

PD-AB-366  
95453

**AGRICULTURAL SECTOR  
SUPPORT PROGRAM**

**AGRICULTURAL DATA  
COLLECTION COMPONENT**

**Quarterly Report  
October 1 - December 31, 1991**

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## 1. HIGHLIGHTS:

Problems with curfews, security, funding and vehicle maintenance stopped ASF sample segment field lay-out work in the Quetta/Pashin/Kalat areas of Balochistan Province on October 16. The work program of the three teams was canceled which caused the ASF Section to fall behind projected schedules. By the end of the quarter, 108 segments had been laid-out. Objective yield (OY) field work, which started in late September, was completed this quarter for rice. However, the work continued during this quarter for the other three Kharif crops - - maize, cotton and sugarcane. Post harvest plots, to determine farmers harvesting losses, were laid-out and harvested in rice fields for the second time. A Rice Yield Optimal Plot size study was conducted to determine the optimal size of the rice objective yield plot. Two TDY's from the National Agricultural Statistics Service (NASS) visited during the quarter and completed their assignments. The Team Leader of the ADC Project made an ASF presentation to the Director of the USAID Mission and other notables and to Mr. Abdul Salam Balouch, Director of Extension of the Balochistan Provincial Department of Agriculture.

## 2. FRAME CONSTRUCTION:

During this quarter, only one additional topographical map was stratified and digitized in the Area Sampling Frame (ASF) laboratory because SPOT scenes from the September - October pass of the satellite were not yet available and because most of the employees from the laboratory were busy field locating segments in Balochistan Province.

A decision was made during this quarter to purchase LANDSAT photography (scale 1 = 250,000) for the missing SPOT scenes (scale 1 = 100,000) in order to finish stratification of the remaining three provinces by April 30, 1992 as called for in the Seventh Year Work Plan. A total of 49 LANDSAT scenes were ordered because 20 of the SPOT scenes, shown as missing in the table below, were provided after December 31, 1991. An order was placed with SUPARCO by the ASF Section for this LANDSAT photography in December, 1991. As the quarter ended, the National frame was 81 percent complete as shown by Table 1 below:

**Table 1 - Progress of Area Sampling Frame construction through December 31, 1991**

Province	No. for entire country		Total number received		Balance to receive		Topo maps stratified & digitized		Remaining topo maps to stratify & digitize	
	SPOT scene	TOPO map	SPOT scene	TOPO map	SPOT scene	TOPO map	No.	%	No.	%
Balochistan	157	592	150	565	7	27*	592	100	0	0
Punjab	104	368	88	368	16	0	276	75	92	25
Sindh	62	247	39	246	23	1**	175	71	72	29
NWFP	57	215	34	182	23	33***	110	51	105	49
Pakistan	300	1422	311	1361	69	61	1153	81	269	19

\* 27 topo maps prepared on charts in ASF Laboratory because they are in sensitive border areas and were not provided by SOP. Most of these are in non-agricultural areas.

\*\* out of Stock

\*\*\* will not be available due to security reasons and will be constructed in the ASF laboratory.

Field lay-outs of sample segments started in the Quetta area of Balochistan Province last quarter (on September 24) and continued until October 16 when work was stopped because of curfews, security, funding, and vehicle maintenance problems. To save time, it was decided to work in the Lasbela/Mekran areas, therefore, three teams were sent to this area during November/December. Three other teams were also sent to Quetta in November/December for covering those areas which could not be covered due to work stoppage in October. As the quarter ended, a total of 150 of the 460 field lay-outs required for Balochistan Province were complete. Plans were made to add an additional two teams to the field so this work can be completed by April 30, 1992 (see Item 5, Government of Pakistan Support, for more details on field lay-outs of sample segments).

Note: It should be pointed out that field lay-outs of sample segments requires that the lay-out teams take points placed on topographical maps in the ASF laboratory and locate them on the ground. Once the point is located on the ground, a segment is constructed (sketched) around this point on grid paper. Enumerators will later be given a copy of the sketched segment and asked to visit the segment and collect data on items being grown in the segment. When the lay-out teams construct these segments, often times there are no definite boundaries. Difficulty re-locating the segment and collecting data will only be known after the first survey in July 1992.

### **3. SURVEY ACTIVITY:**

Enumerator objective yield (OY) training schools were held the previous quarter for cotton, rice, maize and sugarcane. Objective yield field work got underway for all four crops during this quarter in the seven pilot districts in the program. Post-harvest rice plots, to determine farmer harvest loss, were also laid-out and harvested for the second year. In 1990, several enumerators complained that the scales assigned to them would not accurately weigh a single, small stalk of sugarcane as is sometimes required. As a result, new scales that will accurately weigh a small stalk were purchased and delivered to the enumerators for use in the 1991-92 season.

All grain from the rice OY plots and post-harvest plots was in the ADC Project laboratory by December 17. Summaries were prepared for rice in mid-December and these are shown by Appendix 1. As the quarter ended, OY data for cotton, maize and sugarcane were still being collected. Summaries for these crops will be shown in next quarter's report.

All OY data from both the Punjab and Sindh Provinces were processed in the ADC Project laboratory and keyentered and edited

by staff from the ADC Cell of FBS. The data were then summarized by the ADC Project office.

Mr. Jamil Rajput, Program Specialist for the ADC Project, visited the Nawabshah district on October 22-25 to check several sugarcane OY plots being worked by enumerators. The previous season, stalk counts and average stalk weights reported by the enumerators in this district were much higher than those reported in the other producing districts. These high stalk counts and weights gave an unreasonably high per hectare yield level. Mr. Rajput observed enumerators harvesting three OY plots. The average stalk counts for these plots was 163 and the average weight per stalk was 0.5764 kilograms (using the new scales mentioned in the paragraph above). For 60 samples in this district in 1990, enumerators reported an average stalk count of 207 and an average stalk weight of .8047 (using the old scales). It appears that enumerators were counting too many small stalks (those that have no juice or sugar potential) in 1990. In addition, poor quality scales could have been part of the weight problem. Mr. Rajput's Trip Report, giving details for each of the OY plots that he helped harvest is shown by Appendix 2.

The Rice Yield Optimal Plot Size study, which got underway last quarter, was finished this quarter. However, the data from these research plots will not be analyzed until January 1992 when a TDYer comes to Islamabad to analyze several sets of data. FBS enumerators were used to conduct the Wheat Yield Optimal Plot Size study in 1990 and were familiar with the procedures.

The Survey Activity Calendar for the ASF Rabi Average survey was completed on Oct 30, 1991, one day earlier than called for by page 11 of the Seventh Year Workplan. A copy of this calendar is shown in Table 2.

#### **4. SAMPLING:**

There were no sampling activities during the quarter.

Table 2: January 1992 ASF ACREAGE SURVEY CALENDAR

TARGET DATE	ACTUAL DATE	ACTIVITY
17-02-92	<u>1/</u>	Sample Selection for O.Y.S of wheat crop 1992 and stickers printed/ready.
13-02-92	<u>1/</u>	Summaries Completed
09-02-92	<u>1/</u>	Clean Edited Data in Islamabad
06-02-92	<u>1/</u>	Clean edited Data in the Processing Center
27-01-92	<u>1/</u>	All field work delivered to the data processing centers
23-01-92	<u>1/</u>	All field work completed
22-01-92	<u>1/</u>	75% of the data processing through the computer edit due to late start in Sindh
22-01-92	<u>1/</u>	Quality control completed.
12-01-92	<u>1/</u>	25% segment through the first computer edit due to late start in Sindh
04-01-92	<u>1/</u>	Survey work started
01-01-92	<u>1/</u>	Enumerators training conducted for Punjab
30-12-91	30-12-91	Enumerators training conducted for Sindh
30-12-91	<u>1/</u>	Data entry/edit/summary procedures installed at processing centers
24-12-91	08-12-91	Evaluation test for training sessions developed
19-12-91	15-12-91	Quality assurance proforma supplied to the pilot district by ADC Cell, Islamabad
19-12-91	15-12-91	Questionnaires/Forms A & B./Manual supplied to the pilot districts by ADC Cell
19-12-91	12-12-91	Questionnaires/Manual/Form A&B got printed/ready by ADC Cell, Islamabad
12-12-91	01-12-91	Project coordinators notified of training dates, time & location
21-11-91	19-11-91	Questionnaires/Manual/Form A&B sent to Team Leader office.
20-11-91	02-12-91	Manual of Instruction finalized/approved
20-11-91	15-12-91	Quality Assurance proforma finalized/approved
20-11-91	19-11-91	Draft Questionnaire Form A&B finalized/approved
14-11-91	25-11-91 Pun Nil Sindh	Comments on draft questionnaires/Manual/Q.A. proforma/Form, A&B received in ADC Cell, Islamabad
04-11-91	02-11-91	Draft questionnaire/Manual/Q.A. Proforma/Form A&B circulated for comments
31-10-91	30-10-91	Activity Calendar finalized/prepared

1/ To be printed in January - March, 1991 Quarterly Report

## **5. GOVERNMENT OF PAKISTAN SUPPORT:**

The ADC Project Team Leader gave an ASF presentation to officials of USAID on December 2 in the Statistics Division's conference room. This presentation was attended by the following USAID officials: Mr. James Norris, Mission Director; Mr. Arnold Radi and John Swanson, Chief and Deputy Chief of the Office of Agriculture and Rural Development; and Mr. Dennis Weller, Chief of the Agriculture Sustainability, Production and Policy Division. In addition, this presentation was attended by the Secretary of the Statistics Division, Mr. Ahad-ullah-Akmal, Dr. Noor Muhammad Larik, DDG of the FBS and other officials of the ADC Cell. After the presentation, all attendees were given a tour of the laboratory where the ASF is being constructed. The ADC Project Team Leader also gave an ASF presentation to Mr. Abdul Salam Balouch, Director of Extension of the Quetta Provincial Department of Agriculture during the quarter. Each of these presentations utilized transparencies and lasted about an hour.

Nearly all of the 460 sample segments selected in Balochistan Province will be field located by staff of the ASF Section before they are given to enumerators to visit. This procedure requires that a selected sample segment point first be randomly placed on a topographical map, and then the enumerator must find this point on the ground. Once this point is found, it becomes the center of the segment and a segment is sketched on grid paper around this point in a way that enables an enumerator to re-locate it. In Balochistan, where these are often no permanent boundaries, this point is difficult to locate on the ground. The Project office suggested that the Global Positioning System (GPS) be used for determining the exact location of these points. By determining the latitude and longitude of the point on the topographical map and entering them into the GPS memory, this instrument will direct a person to the geographical location of the point by sending electronic signals to 3 to 4 different satellites passing overhead. The Project Office borrowed five GPS's from another USAID project and demonstrated their use to the FBS Cell. FBS felt that the instrument could play an instrumental role in precise field-location of the sample segments but felt it best to seek clearance for its use from the Ministry of Defence (MOD). The Team Leader agreed with this decision. Dr. Larik sent a letter to the MOD during the quarter asking for permission to use these instruments in the ADC Project. As the quarter ended, no response had been received. The Project Office's memo to the ADC Cell on use of the GPS instrument is shown in Appendix 3.

The ADC Project office sent an equipment order to USAID's Project Officer on October 21. Scales in this order are scheduled for use in the 1992 Wheat Yield Validation survey. Necessary items to set-up OY laboratories in each of the four provinces were also included in this order. However, when the quarter ended, these items had not yet been ordered.

## **6. TRAINING:**

The ADC Project Team Leader and Program Specialist made a trip

to Sheikupura district November 19-21 to take some additional color slides. The slides made in rice fields will be used when teaching enumerators how to conduct the Rice Yield Validation survey scheduled for Kharif, 1992. Slides made in the cotton fields will be used to supplement those taken in cotton fields in 1990 and they will be used in enumerator schools for cotton OY surveys.

#### 7. CONSULTATION:

Several meetings were held in the ADC Project office to discuss and finalize the January (Rabi) ASF acreage questionnaire. These meetings were attended by Dr. Larik, Mr. Sharif Ahmed Khan, and the Chief and Statistical officers of the Survey Planning and Estimation Section of the ADC Cell.

Mr. Larry Siverson, Director of the International Programs Office of the National Agricultural Statistics Service (NASS) in Washington, D.C. visited Islamabad on a three week management TDY. Mr. Siverson visited all USAID officials associated with the ADC Project. In addition, he visited the following GOP officials.

#### FEDERAL BUREAU OF STATISTICS

Mr. Ahad Ullah Akmal	Secretary
Mr. Ghulam Mustafa	D.D.G.
Mr. Noor Muhammad Larik	D.D.G.
Mr. Sharif Ahmed Khan	Director, ADC Cell
Mr. Arif Mahmood Cheema	Chief, SP&E Section
Mr. Khalid Mahmood,	Chief, ASF Section

#### PROVINCIAL DEPARTMENT OF AGRICULTURAL

Mr. Abdul Waheed	Chief Planning Officer	Peshawar
Mr. Khalid Mansoor	Secretary	Peshawar
Mr. Syed Mahfooz Ali Shah	Director General Ext.	Peshawar
Mr. Yunas Khan	ADC Project Director	Peshawar
Mr. Muhammad Sadiq Cheema	Secretary	Lahore
Mr. Rana Attaullah	Director, CRS	Lahore
Mr. Murtaza Balouch	ADC Project Director	Lahore
Mr. Abdul Salam Balouch	Director of Extension	Quetta
Mr. Abdus Samad Ghilza	ADC Project Director	Quetta

While in Lahore, Mr. Siverson also visited a rice field to observe the methods used by enumerators when laying-out and harvesting a rice plot in the Rice Yield Optimal Plot Size study. He also participated in the ASF presentation made by the ADC Project Team Leader to Mr. Abdul Salam Balouch while in Quetta.

Mr. Tom Birkett, Mathematical Statistician from NASS, Washington, D.C., arrived in Islamabad on December 27 for a three week TDY. His Scope of Work and accomplishments will be shown in the January - March 1992 Quarterly Report.

**8. DELIVERABLES FOR THE QUARTER:**

The deliverables for the quarter, as defined in the SEVENTH YEAR WORK PLAN included:

- o January ASF acreage survey activity calendar prepared by October 31, 1991
- o Maize and rice OY survey results finalized by December 12, 1991
- o Provide for maintenance/installation of all ADC Project funded equipment
- o FBS requested in house training provided in a timely manner
- o GOP requested consultation responded to in a timely manner.
- o July - September Quarterly Report presented by October 31, 1991

The last rice OY and post-harvest data were received in the ADC lab on December 17 and these data are shown in this report. All of the maize OY samples were not in the laboratory when the quarter ended. Therefore, the summaries for maize will be shown in the next quarterly report. The July- September Quarterly Report was not presented during the quarter due to numerous other activities of the ADC Project Office. All other deliverables were met. In addition, the January ASF Survey Activity Calendar was prepared on Oct 30, 1991, considerably ahead of schedule.

## RICE OBJECTIVE YIELD SUMMARY 1991

	AREA		YIELD		PRODUCTION	
	HECTARES (Adjusted)	C.V (%)	KG/HECT.	C.V (%)	M.TONNES	C.V (%)
PAKISTAN (6 DIST)	534,270	5.1	3,728	3.5	1,992,001	6.2
PUNJAB (3 DIST)	253,477	7.2	2,754	5.1	697,974	8.8
FAISALABAD	13,967	25.5	1,926	6.5	26,901	26.4
JHANG	38,690	16.9	2,375	5.6	91,888	17.8
SHEIKHUPURA	200,824	8.3	2,884	6.1	579,185	10.3
SIND (3 DIST)	280,793	7.3	4,608	4.7	1,294,027	8.6
NAWABSHAH	37,462	17.7	5,703	4.9	213,659	18.4
LARKANA	209,744	8.7	4,700	6.0	985,876	10.6
HYDERABAD	33,586	18.8	2,813	8.5	94,492	20.7

## RICE POST HARVEST LOSS SUMMARY 1991

	AREA		YIELD		PRODUCTION	
	HECTARES (Adjusted)	C.V (%)	KG/HECT.	C.V (%)	M.TONNES	C.V (%)
PAKISTAN (6 DIST)	534,270	5.1	32	10.3	17,272	11.5
PUNJAB (3 DIST)	253,477	7.2	50	13.7	12,615	15.5
FAISALABAD	13,967	25.5	39	16.5	539	30.7
JHANG	38,690	16.9	35	13.6	1,343	21.8
SHEIKHUPURA	200,824	8.3	53	16.0	10,732	18.0
SIND (3 DIST)	280,793	7.3	17	9.6	4,617	12.1
NAWABSHAH	37,462	17.7	31	16.7	1,168	24.5
LARKANA	209,744	8.7	6	25.7	1,341	27.0
HYDERABAD	33,589	18.8	64	9.9	2,148	21.3

## MEMORANDUM

TO: Robert L. Addison, Team Leader, Ag. Data Collection Project  
 FROM: M. Jamil Rajput, Program Specialist  
 DATE: Oct. 29, 1991  
 SUBJECT: Nawabshah Trip Report Oct. 22-25, 1991.

- Oct. 22 Travel to Karachi by evening flight.
- Oct. 23 Travel to Nawabshah by the morning flight. Delivered four sugarcane weighing scales to the ADC office in Nawabshah. I along with Mr. Ali Bakhsh Chandio S.O. and two enumerators went to the sampled sugarcane field to harvest the OY plot.
- Oct. 24 A vehicle arrived from the ADC Project Co-ordinator's office in Hyderabad which took us to the sampled fields about 50 kms. from Nawabshah. Two sugarcane OY plots were harvested.  
 Travel to Karachi by evening flight.
- Oct. 25 Travel to Islamabad.

Following are the observations from three Sugarcane OY plots.

Sample No.	Plot Size (Hect)	Total Stalks	Avg. wt(kg.) per stalk	Yield kg/hect.
34	0.001703	160	0.9933	93,307
37	0.001446	172	0.5683	67,571
50	0.001260	170	0.1923	25,946

From the three observed samples;

Average wt. per stalk (kg.)	0.5764
Number of stalks per plot	163
Yield (kg./hect.)	62,274

Where as Kharif 1990 survey a sample of 60 plots estimates;

Average wt. per stalk (kg.)	0.8047
Number of stalks per plot	207
Yield (kg./hect.)	146,577

**AGRICULTURAL DATA  
COLLECTION PROJECT**

**GOP/USAID/USDA**

29, Blue Area  
Islamabad, Pakistan  
Tele : 822084  
Fax : 826592

**MEMORANDUM**

**TO:** Mr. Khalid Mahmud, Chief Statistical Officer, FBS/ADC  
**FROM:** Robert L. Addison, Team Leader, ADC Project, ARD/USAID  
**DATE:** October 14, 1991  
**SUBJECT:** Use of Global Positioning System Equipment

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As you know, we are proceeding ahead of schedule in the construction of the Area Sampling Frame for the entire country of Pakistan. We recently selected a sample of 460 land segments for enumerators to visit in Balochistan Province. When enumerators visit these segments, in July of 1992, they will record hectares of each crop growing in the segments. These data will allow us to compute estimates of total hectares of major crops being grown in the province for use in Government of Pakistan policy decisions. Plans are to conduct surveys in all provinces in January 1993 and, for the first time, publish estimates of hectares of major crops being grown in the entire country.

However, before enumerators can visit the sample segments which have been selected for Balochistan Province, teams of Statistical Officers and Statistical Assistants from the Agricultural Data Collection Cell of the Federal Bureau of Statistics (FBS) have to locate these segments on the ground. Once the segments are located on the ground, sketches of the segments will be made so the enumerators can find them and accurately record data for crops growing in the segments.

When the teams attempt to locate the segments on the ground, they do this by first placing a point on a topographical map in the FBS laboratory. A point is placed on the map(s) for each segment. The next step is to compare the point on the topographical map to the ground and find that exact point on the ground. The sample segment is then constructed on grid paper around that point. However, experience has shown that often times the FBS Statistical Officers are unsure of the exact point on the ground in Balochistan Province since much of the Province is desert and often there are no permanent boundaries on the topographical maps to match with boundaries on the ground. In these cases, location of the exact point, in some cases, is approximate and can lead to biasing of the data collected later by enumerators.

- (Continued) -

The Global Positioning System (GPS) equipment (see copy of brochure attached) will allow our teams to determine the exact location of the topographical point on the ground so that segments can be accurately located. I request that permission be obtained from the Ministry of Defense for use of the GPS equipment so that the Government of Pakistan may have the best agricultural data possible.

I might add that the Ministry of Defense approved the use of this equipment by the Energy Wing-- Household Energy Survey Strategy Study on 23 September 1990 ( a copy of the letter is attached)

Since segment location work is already underway in Balochistan Province, I request that the permission be sought as soon as possible. Also, the permission, if granted, should be for the entire country since we will also need to use this equipment in Punjab, Sindh and the NWFP.

Oct - Dec, 1991 COMMODITY UTILIZATION  
VEHICLE

VEHICLE TYPE	CHASSIS NUMBER	LOCATION	***** KILOMETERS *****		ASSESS- MENT OF USAGE	ASSESS- MENT OF USAGE COMMENTS
			BEGINNING QUARTER	ENDING QUARTER		
LAND CRUISER	16331	FBS/ISLAMABAD	N/A			FULLY USED
PAJERO JEEP	400205	FBS/ISLAMABAD	-			NOT IN USE
PAJERO STAWGN	400766	FBS/LAHORE	84,303	95,032	10,729	FULLY USED
PAJERO STAWGN	400832	FBS/LAHORE	93,115	97,968	4,853	FULLY USED
LAND CRUISER	16326	AG DEPT/HYD	N/A			FULLY USED ASSIGNE TO MINISTRY OF AG.
PAJERO JEEP	400548	AG DEPT/HYD	175,614	181,695	6,081	FULLY USED
PAJERO STAWGN	400834	AG DEPT/HYD	N/A			FULLY USED
LAND CRUISER	16577	AG DEPT/LHR	229,809	241,446	11,637	FULLY USED
PAJERO JEEP	400345	AG DEPT/LHR	181,246	193,432	12,186	FULLY USED
PAJERO STAWGN	400833	AG DEPT/LHR	151,839	166,248	14,409	FULLY USED
PAJERO JEEP	400318	AG DEPT/PESH	N/A			FULLY USED
PAJERO JEEP	40033	AG DEPT/QUE	N/A			FULLY USED
PAJERO STAWGN	400835	AG DEPT/QUE	N/A			FULLY USED
HI ACE	2995	ADC OFFICE	N/A			FULLY USED AD 64 405
LAND CRUISER	30289	ADC OFFICE	71,173	N/A		FULLY USED AD 64 404
PAJERO JEEP	401013	ADC OFFICE	44,609	50,803	6,194	AD 64 556
PAJERO JEEP	401094	ADC OFFICE	N/A	N/A		AD 64 651
PAJERO JEEP	401091	ADC OFFICE	11,765	16,767	5,002	AD 64 650
PAJERO STAWGN	400204	ADC OFFICE	88,489	90,969	2,480	AD 64 486
LAND CRUISER	33794	ADC OFFICE	TRANSFERRED	TO USAID	417	
LAND CRUISER	33798	ADC OFFICE	TRANSFERRED	TO USAID	418	

Oct - Dec, 1991 COMMODITY UTILIZATION  
(MOTOR CYCLES)

LOCATION	QUANTITY
AG DEPT/LAHORE	23
AG DEPT/HYDERABAD	20
AG DEPT/QUETTA	0
AG DEPT/PESHAWAR	6
FBS/ISLAMABAD	1
<b>Total</b>	<b>50</b>

Oct - Dec, 1991 COMMODITY UTILIZATION  
(COMPUTERS)

EQUIPMENT	QUANTITY	USER	LOCATION	USAGE
PC-AT & MONITOR PRINTER	6 6	STATISTICS DIVISION	ISLAMABAD	FULLY USED
PC-AT & MONITOR PRINTER	12 12	ADC/FBS	ISLAMABAD	FULLY USED
PC-AT & MONITOR PRINTER	2 2	AG DEPT	HYDERABAD	FULLY USED
PC-AT & MONITOR PRINTER	3 3	AG DEPT	PESHAWAR	FULLY USED
PC-AT & MONITOR PRINTER	2 2	AG DEPT	QUETTA	FULLY USED
PC-AT & MONITOR PRINTER	4 4	FBS	KARACHI	FULLY USED
PC-AT & MONITOR PRINTER	12 12	PISTAR	LAHORE	FULLY USED
PC-AT & MONITOR PRINTER	3 3	CRS	LAHORE	FULLY USED
HP VECTRA QS-16S/PC & MONITOR	2	ADC/FBS	ISLAMABAD	FULLY USED
PRINTERS	2	ADC/FBS	ISLAMABAD	FULLY USED
TOTAL COMPUTER SYSTEMS	:	46		
TOTAL MONITORS: COLOR	:	22		
MONOCHROME	:	24		
TOTAL PRINTERS	:	46		

Oct - Dec, 1991 COMMODITY UTILIZATION  
(PRINTING PRESSES)

EQUIPMENT	QUANTITY	DISTRIBUTION	LOCATION	USAGE
SOLNA OFFSET PRINTING PRESS	1	1	FBS/KARACHI	FULLY USED
DAVIDSON PRESS MODEL 901	2	1	PUNJAB	INSTALLED
	1		SINDH	<u>1/</u>
AGFA REPROMASTER 2100 CAMERA	3	1	FBS/KARACHI	FULLY USED
		1	PUNJAB	INSTALLED
		1	SINDH	<u>1/</u>
MICROPROCESSOR PAPER CUTTER	2	1	PUNJAB	INSTALLED
		1	FBS/KARACHI	FULLY USED
NUARC EXPOSURE UNIT	3	1	FBS/KARACHI	FULLY USED
		1	PUNJAB	INSTALLED
		1	SINDH	<u>1/</u>
INTERLAKE STITCHER	2	1	PUNJAB	INSTALLED
		1	SINDH	<u>1/</u>

1/ In process of installation.

- (Continued) -

Oct - Dec, 1991 COMMODITY UTILIZATION  
(OFFICE, LAB & FIELD EQUIPMENT)

EQUIPMENT	QUANTITY	USER	LOCATION	USAGE
DIGITIZER - ALTEK	4	FBS	ISLAMABAD	FULLY USED
ZOOM - TRANSFERSCOPES	2	FBS	ISLAMABAD	FULLY USED
IBM TYPEWRITERS	1	FBS	ISLAMABAD	FULLY USED
	1	PISTAR	LAHORE	FULLY USED
BINDING MACHINE	1	PISTAR	LAHORE	FULLY USED
AUDIO-VIDEO EQUIP				
T.V. 26" NATIONAL (COLOR)	1	PISTAR	LAHORE	FULLY USED
V.C.R. MODEL L-15	1	PISTAR	LAHORE	FULLY USED
DISPLAY SCREEN	3	PISTAR	LAHORE	FULLY USED
OVER-HEAD PROJECTORS	2	PISTAR	LAHORE	FULLY USED
SLIDE PROJECTOR	1	PISTAR	LAHORE	FULLY USED
PORTABLE WHEAT THRESHERS	4	ADC PUNJAB	LAHORE	NOT IN USE
WHEAT THRESHERS	1	ADC LAB	ISLAMABAD	FULLY USED
OVEN	4	ADC LAB	ISLAMABAD	FULLY USED
WEIGHING SCALES	2	ADC LAB	ISLAMABAD	FULLY USED
AIR CONDITIONERS	8	FBS		FULLY USED
	1	NWFP		FULLY USED
	1	BALUCHISTAN		FULLY USED
	1	LAHORE		FULLY USED
	1	HYDERABAD		FULLY USED

## ADC FINANCIAL STATEMENT 1/ 2/

Budget Element	Budget Jul91-Jun92	Jul-Sep 1991	Oct-Dec 1991	Jan-Mar 1992	Apr-Jun 1992	Cumulative	Percent of Budget
<b>TECHNICAL ASSISTANCE</b>							
Long term	148,013	36,000	36,000			72,000	
Short Term	58,416	41,100	13,800			54,900	
Backstopping	25,483	6,055	6,055			12,110	
Study Tour	70,860	0	0			0	
Equip., Supplies & Commodities	58,928	19,200	750			19,950	
<b>SUB-TOTAL</b>	<b>361,700</b>	<b>102,355</b>	<b>56,605</b>			<b>158,960</b>	<b>43.9 %</b>
<b>FEDERAL BUREAU OF STATISTICS</b>							
Pay and allowances of Staff			367			367	
Travelling allowances			19,314			19,314	
ASF operating cost			288			288	
Commodities and services			1,285			1,285	
Local training			1,130			1,130	
Repair and maintenance of D/Goods						0	
<b>SUB-TOTAL</b>	<b>131,846 3/</b>	<b>0 4/</b>	<b>22,385</b>			<b>22,385</b>	<b>17.0 %</b>
<b>PROVINCIAL GOVERNMENTS</b>							
Pay and allowances of Staff		4,255	23,044			27,300	
Travelling allowances		620	1,578			2,198	
ASF operating cost		0	503			503	
Commodities and services		1,704	4,072			5,776	
Local training		0	0			0	
Repair and maintenance of D/Goods		3,294	4,880			8,174	
<b>SUB-TOTAL</b>	<b>300,203 3/</b>	<b>9,873 4/</b>	<b>34,077</b>			<b>43,951</b>	<b>11.4 % 5/</b>
<b>LOGISTIC SUPPORT SERVICES</b>							
ADC Office Staff	59,074	21,062	16,277			37,339	
Telephone	3,960	1,847	2,327			4,175	
Office supplies	2,640	881	1,477			2,357	
Travel and Transportation	26,017	5,406	5,118			10,523	
Vehicles Operating Expenses	33,591	371	547			981	
Computer Maintenance	0	0	0			0	
Other cost	0	1,498	3,098			4,597	
<b>SUB-TOTAL</b>	<b>125,282</b>	<b>31,065</b>	<b>28,844</b>			<b>59,909</b>	<b>47.8 %</b>
<b>GRAND TOTAL</b>	<b>919,031</b>	<b>143,293</b>	<b>141,910</b>			<b>285,204</b>	<b>30.0%</b>

1/ All values include appropriate overhead.

2/ Figures are preliminary .

3/ Actual allocation.

4/ Jul-Sept 1991 expenditures from the saving of July 1990-June 1991 budget

5/ See 4/

## AGRICULTURAL DATA COLLECTION PROJECT - LONG TERM CONSULTANTS

Name	Person Arrival	Person Departure	Day	Months	Category
T. J. Byram	28-08-86	28-08-88	731	24	Team Leader
G. Eric Waldhaus	10-02-86	25-10-89	1353	45	Survey Statistician
Dwaine Nelson	23-07-88	30-06-90	707	24	Team Leader
Robert L. Addison	18-06-90				Team Leader

- (Continued) -

AGRICULTURAL DATA COLLECTION PROJECT - SHORT TERM CONSULTANTS 1/2/

NAME	Arrived	Departed	Person Days	Category	Subject	Number of Man Months
Larry A. Sivers	20 Jul 85	01 Aug 85	13	Initiate Project		0.43
Odell Larson	20 Jul 85	01 Aug 85	13	Initiate Project		0.43
T. J. Byrum	20 Jul 85	01 Aug 85	13	Initiate Project		0.43
Charles H. Cook	01 Nov 85	10 Nov 85	10	Administrative OICD	PASA Funding Mechanism	0.33
G. Eric Waldhau	04 Nov 85	10 Nov 85	18	Training	ASF Construction	0.53
Larry A. Sivers	04 Nov 85	12 Dec 85	30	Training	ASF Construction	1.30
Josephine S. W.	11 Nov 85	15 Dec 85	34	Training	ASF Construction	1.13
Hoger D. Latha	16 Jan 86	30 Jan 86	14	Consulting	Assembling Microcomputers	0.47
Josephine S. W.	17 Mar 86	07 Apr 86	21	Training	ASF Construction	0.70
Krisa S. Oswald	08 Apr 86	24 Apr 86	18	Training	Intr. Microcomputer Workshop	0.60
<b>FY 85-86 TOTAL</b>			<b>191</b>			<b>6.37</b>
Fredrick D. Dak	12 Jun 86	15 Jul 86	33	Training	Statistics Short Course	1.10
Charles R. Perry	15 Jun 86	12 Jul 86	27	Training	Statistics Short Course	0.90
Bill Kelly	23 Jun 86	03 Jul 86	10	Administrative OICD	AID/ADC/OICD Business	0.33
Ronald Fecso	23 Jun 86	04 Jul 86	11	Training	Statistics Short Course	0.37
Jewell T. Barr	14 Sep 86	01 Oct 86	17	Training	Mainframe SAS	0.57
James E. Stepa	15 Sep 86	01 Oct 86	18	Training	Mainframe SAS	0.53
Ronald A. Sadle	08 Jan 87	26 Jan 87	18	Training	Intr. Microcomputer Workshop	0.60
Mark Harris	10 Jan 87	01 Feb 87	13	Sampling	Select SF Sample	0.43
Charles R. Perry	31 Jan 87	04 Mar 87	32	Training	Statistics Short Course	1.07
Paul Blackwood	31 Jan 87	04 Mar 87	32	Training	Statistics Short Course	1.07
Carroll Rock	23 Mar 87	30 Apr 87	38	Consulting	Ag Prices Study	1.27
James E. Stepa	26 Mar 87	18 Apr 87	23	Training	PC SAS	0.77
Larry A. Sivers	01 Jun 87	08 Jun 87	8	Administrative NASS	Support for Resident Advisors	0.27
Ralph Otto	01 Jun 87	08 Jun 87	8	Administrative OICD	AID/ADC/OICD Business	0.27
<b>FY 86-87 TOTAL</b>			<b>286</b>			<b>9.53</b>
Jewell T. Barr	14 Sep 87	20 Sep 87	15	Consulting	ACO Methodology Review	0.50
Mark Harris	14 Sep 87	07 Oct 87	23	Consulting	ACO Methodology Review	0.77
Muntie Wallace	14 Sep 87	08 Oct 87	24	Consulting	ACO Methodology Review	0.80
Richard Allen	14 Sep 87	02 Oct 87	18	Consulting	ACO Methodology Review	0.60
James E. Stepa	17 Sep 87	08 Oct 87	21	Consulting	Computer programing for ADC	0.70
Bob Hale	28 Sep 87	16 Oct 87	18	Consulting	ACO Methodology Review	0.60
David Pawel	28 Sep 87	16 Oct 87	18	Consulting	ACO Methodology Review	0.60
Robert Hovinski	09 Nov 87	22 Nov 87	13	Consulting	Computer Mod. and Exp. Study	0.43
Dwaine Nelson	01 Feb 88	27 Feb 88	28	Consulting	SD Crop Estimates Improvement	0.87
Paul Blackwood	11 Feb 88	17 Mar 88	35	Training	Statistics Short Course	1.17
Charles R. Perry	13 Feb 88	16 Mar 88	32	Training	Statistics Short Course	1.07
James E. Stepa	31 Mar 88	23 Apr 88	23	Training	PC SAS	0.77
<b>FY 87-88 TOTAL</b>			<b>266</b>			<b>8.87</b>
Mark Harris	30 Oct 88	07 Nov 88	8	Consulting	ACO Methodology Review	0.27
Paul Blackwood	30 Oct 88	19 Nov 88	20	Training	Primary Data Collection Methods	0.67
Theresa Holland	30 Oct 88	19 Nov 88	20	Training	Primary Data Collection Methods	0.67
Benjamin F. Klu	07 Jan 89	20 Jan 89	19	Training	Primary Data Collection Methods	0.63
Paul W. Cook	07 Jan 89	20 Jan 89	19	Training	Primary Data Collection Methods	0.63
Larry A. Sivers	30 Jan 89	13 Feb 89	14	Administrative NASS	Support for Resident Advisors	0.47
James Mark Har	12 May 89	26 May 89	14	Training	Digitization	0.47
Martin Ozga	12 May 89	28 May 89	14	Training	Digitization	0.47
<b>FY 88-89 TOTAL</b>			<b>128</b>			<b>4.27</b>

- (Continued) -

AGRICULTURAL DATA COLLECTION PROJECT - SHORT TERM CONSULTANTS 1/2/

NAME	Arrived	Departed	Person		Subject	Number of Man Months
			Days	Category		
Larry A. Silvers	30 Jul 89	19 Aug 89	20	Administrative NASS	Prel. Work for New Agreement	0.87
T. J. Byram	30 Jul 89	19 Aug 89	20	Administrative NASS	Prel. Work for New Agreement	0.87
Larry A. Silvers	03 Nov 89	24 Nov 89	21	Administrative NASS	Prel. Work for New Agreement	0.70
James Mark Har	13 Nov 89	08 Dec 89	25	Training	SFOT Stratification Training	0.83
Robert L. Addis	27 Nov 89	15 Dec 89	18	Consulting	Objective Yield Review	0.60
James Mark Har	19 Jan 90	07 Feb 90	19	Training	SFOT Stratification Training	0.63
Robert L. Addis	09 Mar 90	28 Mar 90	19	Consulting	Wheat Obj Yield Research	0.63
Steve Kellogg	09 Mar 90	30 Mar 90	21	Training	Primary Data Collection Methods	0.70
Gary Keough	09 Mar 90	28 Mar 90	19	Training	Primary Data Collection Methods	0.63
Martin Ozga	18 Mar 90	29 Mar 90	13	Training	Digitization	0.43
Tom Birkett	11 Jun 90	22 Jun 90	11	Consulting	Wheat Obj Yield Research	0.37
<b>FY 89-90 TOTAL</b>			<b>206</b>			<b>6.87</b>
Paul W. Cook	31 May 91	20 Jun 91	20	Consulting	Balochistan Sample Selection	0.87
Tom Birkett	12 Jul 91	28 Jul 91	14	Consulting	Wheat Plot Size Study	0.47
Pny Halley	08 Jul 91	26 Jul 91	18	Consulting	OY Program for Wheat, Rice, Cotton	0.60
Fred Warren	02 Aug 91	16 Aug 91	14	Consulting	Livestock and Poultry	0.47
			83	Administrative NASS		
			28	Administrative OICD		
			284	Consulting		
			39	Initiate Project		
			33	Sampling		
			810	Training		
			<b>TOTAL PERSON DAYS</b>	<b>1077</b>		
			<b>TOTAL PERSON MONTHS</b>	<b>35.9</b>		

1/ Person Days: Includes arrival date but not departure date.

2/ US Government overhead is included in all cost estimates.