### SAFGRAD PROGRAMME ASSESSMENT

GUIDE FOR THE COLLECTION AND TRANSMITTAL OF THE ASSESSMENT DATA.

The tables and other formats, as well as the procedures for the collection and analysis of the information needed for the SAFGRAD Programme Assessment, were developed by the Assessment Team assembled by AID for this purpose, in collaboration and with the concurrence of: a) the Steering Committees of the four commodity networks; b) the representatives of the IITA and ICRISAT research centres; c) the Network Coordinators and d) the SAFGRAD Coordination Office (SCO). In turn, the Assessment Team consisted of: the SAFGRAD Research Director; a Senior Agricultural Economist, and a USAID Research Analyst.

- 1. The basic unit of data collection will be the NARS Scientists, who thus constitute the respondents. Each table has a space for the scientist's (respondent's) name.
- 2. Data collection forms will be sent to one NARS contact person for each crop in each country, who will be responsible for their distribution and retrieval when completed. The contact person would normally be the country coordinator.
- 3. The NARS contact person will then send the forms to all of the scientists in the country that are engaged in research on the commodity in question. The contact person may also fill a set of forms.
- 4. As soon as possible after receiving the forms from the contact person, the respondent will be visited by the contact person and by the Assessment Team.
- 5. The respondent should forward the completed forms back to the contact person by August 15, 1992.
- 6. The contact person will in turn send the forms back to the Network Coordinator who would be responsible for forwarding them to the Assessment Team for complilation and analysis.
- 7. All experiments that have been completed on the crop should be included in the data collection forms, whether supported by SAFGRAD or not.
- 8. Only the experiments on which the respondent worked or for which he or she had responsibility, should be reported. The non-applicable tables should be left blank.
- 9. When the information requested is not directly obtainable by the respondent (such as on-farm trials or seed multiplication and distribution), as when the activities are carried out by other units or institutions, the respondent should either collect the information through his/her contacts elsewhere, or inform the Contact Person immediately, in order to ensure follow-up and completion of the forms.

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- 10. There are 10 tables. a) the first 4 track the flow of germplasm from all sources, indicating its destination for each stage of development, right up to on-farm demonstrations; b) tables 5 and 6 track all other experiments, including agronomy, entomology, pathology, post harvest, etc. both on-station and onfarm, respectively; c)tables 7 and 8 track yield increases of the best potential variety per year in advanced and on-farm yield trials, respectively; d)table 9 tracks technologies, varieties, and packages released to farmers; and e) table 10 tracks seed multiplication and distribution.
- 11. Respondents may need to send Tables 6, 8 and 9 to an on-farm unit or farming systems unit, and Table 10 to a seed multiplication unit, or to NGOs involved in this activity.
- 12. The completion of some of the tables may require some time to look into backlog of research records, field data books, and National Annual or Biannual Commodity Research Progress Reports. The data requested will be essential for justifying future donor support to Agricultural Research in sub-Saharan Africa.
- 13. The earliest year for which data should be provided will depend on the initiation of each country's national programme. Some national programmes did not begin until the mid 1980s, while others have been in existance since the 1970s. In any event, data collection for the SAFGRAD Programme Assessment should date back to 1982, whenever possible, given that the period of reference of the exercise is 1982-1992.

July 20, 1992.

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## GUIDE FOR FILLING TABLES 5 AND 6

### Agronomic Trials

. Dates of planting

. Plant population density

. Weed control

Control of parasitic weeds
Mineral fertilizers
Organic fertilizers

. Crop rotation

. Crop harvesting techniques

. Maize-cowpea relay cropping

. Sorghum-cowpea intercropping . Alley cropping

. Millet-cowpea intercropping

. Fertilization in mixed

cropping

. Soil tillage (hand-hoeing, animal and tractor ploughing)

. Zero-tillage, zero-tillage with

in situ mulch . Tied ridging

. Management of terraces

. Cropping on contour lines

. Agronomic production

package

. Integrated crop management

. Mixed farming (crop and

livestock raising)

# Entomological trials and bird control

. Bionomics of insect pests

. Insect pest population dyanamics

. Evaluation of yield losses due

to insect pests
. Host-plant insect pest resistance

. Minimum insecticide treatment

. Chemical control of insect pests

. Biological control of insect

pests

. Cultural control of insect

pests

. Insect repellant .

. Bird control

### Pathological Trials

. Biology of pathogenes

. Disease epidemics

. Evaluation of losses due to

diseases.

. Host plant resistance studies

. Biological control . Cultural control

. Chemical control

# Processing and handling of post-harvest produce

. Threshing techniques

. Storage techniques and

structures

. Processing of produce for:

.. human food

.. animal feed

. Post-harvest losses

. Coditioning of produce

for marketing.

.. pure flour

.. substitute flour

.. composite flour (or

mixed flour).

Scientist Name:	Cou	ntry:	•	
Names of Research Field Stations or Loc	cations where you plant trials or perform	experiments:		
1.	2.	3.	4.	
5.	6.	7.	8.	
			<del></del>	

5. 6.				7.				8.	-		
Activities	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Local Germplasm Collection & Evaluation	s × 1	<u> </u>									
Number of accessions collected & planted										*	
Number of accessions selected				2782 (2888)			2		8 2. <u>1 </u>		
Number of selections later used in breeding program			<u> </u>								
Number of selections promoted to yield trials											
2. Introduced Germplasm			<u>. </u>							· .	
2.1 International Germplasm Trials from ICRISAT									*		<u> </u>
Number of trials			<u> </u>								
Total number of ICRISAT entries planted				1 S						A Y	
Total number of entries selected from all trials											
Number of selections later used in breeding program	<u> </u>		1								
Number of selections promoted to yield trials											
2.2 SAFGRAD Regional Trials											
Total number of entries selected from all trials		!									
Number of selections later used in breeding program			_								
Number of selections promoted to yield trials									ļ <u>.</u>		
2.3 Bilateral introductions directly from other NARS		<u> </u>						<u> </u>	· · · - · · · · · · · · · · · · · ·		
Name the NARSs*											
										· · · · · · · · · · · · · · · · · · ·	
Total number of other NARS accessions planted											,
Number of accessions selected		<u> </u>	*								
Number of these selections used in breeding program							<u> </u>				<u> </u>
Number of selections promoted to yield trials											
3. Accessions/Lines Contributed to Others										-	
Number of Accessions/Lines you sent to ICRISAT											<u> </u>
Number of Accessions/Lines you sent to SAFGRAD		1			,		_	<u> </u>			
4. Breeding Crosses/Nurseries			<u> </u>		ļ	<u> </u>		<u></u>	. :		
Constraint:	_	<u></u>					ļ				
Number of crosses made					<u> </u>	<u> </u>		-	1		
Number of entries planted in nursery											
Number of entries selected		<u> </u>							9 3		
Number of progenies promoted to yield trials Name of NARSs*: BI=Burundi, BA=Botswana, BN=Benin, BF=Burkina Faso, CM									<u></u>	<u></u>	<u> </u>

Name of NARSs\*: Bl=Burundi, BA=Botswana, BN=Benin, BF=Burkina Faso, CM=Cameroon, CR=C;AR., Cl=Cote d'Ivoire, CV=Cape Verde, ET=Ethopia, GA=Gambia, GH=Ghana, GN=Guinea, GB=Guinea Bissau, KE=Kenya, Mi=Mail, MN=Mauritania, NI=Niger, NA=Nigeria, SE=Senegal, SL=Sterra Leone, SO=Somalia, SU=Sudan, TC=Tchad, TZ=Tanzania, TO=Togo, ZM=Ambia, UG=Uganda

Sources of Information used to fill this table:

SORGHUM

Germplasm Flow

Table 2

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Scientist Name:	Country:			-	]						
Activities	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
4. Breeding Crosses/Nurseries (continued from table 1)											
Constraint*:					ļ		<u> </u>				
Number of crosses made						7.4					70.00 Yes 5.40
Number of entries planted in nursery											
Number of entries selected:		1					( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	49		28.28	
Number of progenies promoted to yield trials			<u> </u>		ļ	<u> </u>				•	
Constraint:						1,500		1 19			
Number of crosses made	<u> </u>						ļ	<del> </del>			
Number of entries planted in nursery				11 84	-	3.4		v		://-/	
Number of entries selected						1	<u> </u>		<u>'</u>		
Number of progenies promoted to yield trials		1			<u> </u>	<u> </u>	<u> </u>			·	
Constraint:			ļ <del></del>			ļ. <u>-</u> .	]				
Number of crosses made	ļ					ļ ·	ļ				<u> </u>
Number of entries planted in nursery		1		1.				<u> </u>	ļ		
Number of entries selected			<u> </u>	<u> </u>		<u> </u>					<u> </u>
Number of progenies promoted to yield trials			1					<u> </u>	<u> </u>		ļ
Constraint:			ļ		<u> </u>	<u> </u>	ļ	1	ļ <u>.</u>		
Number of crosses made						<u> </u>					ļ <u></u>
Number of entries planted in nursery			<u> </u>	ļ			ļ	<u> </u>			-
Number of entries selected					<u> </u>			ļ	ļ. <u> </u>		
Number of progenies promoted to yield trials								ļ			
Constraint:			ļ. <u>.</u>	<u> </u>		ļ			ļ	<u> </u>	
Number of crosses made					1	<u> </u>			<u> </u>		<u> </u>
Number of entries planted in nursery			ļ	<u> </u>	<u> </u>		.		ļ. <u></u>		<del> </del>
Number of entries selected					<u> </u>	<del> </del>	<u> </u>		.	<u> </u>	
Number of progenies promoted to yield trials  Constraint:			ļ. <u>.</u>			ļ	<u> </u>		1	i disemployati a	and a second
Constraint:	i Digitalia	** ***	*******		mig nagica a	n conjunction		1.0616	**************************************	3.0000000000000000000000000000000000000	
Number of crosses made						ļ <u></u>	<u> </u>	-	<u> </u>		
Number of entries planted in nursery	·		<u> </u>		ļ	<u> </u>	ļ		<u> </u>	337	<u> </u>
Number of entries selected				1					ļ <u>.</u>	<u> </u>	<u> </u>

Number of progenies promoted to yield trials

\* Constraints Examples: Earliness, Insect/Disease Resistance, Drought Tolerance, Yield Potential, Processing, Utilization, Micronutrient Deficiency, etc...

Sources of Information used to fill this table:

Number of progenies promoted to yield trials

Number of entries planted in nursery

Number of crosses made

Number of entries selected

Constraint:

EARSAM Network SORGHUM

Germplasm Flow

Table 3

Scientist Name:	Country:				]						
Activities	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
4. Breeding Crosses/Nurseries (continued from table 2)		V 3				7 2 7 5 %		( / )-30-30-0			
Combined Constraints:											
Number of crosses made		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Number of entries planted in nursery			· · · · · · · · · · · · · · · · · · ·								
Number of entries selected						882 335	1.000 F 200				4.4754
Number of progenies promoted to yield trials											
Combined Constraints:					*						
Number of crosses made											
Number of entries planted in nursery		••			, ,						
Number of entries selected											
Number of progenies promoted to yield trials								\$ 1545 \$ 145.			
Combined Constraints:											
Number of crosses made							ļ <u>.</u>				
Number of entries planted in nursery						<u> </u>	ļ. <u>.</u>				
Number of entries selected						1			7 7		
Number of progenies promoted to yield trials		, 	<u> </u>				<u> </u>		<u> </u>		
5. Preliminary Yield Trials						h					
Number of trials									<u> </u>	ļ	
Total number of entries planted									3,3		
Number of entries selected										ļ 	
Number of entries promoted to advanced yield trials	ļ <u></u>					ļ	<u> </u>	<u> </u>	NO 68 1		
6. Advanced Yield Trials	ļ .					<u> </u>	<u> </u>			<u></u>	
Number of trials					<u> </u>	<u> </u>			- 78.1.1.2	(4)	<u> </u>
Total number of entries planted								<u> </u>			<u> </u>
Number of entries selected					•	,	<u> </u>			A CONTRACT OF	
Number of entries promoted to multilocation yield trials				ļ			ļ				<del></del>
7. Multilocation Trials								<u> </u>			
Number of trials			1	ļ	ļ				- /		
Total number of entries planted						<u> </u>					<u> </u>
Number of entries selected						1 27 4 104			i Propri pri a sasa arabi	A sign skipsift decreases A	
Number of entries promoted to elite variety yield trials				<u> </u>		To the state of th	<u>                                     </u>	1. 5. 4			

Sources of Information used to fill this table:

SORGHUM

Germplasm Flow

Table 4

Scientist Name:	Country:				]		•				
Activities	1982	1983	1984	1985	1986	1987	1988	1989	1990	. 1991	1992
8. Elite Variety Trials			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X							
Number of trials											
Total number of entries planted	` [										
Number of entries selected											
Number of entries promoted to on-farm verification trials				1 - West 8							
9. On Farm Verification Trials									<u></u>		
Researcher Managed			46.0	1							
Number of trials			1		ļ				_	l	1
Total number of entries planted				3.00							
Number of entries selected											
Number of entries promoted to farmer managed yield trials								0.15		opt ya to ja gazar mak	
Farmer Managed	ł			<u> </u>	<u></u>						
Number of trials										2.00	10.7
Total number of entries planted											
Number of entries selected								ų 2		4 - 7	1. 3.
Number of entries promoted to on-farm demonstrations								ļ		<u></u>	<u> </u>
10. On Farm Demonstrations											
Number of variety demonstrations planted	[	ļ		Ì	1			İ		<u> </u>	

Sources of Information used to fill this table:	•	
		•

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Total number of varieties demonstrated

7-19-92

# ON STATION EXPERIMENTS

Table 5

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# Agronomic, Entomology, Pathology, & Other Experiments Completed On Station

Scientist Name:	Country:										••
Activities	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Experiment Name:	1										
Number of trials			\$1.1A		· · · · · · · · · · · · · · · · · · ·						
Number of treatments										_	
Percentage change in yield		A Property of	65 % e	1000	900 5	985	Sal sale		Frank Blokes v	10000000	
Experiment Name:		·									
Number of trials			. 1 794.1 A					Service of the servic	1 2 2		
Number of treatments						,					
Percentage change in yield		14 S. 14	Ø	372			<u> </u>	<b>. .</b>		1. 6. 9815	Aparton M
Experiment Name:	ļ		<u> </u>					-		- Property of the second	With the later later.
Number of trials											
Number of treatments	<u> </u>	<del> </del>	ļ			ļ <b>.</b>				30 00000 1	
Percentage change in yield	<u> </u>		ļ <u> </u>	`		ļ . <u>-</u>					
Experiment Name:	<del> </del>		ļ								
Number of trials		ļ. <u> </u>				ļ.					
Number of treatments		ļ	ļ	ļ		<u> </u>					3.4 .
Percentage change in yield	<u> </u>					1	•				
Experiment Name:		<del>  _</del>	1			<u> </u>					
Number of trials						-	_	<u> </u>		<u>:</u>	:
Number of treatments	<b> </b>	-	<del> </del>	<u> </u>		<del></del>		-			
Percentage change in yield	<del> </del>		<del> </del>			<del></del>		-	<del> </del>		
Experiment Name:	<del></del>			<u> </u>		1				M.J.	,
Number of trials Number of treatments		<del>-</del>	•	<u> </u>				<del></del>	,		
Percentage change in yield		-			<del> </del>	<del>- </del>				. 77.5	<del></del>
Experiment Name:	<del> </del>	<u> </u>	<u> </u>	<del>                                     </del>				<del>                                     </del>			
Number of trials	<del>                                       </del>	<del>- </del>	<del>                                     </del>		··· -	1	<u> </u>	<del> </del>			· · · · · ·
Number of treatments		+	<del>                                     </del>			<del> </del>					
Percentage change in yield	- VIVILEY CARE Y	<del>de andre de de</del>		र राजक गण्डल	78	* ** ***		a car commence	a have and some	•	00 × 00 × 00 × 00 × 00 × 00
Experiment Name:	1	<u> </u>							<del> </del>		
Number of trials	<b>-</b>	1		1 1		<del> </del>				4 26536	\$5x 10 1
Number of treatments			<u> </u>							r	
Percentage change in yield			<del> </del>			1		<u> </u>		300000	
Experiment Name:	<del>-</del>	1					i				
Number of trials			1	<u> </u>							2 10 10 10 10 10 10 10 10 10 10 10 10 10
Number of treatments			<b>T</b>			<u> </u>		1			
Percentage change in yield			n -				2			2.50	<b>***</b>

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# ON-FARM EXPERIMENTS

Table 6

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Agronomic, Entomology, Pathology, & Other Experiments Completed On-Farm

Experiment Name   Number of trials   Number of treatments   Percentage change in yield	Scientist Name:	Country:				]						
Experiment Name:	Activities	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Number of treatments   Fercentage change in yields     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments     Percentage change in yield     Experiment Name:     Number of treatments				<u> </u>								_
Number of treatments   Percentage change in yields	Number of trials				4 July 273							3/4/2
Experiment Name:												
Experiment Name:	Percentage change in yield		***	1.738982		8000 B		2.00	98 4 De 20			
Number of treatments Percentage change in yield Experiment Name: Number of trials Number of trials Number of trials Number of trials Percentage change in yield Experiment Name: Number of trials	Experiment Name:					_						
Percentage change in yield   Percentage cha			1 '	-12 PM				toper pro-	Carlo	11.2		Control Section (Control
Experiment Name:	Number of treatments				<u> </u>		<u> </u>					
Number of trials Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of trials Number of trials Number of trials Number of trials Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments Percentage change in yield Experiment Name: Number of treatments				1	(A.)			1.3			3/60000.3	
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Experiment Name:   Number of trials							1.	ļ	ļ <u></u>			
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Scientist Name:

# SORHGUM

Country:

# **ADVANCED YIELD TRIALS**

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# Yield/Quality Potential of Varieties in Advanced Yield Trials

Year*	Entry Name (List only the Best Variety f yield trial for each year the trial w	Percoreach of t	centage Yield Increase this Variety over Local armers' Best Variety	What Desirable Traits* this Variety was Selected for	of Germplasm for this Variety	Yield Stability Good, Fair, or Poor
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Years*: 1982						

Sources of Information Used to Fill this Table:

<sup>\*</sup> Desirable Traits: Earliness, Insect/Disease Resistance, Drought Tolerance, Yield Potential, Processing, Utilization, Micronutrient Deficiency, etc...

\*\* Sources = Local, SAFGRAD, ICRISAT, Name of NARS within the Network, Name of NARS outside the Network.

Scientist Name:

# SORHGUM

Country:

# ON-FARM YIELD TRIALS

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# Yield/Quality Potential of Varieties in Advanced Yield Trials

Year*	(List on yield trial for e	Entry Name ly the Best Variety for e ach year the trial was	each performed)	Percentage of this Varie	Yield Increase ty over Local Best Variety		What Desirable Train this Variety was Selected for	ts*	Origin of G	al Source(s)* ermplasm for nis Variety	r <b>*</b>	Yield Stability Good, Fair, or Poor
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Years*: 1982	-1992	<del></del>		<u> </u>								

Sources of Information Used to Fill this Table:

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<sup>\*\*</sup> Sources = Local, SAFGRAD, ICRISAT, Name of NARS within the Network, Name of NARS outside the Network.

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# Improved Varieties/Technologies/Packages Released

Table 9

Scientist Name:		Country:			
Year*	Original Name or Designation of Variety or Technology	Variety or Technology Released under What Name in Your Country	Percentage Yield Increase of this Variety/Technology Yield Stability over Local Farmers' Good, Fair Best Variety/Technology or Poor		
1982					
				· . <u>-</u>	
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				* Y * *	
*Years: 19	82-1992			<u> </u>	
Describe	the Variety Release or Technology Recommendation to Farmers Process in your	country here:			
Describe	the Technologies or Packages:				
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SORGHUM<sup>\*</sup>

# Seed Multiplication and Distribution

Table 10

Name of	Person Filling This	Form:	Name of Unit or Group Multiplying	Country:			
Year*	Kilograms of Seed Obtained	Seed Variety Name or Designation	Source Where You Received This Seed From	Kilograms of Seed Produced	Kilograms of Seed Distributed	Price per Kilogram	Number of Recipients
1982							
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Department of Rural Economy and Agriculture (DREA)

African Union Specialized Technical Office on Research and Development

1992

# SAFGRAD PROGRAMME ASSESSMENT, GUIDE FOR THE COLLECTION AND TRANSMITTAL OF THE ASSESSMENT DATA

**AU-SAFGRAD** 

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