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KSU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

JULY 1, 1980 - JUNE 30, 1981

Cherie Geiser
Coordinator
KSU Postharvest Documentation Service
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Room 411, Farrell Library
Manhattan, Kansas 66506
U.S.A.

KSU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

July 1, 1980 - June 30, 1981

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KSU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

PART I: ANNUAL REPORT

July 1, 1980 - June 30, 1981

PHDS Overview: 1978-1981

The Postharvest Documentation Service (PHDS) has been operational for three years and is definitely accomplishing its' prime objective of providing information to developing countries on postharvest cereal grains and legumes systems. PHDS currently serves over 200 international clientele and has more than doubled its' information output each operating year. (See Figure 1)

Figure 1

<u>Year</u>	<u>Document Requests</u>	<u>Search Requests</u>
1979	181	5
1980	563	28
1981	1,240	75

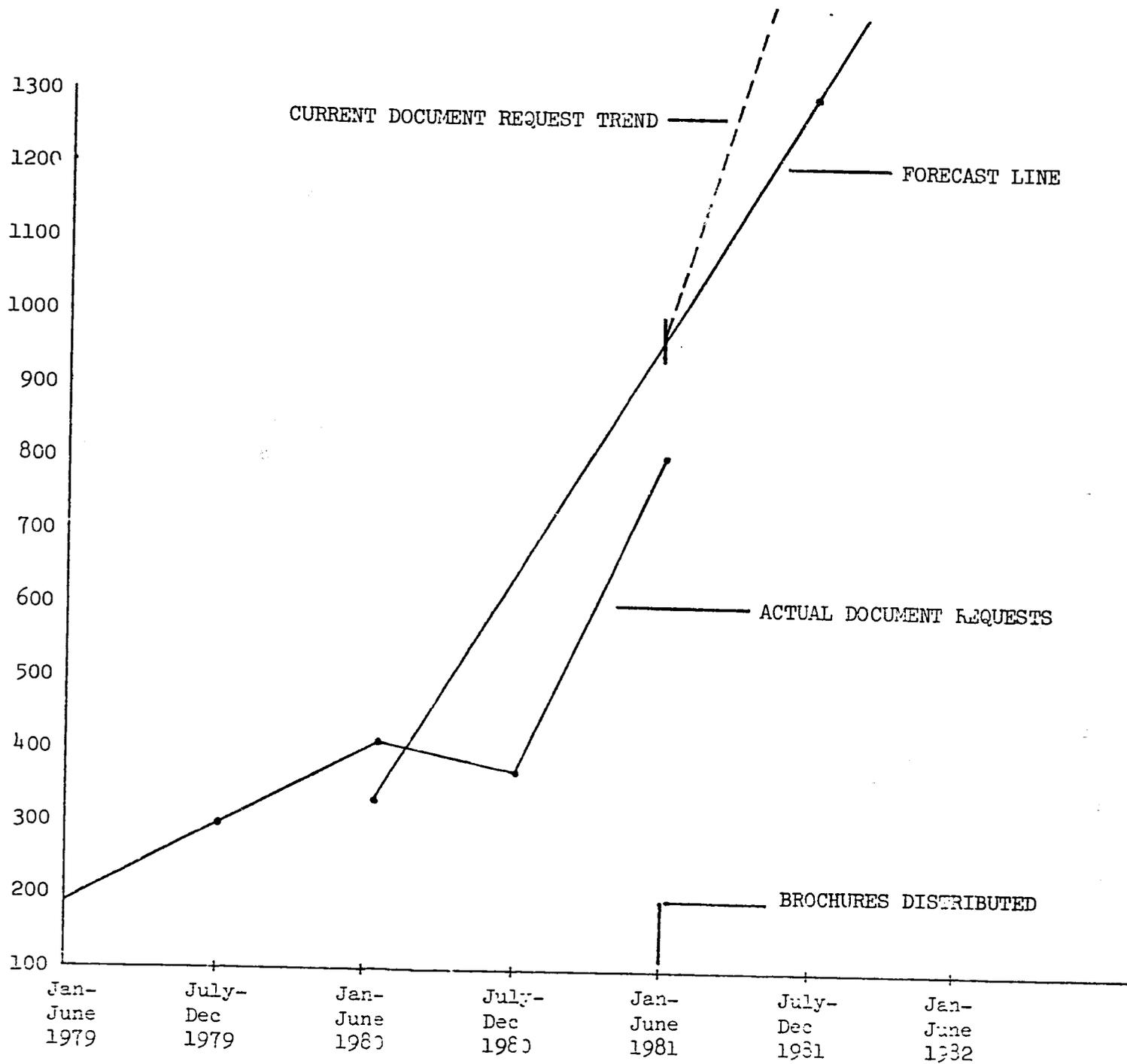
As anticipated in the PHDS project proposal, 1978-1979 was spent developing a computerized storage and retrieval system for postharvest documents. Equipment was purchased, work procedures were developed and client service policies were established. Information requests processed during this period were primarily for Food and Feed Grain Institute (FFGI) staff members.

Emphasis in 1979-1980 was placed on advertising PHDS services and building PHDS clientele. This was accomplished through the use of brochures, news articles, presentations, cooperative agreements and conferences. As a result of these efforts, information requests doubled from the previous year and included many more overseas requests.

Advertising efforts continued in 1980-1981 culminating in the wide distribution of a professionally printed brochure (as opposed to xeroxed versions sent out in previous years) to over 2,000 individuals worldwide. (See Part IV for distribution statistics of brochures mailed directly by PHDS. 1,500 brochures were given to U.S.A.I.D. for their distribution.) News articles appeared in the Quarterly Bulletin of the International Association of Agricultural Librarians and Documentalists, SEARCA's (Southeast Asia Cooperative Postharvest Research and Development Programme) Postharvest Quarterly and the GASGA (Group for Assistance on Systems Relating Grain After Harvest) Newsletter. A technical assistance trip to the Philippines and Thailand greatly promoted PHDS' informational services in that region. This year's "Grain Storage and Marketing Short Course" participants utilized PHDS much more effectively as a result of a scheduled lecture on PHDS services. The majority of the participants became PHDS clients upon returning to their home countries.

All of these activities increased the number of PHDS clientele and created more information requests. In fact, it is forecast that PHDS will once again double its' document requests in 1981-1982 resulting in an output of approximately 2,500 documents. (See Figure 2)

Figure 2



With this tremendous increase in informational requests, PHDS can no longer expect to operate with the same staff, facilities and budget that it did in 1978. The following indicates changes that need to be made in these areas in order for PHDS to continue efficient response to postharvest information requests worldwide.

Staff Additions: 1981-1982

Throughout the past year, it has become increasingly evident that more permanent staff needs to be added to PHDS in order to service client requests at the current and forecast levels; to increase the document collection at a minimum of 100 documents per month; and to continue expanding PHDS clientele.

By the end of 1981, PHDS student assistants were hard-pressed to keep up with the ever-increasing document requests and PHDS administration had fallen 260 documents short of their projected goal of 3,000 documents entered in the system. The increased work load, which resulted in backlog problems, was largely a result of the successful distribution of PHDS brochures last February. (See Figure 2) In addition, clerical tasks piled up whenever students went on vacation, studied for major exams or were sick. This often resulted in administrators taking time from abstracting/indexing duties to work on clerical activities.

Since clerical tasks will increase proportionately with information requests, there is an obvious need to add more clerical personnel if next year's client requests are to be handled efficiently. It is strongly suggested that a full-time clerk/typist be hired, rather than additional student assistants, because work attendance would be more consistent. If more clerical help is not added next year, it can be expected that PHDS' document growth will be severely stunted as administrators spend more of their time performing clerical tasks.

Facilities Expansion: 1981-1982

Expansion is necessary in two areas of PHDS' present facilities if the Documentation Service expects to maintain current activity levels and, more to the point, keep up with future activity levels: (1) office space and (2) office equipment.

Additional office space for PHDS is already part of a proposed reorganization plan for Farrell Library which should go into effect sometime in 1981-1982. This plan allocates two small offices, one large workroom and one small storage room for Documentation Service use. The entire space is more than double the space PHDS currently occupies and will be an adequate solution to office space problems.

The priority item in the area of office equipment is the immediate need to lease or purchase a two-sided "book" copier. It is becoming increasingly difficult to process 200+ document requests per month when there is only one copier in Farrell Library suitable for our purposes. When this copier breaks down or others are heavily using it, our document requests quickly stack up. The copier would also be used for xeroxing new items for the database, copying automated search bibliographies and acting as a backup copier for the Food and Feed Grain Institute.

If permission is granted for PHDS to obtain a copier, there is a strong possibility that Farrell Library would share the expense. Without the use of its' own copying machine, PHDS will not be able to respond as quickly to next year's information requests.

Other office equipment needed in 1981-1982 will depend on the increase in PHDS

office space. If the move is made to larger quarters, another five-drawer filing cabinet and several sections of book shelves will be needed. These expenditures, along with the copier, are outlined in Part III: Projected Budget for 1981-1982.

Budget Increases: 1981-1982

Since it is anticipated that informational activities will double next year, the PHDS budget must increase to meet this new demand. The largest increases need to occur in the following areas: staff salaries, xeroxing, postage and office equipment. See Part III: Projected Budget for 1981-1982 for proposed costs in these areas.

Conclusion

In three years, the Postharvest Documentation Service has developed into a reliable, inexpensive and quick source of postharvest information for developing country researchers. It is one of the few information services available to this clientele that offers both bibliographies as well as copies of the publications listed within the bibliographies. PHDS is becoming more widely known each day as evidenced by an ever-increasing number of inquiries about PHDS services. A large amount of time and effort has been spent in advertising PHDS. It would be unfortunate to institute informational service cutbacks now that PHDS is finally established as a postharvest information center. However, severe cutbacks will have to be made if the proposed changes in staff, facilities and budget are not initiated.

Suggested cutbacks that may be utilized, if necessary, are as follows: 1. Refuse to accept new clientele. 2. Reduce the number of document copies allotted to each client per month by half. (20 documents to 10 documents) 3. Reduce the number of automated search requests allotted to each client per month by half. (2 searches to 1 search) Changing our PHDS policy to fit these criteria would not, in my opinion, be a good idea. It would most likely destroy any rapport previously established with clientele and would definitely defeat our purpose of assisting developing countries improve their postharvest systems technology.

The Postharvest Documentation Service has proven that it is a needed information service and should be given the support it requires to maintain and expand its' operation.

Client Comments on PHDS Services

"Let me once again thank you for this excellent facility. It perhaps is the best aid we have received from the developed countries."

--Satish Bal, Postharvest Technology Centre, Kharagpur, INDIA

"The aforementioned listings and abstracts are of immense value in our cooperative effort at the Southern Mindanao Agricultural Research Center (SMARC) to attempt solutions to the postharvest problems in our region."

--Rommel G. Tangonan, SMARC, Kabacan, PHILIPPINES

"I have gone through the Semiannual Documentation List in our library. I am very much impressed the way your documentation is serving the scientific community."

--R.T. Patil, Central Plantation Crops Research Institute, Kerala, INDIA

KSU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

PART II: EXPENDITURES/REVENUES

July 1, 1980 - June 30, 1981

<u>Item</u>	<u>Expenditure</u>	<u>Revenue</u>
Salaries		
Service Coordinator	\$15,286.88	
Research Assistant	\$ 1,544.40	
Student Assistants	\$ 6,508.87	
Data Processing	\$ 8,067.85	
Microfilming/Xeroxing ++	\$ 692.97	
Acquisitions	\$ 850.57	
Postage	\$ 1,077.30	
Printing	\$ 626.69	
Office Supplies	\$ 216.12	
Travel	\$ 3,660.29	
Miscellaneous	\$ 73.00	
Acquisition List Subscriptions		
Developing Nations	** \$ 2,808.00	
Developed Nations		\$ 163.00
Automated Search Requests		
Developing Nations	** \$ 306.14	
Developed Nations		\$ 20.10
Document Requests		
Developing Nations	** \$ 1,890.00	
Developed Nations		\$ 30.82
TOTAL:	\$38,604.94	\$ 213.92

BUDGET (1980-1981) - (EXPENDITURES - REVENUES) = OVER/UNDER BUDGET

\$35,000 - (\$38,604.94 - \$213.92) = \$3,391.02

**These Costs Are Included in the Above Items and Are Not Added Into the Expenditure Total.

++All xeroxing costs were absorbed by KSU university funds.

KISU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

PART III: PROJECTED BUDGET

July 1, 1981 - June 30, 1982

<u>Item</u>	<u>Budgeted Amount</u>
Salaries	
¹ Service Coordinator - 1	\$19,450.00
¹ Research Assistant - 1/2	\$ 7,116.00
² Student Assistants - 3	\$ 5,482.00
Data Processing	\$10,500.00
Microfilming	\$ 500.00
³ Xeroxing	\$ 6,000.00
Acquisitions	\$ 1,000.00
⁴ Postage	\$ 7,200.00
Printing	\$ 500.00
Office Supplies	\$ 300.00
TOTAL:	\$58,048.00
⁵ Capital Equipment	
Xerox 4500 Copier	\$16,625.00

NOTE: Costs for the following PHDS Services are included in the above budget: Acquisition List Subscriptions, Automated Search Requests, Document Requests.

¹Base Salary + Fringe Benefits @ 18.6%

²30hr./week X \$3.50/hr. X 52 weeks

³\$500/month for Acquisition Lists. These lists currently cost \$350/month. This does not include Document Request copying costs which are currently absorbed by Farrell Library and the Grain Science Department.

⁴\$600/month. Current costs are: July '81: \$800; August '81: \$400; September '81: \$400.

⁵Purchase dependent on available funding.

KSU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

PART IV: DISTRIBUTION OF BROCHURES

January - June, 1981

<u>COUNTRY</u>	<u>#</u>	<u>COUNTRY</u>	<u>#</u>	<u>COUNTRY</u>	<u>#</u>
Afghanistan	2	Honduras	7	Sudan	6
Algeria	1	India	32	Swaziland	2
Argentina	4	Indonesia	7	Tanzania	14
Bangladesh	10	Israel	3	Thailand	7
Bangui	1	Ivory Coast	2	Togo	3
Barbados	3	Jamaica	7	Trinidad	3
Belize	2	Japan	2	Tunisia	4
Benin	9	Kenya	6	Uganda	4
Bolivia	5	Korea	4	United States	2
Botswana	5	Lesotho	1	Upper Volta	2
Brazil	7	Liberia	6	Uruguay	3
British Honduras	1	Madagascar	1	Venezuela	4
Brunei	1	Malawi	11	West Indies	2
Burundi	2	Malta	1	Zaire	10
Burma	1	Malaysia	23	Zambia	6
Cameroon	6	Mauritania	3		
Chile	1	Malgache	2		
China	1	Mali	10	TOTAL:	537
Colombia	14	Mexico	2		
Congo	2	Morocco	2	Distributed By	
Costa Rica	10	Mozambique	1	U.S.A.I.D.:	1,500
Cyprus	2	Nepal	1		
Dominican Rep.	4	New Guinea	5	GRAND TOTAL:	2,037
Ecuador	5	Nicaragua	1		
Egypt	4	Nigeria	31		
El Salvador	1	Pakistan	14		
Ethiopia	9	Panama	3		
Fiji	2	Paraguay	3		
France	1	Peru	10		
Gabon	3	Philippines	37		
Gambia	4	Rwanda	5		
Ghana	15	Senegal	10		
Guatemala	10	Seychelles	1		
Guinea-Bissau	2	Sierra Leone	7		
Guyana	8	Singapore	3		
Haiti	9	Sri Lanka	11		

KSU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

PART V: ACQUISITIONS LIST SUBSCRIBERS

July 1, 1980 - June 30, 1981

ACQUISITIONS LIST SUBSCRIBERS

<u>Country</u>	<u>// Subscribers</u>	<u>Monthly</u>	<u>Semiannual</u>
Bangladesh	3	3	
Bolivia	2	2	
Botswana	2		2
Brazil	4	4	
Brunei	1		1
Burma	1	1	
Cameroon	4	1	3
Colombia	2	2	
Congo	1	1	
Costa Rica	1	1	
Denmark	1	1	
Egypt	1	1	
Ethiopia	2	2	
Fiji	1	1	
Gambia	1		1
Ghana	1		1
Guatemala	3	3	
Guyana	1	1	
India	13	9	4
Indonesia	5	4	1
Israel	1	1	
Jamaica	1	1	
Kenya	1	1	
Korea	2	2	
Lesotho	1	1	
Liberia	1	1	
Mali	2	1	1
Malawi	2	2	
Malaysia	6	5	1
Malta	1	1	
Mauritania	1		1
Mexico	2	2	
Morocco	1	1	
Nepal	2	2	
Nigeria	8	6	2
Pakistan	5	5	

<u>Country</u>	<u># Subscribers</u>	<u>Monthly</u>	<u>Semiannual</u>
Panama	1	1	
Paraguay	1	1	
Peru	1	1	
Philippines	20	18	2
Seneegal	2	1	
Sierra Leone	3	3	1
Sri Lanka	2	2	
Switzerland	1	1	
Taiwan	1	1	
Tanzania	4	3	
Thailand	9	7	1
Trinidad/Tobago	2	1	2
			1
Uganda	1		
United States	3		1
Upper Volta	1	2	1
Venezuela	1	1	
		1	
West Germany	1	1	
Zaire	1		
Zambia	1		1
			1
FFGI	2	2	
	<hr/>	<hr/>	<hr/>
FISCAL TOTAL:	145	116	29
GRAND TOTAL:	183	146	37

KSU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

PART VI: AUTOMATED SEARCHES/DOCUMENT COPIES REQUESTED

July 1, 1980 - June 30, 1981

<u>COUNTRY</u>	<u>SEARCHES</u>	<u>Free</u>	<u>Paid</u>	<u>FICHE</u>	<u>Free</u>	<u>Paid</u>	<u>PAPER</u>	<u>Free</u>	<u>Paid</u>
Australia							4	\$ 10.00	
Benin	1	\$ 11.16					68	\$ 91.00	
Brazil	1	\$ 4.85		17	\$ 20.00		142	\$ 210.00	
Burma							28	\$ 53.00	
Canada	2	\$ 11.28					1	\$ 00.00	
Costa Rica	2	\$ 00.00		4	\$ 4.00		21	\$ 34.00	
Denmark	2		\$ 15.00				3		\$ 6.18
El Salvador							45	\$ 66.00	
Egypt							1	\$ 1.00	
Fiji							2	\$ 00.00	
Ghana	2	\$ 9.03		1	\$ 4.00		11	\$ 16.00	
Guatemala				9	\$ 9.00				
Honduras							2	\$ 8.00	
India	1	\$ 7.44		1	\$ 1.00		67	\$ 81.00	
Indonesia	6	\$ 6.04					5	\$ 41.00	
Israel							26	\$ 35.00	
Italy	1	\$ 22.48		2	\$ 5.00		8	\$ 22.00	
Jamaica							17	\$ 21.00	
Malaysia	6	\$ 62.83					12	\$ 22.00	
Mexico				3	\$ 8.00				
Morocco							20	\$ 22.00	
Nigeria	3	\$ 14.75					13	\$ 25.00	
Pakistan							13	\$ 8.00	
Philippines	26	\$ 54.66		56	\$ 61.00		51	\$ 97.00	

<u>COUNTRY</u>	<u>SEARCHES</u>	<u>Free</u>	<u>Paid</u>	<u>FICHE</u>	<u>Free</u>	<u>Paid</u>	<u>PAPER</u>	<u>Free</u>	<u>Paid</u>
Rwanda									
Senegal	1	\$ 00.00					2	\$ 6.00	
Sierra Leone	2	\$ 00.00					4	\$ 13.00	
Sri Lanka							26	\$ 38.00	
Taiwan	1	\$ 00.00							
Tanzania	4	\$ 00.00		2	\$ 2.00		5	\$ 5.00	
Thailand	2	\$ 4.24					1	\$ 5.00	
Uganda									
United Kingdom				2	\$ 5.00		6		\$ 9.00
United States	3	\$ 43.41	\$ 5.10	3	\$ 5.00	\$ 4.00	42	\$ 82.00	\$ 11.64
Venezuela							12	\$ 18.00	

FOOD AND FEED GRAIN INSTITUTE STAFF

<u>NAME</u>	<u>SEARCHES</u>	<u>Free</u>	<u>Paid</u>	<u>FICHE</u>	<u>Free</u>	<u>Paid</u>	<u>PAPER</u>	<u>Free</u>	<u>Paid</u>
Acasio, U.									
Borsdorf, R.	4	\$ 25.63		2	\$ 5.00		6	\$ 19.00	
Burroughs, R.				2	\$ 3.00		17	\$ 29.00	
Deyoe, C.							86	\$ 113.00	
Foster, K.							4	\$ 10.00	
Hague, E.	2	\$ 10.00					10	\$ 16.00	
Hugo, C.	1	\$ 5.08					3	\$ 3.00	
Kiser, H.	1	\$ 4.41		9	\$ 24.00		48	\$ 59.00	
Mills, R.	1	\$ 8.85		27	\$ 32.00		16	\$ 45.00	
Pedersen, J.							30	\$ 48.00	
Phillips, R.							4	\$ 19.00	
Reed, C.				2	\$ 00.00		1	\$ 00.00	
Wright, V.				104	\$ 111.00		11	\$ 23.00	
FYGI (General)							95	\$ 119.00	
FISCAL TOTALS:	75	\$ 326.24	\$ 20.10	6	\$ 6.00	\$ 4.00	3	\$ 3.00	
GRAND TOTALS:	108	-----	-----	670	-----	-----	1,314	-----	-----

KSU POSTHARVEST DOCUMENTATION SERVICE

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PART VII: TOTAL ACQUISITIONS TO DATE

June 30, 1981

2,740. Approximately 100 documents are added to the database each month. These acquisitions are obtained from the following sources:

1. USDA Technical Information Systems. Current Awareness Literature Service.

Batch searches of the following bibliographical databases:

- Food Science & Technology Abstracts (FSTA)
- Commonwealth Agricultural Bureaux (CAB)
- Government Reports Announcements (GRA)
- National Agricultural Library (AGRICOLA)

2. Group for Assistance on Systems Relating to Grains After-Harvest (GASGA)

Exchange documents with the following organizations:

- CSIRO (Australia)
- GTZ (Germany)
- TPI (England)
- IITA (Nigeria)
- FAO (Italy)
- RTI (Netherlands)
- IDRC (Canada)
- IRAT (France)

3. Journals

Over 200 journals provide articles of interest to PHDS. However, only three are carefully scanned each month for relevant documents. They are:

- Journal of Stored Products Research
- Tropical Stored Products Information
- Tropical Storage Abstracts

4. U.S. Agricultural Experiment Stations and Cooperative Extension Services

5. Miscellaneous National and International Organizations

6. PHDS Clients

7. Food and Feed Grain Institute Staff

This year 80 publications on fruits and vegetables were removed from the PHDS collection and sent to the newly created Postharvest Institute of Perishables, University of Idaho. A close working cooperation was established with this Institute and documents of interest to either information service are freely exchanged.

KSU POSTHARVEST DOCUMENTATION SERVICE

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PART VIII: INFORMATION REQUESTS BROKEN DOWN BY SUBJECT AREA**

July 1, 1980 - June 30, 1981

DOCUMENT REQUESTS

BIOLOGICAL	Grain Properties: Biological/Chemical	27
	Insects	195
	Microorganisms	28
	Rodents/Birds	22
	General	<u>9</u>
	TOTAL	281
ECONOMIC	Analytical Methodology/Models	1
	Facilitating Functions	4
	Marketing Facilities	6
	Marketing Operation	8
	Public Policies/Programs	3
	Supply and Demand	3
	Trade	2
	General	<u>4</u>
TOTAL	31	
ENGINEERING	Conditioning	27
	Drying	91
	Grain Properties: Physical	27
	Handling	21
	Harvesting	12
	Processing	19
	Storage Facilities	55
	General	<u>20</u>
TOTAL	272	
FRUITS AND VEGETABLES	38	
NUTRITION	11	
GENERAL	44	

**Food and Feed Grain Institute Staff Requests Are Not Included.

AUTOMATED SEARCH REQUESTS

BIOLOGICAL	Corn Losses: Biological Aspects	2
	Grain Properties: Biological Aspects	1
	Insecticides: Ash	1
	Insecticides: Diatomaceous Earth	1
	Microorganisms	3
	Millet: Insects	1
	Rice: Biological Aspects	2
	Rice Losses: Biological Aspects	1
	Rodents/Birds	1
	TOTAL	<u>13</u>
	ECONOMIC	
Rice: Economic Aspects	4	
Rice: Grades and Standards	1	
Sampling	1	
TOTAL	<u>6</u>	
ENGINEERING		
Controlled Atmosphere Storage	3	
Conveying	1	
Corn Losses: Engineering Aspects	2	
Drying/Driers	3	
--Batch Dryers	1	
--Direct Drying & Contamination of Cereal Grains	1	
--Drying: Alternative Sources of Energy	2	
--Solar Grain Drying	3	
Grain Dust Explosions	2	
Grain Properties: Engineering Aspects	1	
Pneumatic Threshing	1	
Processing	1	
Rice: Engineering Aspects	6	
Rice: Harvesting Machinery	1	
Rice Losses: Engineering Aspects	1	
Rice: Milling	1	
Rice: Processing Equipment	1	
Storage Facilities	5	
Storage Facilities: Southern Africa	1	
TOTAL	<u>37</u>	

GENERAL

Africa	2
Cereal Grains Postharvest Thesauri	1
Corn Losses: General Aspects	2
Grain Postharvest Bibliographies	1
Legumes	4
Loss Estimation	3
Rice: General Aspects	1
Rice: India/Nepal	1
Rice Losses: General Aspects	1
Sorghum	2
Wheat: India/Nepal	1
	<hr/>
TOTAL	19

KSU POSTHARVEST DOCUMENTATION SERVICE

STATISTICAL/COST REPORT

PART IX: AUTOMATED SEARCH BIBLIOGRAPHIES PRODUCED IN 1980-81

July 1, 1980 - June 30, 1981

<u>Topic</u>	<u>Date Printed</u>
Africa	July 30, 1980
Africa-Southern--Storage Facilities	April 15, 1981
Africa-Southern--Transportation	April 15, 1981
Ash--Used in Food Storage	April 15, 1981
Conditioning	June 22, 1981
Controlled Atmosphere Storage	November 25, 1980
Corn	June 30, 1981
Corn-Losses--Biological	April 6, 1981
Corn-Losses--Engineering	April 6, 1981
Corn-Losses--General	April 6, 1981
Drying--Alternative Sources of Energy	March 18, 1981
Drying--Solar	November 19, 1980
Drying/Driers	August 22, 1980
Ephestia Cautella	June 22, 1981
Estimation--Losses	March 2, 1981
Farms--Small Scale	April 27, 1981
French Articles	June 16, 1981
Grades and Grading	February 4, 1981
Grain Dust Explosions	March 2, 1981
Grain Properties--Biological/Chemical	June 30, 1981
Grain Properties--Physical	June 30, 1981
Harvesting	June 16, 1981
India--Wheat/Rice	January 30, 1981
Legumes	January 8, 1981
Microorganisms	January 15, 1981
Millet	January 26, 1981
On-Farm Storage	April 30, 1981
Price Analysis	November 19, 1980
Processing	April 24, 1981

<u>Topic</u>	<u>Date Printed</u>
Rice--Biological	March 19, 1981
Rice--Economics	March 19, 1981
Rice--Engineering	March 19, 1981
Rice--General	March 20, 1981
Rice-Losses--Biological	April 6, 1981
Rice-Losses--Engineering	April 6, 1981
Rice-Losses--General	April 6, 1981
Rodents/Birds	April 24, 1981
Silica Gel	June 16, 1981
Spanish Articles	June 16, 1981
Sri Lanka	September 16, 1980
Storage Structures	October 14, 1980
Urea; Urease	June 16, 1981

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PART X: PHDS CLIENTS TO DATE

June 30, 1981

ARGENTINA

Ing. Agr. Pedro H. Bedatou
Escuela Agrotecnica de Bolivar
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6550 Bolivar, BS AS
ARGENTINA

AUSTRALIA

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AUSTRALIA

Ms. Rosemary Longstaff
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Professor A.J. Francis
Faculty of Engineering
University of Melbourne
Parkville, Victoria 3052
AUSTRALIA

BANGLADESH

Munshi Siddique Ahmad
Bangladesh Rice Research Institute
Joydebpur
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BANGLADESH

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July 1, 1980 - June 30, 1981

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