER INFORMATION CENTER (PUEBLO, CO)	(f) DEPOSITORY LIBRARIES	(g) PRIVATE SECTOR VENDORS/ CONTRACTORS	(h) OTHER (SPECIFY)	
1. Administrative reports	43	70	19	8	1	13	13	2	1
2. Scientific and technical reports/information	42	67	38	36	3	36	26	10	1
3. Pamphlets/bulletins	21	91	52	16	18	34	34	7	1
4. Press releases	24	89	12	4	1	3	14	5	1
5. Directories/catalogs/bibliographies	34	76	41	18	3	28	18	6	2
6. Manuals	40	66	40	16	1	19	25	3	1
7. Contractual specifications/documents	41	67	8	4		1	9	6	2
8. Professional journals/proceedings	63	46	19	11	1	10	11	5	1
9. Decisions/opinions	61	49	15	3		7	8	5	2
10. Rules, regulations, directives, circulars	43	67	36	3	1	10	13	8	1
11. Laws/statutes	64	45	21	2	1	11	3	4	2
12. Maps, charts, photos	54	59	19	5		8	13	3	1
13. Software products	79	31	2	6		1	12		2
14. Statistical data	29	85	36	20	2	27	25	8	1
15. Satellite imagery/data	108	6		1		1	1		2
16. Other (Specify)		17	6	1		2	8	2	94

For the following types of public information that your agency may disseminate, which of the following dissemination services does the agency currently use for dissemination? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. IF YOUR AGENCY DOES NOT DISSEMINATE THIS TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

DISSEMINATION SERVICES CURRENTLY USED

TYPES OF PUBLIC INFORMATION	DISSEMINATION SERVICES CURRENTLY USED							
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1. Administrative reports	3	8	2	1	1	1	1	3
2. Scientific and technical reports/information	3	7	4	7	1	3	2	3
3. Pamphlets/bulletins		10	8	3		4	3	1
4. Press releases	4	7				1		
5. Directories/catalogs/bibliographies	1	10	5	3		3	3	
6. Manuals	1	10	5	2		3	4	
7. Contractual specifications/documents	2	9		1			3	
8. Professional journals/proceedings	5	6	3	1		2	1	
9. Decisions/opinions	7	4					1	
10. Rules, regulations, directives, circulars	1	10	3	2		2	2	
11. Laws/statutes	11							
12. Maps, charts, photos	3	7	2				2	1
13. Software products	2	9		2			3	
14. Statistical data	3	8	1			1	1	
15. Satellite imagery/data	11							
16. Other (Specify)								

Department of Defense
N=11

NO RESPONSE

- DO NOT DISSEMINATE THIS TYPE OF INFORMATION PRODUCT
- OWN AGENCY
- GOVERNMENT PRINTING OFFICE
- NATIONAL INFORMATION CENTER
- CONSUMER INFORMATION CENTER (PUEBLO, CO)
- DEPOSITORY LIBRARIES
- PRIVATE SECTOR VENDORS/ CONTRACTORS
- OTHER (SPECIFY)

For the following types of public information that your agency may disseminate, which of the following dissemination services does the agency currently use for dissemination? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. IF YOUR AGENCY DOES NOT DISSEMINATE THIS TYPE OF INFORMATION, CHECK COLUMN (a) FOR THAT ROW.)

DISSEMINATION SERVICES CURRENTLY USED

Agencies
N=48

TYPES OF PUBLIC INFORMATION	DISSEMINATION SERVICES CURRENTLY USED										NO RESPONSE
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
	DO NOT DISSEMINATE THIS TYPE OF INFORMATION PRODUCT	OWN AGENCY	GOVERNMENT PRINTING OFFICE	NATIONAL TECHNICAL INFORMATION SERVICE	CONSUMER INFORMATION CENTER (PUEBLO, CO)	DEPOSITORY LIBRARIES	PRIVATE SECTOR VENDORS/ CONTRACTORS	OTHER (SPECIFY.)			
1. Administrative reports	6	42	20	5	1	13	8	1			
2. Scientific and technical reports/information	17	31	16	12		13	11	1			
3. Pamphlets/bulletins	2	46	20	4	9	16	13	3			
4. Press releases	3	45	5	1		3	9	2			
5. Directories/catalogs/bibliographies	7	41	17	7	2	10	9	1			
6. Manuals	16	31	9	3		6	3	1			
7. Contractual specifications/documents	8	40	3	2			4				
8. Professional journals/proceedings	22	23	8	3		6	7				
9. Decisions/opinions	14	33	13	3		10	13	1			
10. Rules, regulations, directives, circulars	7	40	16	1		11	11	2			
11. Laws/statutes	27	19	8	2		5	1	1			
12. Maps, charts, photos	25	22	6	4		1	5	1			1
13. Software products	36	11	1	3			4				
14. Statistical data	13	34	8	6		6	7	1			
15. Satellite imagery/data	44	1	1	1			1				3
16. Other (Specify)		6	1				5	1			38

PUBLIC INFORMATION DISSEMINATION
SERVICES AND FORMATS

This appendix relates the public information dissemination services used by the departments and agencies and the formats currently used by those services. We asked the department or agency to indicate whether or not it uses a given dissemination service and, if so, the format(s) in which the information is disseminated. Results are expressed as the number of total responses for each dissemination service. Separate results are provided for each of the three groups.

Civilian Cabinet-Level
Department Subdivisions
N=114

DISSEMINATION SERVICES

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
1. Our own agency	9	105	12	21	29	10	30	46	38	4	1	18	30
2. Government Printing Office (GPO)	40	74	2	10	1	1	1	1	3				
3. National Technical Information Service (NTIS)	71	41	8	26	1	1	10	8					1
4. Consumer Information Center (Pueblo, CO)	94	20											
5. Depository Libraries	55	58	2	14				2	1				1
6. Private sector vendors/contractors	50	54	3	8	10	3	18	17	12	1	1		12
7. Other (Specify)	3	25	1	1	2	1	4	1					3

FORMATS CURRENTLY USED

FORMATS CURRENTLY USED	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
DO NOT USE THIS SERVICE FOR DISSEMINATION													
PAPER													
MICROFILM													
MICROFICHE													
ELECTRONIC MAIL													
ELECTRONIC BULLETIN BOARD													
MAGNETIC DATA TRANSFER													
FLOPPY DISK													
VIDEO DISK													
VIDEO DISK													
COMPACT OPTICAL DISK													
FILM													
VIDEOTAPE													

NO RESPONSE

For the following dissemination services that may be used by your agency to disseminate public information, which of the following formats does your agency currently use for dissemination? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. IF YOUR AGENCY DOES NOT USE THIS DISSEMINATION SERVICE, CHECK COLUMN (a) FOR THAT ROW.)

N=48
Agencies

DISSEMINATION SERVICES		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
1. Our own agency		48	11	16	13	6	11	18	13	2	10	13		
2. Government Printing Office (GPO)		9	38	1	8									
3. National Technical Information Service (NTIS)		28	16	1	10	3								
4. Consumer Information Center (Pueblo, CO)		35	12	1										
5. Depository Libraries		17	30	1	12						1	1		
6. Private sector vendors/contractors		19	29	4	13	3	4	6	4			5	8	
7. Other (Specify)							1							

For the following dissemination services that may be used by your agency to disseminate public information, which of the following formats does your agency currently use for dissemination? (CHECK AS MANY BOXES IN EACH ROW AS APPLY. IF YOUR AGENCY DOES NOT USE THIS DISSEMINATION SERVICE, CHECK COLUMN (a) FOR THAT ROW.)

FORMATS CURRENTLY USED

NO
RESPONSE

42

USE, PROTOTYPING, OR PILOT
TESTING OF INFORMATION TECHNOLOGIES

We asked departments and agencies which of several information technologies (1) are currently in operational use and (2) are currently being prototyped or pilot-tested in their organization for a variety of information functions. The "currently prototyping or pilot testing" column was to be checked only for those technologies that are not currently in operational use.

With respect to the collection, filing, storage, printing, and dissemination of public information, which of the following information technologies is your agency (A) currently using, or (B) currently prototyping or pilot testing? (CHECK ONE BOX FOR EACH ROW UNDER COLUMN (A) "CURRENTLY IN OPERATIONAL USE." ALSO, CHECK ONE BOX FOR EACH ROW UNDER COLUMN (B) "CURRENTLY PROTOTYPING OR PILOT TESTING" FOR THOSE TECHNOLOGIES THAT ARE NOT CURRENTLY IN OPERATIONAL USE AT YOUR AGENCY.)

Civilian Cabinet-Level Department Subdivisions N=114	(A) CURRENTLY IN OPERATIONAL USE		NO RESPONSE	(B) CURRENTLY PROTOTYPING OR PILOT TESTING		NO RESPONSE
	YES (1)	NO (2)		YES (1)	NO (2)	
INFORMATION TECHNOLOGIES						
ELECTRONIC COLLECTION/FILING						
1. Computerized telephone calls	21	93		5	88	
2. Electronic mail	57	57		7	50	
3. Electronic data transfer (computer to computer)	68	46		7	39	
4. Magnetic tape/disk	73	41		2	39	
5. Floppy disk	82	31	1	1	30	
NON-PAPER STORAGE						
6. Micrographics (microfilm/microfiche)	61	52	1	2	50	
7. Magnetic tape/disk	75	39		1	38	
8. Floppy disk	85	27	2		27	
9. Videodisk	10	104		2	102	
10. Compact optical disk (Read-only-memory - CD-ROM)	5	109		17	92	
11. Compact optical disk (Interactive - CD-I)		114		7	107	
12. Optical disk (Write-once, read-many - WORM)	1	113		11	102	
13. Optical disk - Erasable		114		3	111	
PRINTING						
14. Computer-aided page make-up	55	57	2	8	49	
15. Computer graphics	73	39	2	7	32	
16. Electronic photocomposition	49	64	1	8	56	
17. Photo-offset printing	59	53	2	1	52	
18. Laser and other non-impact printing	72	41	1	1	40	
19. Microform printing	20	94		3	91	
20. Desktop publishing systems	37	75	2	15	59	1
21. Electronic publishing systems	23	90	1	11	79	

(continued)

Civilian Cabinet-Level Department Subdivisions N=114	(A) CURRENTLY IN OPERATIONAL USE		NO RESPONSE	(B) CURRENTLY PROTOTYPING OR PILOT TESTING		NO RESPONSE
	YES (1)	NO (2)		YES (1)	NO (2)	
INFORMATION TECHNOLOGIES						
ELECTRONIC DISSEMINATION						
22. Electronic mail	48	62	4	6	56	
23. Electronic bulletin board	40	73	1	11	62	
24. Electronic data transfer (computer to computer)	56	57	1	7	50	
25. Magnetic tape/disk	65	48	1	2	46	
26. Floppy disk	69	44	1	4	40	
27. Videodisk	10	103	1	1	102	
28. Compact optical disk (Read-only-memory - CD-ROM)	5	108	1	13	95	
29. Compact optical disk (Interactive - CD-I)		113	1	6	107	
30. Selective Dissemination of Information (SDI) systems	5	108	1	4	104	
31. Expert systems	3	110	1	8	102	
32. Digital cartographic systems	7	106	1	1	105	
33. Videotext/teletext	3	111		2	109	
34. One-way cable television	9	105			105	
35. Interactive cable television	3	111		1	110	
36. Broadcast television	18	96			96	
37. Videotape	50	62	2	1	61	
38. Film	34	80		1	79	
39. Teleconferencing	37	77		2	75	
40. Videoconferencing	9	105		5	100	

With respect to the collection, filing, storage, printing, and dissemination of public information, which of the following information technologies is your agency (A) currently using, or (B) currently prototyping or pilot testing? (CHECK ONE BOX FOR EACH ROW UNDER COLUMN (A) "CURRENTLY IN OPERATIONAL USE." ALSO, CHECK ONE BOX FOR EACH ROW UNDER COLUMN (B) "CURRENTLY PROTOTYPING OR PILOT TESTING" FOR THOSE TECHNOLOGIES THAT ARE NOT CURRENTLY IN OPERATIONAL USE AT YOUR AGENCY.)

Department of Defense N=11	(A) CURRENTLY IN OPERATIONAL USE		NO RESPONSE	(B) CURRENTLY PROTOTYPING OR PILOT TESTING		NO RESPONSE
	YES (1)	NO (2)		YES (1)	NO (2)	
INFORMATION TECHNOLOGIES						
ELECTRONIC COLLECTION/FILING						
1. Computerized telephone calls	5	6			6	
2. Electronic mail	6	5		1	4	
3. Electronic data transfer (computer to computer)	8	3			3	
4. Magnetic tape/disk	9	2			2	
5. Floppy disk	9	2			2	
NON-PAPER STORAGE						
6. Micrographics (microfilm/microfiche)	9	2			2	
7. Magnetic tape/disk	10	1			1	
8. Floppy disk	10	1			1	
9. Videodisk	3	7	1		7	
10. Compact optical disk (Read-only-memory - CD-ROM)	2	9		1	8	
11. Compact optical disk (Interactive - CD-I)	1	10			10	
12. Optical disk (Write-once, read-many - WORM)	3	8			8	
13. Optical disk - Erasable	1	10		2	8	
PRINTING						
14. Computer-aided page make-up	7	4		2	2	
15. Computer graphics	10	1		1		
16. Electronic photocomposition	9	2			2	
17. Photo-offset printing	7	4			4	
18. Laser and other non-impact printing	10	1			1	
19. Microform printing	5	6			6	
20. Desktop publishing systems	4	7		3	4	
21. Electronic publishing systems	2	9		1	8	

(continued)

Department
of Defense
N=11

INFORMATION TECHNOLOGIES	(A) CURRENTLY IN OPERATIONAL USE	
	YES (1)	NO (2)
ELECTRONIC DISSEMINATION		
22. Electronic mail	6	5
23. Electronic bulletin board	5	6
24. Electronic data transfer (computer to computer)	6	5
25. Magnetic tape/disk	8	3
26. Floppy disk	8	3
27. Videodisk	1	10
28. Compact optical disk (Read-only-memory - CD-ROM)	1	10
29. Compact optical disk (Interactive - CD-I)		11
30. Selective Dissemination of Information (SDI) systems	1	10
31. Expert systems	2	9
32. Digital cartographic systems	1	10
33. Videotext/teletext	1	10
34. One-way cable television	3	8
35. Interactive cable television	1	10
36. Broadcast television	3	8
37. Videotape	7	4
38. Film	4	7
39. Teleconferencing	6	5
40. Videoconferencing	2	9

NO RESPONSE	(B) CURRENTLY PROTOTYPING OR PILOT TESTING	
	YES (1)	NO (2)
	1	4
	2	4
	1	4
		3
		3
	1	9
		10
	1	10
	1	9
	2	7
		10
		10
	1	7
		10
		8
		4
		7
		5
	1	8

NO
RESPONSE

With respect to the collection, filing, storage, printing, and dissemination of public information, which of the following information technologies is your agency (A) currently using, or (B) currently prototyping or pilot testing? (CHECK ONE BOX FOR EACH ROW UNDER COLUMN (A) "CURRENTLY IN OPERATIONAL USE." ALSO, CHECK ONE BOX FOR EACH ROW UNDER COLUMN (B) "CURRENTLY PROTOTYPING OR PILOT TESTING" FOR THOSE TECHNOLOGIES THAT ARE NOT CURRENTLY IN OPERATIONAL USE AT YOUR AGENCY.)

Agencies N=48	(A) CURRENTLY IN OPERATIONAL USE		NO RESPONSE	(B) CURRENTLY PROTOTYPING OR PILOT TESTING		NO RESPONSE
	YES (1)	NO (2)		YES (1)	NO (2)	
INFORMATION TECHNOLOGIES						
ELECTRONIC COLLECTION/FILING						
1. Computerized telephone calls	10	38		2	35	1
2. Electronic mail	23	25		3	22	
3. Electronic data transfer (computer to computer)	27	21		3	18	
4. Magnetic tape/disk	30	18			18	
5. Floppy disk	32	16		1	15	
NON-PAPER STORAGE						
6. Micrographics (microfilm/microfiche)	34	14		1	13	
7. Magnetic tape/disk	35	13			13	
8. Floppy disk	35	13			13	
9. Videodisk	3	45		2	43	
10. Compact optical disk (Read-only-memory - CD-ROM)	4	44		5	39	
11. Compact optical disk (Interactive - CD-I)	1	47		1	46	
12. Optical disk (Write-once, read-many - WORM)	2	46		5	41	
13. Optical disk - Erasable	1	47		1	46	
PRINTING						
14. Computer-aided page make-up	25	23		9	13	1
15. Computer graphics	28	20		8	12	
16. Electronic photocomposition	24	24		6	18	
17. Photo-offset printing	30	18			18	
18. Laser and other non-impact printing	39	9		5	4	
19. Microform printing	14	33	1	2	31	
20. Desktop publishing systems	14	33	1	15	18	
21. Electronic publishing systems	15	32	1	6	26	

(continued)

Agencies N=48	(A) CURRENTLY IN OPERATIONAL USE		NO RESPONSE	(B) CURRENTLY PROTOTYPING OR PILOT TESTING		NO RESPONSE
	YES (1)	NO (2)		YES (1)	NO (2)	
INFORMATION TECHNOLOGIES						
ELECTRONIC DISSEMINATION						
22. Electronic mail	19	29		4	25	
23. Electronic bulletin board	8	40		11	29	
24. Electronic data transfer (computer to computer)	25	23		3	20	
25. Magnetic tape/disk	29	19		1	18	
26. Floppy disk	28	20		3	17	
27. Videodisk	3	45		1	44	
28. Compact optical disk (Read-only-memory - CD-ROM)	1	47		5	42	
29. Compact optical disk (Interactive - CD-I)		48		1	47	
30. Selective Dissemination of Information (SDI) systems	4	44		1	43	
31. Expert systems	1	47		4	43	
32. Digital cartographic systems	1	47			47	
33. Videotext/teletext	3	45			45	
34. One-way cable television	5	43		1	42	
35. Interactive cable television	1	47			47	
36. Broadcast television	9	39			39	
37. Videotape	25	23		1	22	
38. Film	15	33			33	
39. Teleconferencing	16	32		1	31	
40. Videoconferencing	4	44		3	41	

RESEARCH AND EVALUATION STUDIES
OF INFORMATION TECHNOLOGIES

Departments and agencies were asked to check whether or not they had conducted research or evaluation studies for the information technologies listed.

For the following information technologies, has your department or agency conducted research or evaluation studies involving their actual or planned implementation within your agency? (CHECK ONE BOX IN EACH ROW.)

Civilian Cabinet-Level Department Subdivisions N=114	CONDUCTED RESEARCH OR EVALUATION STUDIES		NO RESPONSE
	YES (1)	NO (2)	
ELECTRONIC COLLECTION/FILING			
1. Computerized telephone calls	19	95	
2. Electronic mail	55	59	
3. Electronic data transfer (computer to computer)	62	52	
4. Magnetic tape/disk	52	62	
5. Floppy disk	60	54	
NON-PAPER STORAGE			
6. Micrographics (microfilm/microfiche)	47	67	
7. Magnetic tape/disk	52	62	
8. Floppy disk	59	55	
9. Videodisk	16	98	
10. Compact optical disk (Read-only-memory - CD-ROM)	25	89	
11. Compact optical disk (Interactive - CD-I)	9	105	
12. Optical disk (Write-once, read-many - WORM)	21	93	
13. Optical disk - Erasable	5	109	
PRINTING			
14. Computer-aided page make-up	49	65	
15. Computer graphics	60	54	
16. Electronic photocomposition	33	81	
17. Photo-offset printing	28	85	
18. Laser and other non-impact printing	62	52	
19. Microform printing	19	95	
20. Desktop publishing systems	53	61	
21. Electronic publishing systems	35	79	

1

(continued)

Civilian Cabinet-Level Department Subdivisions N=114	CONDUCTED RESEARCH OR EVALUATION STUDIES		NO RESPONSE
	INFORMATION TECHNOLOGIES	YES (1)	
ELECTRONIC DISSEMINATION			
22. Electronic mail		51	63
23. Electronic bulletin board		48	66
24. Electronic data transfer (computer to computer)		54	60
25. Magnetic tape/disk		48	66
26. Floppy disk		55	59
27. Videodisk		12	102
28. Compact optical disk (Read-only-memory - CD-ROM)		20	94
29. Compact optical disk (Interactive - CD-I)		6	108
30. Selective Dissemination of Information (SDI) systems		8	106
31. Expert systems		17	97
32. Digital cartographic systems		9	105
33. Videotext/teletext		5	109
34. One-way cable television		5	109
35. Interactive cable television		3	111
36. Broadcast television		8	106
37. Videotape		27	87
38. Film		15	99
39. Teleconferencing		28	86
40. Videoconferencing		15	99

For the following information technologies, has your department or agency conducted research or evaluation studies involving their actual or planned implementation within your agency? (CHECK ONE BOX IN EACH ROW.)

Department of Defense N=11	CONDUCTED RESEARCH OR EVALUATION STUDIES		NO RESPONSE
	YES (1)	NO (2)	
ELECTRONIC COLLECTION/FILING			
1. Computerized telephone calls	2	9	
2. Electronic mail	8	3	
3. Electronic data transfer (computer to computer)	9	2	
4. Magnetic tape/disk	6	5	
5. Floppy disk	7	4	
NON-PAPER STORAGE			
6. Micrographics (microfilm/microfiche)	8	3	
7. Magnetic tape/disk	7	4	
8. Floppy disk	8	3	
9. Videodisk	3	8	
10. Compact optical disk (Read-only-memory - CD-ROM)	6	5	
11. Compact optical disk (Interactive - CD-I)	5	6	
12. Optical disk (Write-once, read-many - WORM)	7	4	
13. Optical disk - Erasable	5	6	
PRINTING			
14. Computer-aided page make-up	6	5	
15. Computer graphics	7	4	
16. Electronic photocomposition	6	5	
17. Photo-offset printing	5	6	
18. Laser and other non-impact printing	6	5	
19. Microform printing	4	7	
20. Desktop publishing systems	7	4	
21. Electronic publishing systems	6	5	

(continued)

Department of Defense N=11	CONDUCTED RESEARCH OR EVALUATION STUDIES		NO RESPONSE
	YES (1)	NO (2)	
INFORMATION TECHNOLOGIES			
<u>ELECTRONIC DISSEMINATION</u>			
22. Electronic mail	7	4	
23. Electronic bulletin board	6	5	
24. Electronic data transfer (computer to computer)	7	4	
25. Magnetic tape/disk	6	5	
26. Floppy disk	7	4	
27. Videodisk	3	8	
28. Compact optical disk (Read-only-memory - CD-ROM)	4	7	
29. Compact optical disk (Interactive - CD-I)	4	7	
30. Selective Dissemination of Information (SDI) systems	4	7	
31. Expert systems	7	4	
32. Digital cartographic systems	2	9	
33. Videotext/teletext	2	9	
34. One-way cable television	1	10	
35. Interactive cable television		11	
36. Broadcast television	1	10	
37. Videotape	6	5	
38. Film	3	8	
39. Teleconferencing	5	6	
40. Videoconferencing	4	7	

For the following information technologies, has your department or agency conducted research or evaluation studies involving their actual or planned implementation within your agency? (CHECK ONE BOX IN EACH ROW.)

Agencies N=48	CONDUCTED RESEARCH OR EVALUATION STUDIES		NO RESPONSE
	YES (1)	NO (2)	
ELECTRONIC COLLECTION/FILING			
1. Computerized telephone calls	13	35	
2. Electronic mail	27	21	
3. Electronic data transfer (computer to computer)	29	19	
4. Magnetic tape/disk	24	24	
5. Floppy disk	20	28	
NON-PAPER STORAGE			
6. Micrographics (microfilm/microfiche)	26	22	
7. Magnetic tape/disk	25	23	
8. Floppy disk	25	23	
9. Videodisk	3	45	
10. Compact optical disk (Read-only-memory - CD-ROM)	12	36	
11. Compact optical disk (Interactive - CD-I)	6	42	
12. Optical disk (Write-once, read-many - WORM)	8	40	
13. Optical disk - Erasable	4	43	1
PRINTING			
14. Computer-aided page make-up	25	23	
15. Computer graphics	28	20	
16. Electronic photocomposition	22	26	
17. Photo-offset printing	20	28	
18. Laser and other non-impact printing	30	18	
19. Microform printing	13	35	
20. Desktop publishing systems	27	21	
21. Electronic publishing systems	20	28	

(continued)

Agencies N=48	CONDUCTED RESEARCH OR EVALUATION STUDIES		NO RESPONSE
	INFORMATION TECHNOLOGIES	YES (1)	
ELECTRONIC DISSEMINATION			
22. Electronic mail		24	24
23. Electronic bulletin board		20	28
24. Electronic data transfer (computer to computer)		25	23
25. Magnetic tape/disk		25	23
26. Floppy disk		24	24
27. Videodisk		4	44
28. Compact optical disk (Read-only-memory - CD-ROM)		6	42
29. Compact optical disk (Interactive - CD-I)		4	44
30. Selective Dissemination of Information (SDI) systems		5	43
31. Expert systems		5	43
32. Digital cartographic systems			48
33. Videotext/teletext		1	47
34. One-way cable television		3	45
35. Interactive cable television		3	45
36. Broadcast television		3	45
37. Videotape		13	35
38. Film		5	43
39. Teleconferencing		10	38
40. Videoconferencing		5	43

QUALITY, COST, AND TIMELINESS ASSESSMENTS

We asked departments and agencies to assess three aspects of producing information products--quality, cost, and timeliness--for formats available from their own agency, GPO, the National Technical Information Service of the Department of Commerce, the Consumer Information Center of the General Services Administration, depository libraries, and commercial vendors/contractors. They were asked to use a typical agency report as a base and assess each aspect on a 5-point scale. Quality was defined as "clarity, readability, and layout." Cost was as compared to the costs of similar dissemination services prevailing in the information industry.

The three groups' responses for quality are grouped together, followed by responses for cost and timeliness. Each summary shows the number in each group of respondents that use the service/format and the distribution of those users' responses on the 5-point scale.

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), how high or low would you rate the quality (i.e., clarity, readability, and layout) of each of the dissemination services and formats listed below? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Civilian Cabinet-Level Department Subdivisions N=114 DISSEMINATION SERVICES/ FORMATS	QUALITY OF THE SERVICE AND FORMAT						NO RESPONSE
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY HIGH (2)	HIGH (3)	MODERATE (4)	LOW (5)	VERY LOW (6)	
YOUR OWN AGENCY							
1. Paper	9	31	47	26			1
2. Microfiche	92	2	8	7	3	1	1
3. Electronic mail	85	2	13	10	3		1
4. Magnetic tape/disk	68	12	24	8	1		1
5. Floppy disk	76	7	20	9	1		1
GOVERNMENT PRINTING OFFICE							
1. Paper	40	15	41	14	1	1	2
2. Microfiche	104		5	4	1		
3. Electronic mail	113		1				
4. Magnetic tape/disk	112		1		1		
5. Floppy disk	111		1	2			
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)							
1. Paper	73	5	12	12	10	1	1
2. Microfiche	87		8	15	4		
3. Electronic mail	113		1				
4. Magnetic tape/disk	104		4	5			1
5. Floppy disk	106		5	2			1
CONSUMER INFORMATION CENTER							
1. Paper	94	9	10	1			
2. Microfiche	114						
3. Electronic mail	114						
4. Magnetic tape/disk	114						
5. Floppy disk	114						
DEPOSITORY LIBRARIES							
1. Paper	56	10	23	18		1	6
2. Microfiche	100	2	5	5		1	1
COMMERCIAL VENDORS/CONTRACTORS							
1. Paper	59	12	29	12	1		1
2. Microfiche	105	2	2	4		1	
3. Electronic mail	103	2	4	3		1	1
4. Magnetic tape/disk	96	4	6	7		1	
5. Floppy disk	102	2	4	4	1	1	

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), how high or low would you rate the quality (i.e., clarity, readability, and layout) of each of the dissemination services and formats listed below? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Department of Defense N=11 DISSEMINATION SERVICES/ FORMATS	QUALITY OF THE SERVICE AND FORMAT						NO RESPONSE
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY HIGH (2)	HIGH (3)	MODERATE (4)	LOW (5)	VERY LOW (6)	
YOUR OWN AGENCY							
1. Paper		4	6	1			
2. Microfiche	5	1	4	1			
3. Electronic mail	7		3	1			
4. Magnetic tape/disk	4	1	3	3			
5. Floppy disk	4	2	5				
GOVERNMENT PRINTING OFFICE							
1. Paper	2	3	6				
2. Microfiche	7		4				
3. Electronic mail	11						
4. Magnetic tape/disk	10		1				
5. Floppy disk	11						
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)							
1. Paper	3		4	2	2		
2. Microfiche	8		2		1		
3. Electronic mail	11						
4. Magnetic tape/disk	10			1			
5. Floppy disk	10		1				
CONSUMER INFORMATION CENTER							
1. Paper	10	1					
2. Microfiche	11						
3. Electronic mail	11						
4. Magnetic tape/disk	11						
5. Floppy disk	11						
DEPOSITORY LIBRARIES							
1. Paper	7	1	3				
2. Microfiche	8	1	1	1			
COMMERCIAL VENDORS/CONTRACTORS							
1. Paper	4	4	1	2			
2. Microfiche	8		1	2			
3. Electronic mail	10	1					
4. Magnetic tape/disk	10		1				
5. Floppy disk	10		1				

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), how high or low would you rate the quality (i.e., clarity, readability, and layout) of each of the dissemination services and formats listed below? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Agencies N=48	QUALITY OF THE SERVICE AND FORMAT						NO RESPONSE
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY HIGH (2)	HIGH (3)	MODERATE (4)	LOW (5)	VERY LOW (6)	
YOUR OWN AGENCY							
1. Paper		15	25	8			
2. Microfiche	30	1	6	10	1		
3. Electronic mail	35	3	6	3	1		
4. Magnetic tape/disk	29	7	8	3	1		
5. Floppy disk	34	3	10	1			
GOVERNMENT PRINTING OFFICE							
1. Paper	10	12	16	8	1	1	
2. Microfiche	39		2	5	2		
3. Electronic mail	48						
4. Magnetic tape/disk	47		1				
5. Floppy disk	48						
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)							
1. Paper	32	1	7	5	2	1	
2. Microfiche	38		5	3	1	1	
3. Electronic mail	48						
4. Magnetic tape/disk	45	1	2				
5. Floppy disk	48						
CONSUMER INFORMATION CENTER							
1. Paper	37	4	5	1		1	
2. Microfiche	47			1			
3. Electronic mail	48						
4. Magnetic tape/disk	47	1					
5. Floppy disk	48						
DEPOSITORY LIBRARIES							
1. Paper	19	9	12	6			2
2. Microfiche	35	1	3	7	1		1
COMMERCIAL VENDORS/CONTRACTORS							
1. Paper	19	11	12	6			
2. Microfiche	35	3	7	3			
3. Electronic mail	45	1	2				
4. Magnetic tape/disk	42	3	3				
5. Floppy disk	44	2	1	1			

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), how high or low would you describe the cost of each of the following dissemination services and formats as compared to the costs of similar dissemination services prevailing in the information industry? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Civilian Cabinet-Level Department Subdivisions N=114 DISSEMINATION SERVICES/ FORMATS	COST OF THE SERVICE AND FORMAT						NO RESPONSE
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY HIGH (2)	HIGH (3)	MODERATE (4)	LOW (5)	VERY LOW (6)	
YOUR OWN AGENCY							
1. Paper	9	2	16	66	14	6	1
2. Microfiche	91		1	16	3	1	2
3. Electronic mail	84		4	18	4	3	1
4. Magnetic tape/disk	67		4	28	10	3	2
5. Floppy disk	75		2	22	9	4	2
GOVERNMENT PRINTING OFFICE							
1. Paper	40	5	17	45	6		1
2. Microfiche	104		2	6	1	1	
3. Electronic mail	113			1			
4. Magnetic tape/disk	112		1				1
5. Floppy disk	111			3			
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)							
1. Paper	73	9	18	11	1	1	1
2. Microfiche	87	2	6	17	2		
3. Electronic mail	112		1	1			
4. Magnetic tape/disk	103		3	6	1		1
5. Floppy disk	106		2	5			1
CONSUMER INFORMATION CENTER							
1. Paper	94		3	13	1	3	
2. Microfiche	114						
3. Electronic mail	114						
4. Magnetic tape/disk	114						
5. Floppy disk	114						
DEPOSITORY LIBRARIES							
1. Paper	56	1	4	30	6	12	5
2. Microfiche	100			7	2	4	1
COMMERCIAL VENDORS/CONTRACTORS							
1. Paper	59		8	43	3		1
2. Microfiche	105		1	5	1	1	1
3. Electronic mail	103	1		7	2		1
4. Magnetic tape/disk	96	1	4	13			
5. Floppy disk	102	1	1	9	1		

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), how high or low would you describe the cost of each of the following dissemination services and formats as compared to the costs of similar dissemination services prevailing in the information industry? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Department of Defense N=11 DISSEMINATION SERVICES/ FORMATS	COST OF THE SERVICE AND FORMAT					
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY HIGH (2)	HIGH (3)	MODERATE (4)	LOW (5)	VERY LOW (6)
YOUR OWN AGENCY						
1. Paper			1	6	3	1
2. Microfiche	5			5	1	
3. Electronic mail	7		1	2	1	
4. Magnetic tape/disk	4			4	3	
5. Floppy disk	4			6	1	
GOVERNMENT PRINTING OFFICE						
1. Paper	2	2	2	4	1	
2. Microfiche	7	1	2	1		
3. Electronic mail	11					
4. Magnetic tape/disk	10		1			
5. Floppy disk	11					
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)						
1. Paper	3		1	5	1	1
2. Microfiche	8			2		1
3. Electronic mail	11					
4. Magnetic tape/disk	10			1		
5. Floppy disk	10					1
CONSUMER INFORMATION CENTER						
1. Paper	10					1
2. Microfiche	11					
3. Electronic mail	11					
4. Magnetic tape/disk	11					
5. Floppy disk	11					
DEPOSITORY LIBRARIES						
1. Paper	7		1	2		1
2. Microfiche	8		1		1	1
COMMERCIAL VENDORS/CONTRACTORS						
1. Paper	4	1	2	3		1
2. Microfiche	8		1	2		
3. Electronic mail	9		1	1		
4. Magnetic tape/disk	9		1	1		
5. Floppy disk	9		1	1		

NO RESPONSE

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), how high or low would you describe the cost of each of the following dissemination services and formats as compared to the costs of similar dissemination services prevailing in the information industry? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Agencies N=48 DISSEMINATION SERVICES/ FORMATS	COST OF THE SERVICE AND FORMAT						NO RESPONSE
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY HIGH (2)	HIGH (3)	MODERATE (4)	LOW (5)	VERY LOW (6)	
YOUR OWN AGENCY							
1. Paper			4	30	12	2	
2. Microfiche	31		1	9	6	1	
3. Electronic mail	35		1	8	4		
4. Magnetic tape/disk	31		1	12	4		
5. Floppy disk	35		2	8	3		
GOVERNMENT PRINTING OFFICE							
1. Paper	10	3	13	15	5	2	
2. Microfiche	40			6	1	1	
3. Electronic mail	48						
4. Magnetic tape/disk	48						
5. Floppy disk	48						
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)							
1. Paper	32	3	6	7			
2. Microfiche	38	1	3	5	1		
3. Electronic mail	48						
4. Magnetic tape/disk	45	1			2		
5. Floppy disk	48						
CONSUMER INFORMATION CENTER							
1. Paper	36		1	4	2	5	
2. Microfiche	47			1			
3. Electronic mail	48						
4. Magnetic tape/disk	48						
5. Floppy disk	48						
DEPOSITORY LIBRARIES							
1. Paper	18		2	13	6	7	
2. Microfiche	35		2	6		5	
COMMERCIAL VENDORS/CONTRACTORS							
1. Paper	20		4	20	3	1	
2. Microfiche	35	2	1	7	3		
3. Electronic mail	45		1	1	1		
4. Magnetic tape/disk	42		2	3	1		
5. Floppy disk	44		1	2	1		

2

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), to what extent, if at all, are the information products from the following dissemination services in the following formats provided in a timely manner to meet the needs of your agency? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Civilian Cabinet-Level Department Subdivisions N=114	TIMELINESS OF THE SERVICE AND FORMAT						NO RESPONSE
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY GREAT EXTENT (2)	GREAT EXTENT (3)	MODERATE EXTENT (4)	SOME EXTENT (5)	LITTLE OR NO EXTENT (6)	
DISSEMINATION SERVICES/ FORMATS							
YOUR OWN AGENCY							
1. Paper	9	29	47	24	3	1	1
2. Microfiche	92	2	10	7	1	1	1
3. Electronic mail	85	10	11	4	3	1	1
4. Magnetic tape/disk	68	12	19	9	3	2	1
5. Floppy disk	76	7	17	11	1	2	1
GOVERNMENT PRINTING OFFICE							
1. Paper	40	7	23	33	8	2	1
2. Microfiche	104	2	3	5			
3. Electronic mail	113	1					
4. Magnetic tape/disk	112	1				1	
5. Floppy disk	111	1	1	1			
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)							
1. Paper	73		9	23	4	4	1
2. Microfiche	87		5	17	2	3	
3. Electronic mail	113			1			
4. Magnetic tape/disk	104	1	2	5	1		1
5. Floppy disk	106		3	2	2		1
CONSUMER INFORMATION CENTER							
1. Paper	94	4	7	6	2		1
2. Microfiche	114						
3. Electronic mail	114						
4. Magnetic tape/disk	114						
5. Floppy disk	114						
DEPOSITORY LIBRARIES							
1. Paper	56	8	14	27	2	3	4
2. Microfiche	100	4	2	7			1
COMMERCIAL VENDORS/CONTRACTORS							
1. Paper	59	7	20	22	4	1	1
2. Microfiche	105	1	2	5		1	
3. Electronic mail	103	6	2	2		1	
4. Magnetic tape/disk	96	2	7	7	1	1	
5. Floppy disk	102		4	6	1	1	

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), to what extent, if at all, are the information products from the following dissemination services in the following formats provided in a timely manner to meet the needs of your agency? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Department of Defense N=11	TIMELINESS OF THE SERVICE AND FORMAT						NO RESPONSE
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY GREAT EXTENT (2)	GREAT EXTENT (3)	MODERATE EXTENT (4)	SOME EXTENT (5)	LITTLE OR NO EXTENT (6)	
DISSEMINATION SERVICES/ FORMATS							
YOUR OWN AGENCY							
1. Paper		4	3	3		1	
2. Microfiche	5	1	4	1			
3. Electronic mail	7	3		1			
4. Magnetic tape/disk	4	3	3	1			
5. Floppy disk	4	3	4				
GOVERNMENT PRINTING OFFICE							
1. Paper	2	2	4	3			
2. Microfiche	7	1	3				
3. Electronic mail	11						
4. Magnetic tape/disk	10		1				
5. Floppy disk	11						
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)							
1. Paper	3	1	1	4	1	1	
2. Microfiche	8		1	1		1	
3. Electronic mail	11						
4. Magnetic tape/disk	10				1		
5. Floppy disk	10					1	
CONSUMER INFORMATION CENTER							
1. Paper	10			1			
2. Microfiche	11						
3. Electronic mail	11						
4. Magnetic tape/disk	11						
5. Floppy disk	11						
DEPOSITORY LIBRARIES							
1. Paper	7		3	1			
2. Microfiche	8		3				
COMMERCIAL VENDORS/CONTRACTORS							
1. Paper	4		4	3			
2. Microfiche	8		2	1			
3. Electronic mail	9		2				
4. Magnetic tape/disk	9		1	1			
5. Floppy disk	9		1	1			

For typical agency reports (i.e., 50-100 pages, typeset, some graphics, specified deadline), to what extent, if at all, are the information products from the following dissemination services in the following formats provided in a timely manner to meet the needs of your agency? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE A FORMAT FROM A SPECIFIC SERVICE, CHECK BOX 1.)

Agencies N=48	TIMELINESS OF THE SERVICE AND FORMAT						NO RESPONSE
	DO NOT USE THIS SERVICE OR FORMAT (1)	VERY GREAT EXTENT (2)	GREAT EXTENT (3)	MODERATE EXTENT (4)	SOME EXTENT (5)	LITTLE OR NO EXTENT (6)	
DISSEMINATION SERVICES/ FORMATS							
YOUR OWN AGENCY							
1. Paper		22	20	6			
2. Microfiche	31	2	7	8			
3. Electronic mail	35	5	4	3	1		
4. Magnetic tape/disk	30	3	9	5	1		
5. Floppy disk	35	4	7	1	1		
GOVERNMENT PRINTING OFFICE							
1. Paper	10	6	11	16	4	1	
2. Microfiche	40		1	5	2		
3. Electronic mail	48						
4. Magnetic tape/disk	47		1				
5. Floppy disk	48						
NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)							
1. Paper	32		7	6	2	1	
2. Microfiche	38		5	3	2		
3. Electronic mail	48						
4. Magnetic tape/disk	45	1	2				
5. Floppy disk	48						
CONSUMER INFORMATION CENTER							
1. Paper	36	3	4	4		1	
2. Microfiche	47		1				
3. Electronic mail	48						
4. Magnetic tape/disk	48						
5. Floppy disk	48						
DEPOSITORY LIBRARIES							
1. Paper	18	3	9	8	7		3
2. Microfiche	35		3	6	3		1
COMMERCIAL VENDORS/CONTRACTORS							
1. Paper	19	8	13	7	1		
2. Microfiche	35	3	4	6			
3. Electronic mail	45	1	2				
4. Magnetic tape/disk	42	1	3	2			
5. Floppy disk	44	2	2				

ASSESSMENT OF GPO-PROVIDED PRODUCTS OR SERVICES

We also asked departments and agencies to assess GPO-provided products or services on a 5-point scale ranging from "Very Satisfied" through "Very Dissatisfied."

The results for the three groups show the number of respondents in each group that use GPO for a given product or service and, of those, the number that reported they are Very Satisfied, Satisfied, Neither Satisfied Nor Dissatisfied, Dissatisfied, and Very Dissatisfied.

Narrative comments were solicited for the Very Satisfied and Very Dissatisfied responses. They have been furnished to OTA.

How satisfied or dissatisfied are you with GPO's provision of the following information products or services? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE THIS PRODUCT OR SERVICE, CHECK BOX 1.)

GPO PROVIDED INFORMATION PRODUCTS OR SERVICES	DO NOT USE GPO FOR THIS INFORMATION PRODUCT OR SERVICE	VERY SATISFIED	SATISFIED	NEITHER SATISFIED NOR DISSAT- ISFIED	DISSAT- ISFIED	VERY DISSAT- ISFIED	NO RESPONSE
	(1)	(2)	(3)	(4)	(5)	(6)	
1. Publications layout	64	5	34	6	5		
2. Composition	48	8	45	7	3	2	1
3. Printing - Quality of printed reports	23	11	61	11	5	2	1
4. Printing - Timeliness of printed reports	23	7	53	16	12	2	1
5. Printing - Cost of printed reports	27	5	38	31	9	3	1
6. Binding	32	8	52	16	5		1
7. Cataloging	75	4	23	9	1		2
8. Marketing/sales	57	8	25	15	7	2	
9. Distribution	47	10	33	14	6	1	3
10. Depository library services	56	7	38	11	1		1

How satisfied or dissatisfied are you with GPO's provision of the following information products or services? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE THIS PRODUCT OR SERVICE, CHECK BOX 1.)

Department of Defense N=11	DO NOT USE GPO FOR THIS INFORMATION PRODUCT OR SERVICE (1)	VERY SATISFIED (2)	SATISFIED (3)	NEITHER SATISFIED NOR DISSAT- ISFIED (4)	DISSAT- ISFIED (5)	VERY DISSAT- ISFIED (6)
GPO PROVIDED INFORMATION PRODUCTS OR SERVICES						
1. Publications layout	3	3	4	1		
2. Composition	2	3	5	1		
3. Printing - Quality of printed reports		3	6	2		
4. Printing - Timeliness of printed reports	1		8	1	1	
5. Printing - Cost of printed reports			7	2		2
6. Binding	1	1	8	1		
7. Cataloging	5	1	5			
8. Marketing/ sales	4	3	4			
9. Distribution	3		7		1	
10. Depository library services	7		4			

NO
RESPONSE

How satisfied or dissatisfied are you with GPO's provision of the following information products or services? (CHECK ONE BOX IN EACH ROW. IF YOU DO NOT USE THIS PRODUCT OR SERVICE, CHECK BOX 1.)

Agencies N=48	DO NOT USE GPO FOR THIS INFORMATION PRODUCT OR SERVICE	VERY SATISFIED	SATISFIED	NEITHER SATISFIED NOR DISSAT- ISFIED	DISSAT- ISFIED	VERY DISSAT- ISFIED	NO RESPONSE
GPO PROVIDED INFORMATION PRODUCTS OR SERVICES	(1)	(2)	(3)	(4)	(5)	(6)	
1. Publications layout	21	4	17	4	2		
2. Composition	15	6	21	5	1		
3. Printing - Quality of printed reports	4	7	28	5	4		
4. Printing - Timeliness of printed reports	4	6	18	11	8	1	
5. Printing - Cost of printed reports	4	2	14	13	14	1	
6. Binding	5	5	25	11	1	1	
7. Cataloging	31	1	11	5			
8. Marketing/ sales	17	1	15	12	3		
9. Distribution	16	1	14	14	2	1	
10. Depository library services	18	1	17	10	2		

RESPONSIBILITIES, POLICIES AND
PROCEDURES, AND TECHNOLOGIES

We asked departments and agencies several questions about their statutory responsibilities, their information-related policies and procedures, and their electronic databases and bulletin boards. Here responses for all three groups are displayed on the same page. For this appendix we display, below each entry, the number of those responding that reported values greater than zero.

We also asked departments and agencies to provide copies of the relevant statutes and policies and procedures. These were furnished to OTA.

	Civilian Cabinet-level department subdivisions <u>N=114</u>	Department of Defense <u>N=11</u>	<u>Agencies</u> <u>N=48</u>
Does your agency have <u>statutory responsibility to provide free or low-cost public access to its electronic data bases?</u> (Check one)			
1. Yes, to provide free access	1	1	
2. Yes, to provide low-cost access (i.e., less than full cost of dissemination)	1		
3. Yes, either to provide free or low-cost access depending on the user or data base	6		4
4. No	106	10	44
Whether or not your agency has statutory responsibility to provide free or low-cost public access to its electronic data bases, does it have <u>documented policies or procedures to provide free or low-cost public access to these electronic data bases?</u> (Check one)			
1. Yes, to provide free access		2	
2. Yes, to provide low-cost access (i.e., less than full cost of dissemination)	1		2
3. Yes, either to provide free or low-cost access depending on the user or data base	10		3
4. No	103	9	43
Does your agency currently have documented policies or procedures which act to govern the electronic dissemination of electronic information by agency contractors? (Check one)			
1. Yes	9		3
2. No	49	4	20
3. Do not use contractors to disseminate public information	56	7	25

	<u>Civilian Cabinet-level department subdivisions</u> N=114	<u>Department of Defense</u> N=11	<u>Agencies</u> N=48
Does your agency have documented policies or procedures on the role of the private commercial sector in the development and marketing of your public information products and services? (Check one)			
<u>Development</u>			
1. Yes	6	1	7
2. No	44	4	21
3. Do not use commercial sector	63	6	20
No response	1		
<u>Marketing</u>			
1. Yes	5	1	5
2. No	40	4	23
3. Do not use commercial sector	68	6	20
No response	1		
Does your agency have documented policies or procedures on the applicability of the Freedom of Information Act to public information in electronic formats? (Check one)			
1. Yes	21	5	12
2. No	93	5	36
No response		1	
Does your agency have documented policies or procedures on the role of libraries (either federal, academic, special or public) as a channel for disseminating government information to the public? (Check one)			
1. Yes	13	2	6
2. No	101	8	42
No response		1	

	<u>Civilian Cabinet-level department subdivisions</u> N=114	<u>Department of Defense</u> N=11	<u>Agencies</u> N=48
How many <u>electronic</u> data bases containing <u>public</u> information does your agency maintain? (If none, enter zero.)	849 N=48	18,218 N=7	390 N=20
How many of these electronic data bases are available to the public from your agency, contractors, and/or commercial vendors? (If none, enter zero.)			
1. Your agency	505 N=34	18,100 N=3	367 N=13
2. Contractors	10 N=7	360 N=1	3 N=3
3. Commercial vendors	101 N=13	180 N=1	7 N=4
How many agency <u>electronic</u> bulletin boards containing <u>public</u> information does your agency maintain? (If none, enter zero.)	25 N=15	133 N=4	9 N=4
How many of these agency electronic bulletin boards are available to the public from your agency, contractors, and/or commercial vendors? (If none, enter zero.)			
1. Your agency	10 N=7	110 N=2	9 N=4
2. Contractors	5 N=5		
3. Commercial vendors	2 N=1		

BUDGETS/EXPENDITURES AND INFORMATION PRODUCTS

We asked departments and agencies to provide their total budgets and their expenditure levels for certain activities for fiscal years 1983 through 1986 and estimates for 1987 and 1988. They were also asked to provide information on the quantities of a variety of information products for fiscal years 1983 through 1987. For this appendix we display, below each entry, the number of those responding who reported amounts greater than zero. Information provided in this appendix should be used very cautiously since the totals may significantly understate, and could overstate, department and agency budgets, expenditures, and quantities of information products.

Our cover letter to senior IRM officials stressed that best estimates were adequate for the purposes of this survey. Nevertheless, in many cases no estimates were provided initially and in some cases none could be obtained through follow-up attempts. During our follow-up attempts, some department and agency contacts said that (1) their budgeting and accounting systems could not provide the data aggregated as we asked for it; (2) they believed some definitions were not specific enough to ensure that their response was what we were seeking; and (3) information was not available, particularly for the earlier years.

BUDGETS/EXPENDITURES FOR FISCAL YEARS 1983 THROUGH 1988

Please provide your agency's total budget. Then provide expenditure levels (i.e., total aggregated costs including personnel costs, administration costs, materials costs, etc.) for the following activities for fiscal years 1983 through 1986 and provide estimates for fiscal years 1987 and 1988. (ENTER AMOUNTS IN THOUSANDS OF DOLLARS. IF NONE, ENTER ZERO "00".)

ACTIVITIES BUDGET/EXPENDITURE FOR FISCAL YEARS... (IN THOUSANDS OF DOLLARS)

Civilian Cabinet-Level
Department Subdivisions
N=114

	1983	1984	1985	1986	1987 (EST)	1988 (EST)
--	------	------	------	------	------------	------------

1. TOTAL AGENCY BUDGET

● 81,755,086.	● 174,246,993.	● 195,443,724.	● 184,154,513.	● 186,162,248.	● 200,339,188.
N = 102	N = 103	N = 106	N = 107	N = 110	N = 106

2. Research, development, and pilot testing for:

a. Optical disk systems for information storage, retrieval & dissemination

● 2,581	● 8,579	● 16,324	● 24,857	● 35,079	● 48,817
N = 3	N = 3	N = 5	N = 6	N = 10	N = 11

b. Electronic publishing systems

● 166	● 417	● 838	● 1,286	● 2,213	● 14,904
N = 2	N = 3	N = 3	N = 8	N = 11	N = 15

c. Artificial intelligence/expert systems for information retrieval and dissemination

● 16	● 71	● 312	● 413	● 553	● 654
N = 1	N = 1	N = 3	N = 4	N = 7	N = 7

3. Printing and publishing

● 369,655	● 390,324	● 413,016	● 408,971	● 459,516	● 464,724
N = 95	N = 100	N = 103	N = 103	N = 106	N = 101

4. Agency Library Operations:

In-house

● 43,402	● 47,956	● 49,229	● 48,374	● 52,011	● 55,793
N = 27	N = 27	N = 27	N = 29	N = 28	N = 28

Contract

● 3,982	● 9,557	● 9,843	● 10,431	● 12,876	● 13,660
N = 10	N = 20	N = 22	N = 23	N = 23	N = 23

5. Agency Information clearinghouse operations:

In-house

● 11,552	● 12,748	● 13,240	● 12,267	● 12,307	● 13,056
N = 17	N = 18				

Contract

● 1,441,368	● 1,139,663	● 1,090,111	● 537,283	● 1,654,840	● 881,604
N = 8	N = 9	N = 11	N = 12	N = 12	N = 12

(continued)

Please provide the following information concerning the information products listed below for fiscal years 1983 through 1986 and provide an estimate for fiscal year 1987. (IF NONE, ENTER ZERO "0".)

FISCAL YEARS	PRODUCTS				
	1983	1984	1985	1986	1987 (EST)
	1. PUBLICATIONS PRINTED Civilian Cabinet-Level Department Subdivisions N=114				
a. Number of titles	60,234	62,039	58,755	53,425	54,442
b. Number of pages	4,188,156	4,137,050	3,997,623	3,604,282	3,709,580
	N = 81	N = 84	N = 84	N = 91	N = 93
	N = 77	N = 81	N = 81	N = 87	N = 89
	2. PRINTED PUBLICATIONS ACCEPTED INTO GPO'S SALES PROGRAM				
a. Number of titles	3,610	2,027	3,521	2,678	2,774
b. Number of pages	434,575	443,296	322,718	258,093	276,866
	N = 44	N = 46	N = 47	N = 48	N = 48
	3. PRINTED PUBLICATIONS INCLUDED IN FEDERAL DEPOSITORY LIBRARY PROGRAM				
a. Number of titles	38,076	40,869	37,037	35,345	36,543
b. Number of pages	7,120,922	7,327,178	7,601,806	6,876,121	7,722,655
	N = 41	N = 43	N = 44	N = 44	N = 44
	N = 39	N = 41	N = 41	N = 41	N = 41
	4. INFORMATION PRODUCTS DISSEMINATED ELECTRONICALLY				
a. Number of titles	1,461	1,993	5,379	5,769	6,261
b. Number of pages	1,461	1,993	5,379	5,769	6,261
	N = 16	N = 17	N = 23	N = 26	N = 26

BUDGETS/EXPENDITURES FOR FISCAL YEARS 1983 THROUGH 1988

Please provide your agency's total budget. Then provide expenditure levels (i.e., total aggregated costs including personnel costs, administration costs, materials costs, etc.) for the following activities for fiscal years 1983 through 1986 and provide estimates for fiscal years 1987 and 1988. (ENTER AMOUNTS IN THOUSANDS OF DOLLARS. IF NONE, ENTER ZERO "0".)

ACTIVITIES BUDGET/EXPENDITURE FOR FISCAL YEARS... (IN THOUSANDS OF DOLLARS)

Department of Defense N=11	1983	1984	1985	1986	1987 (EST)	1988 (EST)
1. TOTAL AGENCY BUDGET	\$171,920,503	\$180,347,022	\$202,780,054	\$201,608,881	\$203,977,495	\$216,617,092
2. Research, development, and pilot testing for:						
a. Optical disk systems for information storage, retrieval & dissemination	\$500	\$500	\$500	\$1,000	\$1,500	\$1,500
b. Electronic publishing systems	\$100	\$100	\$100	\$500	\$520	\$510
c. Artificial intelligence/expert systems for information retrieval and dissemination	\$620	\$1,100	\$1,400	\$2,200	\$2,600	\$2,605
3. Printing and publishing	\$433,834	\$467,946	\$627,039	\$466,486	\$504,869	\$509,208
4. Agency Library Operations:						
In-house	\$79,022	\$79,735	\$81,182	\$93,516	\$96,588	\$101,785
Contract	\$1,101	\$1,179	\$1,410	\$1,745	\$1,828	\$1,717
5. Agency Information Clearinghouse operations:						
In-house	\$50	\$50	\$200	\$236	\$241	\$246
Contract	\$0	\$0	\$0	\$0	\$0	\$0

(continued)

INFORMATION PRODUCTS

Please provide the following information concerning the information products listed below for fiscal years 1983 through 1986 and provide an estimate for fiscal year 1987. (IF NONE, ENTER ZERO "0".)

PRODUCTS Department of Defense N=11	FISCAL YEARS					
	1983	1984	1985	1986	1987 (EST)	
1. PUBLICATIONS PRINTED	a. Number of titles	339,324	340,168	326,616	326,079	334,057
	b. Number of pages	93,444,848 N = 7	93,568,408 N = 7	90,261,365 N = 8	90,285,757 N = 8	92,929,461 N = 8
2. PRINTED PUBLICATIONS ACCEPTED INTO GPO'S SALES PROGRAM	a. Number of titles	323	313	288	293	295
	b. Number of pages	79,595	77,394	70,316	70,962	71,586
3. PRINTED PUBLICATIONS INCLUDED IN FEDERAL DEPOSITORY LIBRARY PROGRAM	a. Number of titles	762	704	845	716	776
	b. Number of pages	111,124	97,880	132,598	100,848	110,540
4. INFORMATION PRODUCTS DISSEMINATED ELECTRONICALLY	a. Number of titles	104	154	205	282	307
	b. Number of pages	104	154	205	282	307

Please provide your agency's total budget. Then provide expenditure levels (i.e., total aggregated costs including personnel costs, administration costs, materials costs, etc.) for the following activities for fiscal years 1983 through 1986 and provide estimates for fiscal years 1987 and 1988. (ENTER AMOUNTS IN THOUSANDS OF DOLLARS. IF NONE, ENTER ZERO "0".)

ACTIVITIES	1983	1984	1985	1986	1987 (EST)	1988 (EST)
1. TOTAL AGENCY BUDGET	\$39,616,821	\$42,013,757	\$44,345,236	\$42,862,657	\$45,239,783	\$47,660,098
2. Research, development, and pilot testing for:	N = 47					
a. Optical disk systems for information storage, retrieval & dissemination	\$1,010	\$2,709	\$7,874	\$9,512	\$8,041	\$23,085
N = 1	N = 2	N = 2	N = 5	N = 7	N = 7	N = 7
b. Electronic publishing systems	0	0	80	86	219	534
N = 0	N = 0	N = 1	N = 3	N = 6	N = 6	N = 6
c. Artificial intelligence/expert systems for information retrieval and dissemination	0	0	0	12	24	62
N = 0	N = 0	N = 0	N = 1	N = 2	N = 2	N = 2
3. Printing and publishing	\$69,543	\$76,061	\$74,590	\$74,348	\$103,630	\$110,699
N = 45	N = 46	N = 47				
4. Agency Library Operations:						
In-house	\$113,444	\$116,974	\$88,696	\$97,181	\$104,280	\$92,127
N = 31	N = 34	N = 34	N = 36	N = 37	N = 36	N = 36
Contract	\$2,790	\$3,474	\$4,726	\$4,213	\$4,849	\$10,020
N = 10	N = 13	N = 15	N = 17	N = 16	N = 17	N = 17
5. Agency Information Clearinghouse Operations:						
In-house	\$1,798	\$1,839	\$1,908	\$1,588	\$1,758	\$1,811
N = 8	N = 8	N = 8	N = 8	N = 8	N = 8	N = 8
Contract	\$5,467	\$8,828	\$5,916	\$8,882	\$6,606	\$5,357
N = 6	N = 6	N = 6	N = 6	N = 6	N = 6	N = 6

(continued)

Please provide the following information concerning the information products listed below for fiscal years 1983 through 1986 and provide an estimate for fiscal year 1987. (IF NONE, ENTER ZERO "0".)

INFORMATION PRODUCTS	FISCAL YEARS					
	Agencies N=48	1983	1984	1985	1986	1987 (EST)
1. PUBLICATIONS PRINTED						
a. Number of titles	28,600	28,817	22,235	21,492	20,458	
b. Number of pages	627,367	514,033	563,087	529,138	545,579	
	N = 43	N = 43	N = 44	N = 44	N = 44	
2. PRINTED PUBLICATIONS ACCEPTED INTO GPO'S SALES PROGRAM						
a. Number of titles	1,172	889	911	917	897	
b. Number of pages	181,587	176,636	116,730	97,302	105,194	
	N = 26	N = 28	N = 26	N = 25	N = 28	
3. PRINTED PUBLICATIONS INCLUDED IN FEDERAL DEPOSITORY LIBRARY PROGRAM						
a. Number of titles	2,703	2,631	2,586	3,397	3,590	
b. Number of pages	266,629	252,559	253,397	235,771	259,339	
	N = 24	N = 24	N = 24	N = 25	N = 25	
4. INFORMATION PRODUCTS DISSEMINATED ELECTRONICALLY						
a. Number of titles	1,001	1,506	1,511	1,514	1,521	
b. Number of pages						
	N = 2	N = 3	N = 3	N = 4	N = 5	

GLOSSARY

- Access to Information - The process by which users obtain public information; accessibility implies that the information is identified and made known to the public, and that the information can be obtained in a convenient format, in understandable language, and in a time frame whereby the information is current and has utility.
- Artificial Intelligence - See Expert Systems
- Compact Optical Disk - A digital optical disk, encoded, sized, and mastered according to standards in use for consumer digital audio systems. There are two basic types of compact disks:
 (1) CD-ROM - Read-only-memory
 (2) CD-I - Interactive
- Composition - The arrangement of type for printing; or the production of type or typographic characters arranged for printing.
- Computer-Aided Page Makeup - The use of computers to automate the formation of text and graphics into discrete pages.
- Computer Graphics - The use of computers to generate, manipulate, and display pictorial images.
- Computerized Telephone Calls - Telephones using an automatic calling unit (auto dialer) which permits automatic dialing of calls via the telephone network.
- Desktop Publishing - Basic composition of camera-ready copy by end users rather than professional photocompositors.
- Dissemination - See Information Dissemination
- Electronic Bulletin Board - A computerized message system that generally can be used to post messages or read those left by others. Computer users gain access by means of a modem and common telephone communication lines.
- Electronic Collection or Dissemination of Information - Information collected from or disseminated to the public through electronic media (e.g., magnetic tape, floppy disk, CD-ROM, on-line computer based systems, telecommunications, etc.).
- Electronic Data Base - A store of data on continuously updated files which can be made accessible to a computer.
- Electronic Data Transfer - The transfer of data signals between interconnected computers or terminal devices.
- Electronic Mail - A computerized message system that can be used to send and receive messages in electronic form via remote computer terminals.

(continued)

- Electronic Photocomposition - The preparation of copy for printing by using a computer to generate digitized characters which are photographically recorded on light sensitive paper or film.
- Electronic Publishing - Electronic storage, retrieval, and transmission of digitized text and graphics which allows (1) on-demand printing of publications or portions of publications, and (2) printing at remote, decentralized locations.
- Expert Systems - A particular development of artificial intelligence. It combines the computer's ability to store specialized knowledge with its ability to mimic the reasoning process of a human expert (e.g., in interrogating patients for medical diagnosis).
- Government Publication - A publication, document, form, microform or other similar matter which is reproduced by printing or other means for a government agency and for the official use of a government entity.
- Information - The content or symbolic substance of a communication, i.e., knowledge or intelligence, such as facts, data, or opinions, including numerical, graphic or narrative forms, regardless of mode or medium by which it is maintained or communicated.
- Information Dissemination - Distributing information to the public in whatever medium or format it may be available, without the necessity for the users to seek access for each such distribution.
- Information Product - A discrete package of information, developed prior to specific needs for it (except, perhaps the first need), usually with expectation of providing it to a number of users without modification.
- Information Resources - Both the information itself, and the related resources and facilities (e.g., personnel, equipment, funds, and technology) for accessing and processing the information.
- Information Service - Means for storing, accessing, processing, or delivering information to meet the needs of specific users when they request it.
- Interactive Cable TV - A system in which television signals are generally carried one-way directly from the distributing office to the subscriber's receiving set via coaxial cable. Interactive cable is a two way link allowing the subscriber to respond to signals along the cable. These signals can be fed into a computer, providing a wide range of new information services.
- Laser Printing - A form of electrographic printing whereby digital information is fed to a laser which creates a dot-matrix image, either directly on photo-sensitive paper, or indirectly on a photo-receptor device which transfers the image onto paper.
- Microform Printing - More appropriately referred to as computer output microform (COM). Instead of producing paper output, COM systems reduce the same information to microform or microfilm.
- Micrographics - The technique of photographically reducing document pages to microform (microfilm or microfiche).

(continued)

- Non-impact Printing - Includes laser, ink-jet, and deposition printing.
(See also Laser Printing)
- Off-line Electronic Media - Storage media not under control of a computer's central processor, (e.g., magnetic tape, floppy disk, cassette, videodisk, optical disk, etc.).
- On-line Electronic Media - Storage media under continual control of a computer; or connected to a computer by a communications link and accessible via a terminal.
- Optical Disk - A non-contact, random access plastic disk tracked by optical laser beams, used for mass storage and retrieval of digitized text and graphics. Two heavily used types are:
(1) WORM - Write-once, read-many
(2) ERASABLE

(See also Compact Optical Disk)
- Printing-On-Demand Systems - See Electronic Publishing
- Private Sector - Includes private enterprise, for profit, and non-profit, as well as professional and trade associations, joint government/private enterprises, and privately supported organizations such as libraries and universities.
- Public Information - That portion of government information that is not personal, proprietary, classified, or otherwise subject to Freedom of Information Act exemptions.
- Publication - See Government Publication
- Publications layout - The plan, design, or arrangement of matter to be reproduced by various printing or reproduction methods.
- Telecommunications - The preparation, transmission, communication or related processing of information by electrical, electromagnetic, electromechanical, or electro-optical means.
- Teleconferencing - Generally any conferencing system employing telecommunications links.
- Selective Dissemination of Information (SDI) - A general term for providing a current awareness service based on a bibliographic database. The subscriber's subject interest "profile" is periodically matched against the updated database. Records matching the subscribers' interests are printed and sent to them.
- Videoconferencing - A form of teleconferencing where participants see as well as hear other participants at remote locations.
- Videodisk - A transparent or reflective disk developed to record or playback television signals, but having the capacity to store and randomly access enormous amounts of digital data. There are two types:
(1) capacitance electronic disks in which a stylus rides on the disk, and (2) optical encoded disks which use a laser beam to detect coded signals.

DEPARTMENTS AND AGENCIES REPRESENTED BY
QUESTIONNAIRE RESPONDENTS

<u>Department</u>	<u>Number of Responses</u>
Department of Agriculture	21
Department of Commerce	11
Department of Defense	11
Department of Education	13
Department of Energy	1
Department of Health and Human Services	5
Department of Housing and Urban Development	9
Department of the Interior	10
Department of Justice	7
Department of Labor	5
Department of State	15
Department of Transportation	6
Department of the Treasury	11
<u>Agency</u> (One response per agency)	
ACTION	
Agency for International Development	
Commission on Civil Rights	
Congressional Budget Office	
Consumer Product Safety Commission	
Environmental Protection Agency	

Agency (continued)

Equal Employment Opportunity Commission
Export-Import Bank of the United States
Farm Credit Administration
Federal Communications Commission
Federal Deposit Insurance Corporation
Federal Election Commission
Federal Emergency Management Agency
Federal Energy Regulatory Commission
Federal Labor Relations Authority
Federal Maritime Commission
Federal Mediation and Conciliation Service
Federal Reserve Board
Federal Trade Commission
Foreign Claims Settlement Commission
General Accounting Office
General Services Administration
Interstate Commerce Commission
Library of Congress
Merit Systems Protection Board
National Archives and Records Administration

Agency (continued)

National Commission on Libraries and Information Science

National Credit Union Administration

National Endowment for the Arts

National Endowment for the Humanities

National Labor Relations Board

National Mediation Board

National Science Foundation

National Transportation Safety Board

Nuclear Regulatory Commission

Office of Management and Budget

Office of Personnel Management

Office of Technology Assessment

Peace Corps

Pension Benefit Guaranty Corporation

Railroad Retirement Board

Securities and Exchange Commission

Selective Service System

Small Business Administration

United States Arms Control and Disarmament Agency

United States Information Agency

Agency (continued)

United States International Trade Commission

Veterans Administration

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