

**AGRICULTURAL SECTOR
SUPPORT PROGRAM**

**AGRICULTURAL DATA
COLLECTION COMPONENT**

**Quarterly Report
October 1 - December 31, 1992**

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1. HIGHLIGHTS:

The remaining stratification for the entire country was completed during the July - September quarter. During this quarter, field lay-outs of sample segments in the Punjab, for which aerial photography was not available, was a major activity as nine teams began work on October 12 in an effort to finish this work by December 31. Two TDY's from the National Agricultural Statistics Service (NASS) visited during the quarter. One determined the segment sample sizes and allocation of sample segments for the Sindh Province and NWFP. The other TDYer coded computer summary programs to summarize the data which will be collected from each of the four provinces. Preliminary results became available for the 1992 Wheat Objective Yield Validation survey. Data from the seven districts in the 1992 Rice Objective Yield survey were summarized and is shown in this report. The Team Leader made ASF presentations during the quarter to the D.G. and Secretary of the Sindh Department of Agricultural, to the D.G. and Extension Director of the Balochistan Department of Agriculture and to the Prime Minister's Committee for Research and Analysis.

2. FRAME CONSTRUCTION:

Stratification of the Sindh Province and NWFP was completed last quarter. Early this quarter, Area Sampling Frame (ASF) employees were busy getting the Sindh and NWFP stratification data organized and proofed in time for the early November arrival of a TDYer to determine the segment sample sizes and sample segment allocation for these two provinces. Aerial photography for 525 out of 2,028 sample segments selected for the Punjab Province was not available. As a result, these segments had to be layed-out on sketch paper in the field. This work started in the Punjab on October 12 and 9 three man teams were employed. All employees of the ASF section, all available employees of the Survey Planning and Estimation section and members of the Punjab Crop Reporting Service participated in this segment lay-out work.

3. SURVEY ACTIVITIES:

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 third year.

All grain from the rice OY plots and post-harvest plots was in the ADC Project laboratory by December 12, 1992. 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.

The Survey Activity Calendar for the ASF Rabi Average survey was completed on October 18, 1992, eleven days earlier than called for by page 11 of the Eight Year Workplan. A copy of this calendar is shown in Table 1.

A preliminary summary of the 1992 Wheat Yield Validation survey was prepared during the quarter by the ADC Project Office and the ADC Cell. It should be pointed out that these data will be re-analyzed by Mr. Tom Birkett in early April 1993 when he comes back to Islamabad for a forecast model TDY. The data will be re-summarized in conjunction with his wheat yield model work which is under development, and could differ from the preliminary summary, even though any changes from the preliminary summary are not expected to be great.

During the Wheat Yield Validation survey (see Item 4, SAMPLING of the January 1 - March 31, 1992 Quarterly Report for details on sample size, etc.), the farmer operating each validation field was asked the size of the field. This size was compared to what the farmer had reported during the January 1992 Rabi Area survey. In addition, the enumerator measured each validation field giving a third measurement of field size. In nearly all cases, the size of the field reported by the farmer during the validation survey was the same or almost identical to what he had reported during the January survey. Likewise, the measured size of the field did not differ greatly from that reported by the farmer. Two yields per hectare were computed - one based on the "farmer reported area" at the time of the validation survey and one based on the "enumerator's measured area" at the time of validation survey.

Over all seven districts in the validation survey, the wheat yield (utilized farmer's yield) computed to 2,405 kilograms per hectare based on farmers reported area and 2,459 kilograms per hectare based on the enumerator's measured area. These validation yields averaged about 9 percent above the comparable data reported by the VMS and about 16 percent less than the yield indicated by the ASF based objective yield survey. The preliminary results of the validation survey are shown in Appendix 2.

4. SAMPLING:

As mentioned in Item 2 of this report, stratification and digitization of the Sindh Province and NWFP was completed during the last quarter and preparations got underway immediately for sample segment selection. Dr. Charles Perry, Mathematical Statistician from the National Agricultural Statistics Service, United States, came to Islamabad in November of this quarter to

GOVERNMENT OF PAKISTAN
FEDERAL BUREAU OF STATISTICS
AGRICULTURAL DATA COLLECTION CELL
ISLAMABAD

TABLE 1: JANUARY, 1993 ASF RABI ACREAGE SURVEY CALENDAR.

TARGET DATE	ACTUAL DATE	A C T I V I T Y
15-10-92	18-10-92	Survey calendar completed.
20-10-92	18-10-92	Draft questionnaire circulated for comments.
25-10-92	02-10-92	Draft instructions manual for enumerators prepared.
05-11-92	12-11-92	Questionnaire finalized/approved.
07-11-92	12-11-92	Manual of Instructions for enumerators, quality assurance proforma and instructions finalized/approved.
08-11-92	23-11-92	Questionnaire and segment control forms A & B and instructions manual for enumerators sent for printing.
10-12-92	12-12-92	Training material and questionnaires ready/printed.
15-12-92	23-12-92	Project coordinators/Directors notified of training dates/time location.
15-12-92	<u>1/</u>	Data entry/edit/summary procedures installed at processing centers.
03-01-93	<u>1/</u>	Enumerators training completed in Sindh.
05-01-93	<u>1/</u>	Enumerators training completed in Punjab.
07-01-93	<u>1/</u>	Enumerators training completed in Balochistan.
10-01-93	<u>1/</u>	Survey work started.
15-01-93	<u>1/</u>	25 % field work completed.
18-01-93	<u>1/</u>	25 % data entry completed.
21-01-93	<u>1/</u>	Quality control completed.
25-01-93	<u>1/</u>	75 % field work completed.
28-01-93	<u>1/</u>	75 % data entry completed.
31-01-93	<u>1/</u>	All field work completed.
03-02-93	<u>1/</u>	100 % data entry completed.
08-02-93	<u>1/</u>	Clean edited data in the processing centers.
11-02-93	<u>1/</u>	Clean edited data in Islamabad
14-02-93	<u>1/</u>	Summaries completed
18-02-93*	<u>1/</u>	Sample selection for OY survey of 1993 wheat crop and stickers printed and ready for OY schools.

* The first 1993 wheat OY field visit is March 1-10 and samples must be ready in time for the enumerators training schools.

1/ To be printed in the January - March, 1993 Quarterly Report.

determine the sample size and allocation of the sample of segments for both the Sindh Province and NWFP (Dr. Perry had selected the Punjab sample segments in June, 1992).

Dr. Perry, working in conjunction with members of the ADC Cell, selected a sample of 1,096 segments for the Sindh Province and 694 segments for NWFP. This gave a total of 4,280 segments for the entire country as follows:

Province	Number of sample segments
Balochistan	460
Punjab	2,030
Sindh	1,096
NWFP	694

Pakistan	4,280

See page 3 of the April 1 - June 30, 1992 Quarterly Report for a detailed description of the sampling procedures used.

Dr. Perry's Trip Report, documenting how he determined the sample sizes and allocated the samples of segments to the Punjab and Sindh Provinces and NWFP is not attached due to its length. However, copies of this report are available from the ADC Cell or the ADC Project office. A copy of Dr. Perry's Scope of Work is shown by Appendix 3.

5. GOVERNMENT OF PAKISTAN:

No special requests were made for Government of Pakistan support during this quarter.

6. TRAINING:

No special training during the quarter but preparations were being made for the 1993 Rabi Area survey enumerator schools scheduled for early January.

7. CONSULTATION:

TDY'er Dr. Charles Perry determined the segment sample sizes and allocated the sample segments for Sindh Province and the NWFP during this quarter (see Item 4, SAMPLING of this report).

TDY'er Mr. Gary Keough arrived Islamabad on November 9 to write the computer programs for summarizing data to be collected from sample segments in each of the four provinces. These programs were written to summarize the data first to district, then to division (which is comprised of more than one district), then to province and finally to the National level. Mr. Keough's Scope of Work is shown by Appendix 4.

The Team Leader was invited to make an ASF presentation to the Prime Minister's Committee for Research and Analysis. The presentation was made on November 3 and was well received by members of the committee.

In addition, the Team Leader made three ASF presentations to provincial officials during the quarter. Members of the Federal Bureau of Statistics also participated in these meetings since all of them included discussions about future survey plans and problems that need resolution in order to meet the project objectives.

The meetings were held with the following officials:

Mr. Zulfiqar Ali Khan, D.G.,
Balochistan Dept. of Agricultural, October 15

Mr. Badar-ud-din Somro, D.G.,
Sindh Dept. of Agricultural, November 7

Mr. Shahzado Sheikh, Secretary,
Sindh Dept. of Agricultural, December 15

8. DELIVERABLES FOR THE QUARTER:

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

- o ASF sample segments selected for Sindh Province and NWFP by October 31, 1992.
- o January ASF survey calendar prepared by 29 October 1992.
- o Maize and rice OY survey results finalized by 13 December, 1992.
- o Provinces should provide space for establishing OY laboratories by the date specified.

Province	Date
Balochistan	July 1992
NWFP	Oct-Nov 1992
Sindh	Oct-Nov 1992
Punjab	Oct-Nov 1992

- o October - December Quarterly Report presented by January 31, 1992.

The sample segments were selected for the Sindh Province and the NWFP in November, a little later than called for by the workplan since the TDY'er could not arrive until November 9.

Maize OY data were still being received when the quarter ended, so these data are not shown in this report but instead will be shown in the January - March Quarterly Report.

Provinces had found space for the OY laboratories as this quarter ended. However, none of the space had been renovated, wired, furnished, etc. However, its anticipated that this will be done soon.

The October - December Quarterly Report was presented a little later than specified by the workplan due to the press of other project activities.

All other deliverables for the quarter were met.

RICE OBJECTIVE YIELD SUMMARY 1992 (PLOT 1)

	AREA		LOSSES		LOSSES	
	HECTARES	C.V (%)	KG/HECT.	C.V (%)	M. TONNES	C.V (%)
Pakistan	557,678	4.8	3,507	3.6	1,955,985	6.0
Punjab	270,677	6.3	2,992	5.3	809,819	8.2
Faisalabad	16,474	33.3	2,318	5.7	38,181	33.9
Jhang	27,653	20.0	1,832	11.5	50,650	23.2
Sheikhupura	226,550	6.7	3,182	5.9	720,988	8.9
Sindh	287,001	7.2	3,994	5.0	1,146,167	8.8
Nawabshah	37,085	15.5	3,444	9.8	127,703	18.4
Larkana	218,964	8.6	4,210	5.9	921,837	10.4
Hyderabad	30,953	21.4	3,122	11.5	96,627	24.4

RICE OBJECTIVE YIELD SUMMARY 1992 (PLOT 2)

	AREA		LOSSES		LOSSES	
	HECTARES	C.V (%)	KG/HECT.	C.V (%)	M. TONNES	C.V (%)
Pakistan	557,678	4.8	3,408	4.2	1,900,510	6.4
Punjab	270,677	6.3	2,976	5.2	805,474	8.2
Faisalabad	16,474	33.3	2,469	6.2	40,667	34.0
Jhang	27,653	20.0	1,871	10.0	51,735	22.4
Sheikhupura	226,550	6.7	3,148	5.9	713,071	8.9
Sindh	287,001	7.2	3,815	6.2	1,095,036	9.5
Nawabshah	37,085	15.5	3,490	9.1	129,415	18.0
Larkana	218,964	8.6	4,001	7.6	876,148	11.5
Hyderabad	30,953	21.4	2,891	11.8	89,472	24.6

RICE OBJECTIVE YIELD SUMMARY 1992 (PLOT 1 & 2 COMBINED)

	AREA		LOSSES		LOSSES	
	HECTARES	C.V (%)	KG/HECT.	C.V (%)	M. TONNES	C.V (%)
Pakistan	557,678	4.8	3,458	3.7	1,928,248	6.0
Punjab	270,677	6.3	2,984	4.8	807,647	7.9
Faisalabad	16,474	33.3	2,393	5.0	39,424	33.8
Jhang	27,653	20.0	1,851	10.5	51,193	22.7
Sheikhupura	226,550	6.7	3,165	5.3	717,030	8.5
Sindh	287,001	7.2	3,905	5.3	1,120,601	8.9
Nawabshah	37,085	15.5	3,467	9.3	128,559	18.2
Larkana	218,964	8.6	4,106	6.3	989,992	10.7
Hyderabad	30,953	21.4	3,006	11.4	93,050	24.4

- (Continued) -

RICE POST HARVEST LOSS SUMMARY 1992 (PLOT 1)

	AREA		LOSSES		LOSSES	
	HECTARES	C.V (%)	KG/HECT.	C.V (%)	M. TONNES	C.V (%)
Pakistan	557,678	4.8	32	9.1	18,118	10.3
Punjab	270,677	6.3	50	10.9	13,594	12.6
Faisalabad	16,474	33.3	48	18.1	784	38.4
Jhang	27,653	20.0	24	22.0	676	30.0
Sheikhupura	226,550	6.7	54	12.1	12,133	13.8
Sindh	287,001	7.2	16	15.8	4,525	17.4
Nawabshah	37,085	15.5	31	24.2	1,139	29.0
Larkana	218,964	8.6	13	22.5	2,885	24.1
Hyderabad	30,953	21.4	16	24.0	501	32.5

RICE POST HARVEST LOSS SUMMARY 1992 (PLOT 2)

	AREA		LOSSES		LOSSES	
	HECTARES	C.V (%)	KG/HECT.	C.V (%)	M. TONNES	C.V (%)
Pakistan	557,678	4.8	43	9.9	24,016	11.0
Punjab	270,677	6.3	73	11.8	19,647	13.4
Faisalabad	16,474	33.3	42	16.8	686	37.8
Jhang	27,653	20.0	32	23.2	889	31.0
Sheikhupura	226,550	6.7	80	12.8	18,072	14.4
Sindh	287,001	7.2	15	12.8	4,369	14.8
Nawabshah	37,085	15.5	44	19.6	1,624	25.2
Larkana	218,964	8.6	10	20.1	2,727	21.9
Hyderabad	30,953	21.4	17	21.1	518	30.4

RICE POST HARVEST LOSS SUMMARY 1992 (PLOT 1 & 2 COMBINED)

	AREA		LOSSES		LOSSES	
	HECTARES	C.V (%)	KG/HECT.	C.V (%)	M. TONNES	C.V (%)
Pakistan	557,678	4.8	38	8.0	21,067	9.3
Punjab	270,677	6.3	61	9.6	16,620	11.5
Faisalabad	16,474	33.3	45	14.4	735	36.6
Jhang	27,653	20.0	28	19.2	783	28.0
Sheikhupura	226,550	6.7	67	10.5	15,102	12.4
Sindh	287,001	7.2	15	11.7	4,447	13.8
Nawabshah	37,085	15.5	37	17.7	1,382	23.7
Larkana	218,964	8.6	12	17.5	2,556	19.6
Hyderabad	30,953	21.4	16	21.8	509	30.9

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1991-92 WHEAT YIELDS IN KILOGRAMS PER HECTARE

(for 3 districts in the Sindh and 4 districts in the Punjab)

Year	Village Master Sample		Wheat Yield Validation	Objective Yield (Biological)	
	Yield	Percent B(100)/A -100	Yield	Yield	Percent B(100)/C -100
	(A)		(B)	(C)	
			Based on reported area		
1990-91	2,054	+ 14.8	2,358 <u>1/</u>	2,580	- 8.6
			Based on reported area		
1991-92	2,226	+ 8.0	2,405 <u>2/</u>	2,883	- 16.6
			Based on measured area		
	2,226	+ 10.5	2,459 <u>2/</u>	2,883	- 14.7

1/ Based on 47 pilot survey sample fields

2/ Based on 156 full scale survey sample fields

DR. CHARLES PERRY'S SCOPE OF WORK
For
Determining Sample Sizes and Selecting
Sample Segments for the Sindh Province and N.W.F.P.

(Three Week TDY)

Dr. Charles Perry, from the National Agricultural Statistics Service, was on TDY to the Agricultural Data Collection (ADC) Project Office earlier this year to determine the sample size and select sample segments for the Punjab Province.

We are requesting that Dr. Perry return to the Project on November 6, 1992 for a three week TDY to determine the sample sizes and select sample segments for NWFP and the Sindh Province. He will also document the sample selection procedures in a Trip Report. In addition, Dr. Perry will provide the necessary mathematical formulations to a second TDY, who will be here at the same time, for writing the computer programs for summary of the data to be collected from the sample segments in each of the four provinces.

In summary, this TDY will be expected to:

- a) Determine the sample sizes and select the sample segments for the Sindh Province and NWFP.
- b) Write a Trip Report providing full detail on procedures used for determining the sample sizes and selecting the samples.
- c) Provide the necessary mathematical formulations to a TDY programmer that will be here at the same time, so that the programmer can write the computer programs required for summarizing the data collected from sample segments in each of the four provinces.

MR. KEOUGH'S SCOPE OF WORK
For
Writing Computer Programs for Summarizing Data
Collected from Sample Segments in Each of the
Four Pakistan Provinces

(Three Week TDY)

Sample segments have already been selected for Balochistan and Punjab Provinces and a TDY from the National Agricultural Statistics Service (NASS) will arrive in the ADC Project Office on November 6, 1992 to determine the sample sizes and select the sample segments for Sindh Province and N.W.F.P..

Current plans are to conduct a full province Rabi acreage survey in Balochistan in January 1993 and in all provinces by no later than January 1994. This means that computer programs to summarize these data must be written.

Therefore, we are requesting that a TDY from NASS come to the ADC Project Office on November 6 to write these computer programs. This TDY will work in conjunction with Dr. Charles Perry from NASS who will be in the Project Office during the same period. Dr. Perry will be determining the sample sizes and selecting the sample segments for the Sindh Province and for N.W.F.P.. He will also provide the necessary mathematical formulations to the computer programmer for summarizing the data.

In Summary, this TDY will be expected to :

- 1) Write computer summary programs for summarizing data collected from sample segments in each of the four provinces.

These programs will be required to summarize the data first to district, then to division (which is made up of more than one district), then to Province and finally to the National level.

- 2) Document the programs that are written so they can be executed by the Pakistan Federal Bureau of Statistics computer specialist.
- 3) Write a Trip Report documenting his (or her) accomplishments.

Oct - Dec, 1992 COMMODITY UTILIZATION
VEHICLE

VEHICLE TYPE	NUMBER	LOCATION	**** KILOMETERS *****		ASSESS- MENT OF USAGE	COMMENTS
			BEGINNING QUARTER	ENDING QUARTER		
PAJERO JEEP	7276	FBS/ISLAMABAD	87,351	91,721	4,370	FULLY USED
PAJERO JEEP	400205	FBS/ISLAMABAD	11,454	18,380	6,926	FULLY USED
PAJERO STAWGN	400766	FBS/LAHORE	115,630	120,384	4,754	FULLY USED
PAJERO STAWGN	400832	FBS/LAHORE	110,381	117,596	7,215	FULLY USED
LAND CRUISER	16326	AG DEPT/HYD	261,544	272,133	10,589	FULLY USED
PAJERO JEEP	400548	AG DEPT/HYD	199,917	N/A		FULLY USED
PAJERO STAWGN	400834	AG DEPT/HYD	256,189	N/A		FULLY USED
LAND CRUISER	16577	AG DEPT/LHR	282,734	294,766	12,032	FULLY USED
PAJERO JEEP	400345	AG DEPT/LHR	224,335	237,552	13,217	FULLY USED
PAJERO STAWGN	400833	AG DEPT/LHR	205,037	219,127	14,090	FULLY USED
PAJERO JEEP	401097	AG DEPT/LHR	76,282	93,936	17,654	FULLY USED
PAJERO JEEP	400318	AG DEPT/PESH	138,757	145,326	6,569	FULLY USED
PAJERO JEEP	40033	AG DEPT/QUE	84,159	85,809	1,650	FULLY USED
PAJERO STAWGN	400835	AG DEPT/QUE	66,360	68,200	1,840	FULLY USED
HI ACE	2995	ADC OFFICE	67,982	68,608	626	AD 64 405
PAJERO JEEP	401013	ADC OFFICE	68,857	77,247	8,390	AD 64 556
PAJERO JEEP	401094	ADC OFFICE	13,789	20,397	6,608	AD 64 651
PAJERO STAWGN	400204	ADC OFFICE	102,188	105,982	3,794	AD 64 486

Oct - Dec, 1992 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
Total	50

- (Continued) -

Oct - Dec, 1992 COMMODITY UTILIZATION
(COMPUTERS)

EQUIPMENT	QUANTITY	USER	LOCATION	USAGE
PC-AT & MONITOR	6	STATISTICS DIVISION	ISLAMABAD	FULLY USED
PRINTER	6			
PC-AT & MONITOR	12	ADC/FBS	ISLAMABAD	FULLY USED
PRINTER	12			
PC-AT & MONITOR	2	AG DEPT	HYDERABAD	FULLY USED
PRINTER	2			
PC-AT & MONITOR	3	AG DEPT	PESHAWAR	FULLY USED
PRINTER	3			
PC-AT & MONITOR	2	AG DEPT	QUETTA	FULLY USED
PRINTER	2			
AST-386 SX & MONITOR	1	AG DEPT	QUETTA	FULLY USED
DESKJET 500 PRINTER	1	AG DEPT	QUETTA	FULLY USED
UPS	1	AG DEPT	QUETTA	FULLY USED
PC-AT & MONITOR	4	FBS	KARACHI	FULLY USED
PRINTER	4			
PC-AT & MONITOR	12	PISTAR	LAHORE	FULLY USED
PRINTER	12			
PC-AT & MONITOR	3	CRS	LAHORE	FULLY USED
PRINTER	3			
DESKJET 500	1	CRS	LAHORE	FULLY USED
UPS	1	CRS	LAHORE	FULLY USED
HP VECTRA QS-16S/PC	2	ADC/FBS	ISLAMABAD	FULLY USED
& MONITOR				
PRINTERS	2	ADC/FBS	ISLAMABAD	FULLY USED
TOTAL COMPUTER SYSTEMS	:	47		
TOTAL MONITORS: COLOR	:	23		
MONOCHROME	:	24		
TOTAL PRINTERS	:	48		

- (Continued) -

Oct - Dec, 1992 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	1	PUNJAB SINDH	INSTALLED <u>1/</u>
AGFA REPROMASTER 2100 CAMERA	3	1 1 1	FBS/KARACHI PUNJAB SINDH	FULLY USED INSTALLED <u>1/</u>
MICROPROCESSOR PAPER CUTTER	2	1 1	PUNJAB FBS/KARACHI	INSTALLED FULLY USED
NUARC EXPOSURE UNIT	3	1 1 1	FBS/KARACHI PUNJAB SINDH	FULLY USED INSTALLED <u>1/</u>
INTERLAKE STITCHER	2	1 1	PUNJAB SINDH	INSTALLED <u>1/</u>

1/ In process of installation.

- (Continued) -

Oct - Dec, 1992 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
OVERHEAD PROJECTOR	1	ADC	HYDERABAD	FULLY USED
OVERHEAD PROJECTOR WITH SCREEN	1	ADC	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 (IN DOLLARS) 1/ 2/

Budget Element	Budget Jul92-Jun93	Jul-Sep 1992	Oct-Dec 1992	Jan-Mar 1993	Apr-Jun 1993	Cumulative	Percen of Blidg
TECHNICAL ASSISTANCE							
Long term	168,300	36,000	36,100			72,100	
Short Term	135,675	0	35,500			35,500	
Backstopping	37,002	6,055	6,540			12,595	
Study Tour	14,323	0	0			0	
Equip., Supplies & Commodities	42,572	500	500			1,000	
SUB-TOTAL	397,872	42,555	78,640			121,195	30.5
FEDERAL BUREAU OF STATISTICS							
Pay and allowances of Staff	22,654						
Travelling allowances	23,077						
ASF operating cost	40,231						
Commodities and services	10,923						
Local training	0						
Purchase, repair and maintenance of D/Goods	12,500						
SUB-TOTAL	109,385 <u>3/</u>	<u>4/</u>	<u>4/</u>	<u>4/</u>	<u>4/</u>	<u>4/</u>	<u>4/</u>
PROVINCIAL GOVERNMENTS							
Pay and allowances of Staff	236,962						
Travelling allowances	28,269						
ASF operating cost	0						
Commodities and services	33,615						
Local training	0						
Purchase of durable goods	13,731						
Repair and maintenance of D/Goods	14,192						
SUB-TOTAL	326,769 <u>3/</u>	<u>4/</u>	<u>4/</u>	<u>4/</u>	<u>4/</u>	<u>4/</u>	<u>4/</u>
LOGISTIC SUPPORT SERVICES							
ADC Office Staff	64,981	14,332	15,520			29,852	
Telephone	4,356	1,108	1,825			2,933	
Office supplies	2,904	473	2,392			2,865	
Travel and Transportation	28,619	3,518	4,987			8,505	
Vehicles Operating Expenses	36,950	157	414			571	
Computer Maintenance	0	0	0			0	
Other cost	0	6,282	9,732			16,014	
SUB-TOTAL	137,810	25,870	34,870			60,740	44.1
GRAND TOTAL	971,836						<u>5/</u>

1/ All values include appropriate overhead.

2/ Recent quarterly figures are preliminary and may be changed as data become final.

3/ Actual allocation.

4/ Quarterly and Cumulative figures can't be accurately computed because of differences in USAID and GOP accounting procedures.

5/ Not available.

AGRICULTURAL DATA COLLECTION PROJECT LONG TERM CONSULTANTS

Name	Arrival	Departure	Days	Person Months	Person 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 I/

Name	Arrival	Departure	Person Days	Category	Subject	Number of man Month
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	Admin-OICD	PASA Funding Mechanism	0.33
G. Eric Waldhaus	04-Nov-85	19-Nov-85	16	Training	ASF Construction	0.53
Larry A. Sivers	04-Nov-85	12-Dec-85	39	Training	ASF Construction	1.30
Josephine S. Wallace	11-Nov-85	15-Dec-85	34	Training	ASF Construction	1.13
Roger D. Latham	16-Jan-86	30-Jan-86	14	Consulting	Assembling Microcomputers	0.47
Josephine S. Wallace	17-Mar-86	07-Apr-86	21	Training	ASF Construction	0.70
Kriss S. Oswalt	06-Apr-86	24-Apr-86	18	Training	Intro. Microcomputer Workshop	0.60
FY 85-86 TOTAL			191			6.37
Fredrick D. Baker	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	Admin-OICD	AID/ADC/OICD Business	0.33
Ronald Feezo	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. Stepanich	15-Sep-86	01-Oct-86	16	Training	Mainframe SAS	0.53
Ronald A. Sadler	08-Jan-87	26-Jan-87	18	Training	Intro. Microcomputer Workshop	0.60
Mark Harris	19-Jan-87	01-Feb-87	13	Consulting	Select ASF 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. Stepanich	26-Mar-87	18-Apr-87	23	Training	PC SAS	0.77
Larry A. Sivers	01-Jun-87	09-Jun-87	8	Admin-NASS	Support for Resident Advisors	0.27
Ralph Otto	01-Jun-87	09-Jun-87	8	Admin-OICD	AID/ADC/OICD Business	0.27
FY 86-87 TOTAL			286			9.53
Jewell T. Barr	14-Sep-87	29-Sep-87	15	Consulting	ACO Methodology Review	0.50
Mark Harris	14-Sep-87	07-Oct-87	23	Consulting	ACO Methodology Review	0.77
Montie 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. Stepanich	17-Sep-87	08-Oct-87	21	Consulting	Computer programming 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 Rovinski	09-Nov-87	22-Nov-87	13	Consulting	Computer Mod. and Exp. Study	0.43
Dwaine Nelson	01-Feb '88	27-Feb-88	26	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. Stepanich	31-Mar-88	23-Apr-88	23	Training	PC SAS	0.77
FY 87-88 TOTAL			266			8.87

- (Continued) -

AGRICULTURAL DATA COLLECTION PROJECT - SHORT TERM CONSULTANTS 1/

Name	Arrival	Departure	Person Days	Category	Subject	Number of man Month
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. Klugh,	07-Jan-89	26-Jan-89	19	Training	Primary Data Collection Methods	0.63
Paul W. Cook	07-Jan-89	26-Jan-89	19	Training	Primary Data Collection Methods	0.63
Larry A. Sivers	30-Jan-89	13-Feb-89	14	Admin-NASS	Support for Resident Advisors	0.47
James Mark Harris	12-May-89	26-May-89	14	Training	Digitization	0.47
Martin Ozga	12-May-89	26-May-89	14	Training	Digitization	0.47
FY 88-89 TOTAL			120			4.00
Larry A. Sivers	30-Jul-89	19-Aug-89	20	Admin-NASS	Prel. Work for New Agreement	0.67
T. J. Byram	30-Jul-89	19-Aug-89	20	Admin-NASS	Prel. Work for New Agreement	0.67
Larry A. Sivers	03-Nov-89	24-Nov-89	21	Admin-NASS	Prel. Work for New Agreement	0.70
James Mark Harris	13-Nov-89	08-Dec-89	25	Training	SPOT Stratification Training	0.83
Robert L. Addison	27-Nov-89	15-Dec-89	18	Consulting	Objective Yield Review	0.60
James Mark Harris	19-Jan-90	07-Feb-90	19	Training	SPOT Stratification Training	0.63
Robert L. Addison	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	16-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
FY 89-90 TOTAL			206			6.87
Paul W. Cook	31-May-91	20-Jun-91	20	Consulting	Balochistan Sample Selection	0.67
Tom Birkett	12-Jul-91	26-Jul-91	14	Consulting	Wheat Plot Size Study	0.47
Ray Halley	08-Jul-91	26-Jul-91	18	Consulting	OY Program for Wheat, Rice, Cott	0.60
Fred Warren	02-Aug-91	16-Aug-91	14	Consulting	Livestock and Poultry	0.47
Larry Sivers	25-Oct-91	08-Nov-91	14	Admin-NASS	Support for Resident Advisor	0.47
Tom Birkett	29-Dec-91	16-Jan-92	18	Consulting	Wheat Yield Forecast Model	0.60
FY 90-91 TOTAL			98			3.27
Terry O'Connor	21-Feb-92	13-Mar-92	21	Consulting	ASF Questionnaire Design	0.70
Tom Birkett	20-Apr-92	12-May-92	22	Consulting	Wheat & Cotton OY Model	0.73
Charles R. Perry	05-Jun-92	25-Jun-92	20	Consulting	Sample Allocation	0.67
Charles R. Perry	09-Nov-92	04-Dec-92	25	Consulting	Sample Allocation	0.83
Gary Keough	09-Nov-92	04-Dec-92	25	Consulting	Summary Programs	0.83
			97	Admin-NASS		
			28	Admin-OICD		
			410	Consulting		
			39	Initiate Project		
			630	Training		
TOTAL	ON DAYS		1204			
TOTAL	MONTHS		40.13			

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