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OUA/STRC JOINT PROJECT-31

SEMI-ARID FOOD GRAIN RESEARCH AND DEVELOPMENT

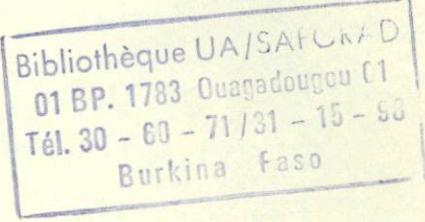
S A F G R A D

SEMI-ARID REGIONAL MAIZE ADAPTATION TESTING

( S A R M A T )

RESULTS AND REPORT

1980



INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE

I.I.T.A.

B.P. 1783, OUAGADOUGOU, (UPPER VOLTA)

2727

15<sup>th</sup> May, 1981

## CONTENTS

	<u>Page n°</u>
Introduction	1 - 2
Objectives	3
Distribution-Collaborators	4 - 9
Materials and Methods	10 - 12
Results	13 - 17
Appendix - Tables (Data)	
Appendix - Procedure for data collection	

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## INTRODUCTION

This report on Semi-Arid Regional Maize Adaptation Testing (SARMAT), summarises the results of various regional maize variety and entomology trials conducted in different SAFGRAD member countries in the year 1980. Data received till March 1, 1981 have been included in this report.

This is the second year of organising the SAFGRAD maize regional variety trials and in 1980 a total of 16 Regional Full-sib Family Testing Trials (RFTT) developed from four base populations were sent to four national programs. In addition, 45 Regional Uniform Variety Trials (RUVT) consisting of early and medium maturing varieties in two different trials, were sent to 14 SAFGRAD countries. Entomology trial on "Survey of insect pests of maize" was sent to 8 countries.

The type, number and composition of these regional trials is decided in the SAFGRAD maize and cowpea workshop which is held every year before the planting season. Maize research workers from SAFGRAD member countries are invited to this workshop who participate in taking these decisions. Distribution of regional trials is based upon the interest of national researchers who believe that conducting these trials is an effort towards strengthening their national program. IITA/SAFGRAD research team designs and prepares these trials, prints the field data sheets along with necessary instructions/suggestions and sends the trials to various countries who are interested and willing to conduct the trial in their national program. At the end of the season, one copy of data sheet from all locations is returned back to SAFGRAD headquarter for statistical analyses and compilation of results.

This is the first effort for compilation of such results in this form and it is recognised that improvements in terms of additional statistical analyses and the use of computer will follow in the future reports.

The cooperation received from collaborators in designing, conducting and coordinating these trials is greatly appreciated. This team effort of maize scientists in the semi-arid regions of Africa will help in rapid identification and mobilisation of superior germplasm to national maize research and production programs. It is hoped that this report will be useful to the network of maize scientists and other development agencies in effective use of superior maize materials and other research results.

.../...

Maize entomology trials were coordinated by Dr. Y. S. Rathore, Entomologist, IITA/SAFGRAD, and Maize Variety trials were coordinated by Dr. V. L. Asnani, Maize Breeder and Project Leader, IITA/SAFGRAD.

Additional information and other details on any of SAFGRAD regional trials may be obtained by writing to Project Leader, IITA/SAFGRAD, B.P. 1783, Ouagadougou, Upper Volta.

OBJECTIVES :

There are four major areas of work in the IITA/SAFGRAD program :

1. Resident research at four research stations in Upper Volta.
2. Regional efforts
3. Support to national programs
4. Training

In the regional efforts, organisation and coordination of regional maize research trials is one of the important activity of IITA/SAFGRAD team. The main objectives of the regional trials are :

1. To make elite maize germplasm available to research workers in the semi-arid region of tropical Africa, for testing and use either directly or as a source of breeding material for their national programs.
2. To provide national scientists an opportunity to have their elite materials systematically evaluated over a wide range of environments in the semi-arid areas.
3. To develop varieties possessing tolerance to common problems in semi-arid areas for wider adaptability and stability.
4. To evaluate variation in diseases and insects important for maize production and to find solutions to these problems common in the semi-arid region.
5. To evaluate and develop cultural practices in overcoming some of the agronomic production constraints common in the semi-arid regions.

Various types of regional maize trials sent to different SAFGRAD countries in 1980 season and the names of research workers who conducted them are listed in the following pages.

During the crop season, a group visit consisting of IITA/SAFGRAD team and national researchers was organised to monitor the regional trials in various countries and to facilitate the exchange of ideas and observations in the field.

DISTRIBUTION - COLLABORATORS

Maize Variety Trials were sent to following countries for 1980 season :

- 1) BENIN : RUVT-1 (1 set) ; RUVT-2 (2 sets) ; RFTT-1 (1 set) ; RFTT-2 (1 set)
- 2) BOTSWANA : RUVT-1B (1 set) ; RUVT-2B (1 set)
- 3) CAMEROON : RUVT-1 (2 sets) ; RUVT-2 (2 sets)
- 4) GAMBIA : RUVT-1 (2 sets) ; RUVT-2 (2 sets)
- 5) GHANA : RUVT-1 (1 set) ; RUVT-2 (1 set)
- 6) GUINEE : RUVT-1 (1 set) ; RUVT-2A (1 set)
- 7) IVORY COAST : RUVT-1 (1 set) ; RUVT-2 (1 set) ; RFTT-3 (1 set) ; RFTT-4 (1 set)
- 8) KENYA : RUVT-1A (1 set) ; RUVT-2A (2 sets)
- 9) MALI : RUVT-1 (2 sets) ; RUVT-2 (2 sets) ; on-farm trial (3 sets)
- 10) MAURITANIA : RUVT-1 (2 sets)
- 11) NIGERIA : RUVT-1 (2 sets) ; RUVT-2 (2 sets)
- 12) SENEGAL : RUVT-1 (2 sets) ; RUVT-2 (2 sets) ; RFTT-1 (1 set) ; RFTT-2 (1 set) ; RFTT-3 (1 set) ; RFTT-4 (1 set)
- 13) SIERRA LEONE : RUVT-1A (1 set) ; RUVT-2A (1 set)
- 14) UPPER VOLTA : RUVT-1 (1 set) ; RUVT-2 (2 sets) ; RFTT-1 (1 set) ; RFTT-2 (1 set) ; RFTT-3 (1 set) ; RFTT-4 (1 set) ; RUVT-1B (2 sets for ORD) ; RUVT-2B (2 sets for ORD)

Maize entomology regional trial was sent to Botswana, Benin, Cameroon, Gambia, Ghana, Mali, Senegal and Upper Volta.

Collaborators to whom the Regional Maize Variety Trials were sent in 1980 season, are listed below :

1. BENIN : Mr. Alphonse HOUNPEVI  
Geneticien  
Station de Recherche de Niaouli  
Attogon, Rep. Pop. du BENIN
2. BOTSWANA : Miss Gasenome MAPHANYANE  
Agricultural Research Station  
P. Bag 0033  
Gaberone, BOTSWANA
3. CAMEROON : Mr. Jacob Assam AYUK-TAKEM  
Institute of Agronomic Research  
Box 80  
Bamenda, CAMEROON  
Mr. O. GWATHMEY  
ACPO  
Institut of Agronomic Research  
INA-NORD  
B.P. 33, Maroua, CAMEROON
4. GAMBIA : Mr. Tom G. SENGHORE  
Department of Agriculture  
Yundum Experimental Station  
Yundum, the GAMBIA  
Mr. A. COX  
Senior Scientific Officer  
Department of Agriculture  
Ministry of Agriculture &  
Natural Resources  
P.O. Box 739, Banjul  
the GAMBIA
5. GHANA : Mr. Mathias K. AKPOSOE  
Crop Research Institute  
Box 3785  
Kumasi, GHANA  
Dr. D. SHARMA  
Agricultural Experiment Station  
Nyankpala  
P.O. Box 438, Tamale  
GHANA
6. GUINEE : Mr. Marcel OUAMOUNO  
Ministère de l'Agriculture, des Eaux et Forêts  
et des FAPA, Chef Division des Cultures Industrielles  
GUINEE
7. IVORY COAST : Mr. Jean Leu MARCHAND  
IDESSA/IRAF  
B.P. 635  
Bouaké, IVORY COAST
8. KENYA : Mr. Francis NDAMBUKI  
Ministry of Agriculture National  
National Agricultural Research Station  
P.O. Box 450  
Kitale, KENYA

9. MALI : Mr. Cheick O. KEITA,  
Institut d'Economie Rurale  
AMS S.R.C.V.O.  
B.P. 438  
Sotuba, Bamako, MALI
- Mr. J. JOHNSON  
ACPO  
B.P. 34, Bamako  
MALI
10. MAURITANIA : Mr. Sidi O. RCHID  
C.N.R.A.D.A.  
B.P. 22  
Kaedi, MAURITANIA
11. NIGERIA : Dr. Y. EFRON & Dr. M. BJARNASON  
Maize Breeders  
IITA, PMB 5320  
Ibadan, Nigeria
12. SENEGAL : Dr. Papa CAMARA  
Centre National de Recherches Agronomiques  
Bambey, SENEGAL
13. SIERRA LEONE : Director  
Rice Research Station  
Rukupr SIERRA LEONE
14. UPPER VOLTA : Dr. V.L. ASNANI  
Mr. I. HEMA  
SAFGRAD  
B.P. 1783  
Ouagadougou, UPPER VOLTA

Collaborators to whom Regional Maize Entomology Trial was sent in 1980 season are :

- BENIN : Mr. Atachi Pierre  
Laboratoire de Défense des Cultures  
B.P. 884, COTONOU  
Rep. of BENIN
- BOTSWANA : Mr. Field Thomas  
Agriculture Research Station  
P.O. Bag 0033, GABERON  
BOTSWANA (South Africa)
- CAMEROON : Mr. Fongang Emmanuel  
IRA West  
B.P. 44, DSCHANG  
CAMEROON
- GAMBIA : Mr. B. Trawally  
Entomologist-Pathologist  
Department of Agriculture  
Cape St. MARY  
GAMBIA (W. Africa)
- GHANA : Dr. J. F. Abu, Entomologist  
Department of Crop Science  
University of Ghana  
LEGON, GHANA
- Dr. G.K.A. Buahin, Entomologist  
CRI-CSIR  
Box 3785, KUMASI  
GHANA
- MALI : Mr. Brahimé Sidibé  
Entomologist  
Défense des Cultures  
SRCVO, SOTUBA  
BAMAKO, MALI
- SENEGAL : Dr. Mbaye N'Doye  
Centre National de Recherches Agronomiques  
BAMBEY, SENEGAL
- UPPER VOLTA : Dr. Y. S. Rathore  
Entomologist  
SAFGRAD Project Office  
B.P. 1783  
OUAGADOUGOU, UPPER VOLTA

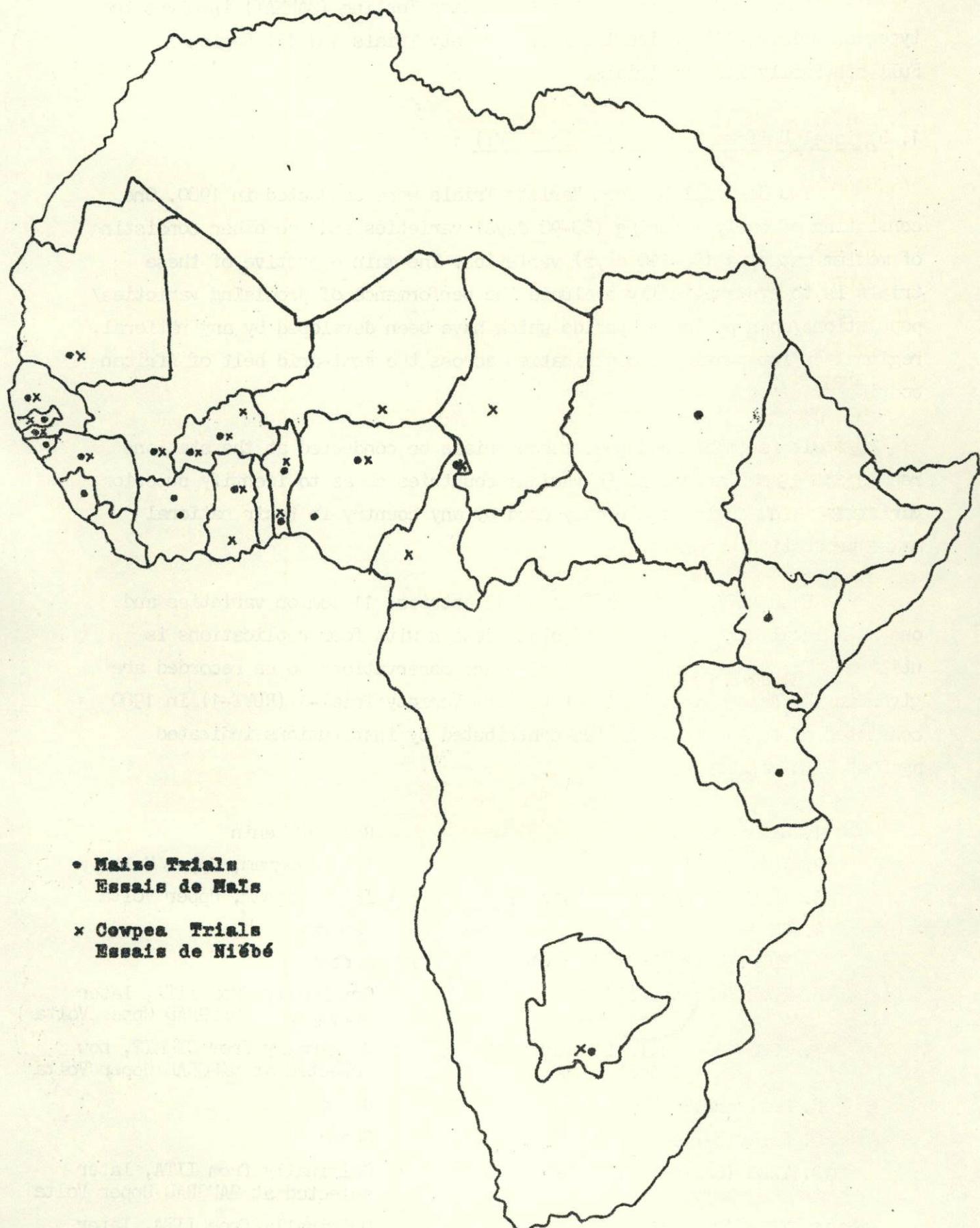
SAFGRAD Maize testing sites in countries which participated in 1979 and 1980 trials are :

1. BENIN	:	Niaouli and Ina
2. BOTSWANA	:	Gaberone
3. CAMEROON	:	Maroua
4. GAMBIA	:	Yundum, Sapu
5. GHANA	:	Nyankpala (Tamalé), Kumasi
6. GUINEE	:	Kindia
7. IVORY COAST	:	Bouake and Ferekessedougou
8. KENYA	:	Kitale
9. MALI	:	Sotuba (Bamako), Masantola
10. MAURITANIA	:	Kaedi
11. NIGERIA	:	Ibadan and Zaria
12. SENEGAL	:	Sefa and Nioro
13. SIERRA LEONE	:	Rukpur
14. UPPER VOLTA	:	Kamboinse, Saria and Farako-Bâ
15. SUDAN	:	Khartoum
16. TANZANIA	:	Ilonga

These locations (sites) are indicated in the Figure n° 1

SAFGRAD REGIONAL TESTING SITES IN COUNTRIES  
WHICH PARTICIPATED IN 1979 AND 1980 TRIALS

SITES REGIONAUX SAFGRAD DANS LES PAYS  
AYANT PARTICIPÉS AUX ESSAIS DE 1979 ET 1980



SARMAT - MATERIALS AND METHODS

Semi-Arid Regional Maize Adaptation Testing (SARMAT) involves two types of trials -(1) Regional Uniform Variety Trials and (2) Regional Full-sib Family Testing Trials.

1. Regional Uniform Variety Trials (RUVT) :

Two Regional Uniform Variety Trials were conducted in 1980. One consisting of early maturing (80-90 days) varieties and the other consisting of medium maturing (90-110 days) varieties. The main objective of these trials is to systematically evaluate the performance of promising varieties/populations/open pedigree hybrids which have been developed by any national, regional or international organisation across the semi-arid belt of African continent.

It is emphasised that these trials be conducted at the stations representing semi-arid zone in various countries so as to identify superior varieties which could be directly used by any country in their national maize production programs.

Each RUVT trial consists of 12 entries. 11 common varieties and one as a local check. Randomised block design with four replications is utilised. The details on the plot size and observations to be recorded are given in the Appendix I. Regional Uniform Variety Trial-1 (RUVT-1) in 1980 consisted of following varieties contributed by institutions indicated against each variety :

1. NIMARA Composite	Rep. of Benin
2. IRAT 102 (Varietal hybrid)	IRAT Program, Upper Volta
3. IRAT 100 (Varietal hybrid)	IRAT Program, Upper Volta
4. ZM 10 (Improved local variety)	Senegal
5. BDS III (Complex hybrid)	Senegal
6. TZPB (Composite)	Originally from IITA, later selected at SAFGRAD Upper Volta
7. POOL-16 (Tropical early white dent composite)	Originally from CIMMYT, now selected at SAFGRAD Upper Volta
8. Mexican 17 (Composite)	Ghana
9. Early Yellow (Composite)	Ghana
10. TZE3 (Composite)	Originally from IITA, later selected at SAFGRAD Upper Volta
11. TZE4 (Composite)	Originally from IITA, later selected at SAFGRAD Upper Volta.

For few locations, IRAT 100 was replaced with composite D from Ivory Coast and Pool-16 was replaced with Indonesian Corn Belt composite. This trial was designated as RUVT-1 (A). In addition to these two changes, in some locations BDS III was also replaced by Pozarica 7643 and this trial went as RUVT-1 (B). These changes were necessitated due to limited seed quantities.

Regional Uniform Variety Trial-2 (RUVT-2) in 1980 consisted of following varieties :

1. MASSAYOMBA (improved local variety)	IRAT Program, Upper Volta
2. FEREKE (1) 7635 (variety)	Originally from CIMYT, selected in Ivory Coast
3. IRAT 81 (complex hybrid)	Ivory Coast
4. COMPOSITE C4 (composite)	Ghana
5. GOLDEN CRYSTAL (Composite)	Ghana
6. BDS III (Complex hybrid)	Senegal
7. NH2 (hybrid)	Rep. of Benin
8. CJ1 (Composite)	Rep. of Benin
9. TZSR (W) composite	Originally from IITA, selected at SAFGRAD, Upper Volta
10. TZPB (Composite)	Originally from IITA, selected at SAFGRAD, Upper Volta
11. TZB (Composite)	IITA, Nigeria

For few locations Comp. C4 was replaced with Comp. D. from Ivory Coast and BDS III was replaced with Pozarica-7643. This trial was designated as RUVT-2 (A). In addition to these two changes, for some locations, Fereke (1) 7635 was replaced by Fereke(1) 7622 and the trial went as RUVT-2 (B). These changes were necessitated due to limited seed quantities.

## 2. Regional Full-sib Family Testing Trials (RFTT) :

Primary objective of these trials is to carry out populations improvement in the selected base populations utilising the cooperation and expertise of some of the stronger national programs in the region. Through this effort it is hoped to improve the basic populations for the common stresses normally encountered in the semi-arid tropical region. As and when, it is desirable, the experimental varieties could be developed for any participating country by recombining the best 10-15 full-sib families identified as most promising in that country.

In this program two early maturing base populations (TZE3 and TZE4), one medium maturing population (TZPB) and one medium maturing streak resistant population (TZSR-W) are being utilised in Full-sib family recurrent selection scheme. It is recognised that when other superior base populations are developed or identified that these will be added to the program or will be replaced with the existing base populations.

Full-sib families are generated at IITA/SAFGRAD headquarter, Kamboinse during the dry season and selected 140 families with four checks making a total of 144 entries are tested in RFTT trials. Because of the limited seed quantity of a full-sib family, these trials are sent out to four countries only. Lattice design (12 x 12) with two replicates is used.

Four such trials -one for each of the four base populations viz., RFTT-1 (TZE4), RFTT-2 (TZE3), RFTT-3 (TZPB) and RFTT-4 (TZSR-W) were conducted in 1980.

Based on the results from the locations where these trials are conducted 50-60 full-sib families which are considered to be promising across all the locations are selected for recombination and generation of new set of full-sibs during the dry season at SAFGRAD Kamboinse, using the remanant seed of these families. The families, so developed make up the RFTT trials for the next growing season.

Experimental varieties will be developed from the four populations using 1981 data.

### SURVEY OF INSECT PESTS OF MAIZE IN SEMI-ARID REGION

Regional trial on Survey of insect pests of maize in semi-arid region was conducted in 1980. The primary objective of the trial was to systematically evaluate the incidence of various insect pests. Some of these insects may be limited to a particular area while others may be serious in a much larger area comprising of several countries of the semi-arid belt of Africa. The knowledge of specific insect problems in a specific area will help us in devising future strategy to control them.

A variety TZE-4 was planted during a normal sowing time in 10 x 10 m plot replicated three times. Row to row distance was maintained at 75 cm and hill to hill 50 cm, leaving 2 plants per hill. Observations were made on shootfly, Atherigona spp. ; borers, Sesamia Calamistis, Eldana saccharina, Busscola fusca, Acigona spp. and chilo spp. ; armyworm, Mythimna spp., leaf hopper, cicadulina spp. ; termites and millipedes.

### RESULTS :

#### RUVT-1 :

Data from 11 locations were returned till the time of writing this report. Grain yield and other important characters of varieties tested in this trial are given in the appendix tables for all eleven locations.

Because of several reasons, we do not intend to discuss all the results in this report. However, only the salient points in terms of promising varieties are summarised below :

1. Nioro (Senegal) - Local check variety was the highest yielding entry. Early Yellow and TZE4 were the other promising varieties.
2. Sefa (Senegal) - BDS III gave the highest yield. Other promising varieties were, TZE4, POOL-16 and Early Yellow.
3. Ibadan (Nigeria) - Highest yielder was IRAT-102. Other promising varieties were, POOL-16 and ZM 10.
4. Guiring (Cameroon) - POOL-16 was the highest yielding entry. Early Yellow and TZE3 were the other two promising varieties.
5. Nyankpala (Ghana) - IRAT-100 gave the highest yield. Among early maturing varieties POOL-16 and TZE4 seem to be promising.

.../...

6. Masantola (Mali) - TZE3 was the highest yielding variety followed by POOL-16.

7. Katibougou (Mali) - IRAT-100 gave the highest yield. Other promising varieties were BDS III and POOL-16.

8. Bouaké (Ivory-Coast) - Among early maturing varieties, POOL-16 gave the highest yield followed by Early Yellow.

9. Conakry (Guinea) - IRAT-100 was the highest yielder. BDS III, POOL-16 and Mexican 17 were also promising.

10. Yundum (Gambia) - Highest yielding variety was IRAT-100. Among the early varieties POOL-16, and BDS III were promising.

11. Saria (Upper Volta) - BDS III, POOL-16 and Early Yellow were the promising early maturing varieties.

Following table records the grain yield (kg/ha) and days to flower, averaged over 11 locations, of the varieties tested in RUVT-1

Varieties	Yield	Days to flower
POOL-16	3153	51
IRAT-100	2909	58
TZPB	2744	60
IRAT-102	2720	56
BDS III	2713	54
Mexican 17	2632	58
Early Yellow	2609	54
ZM 10	2379	56
Niwara Comp.	2312	61
TZE4	2189	51
TZE3	2096	51

It can be seen from this table that POOL-16, TZE3 and TZE4 are the varieties which took 51 days to flower and are the earliest maturing as compared to other varieties. Early Yellow, BDS III, IRAT-102 and ZM-10 took 54-56 days to flower and could be considered to fall in the second group.

The third group flowering in 58-61 days consists of varieties IRAT-100, Mexican-17, TZPB, and Niwara Composite. It is interesting to note that POOL-16 which is in the earliest flowering group gave the highest yield. Therefore, this variety seems to be most promising. IRAT-100 was the second best yielder however, it is little late in maturity. Both POOL-16 and IRAT-100 will be tested in RUVT trials in 1981.

### RUVT-2

Till the time of writing this report data from 10 locations were returned. Grain yield and other agronomic characters are given in separate appendix tables for all the locations.

As pointed out, in the section on the results of RUVT-1, the salient points in terms of promising varieties tested in RUVT-2 are summarised below :

1. Yundum (Gambia) - IRAT-81 was found to be the highest yielding variety. Comp. C<sub>4</sub> and Golden Crystal were other two promising varieties.
2. Sefa (Senegal) - The highest yielding variety was Comp. C<sub>4</sub>. Other promising varieties were NH2, IRAT-81 and CJ1.
3. Nioro (Senegal) - BDS III was the highest yielding variety. IRAT-81 and Comp. C<sub>4</sub> were also promising.
4. Ibadan (Nigeria) - Local check variety gave the highest yield. Other promising varieties were TZSR (W), Golden Crystal and TZPB.
5. Nyankpala (Ghana) - Highest yielding variety was IRAT-81. Massayomba, BDS III and TZPB were also found to be promising.
6. Bouaké (Ivory Coast) - IRAT-81 gave the highest yield. TZPB, Comp. C<sub>4</sub> and Golden Crystal were also promising.
7. N'Dock (Cameroon) - TZB gave the highest yield. Other promising varieties were IRAT-81, TZSR(W) and NH2.
8. Ira (Cameroon) - The highest yielding variety was IRAT-81 followed by Golden Crystal.
9. Kamboinse (Upper Volta) - BDS III gave the highest yield. Comp.C<sub>4</sub> and Fereke (1) 7635 were the other two promising varieties.

.../...

10. Bobo-Dioulasso (Upper Volta) - Highest yield was given by IRAT-81. Comp. C<sub>4</sub> and Golden Crystal were also found to be promising.

Grain yield and days to flower, averaged over 10 locations, of the varieties tested in RUVT-2 are presented in the following table.

Variety	Yield	Days to flower
IRAT-81	3072	62
Comp C <sub>4</sub>	2910	61
Golden Crystal	2734	59
Fereke(1) 7635	2578	55
TZPB	2577	63
NH2	2552	57
TZSR(W)	2544	63
TZB	2443	63
Massayomba	2429	61
BDS III	2401	55
CJ1	2350	60

As can be seen in the table, BDS III and Fereke(1) 7635 were somewhat earlier in maturity as compared to the other varieties. IRAT-81 was the highest yielding entry. However, it is a complex hybrid. The next highest yielding variety was composite C<sub>4</sub> which took 61 days to flower.

#### REGIONAL FULL-SIB FAMILY TESTING TRIALS (RFTT) :

Grain yield and other important characters of families selected from RFTT-1, RFTT-2, RFTT-3 and RFTT-4 at different locations where these trials were conducted are given separately in the appendix tables.

The families which were selected on the basis of their across location performance were utilised for recombination and developing a new set of full-sib families for testing during 1981 season. Location specific, experimental varieties by recombining the best families for any location will be developed during 1981-82 second season at Kamboinse.

RESULTS :

Survey of Insect Pests of Maize in Semi-Arid Region :

The results from the cooperating scientists except from Mali were not received at the time of writing up this report. However, the results from Upper Volta trial at Kamboinse showed no infestation of termites and other insects except armyworm which damaged silk of 3.5 percent cobs 70 days after planting (DAP).

Infestation of various insects at Sotuba in Mali was also not serious in 1980 season (Table 1). Borer infestation was observed up to 45 DAP while armyworm infestation continued till 70 days after planting.

Table 1. Percent infestation of three maize insects at Sotuba (Mali).

Insect	% infested plants DAP				
	35	45	55	70	90
Borer *	1.73	1.48	-	-	-
Armyworm	0.80	1.87	2.66	2.53	-
Termites	0.75	0.51	0.74	1.35	1.65

\* Scientific name not informed.



APPENDIX

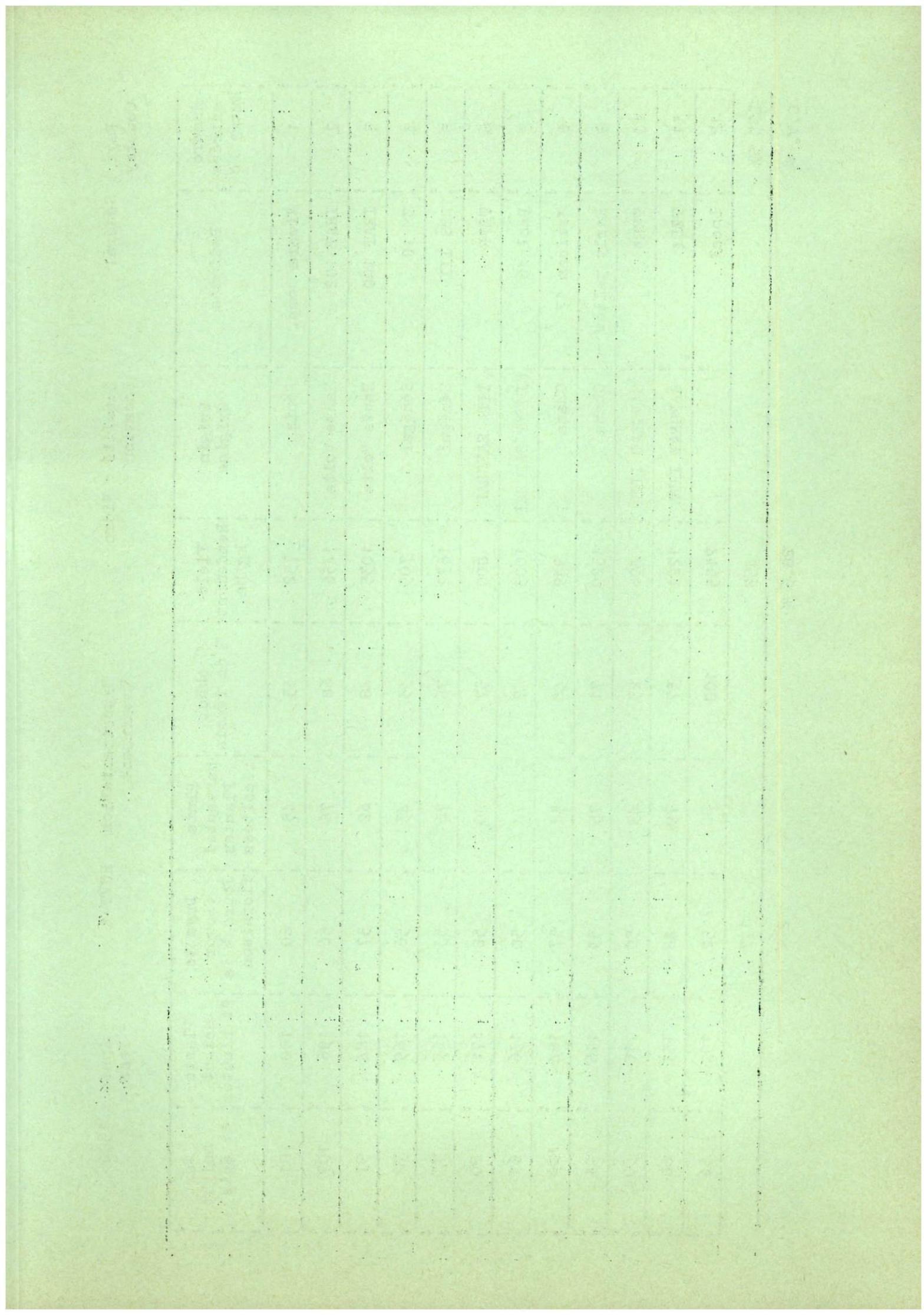
Pays : Sénégal  
Country

Localité : Nioro  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	752	35	45	60	188	101
2	IRAT 102	Haute Volta	1456	68	76	56	196	109
3	IRAT 100	Haute Volta	1035	48	62	57	184	97
4	ZM 10	Sénégal	709	33	43	56	169	72
5	BDS III	Sénégal	1632	76	76	53	165	73
6	TZPB	IITA SAFGRAD	800	37	40	58	171	80
7	Pool 16	CIMMYT SAFGRAD	1003	47	74	50	136	61
8	Mexican 17	Ghana	949	44	54	57	184	109
9	Early yellow	Ghana	1520	71	75	53	186	91
10	TZE3	SAFGRAD IITA	496	23	49	50	115	50
11	TZE4	SAFGRAD IITA	1221	57	79	48	151	68
12	Local		2155	100	80	52	191	96
LSD 5%			459			1,7		
C.V. %			28,6 %			2 %		



Pays : Sénégal  
Country

Localité : Sefa  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	523	44	105	67	195	125
2	IRAT 102	Haute Volta	1142	91	91	66	189	120
3	IRAT 100	Haute Volta	1013	84	103	66	189	119
4	ZM 10	Sénégal	1056	88	59	65	184	100
5	BDS III	Sénégal	1563	130	108	60	174	93
6	TZPB	IITA SAFGRAD	693	58	104	69	166	99
7	Pool 16	CIMMYT SAFGRAD	1359	113	109	59	133	70
8	Mexican 17	Ghana	1120	93	103	66	176	108
9	Early yellow	Ghana	1306	109	104	62	165	88
10	TZE3	SAFGRAD IITA	1200	100	105	56	148	76
11	TZE4	SAFGRAD IITA	1483	124	109	55	140	71
12		Local	1200	100	88	64	181	94
LSD %			459			2,0		
C.V. %			28,6			2,2		



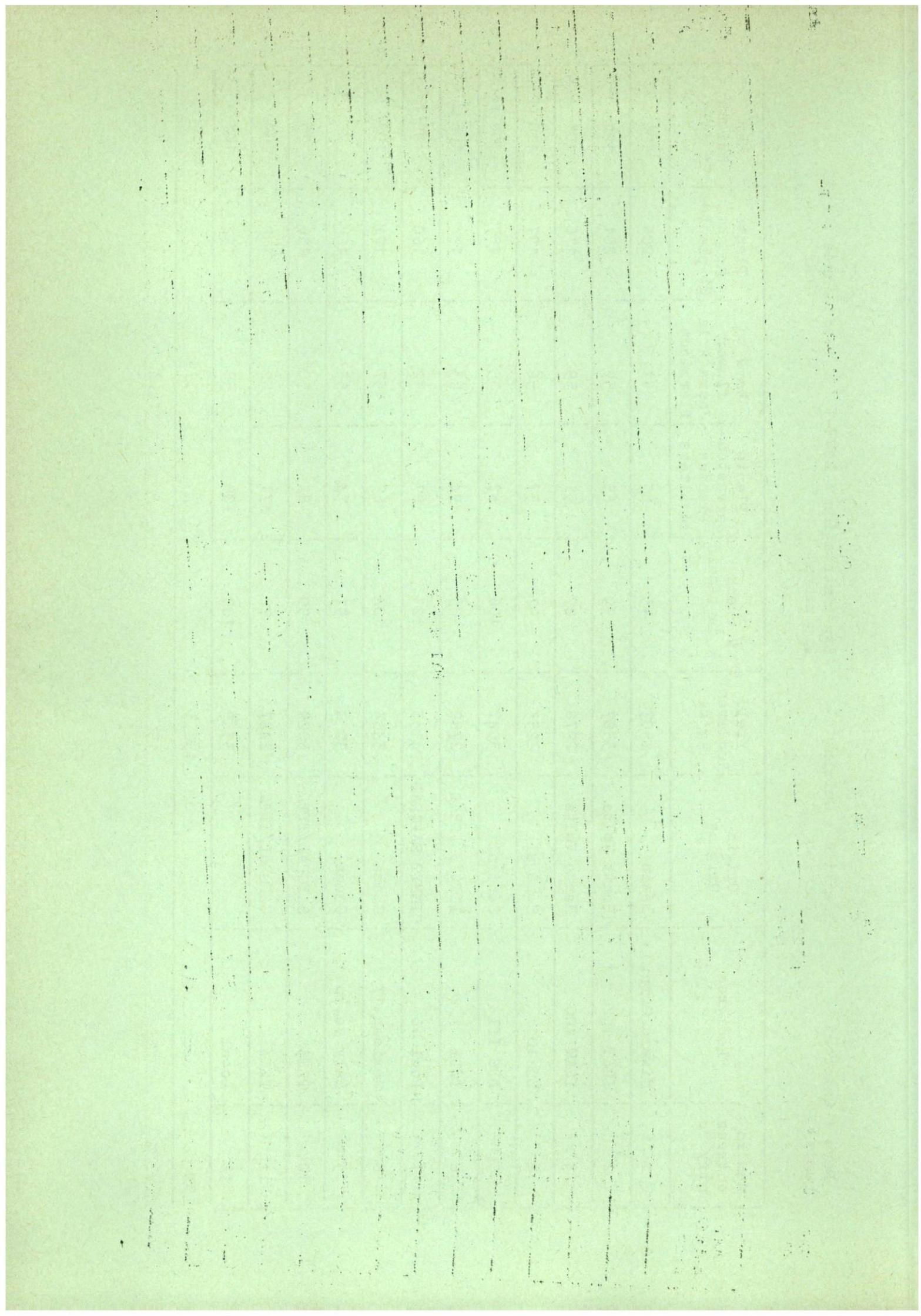
Pays : Cameroun  
Country

Localité : Guiring  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	2507	75	83	61	205	125
2	IRAT 102	Haute Volta	3307	99	65	59	201	120
3	IRAT 100	Haute Volta	2976	89	91	59	176	101
4	ZM 10	Sénégal	3253	97	57	56	197	110
5	BDS III	Sénégal	3547	106	62	55	187	100
6	TZPB	IITA/SAFGRAD	2789	83	94	63	194	106
7	Pool 16	CIMMYT SAFGRAD	4133	123	87	52	160	82
8	Mexican 17	Ghana	3483	104	69	57	191	107
9	Ealy yellow	Ghana	30 ; 0	91	74	53	182	95
10	TZE3	SAFGRAD/IITA	3029	90	82	50	156	79
11	TZE4	SAFGRAD/IITA	2427	72	71	52	140	69
12	Local		3349	100	100	58	192	107
LSD %			138,7			3.7		
C.V. %			15			14.4		



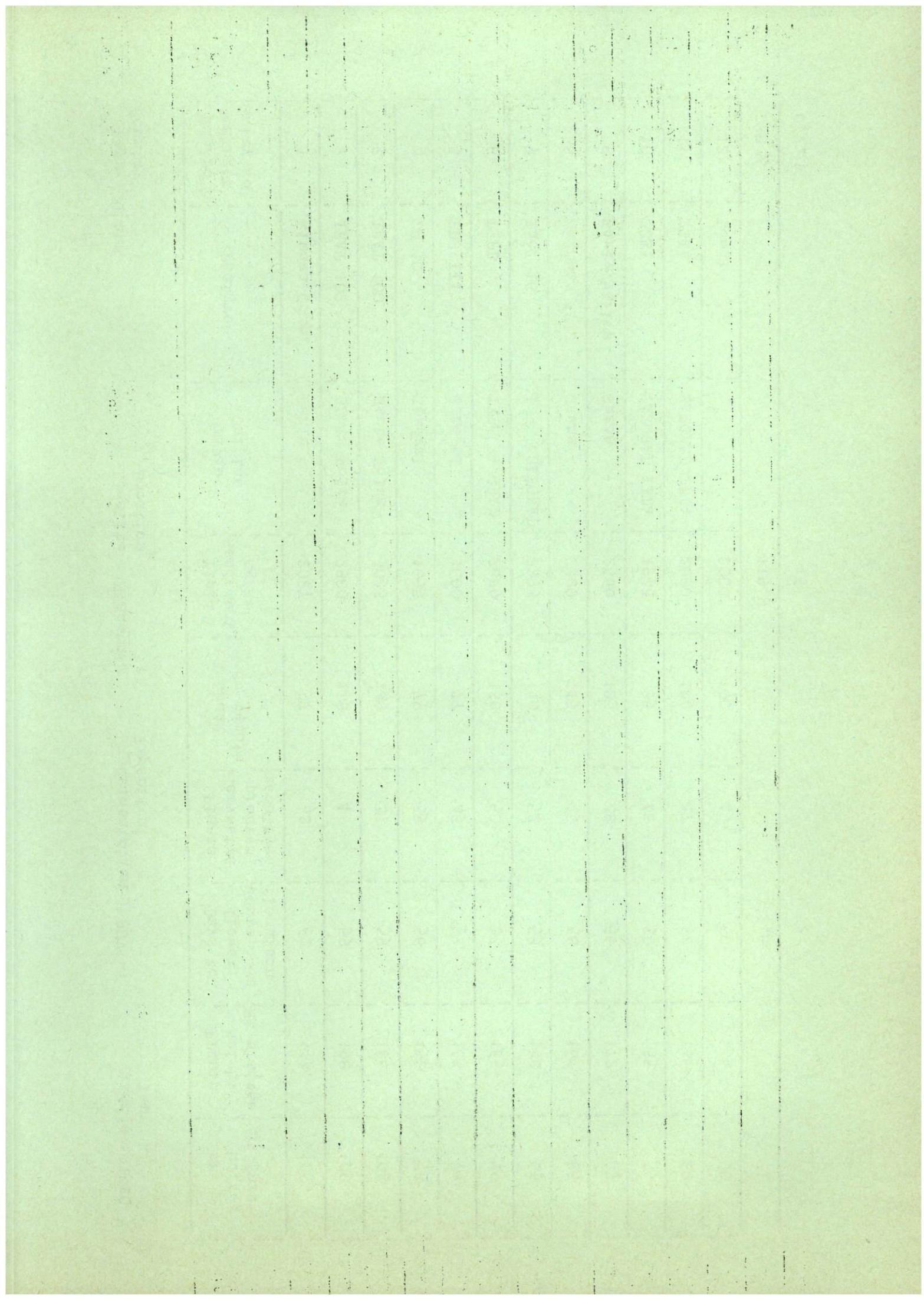
Pays : Ghana  
Country

Localité : Niankpalala  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	2027	97	48	62	194	106
2	IRAT 102	Haute Volta	2880	138	49	59	198	109
3	IRAT 100	Haute Volta	3093	149	47	59	186	102
4	ZM 10	Sénégal	1653	79	39	56	152	73
5	BDS III	Sénégal	1600	77	43	54	163	73
6	TZPB	IITA SAFGRAD	2880	138	50	63	165	79
7	Pool 16	CIMMYT SAFGRAD	2293	110	52	53	138	65
8	Mexican 17	Ghana	2400	115	45	58	161	85
9	Early yellow	Ghana	2560	123	48	56	172	87
10	TZE3	SAFGRAD IITA	1973	95	48	50	135	59
11	TZE4	SAFGRAD IITA	2080	100	47	52	136	60
12	Local		2080	100	49	50	131	60
LSD %			119,9			2.6		
C.V. %			16			2		



Pays : Mali  
Country

Localité : Mesantola  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro d'entrée Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	587	50		50	272	123
2	IRAT 102	Haute Volta	853	73		50	285	123
3	IRAT 100	Haute Volta	907	77		45	299	136
4	ZM 10 Sénégal	Sénégal	1013	86		44	277	94
5	BDS III	Sénégal	853	73		43	286	105
6	TZPB	IITA/SAFGRAD	693	59		50	258	102
7	Pool 16	CIMMYT SAFGRAD	1227	105		42	242	88
8	Mexican 17	Ghana	709	60		48	268	117
9	Early yellow	Ghana	587	50		43	272	103
10	TZE3	SAFGRAD IITA	1440	123		44	240	95
11	TZE4	SAFGRAD IITA	960	82		40	243	91
12	Local		1173	100		41	243	83

LSI %

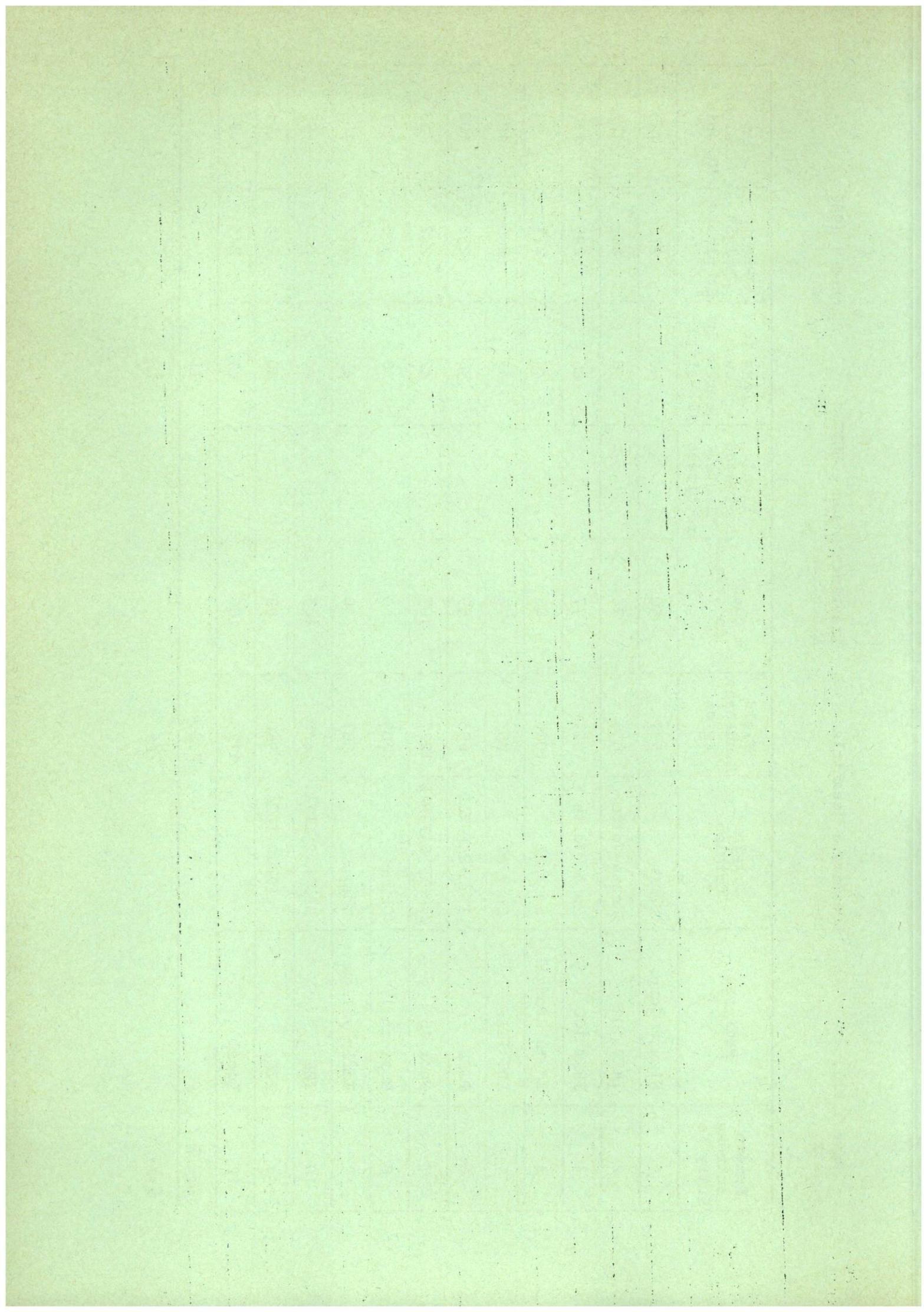
N.S.

11

C.V. %

24

1



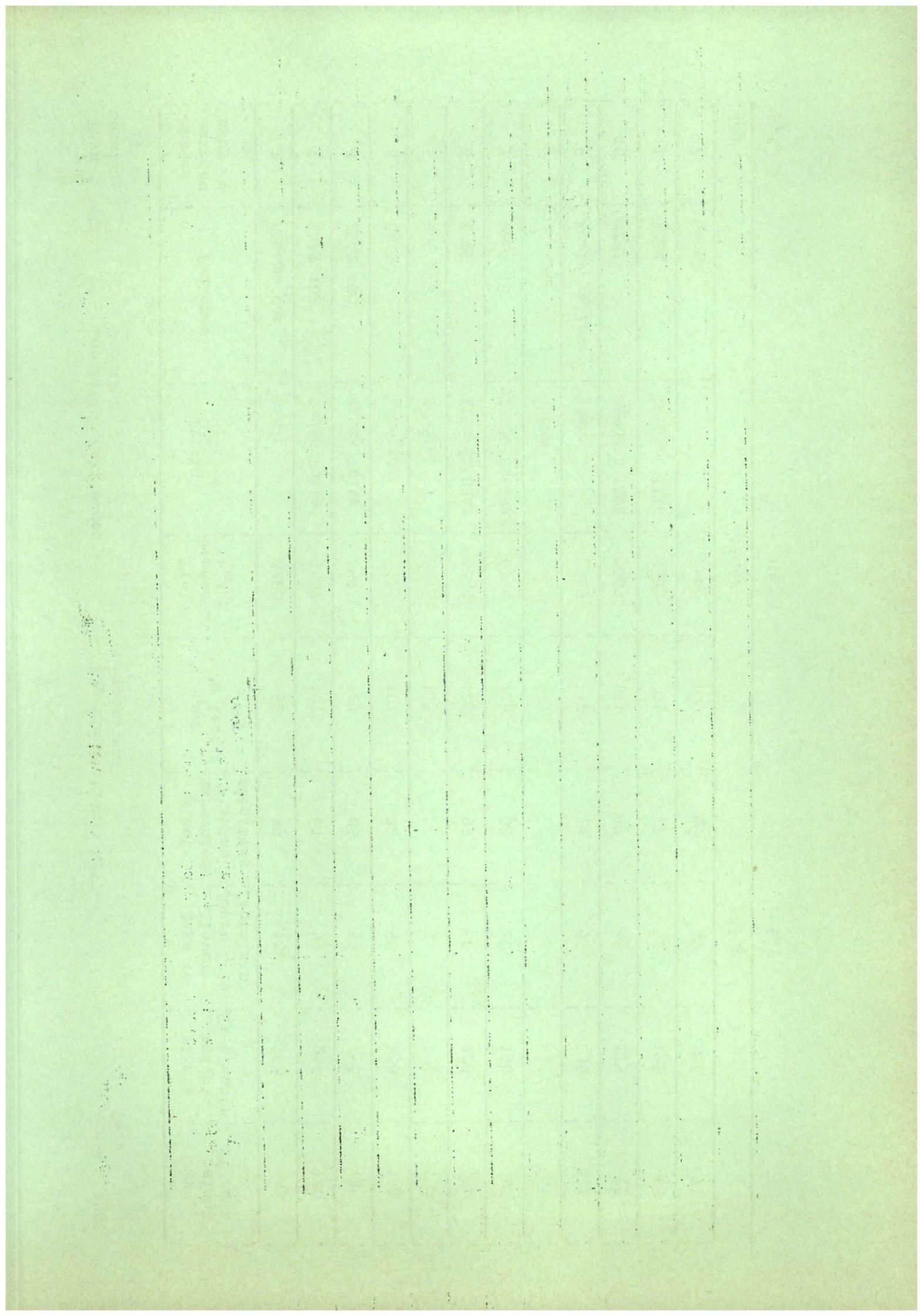
Pays : Mali  
Country

Localité : Katibougou  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro d'entrée Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	4480	88	87	60	260	143
2	IRAT 102	Haute Volta	5487	107	61	55	250	140
3	IRAT 100	Haute Volta	6523	127	86	55	255	145
4	ZM 10	Sénégal	5173	101	82	58	238	125
5	BDS III	Sénégal	6416	125	85	51	203	100
6	TZPB	IITA/SAFGRAD	5440	106	99	60	208	130
7	Pool 16	CIMMYT SAFGRAD	6399	125	93	40	190	95
8	Mexican 17	Ghana	5867	115	90	57	220	123
9	Early yellow	Ghana	5989	117	74	55	240	113
10	TZE3	SAFGRAD IITA	5669	111	87	45	175	73
11	TZE4	SAFGRAD IITA	4683	91	77	54	193	83
12	Local		5120	100	86	40	183	73
LSD %			1164.7			13.8		
C.V. %			10			8,9		



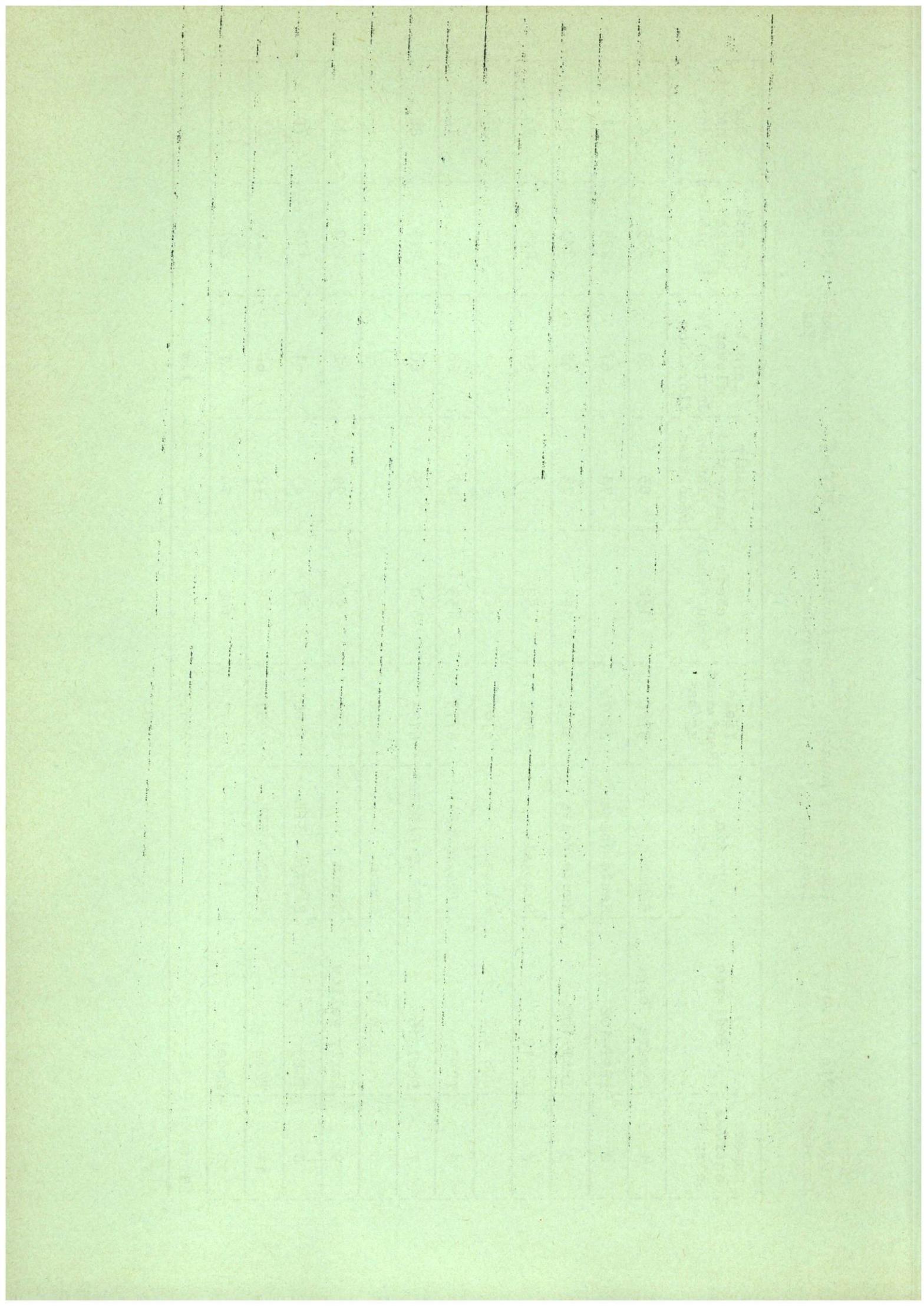
Pays : Côte d'Ivoire  
Country

Localité : Bouaké  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	5760	132	83	68	205	145
2	IRAT-102	Haute Volta	4107	94	73	67	225	131
3	IRAT 100	Haute Volta	5013	115	75	65	245	120
4	ZM 10	Sénégal	2560	59	43	61	245	94
5	BDS III	Sénégal	3787	87	69	62	220	96
6	TZPB	IITA/SAFGRAD	6773	155	87	68	215	114
7	Pool 16	CIMMYT SAFGRAD	6133	140	93	60	213	88
8	Mexican 17	Ghana	4160	95	79	67	260	115
9	Early yellow	Ghana	4320	99	99	62	222	108
10	TZE3	SAFGRAD IITA	1600	37	45	61	178	70
11	TZE4	SAFGRAD IITA	2987	68	72	60	220	83
12	Local		4373	100	70	67	227	138
LSD %			226.3			1.8		
C.V. %			30			2		



Pays : Guinée  
Country

Localité : Conakry  
Location

## Expérimentation : RUVT-1

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	3040	130	51	60	215	99
2	IRAT 102	Haute Volta	2667	114	56	59	240	110
3	IRAT 100	Haute Volta	3787	161	49	55	230	96
4	ZM 10	Sénégal	2027	86	39	59	201	91
5	BDS III	Sénégal	3307	141	54	59	225	110
6	TZPB	IITA SAFGRAD	2987	127	42	59	235	102
7	Pool 16	CIMMYT SAFGRAD	3253	139	51	60	247	109
8	Mexican 17	Ghana	3253	139	55	60	233	88
9	Early yellow	Ghana	2293	98	40	57	234	96
10	TZE3	SAFGRAD/IITA	2507	107	54	59	204	91
11	TZE4	SAFGRAD/IITA	2453	105	42	59	231	95
12	Local		2347	100	49	58	210	87

I.SD %

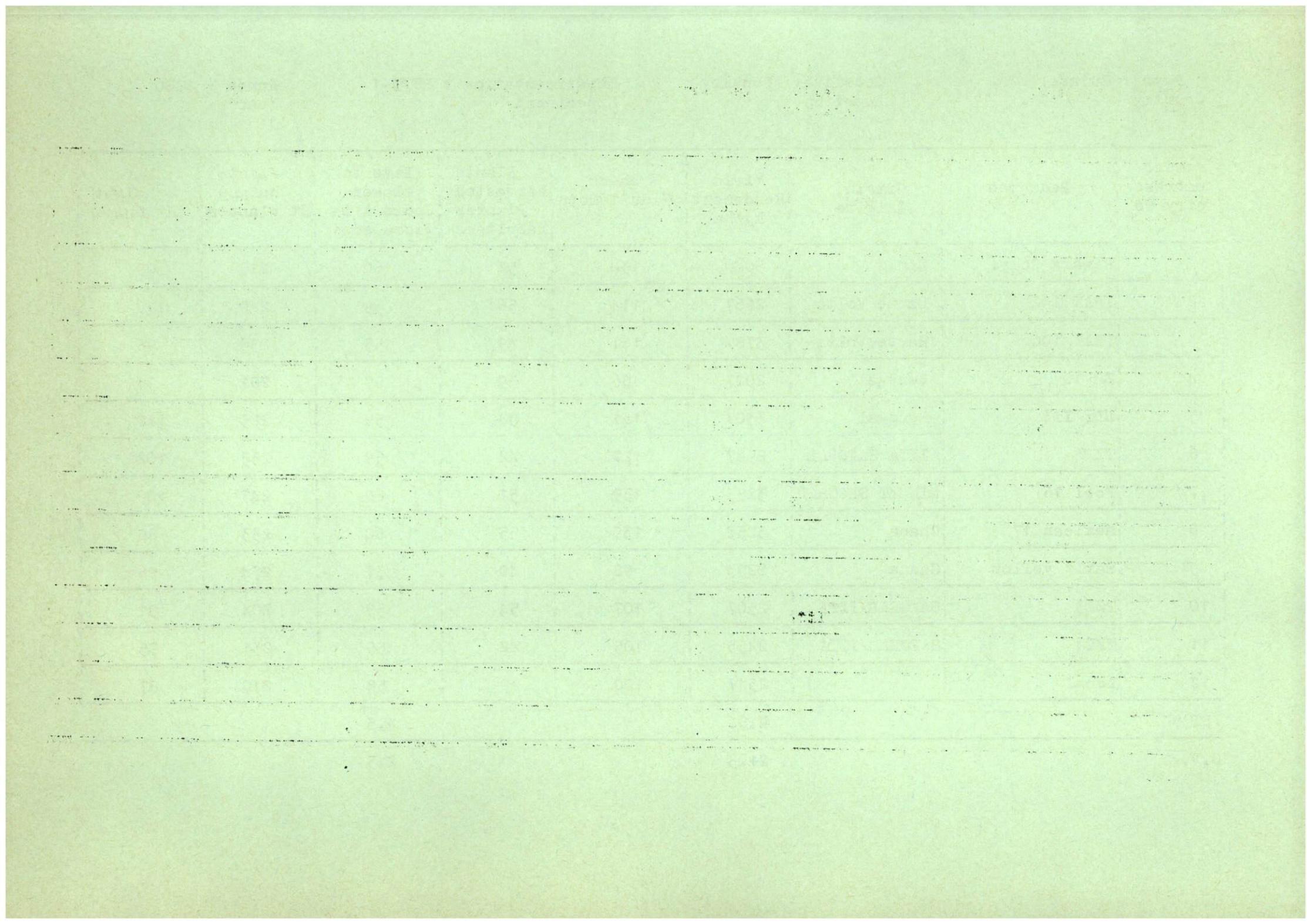
N.S.

4.3

C<sub>a</sub>V<sub>a</sub> %

21.3

2-5



Pays : Gambie  
Country

Localité : Yundum  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	2027	115	65	74	194	89
2	IRAT 102	Haute Volta	2987	170	47	47	212	120
3	IRAT 100	Haute Volta	3520	200	69	69	212	126
4	ZM 10	Sénégal	2827	161	54	58	198	110
5	RDS III	Sénégal	3040	173	60	58	181	83
6	TZPB	IITA/SAFGRAD	2613	148	69	62	173	65
7	Pool 16	CIMMYT SAFGRAD	3413	194	80	51	158	74
8	Mexican 17	Ghana	2773	158	73	60	192	101
9	Early yellow	Ghana	2507	142	60	58	184	91
10	TZE3	SAFGRAD IITA	2133	121	49	51	151	69
11	TZE4	SAFGRAD IITA	1867	106	52	53	155	67
12	Local		1760	100	38	51	169	78

LSD %

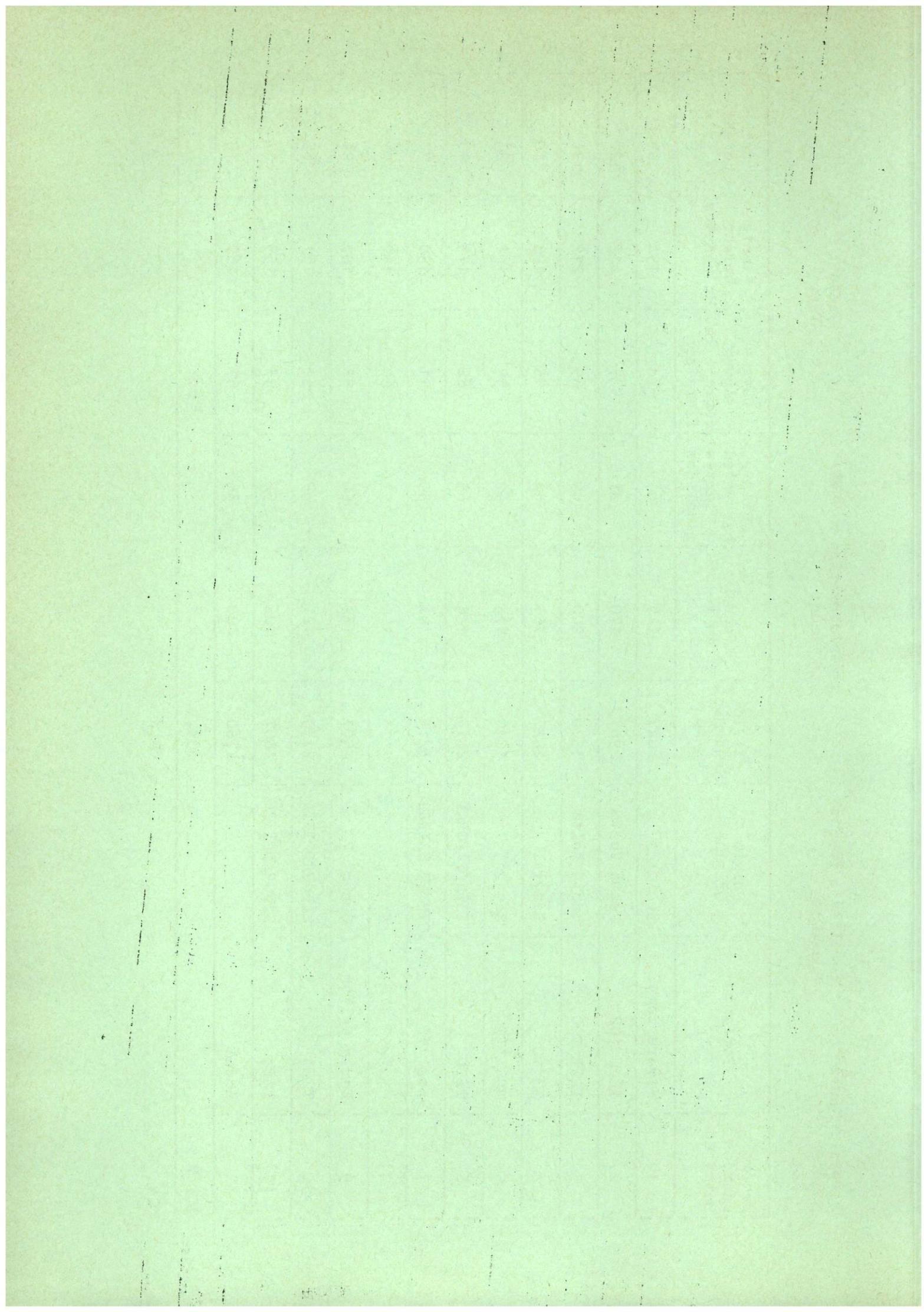
639,9

8.2

C.V. %

8.4

9



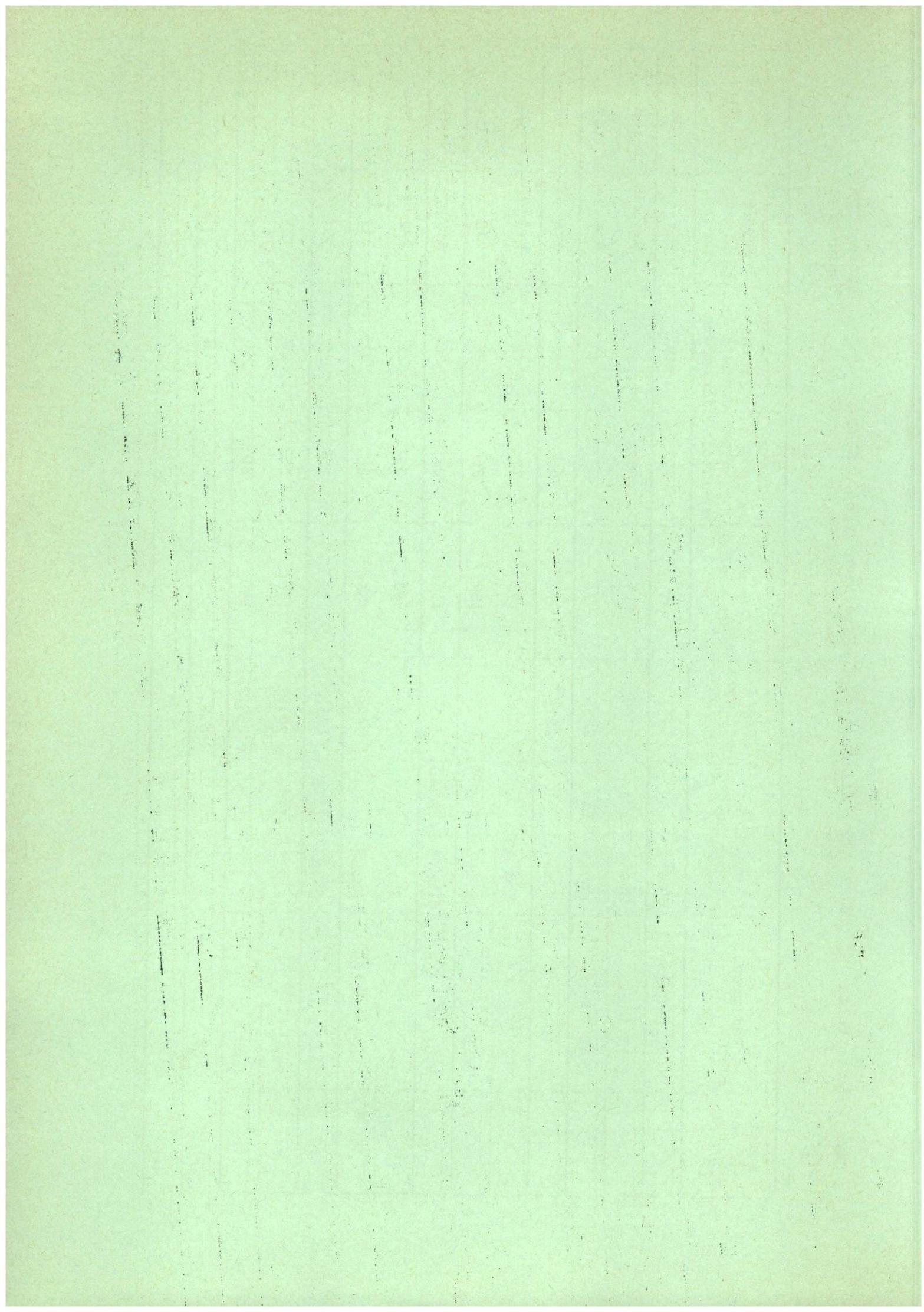
Pays : Haute Volta  
Country

Localité : Saria  
Location

Expérimentation : RUVT-1  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Niwara Comp.	Bénin	1937	81	93	49	254	140
2	IRAT 102	Haute Volta	2700	113	86	45	247	142
3	IRAT 100	Haute Volta	2235	93	89	46	227	117
4	ZM 10	Sénégal	2216	93	68	44	216	97
5	BDS III	Sénégal	3293	138	77	42	216	86
6	TZPB	IITA/SAFGRAD	2441	102	86	48	219	104
7	Pool 16	CIMMYT SAFGRAD	3257	136	88	40	187	75
8	Mexican 7	Ghana	2337	98	99	46	232	115
9	Early yellow	Ghana	3252	136	86	43	111	90
10	TZE <sub>3</sub>	SAFGRAD/IITA	2610	109	84	40	170	72
11	TZE4	SAFGRAD/IITA	2748	115	83	40	179	76
12	Local		2392	100	80	39	161	66
LSD %		N.S.				2.0		
C.V. %		27				3		



Pays : Gambie  
Country

Localité : Yundum  
Location

Expérimentation : EIVT-2  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Massayomba	Haute Volta	1669	348	32	66	204	99
2	Ferké (1) 7635	CIMMYT C. Ivoire	629	128	28	58	132	58
3	ITAT-81	Haute Volta	1040	217	23	67	202	103
4	Comp C 4	Ghana	1627	339	34	67	175	83
5	Golden Crystal	Ghana	1887	393	42	65	182	99
6	BDS III	Sénégal	1227	256	28	59	178	82
7	NH <sub>2</sub>	Pénin	2080	433	46	63	184	102
8	CJI	Bénin	1920	400	51	64	199	104
9	TZSR (W)	SAFGRAD IITA	1654	345	43	65	181	89
10	TZPB	SAFGRAD IITA	1227	256	38	68	168	78
11	TZB	IITA	1067	222	24	68	191	98
12	Local		480	100 %	13	65	175	86
LSD %			555			2.6		
C.V. %			15			1		



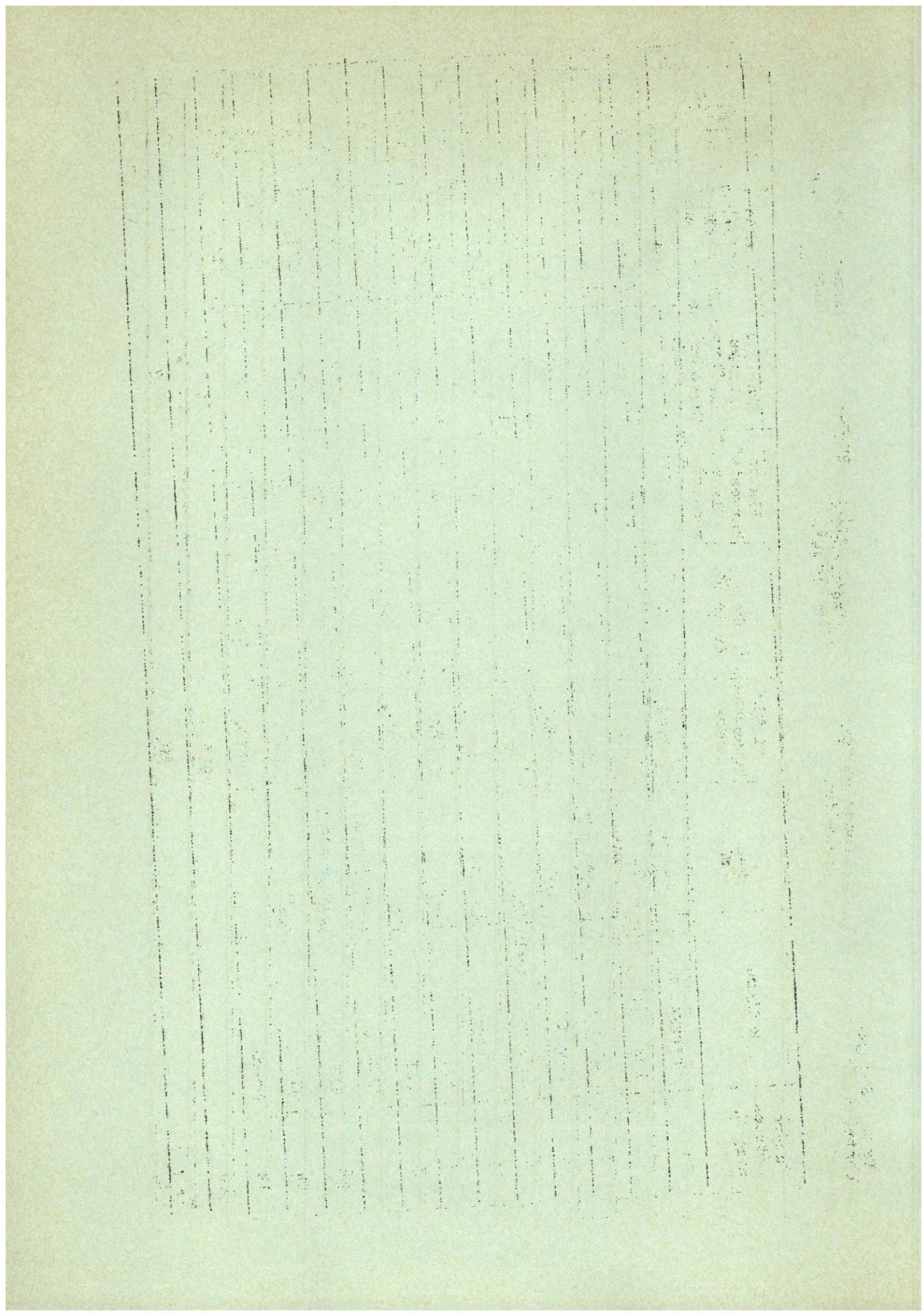
Pays : Sénégal  
Country

Localité : SEF  
Location

Expérimentation : RUVT-2  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Massayomba	Haute Volta	2186.7	67	84	59	241	153
2	Ferké (1) 7635	CIMMYT T. Coast	2080	64	67	53	165	88
3	IRAT-81	Haute Volta	2293.3	70	66	62	233	141
4	Comp C4	Ghana	2773.3	85	86	56	233	144
5	Golden Crystal	Ghana	2453.3	75	79	54	214	128
6	BDS III	Sénégal	2186.7	67	79	52	199	111
7	NH2	Bénin	2506.3	77	74	56	145	118
8	CJI	Bénin	2293.3	70	74	58	230	143
9	TZSR (W)	SAFGRAD IITA	1440	44	65	60	213	121
10	TZPB	SAFGRAD IITA	2080	64	75	59	211	128
11	TZB	IITA	2080	64	63	61	225	137
12	Local		3253.3	100 %	79	55	214	115
LSD 5%			907,0			3,01		
C.V. %			30,2			3,7		



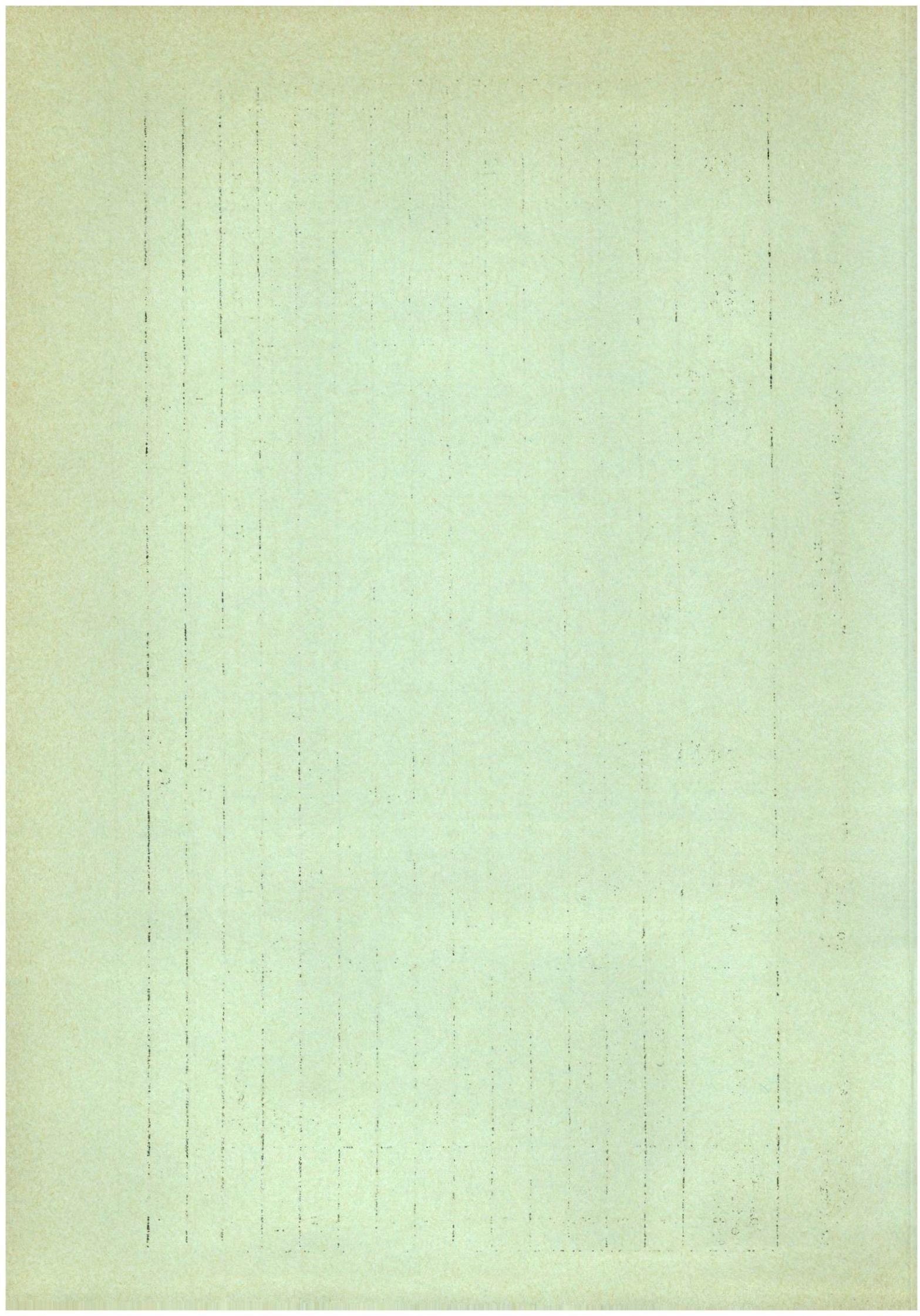
Pays : Sénégal  
Country

Localité : Nioro  
Location

Expérimentation : RUVT-2  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% Check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Massayomba	Haute Volta	800	33	40	59	201	108
2	Feré (1) 7635	CIMMYT I. Coast	906.7	38	61	53	134	59
3	IRAT-81	Haute Volta	1493.3	62	46	58	195	101
4	Comp C4	Ghana	1493.3	62	53	57	193	100
5	Golden Crystal	Ghana	1120	47	50	59	186	95
6	BDS III	Sénégal	1600	67	47	53	184	89
7	NH2	Bénin	1226.7	51	61	56	178	94
8	CJI	Bénin	693.3	29	41	56	171	86
9	TZSR (W)	SAFGRAD IITA	853.3	36	36	64	171	80
10	TZPB	SAFGRAD IITA	533.3	22	23	64	153	75
11	TZB	IITA	746.7	31	32	61	181	101
12	Local		2400	100 %	77	51	204	100
LSD 5 %			746,7			3,01		
C.V. %			40,9			3,6		



Pays : Nigeria  
Country

Localité : Ibadan  
Location

## Expérimentation : RUVT-2

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Bar height Ht épis
1	Massayomba	Haute Volta	1828	55	21		183	101
2	Ferké (1) 7635	CIMMYT I. Coast	2197	69	30		119	58
3	IRAT-81	Haute Volta	1812	54	28		190	113
4	Comp C <sub>4</sub>	Ghana	2162	65	30		174	106
5	Golden Crystal	Ghana	2376	71	32		165	93
6	BDS III	Sénégal	1459	44	24		136	71
7	NH <sub>2</sub>	Bénin	2039	61	33		149	83
8	CJI	Bénin	2172	65	36		159	100
9	TZSR (W)	SAFGRAD IITA	2395	72	28		159	83
10	TZPB	SAFGRAD IITA	2364	71	32		168	99
11	TZB	IITA	2151	64	20		173	89
12	Local		3347	100 %	35		169	95

LSD % 5 %

837

C.V. %

26.4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	8010	8011	8012	8013	8014	8015	8016	8017	8018	8019	8020	8021	8022	8023	8024	8025	8026	8027	8028	8029	8030	8031	8032	8033	8034	8035	8036	8037	8038	8039	8040	8041	8042	8043	8044	8045	8046	8047	8048	8049	8050	8051	8052	8053	8054	8055	8056	8057	8058	8059	8060	8061	8062	8063	8064	8065	8066	8067	8068	8069	8070	8071	8072	8073	8074	8075	8076	8077	8078	8079	8080	8081	8082	8083	8084	8085	8086	8087	8088	8089	80810	80811	80812	80813	80814	80815	80816	80817	80818	80819	80820	80821	80822	80823	80824	80825	80826	80827	80828	80829	80830	80831	80832	80833	80834	80835	80836	80837	80838	80839	80840	80841	80842	80843	80844	80845	80846	80847	80848	80849	80850	80851	80852	80853	80854	80855	80856	80857	80858	80859	80860	80861	80862	80863	80864	80865	80866	80867	80868	80869	80870	80871	80872	80873	80874	80875	80876	80877	80878	80879	80880	80881	80882	80883	80884	80885	80886	80887	80888	80889	80890	80891	80892	80893	80894	80895	80896	80897	80898	80899	80900	80901	80902	80903	80904	80905	80906	80907	80908	80909	80910	80911	80912	80913	80914	80915	80916	80917	80918	80919	80920	80921	80922	80923	80924	80925	80926	80927	80928	80929	80930	80931	80932	80933	80934	80935	80936	80937	80938	80939	80940	80941	80942	80943	80944	80945	80946	80947	80948	80949	80950	80951	80952	80953	80954	80955	80956	80957	80958	80959	80960	80961	80962	80963	80964	80965	80966	80967	80968	80969	80970	80971	80972	80973	80974	80975	80976	80977	80978	80979	80980	80981	80982	80983	80984	80985	80986	80987	80988	80989	80990	80991	80992	80993	80994	80995	80996	80997	80998	80999	809100	809101	809102	809103	809104	809105	809106	809107	809108	809109	809110	809111	809112	809113	809114	809115	809116	809117	809118	809119	809120	809121	809122	809123	809124	809125	809126	809127	809128	809129	809130	809131	809132	809133	809134	809135	809136	809137	809138	809139	809140	809141	809142	809143	809144	809145	809146	809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Pays : Ghana  
Country

Localité : Nyankpala  
Location

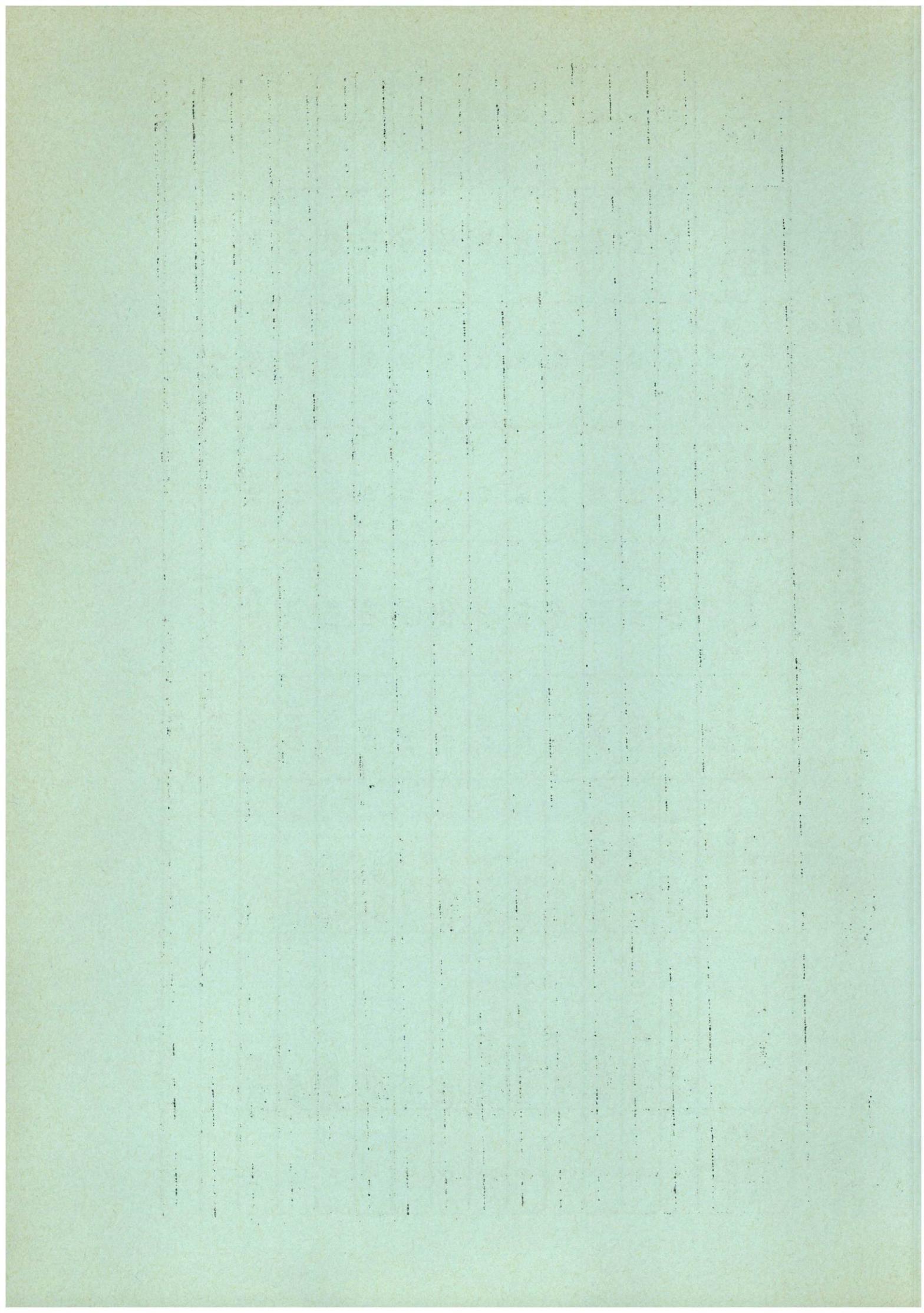
Expérimentation : RUVT-2  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Massayomba	Haute Volta	3413	178	41	62	209	118
2	Ferké (1) 7635	CIMMYT C. Ivoire	2773	144	52	53	137	49
3	IRAT-81	Haute Volta	3520	183	37	64	178	89
4	Comp C 4	Ghana	2613	136	39	60	177	84
5	Golden Crystal	Ghana	2240	117	40	58	176	99
6	BDS III	Sénégal	3147	164	43	52	172	85
7	NH <sub>2</sub>	Pénin	1920	100	3	57	166	89
8	CJI	Bénin	2453	128	41	59	194	111
9	TZSR (W)	SAFGRAD IITA	2987	156	40	60	175	92
10	TZPB	SAFGRAD IITA	3040	158	38	60	190	94
11	TZB	IITA	1813	94	31	64	174	88
12	Local		1920	100 %	36	49	135	65

1013

3.7



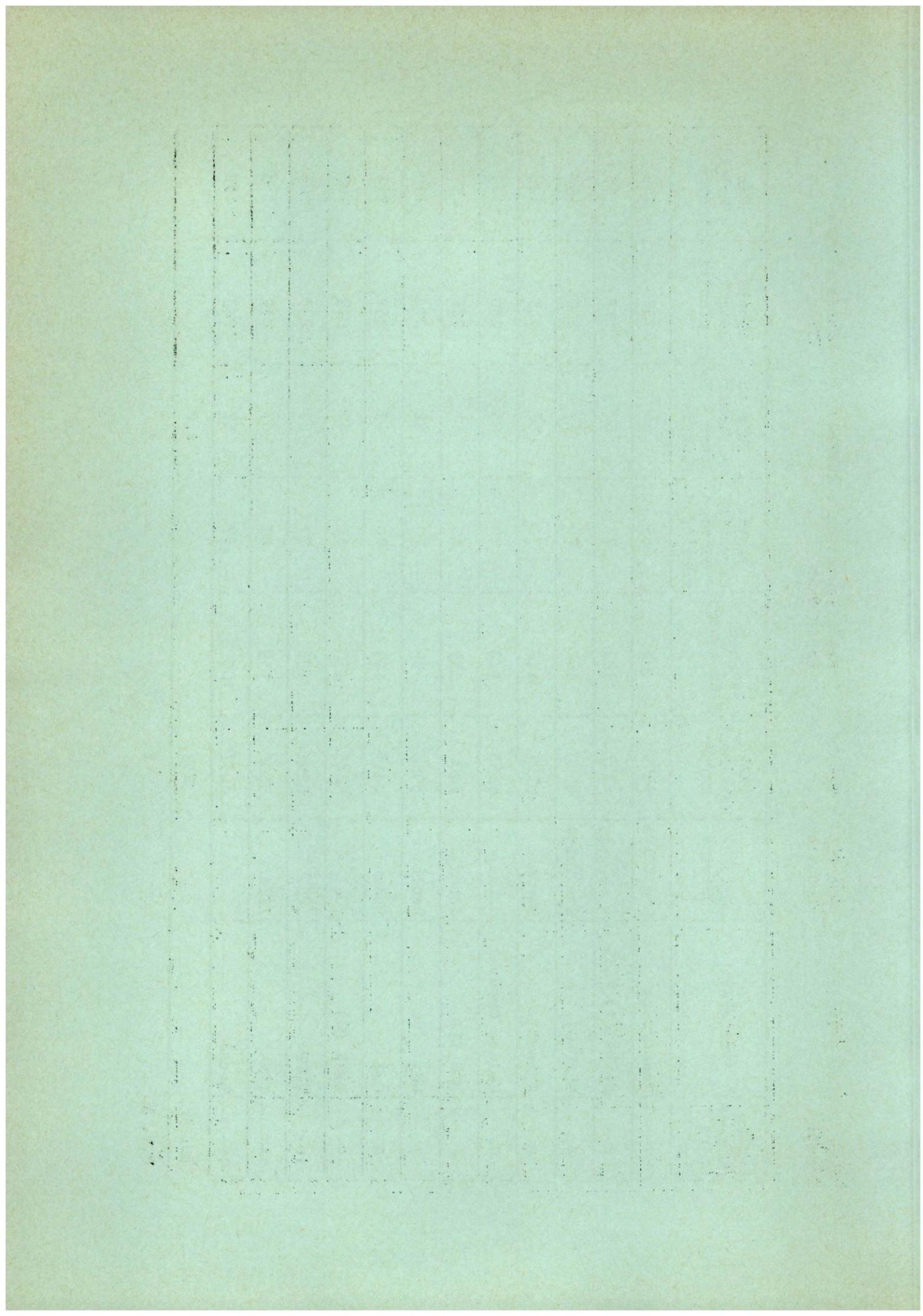
Pays : Côte D'Ivoire  
Country

Localité : Bouaké  
Location

Expérimentation : RUVT-2  
Experiment

Année : 1980  
Year

Numéro d'entrée Entry	Pedigree	Origin Origine	Yield Rendement kg/ha	% check du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Massayomba	Hte Volta	3803	94	65	66	237	115
2	Ferké (1) 7635	CIME/YT C. Ivoire	4907	122	77	60	177	73
3	IRAT-81	Hte Volta	6560	162	70	67	250	130
4	Comp C 4	Ghana	5707	140	74	66	255	144
5	Golden Crystal	Ghana	5653	140	78	63	230	129
6	BDS III	Senegal	2400	59	69	61	226	97
7	NH <sub>2</sub>	Benin	3984	98	70	62	214	119
8	CJI	Benin	4411	109	70	63	232	113
9	TZSR (W)	SAFGRAD IITA	5243	130	69	69	215	107
10	TZPB	SAFGRAD IITA	6293	156	71	67	233	123
11	TZB	IITA	5600	139	57	67	232	118
12	Local		4037	100 %	67	67	243	132
LSI %			885			4.0		
C.V. %			11			4		



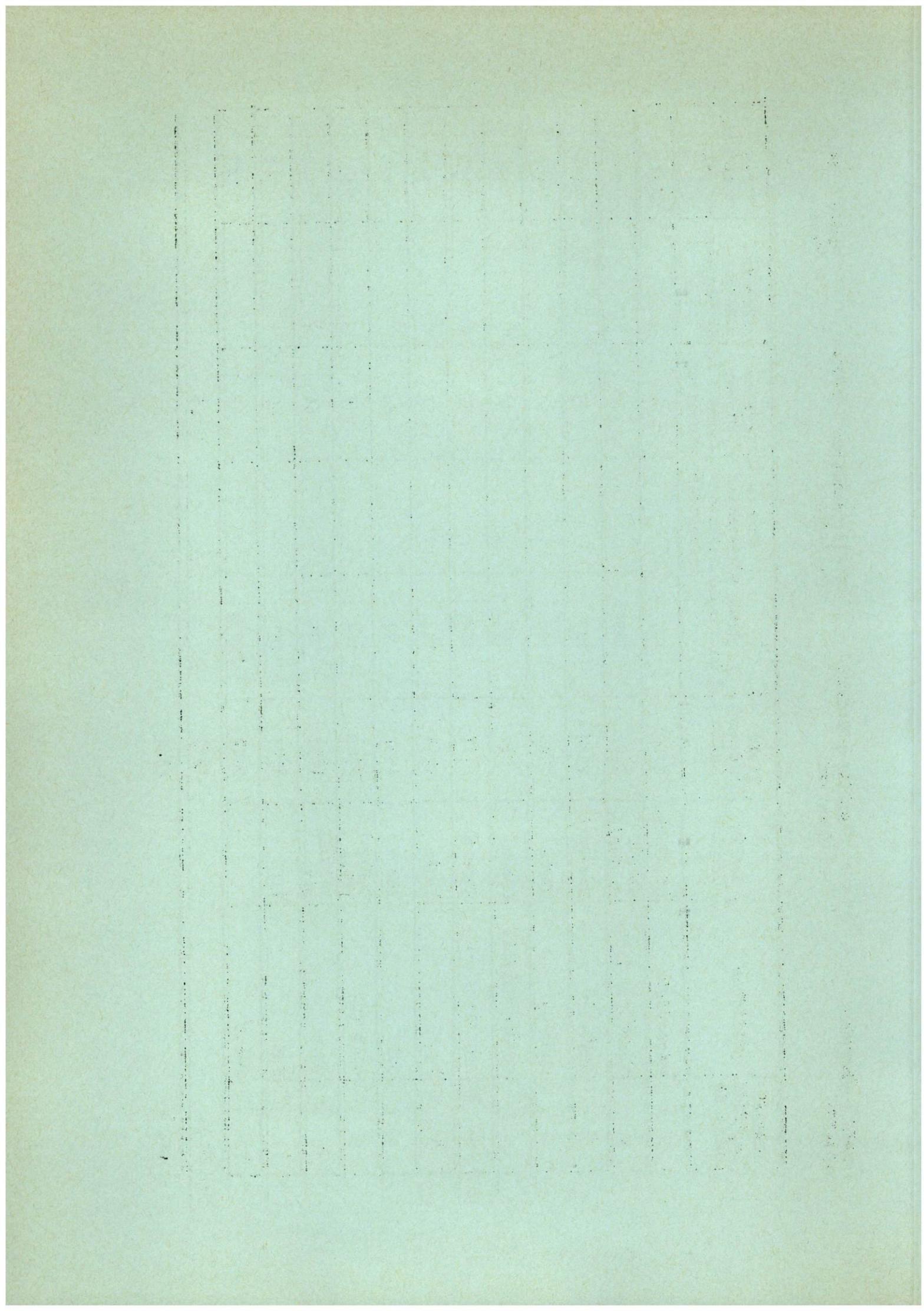
Pays : Cameroun  
Country

Localité : N'Dock  
Location

Expérimentation : RUVT-2  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Massayomba	Hte Volta	2160	107		60		167
2	Ferké (1) 7635	OIFMYT C. Ivoire	2203	109		60		127
3	IRAT-81	Hte Volta	2944	145		63		156
4	Comp C <sub>4</sub>	Ghana	2560	126		63		172
5	Golden Crystal	Ghana	1931	95		56		120
6	BDS III	Senegal	2117	104		57		152
7	NH <sub>2</sub>	Benin	2719	134		57		149
8	CJI	Benin	1557	77		64		146
9	TZSR (W)	SAFGRAD IITA	2784	137		65		150
10	TZPB	SAFGRAD IITA	1637	81		66		122
11	TZB	IITA	3173	157		65		154
12	Local		2027	100 %		60		143
SD %			917			3.3		
C.V. %			13.6			2		



Pays : Cameroun  
Country

Localité : IRA/SANGVERE  
Location

Expérimentation : RUVT-2  
Experiment

Année : 1980  
Year

Numéro d'entrées Entry No.	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ft s
1	Massayomba	Hte Volta	2773	100	67	66	226	95
2	Ferké (1) 7635	CLMNYT l. Coast	2933	106	72	56	157	46
3	IRAT-81	Hte Volta	3253	117	65	66	217	90
4	Comp 4	Ghana	2453	88	79	65	212	86
5	Golden Crystal	Ghana	3093	112	68	62	212	76
6	BDS III	Sénégal	2933	106	61	58	214	67
7	NH <sub>2</sub>	Bénin	2933	106	76	60	212	92
8	CJI	Bénin	2720	98	73	63	209	80
9	TASK (W)	SAFGRAD IITA	1973	71	56	68	190	67
10	TZPB	SAFGRAD IITA	2880	104	65	68	199	66
11	TZB	IITA	2240	81	41	68	198	74
12	Local		2773	100 %	77	65	198	74

LSD %

N.S.

3.16

C.V. %

12

2

1. *Leucanthemum vulgare* L. - *Common Dandelion*  
2. *Leucanthemum vulgare* L. - *Common Dandelion*

Pays : Haute Volta  
Country

Localité : Kamboinsé  
Location

Expérimentation : RUVT-2  
Expériment

Year : 1980  
Année

Numéro d'entrée !Entry N°	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Massayomba	Hte Volta	3850	114	78	54	241	153
2	Ferké (1) 7635	CIMMYT C. Ivoire	4044	119	74	45	177	91
3	IRAT 81	Hte Volta	3923	116	77	55	211	120
4	Comp C 4	Ghana	4068	120	84	53	215	121
5	Golden Crystal	Ghana	3463	102	77	52	207	120
6	BDS III	Sénégal	4673	138	76	48	188	105
7	NH <sub>2</sub>	Bénin	3535	104	78	49	191	110
8	C J	Bénin	3414	100	80	53	218	132
9	TZSR (W)	SAFGRAD IITA	3705	19	69	53	220	116
10	TZPB	SAFGRAD IITA	2736	81	69	56	196	107
11	TZB	IITA	2906	86	38	53	200	115
12	Local		3390	100 %	81	41	187	91

LSD % 1834 2.0

C.V. % 15,9 2,7



Pays : Haute Volta  
Country

Localité : Bobo Dioulasso  
Location

Expérimentation : RUVT-2  
Experiment

Année : 1980  
Year

Numéro entrées Entry No	Pedigree	Origin Origine	Yield Rendement kg/ha	% check % du témoin	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plants height Ht plantes	Ear height Ht épis
1	Massayomba	Haute Volta	1803	90	45	59	229	149
2	Ferké (1) 7635	GIMMYT I. Coast	3003	148	64	57	139	66
3	IFAT-81	Haute Volta	3883	192	54	58	184	100
4	Corp C4	Ghana	3643	180	59	59	219	126
5	Golden Crystal	Ghana	3120	154	61	59	187	95
6	BDS III	Sénégal	2267	112	53	57	219	112
7	NH2	Bénin	2576	127	68	57	189	101
8	CJ1	Bénin	1867	92	51	60	191	106
9	TZSR (W)	SAFGRAD IITA	2399	118	48	61	166	94
10	TZPB	SAFGRAD IITA	2976	147	51	59	180	106
11	TZB	IITA	2656	131	44	59	194	109
12	Local		2027	100 %	43	63	184	106
LSD %			1413			3.0		
C.V. %			31.7			3		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	8010	8011	8012	8013	8014	8015	8016	8017	8018	8019	8020	8021	8022	8023	8024	8025	8026	8027	8028	8029	8030	8031	8032	8033	8034	8035	8036	8037	8038	8039	8040	8041	8042	8043	8044	8045	8046	8047	8048	8049	8050	8051	8052	8053	8054	8055	8056	8057	8058	8059	8060	8061	8062	8063	8064	8065	8066	8067	8068	8069	80610	80611	80612	80613	80614	80615	80616	80617	80618	80619	80620	80621	80622	80623	80624	80625	80626	80627	80628	80629	80630	80631	80632	80633	80634	80635	80636	80637	80638	80639	80640	80641	80642	80643	80644	80645	80646	80647	80648	80649	80650	80651	80652	80653	80654	80655	80656	80657	80658	80659	80660	80661	80662	80663	80664	80665	80666	80667	80668	80669	806610	806611	806612	806613	806614	806615	806616	806617	806618	806619	806620	806621	806622	806623	806624	806625	806626	806627	806628	806629	806630	806631	806632	806633	806634	806635	806636	806637	806638	806639	806640	806641	806642	806643	806644	806645	806646	806647	806648	806649	806650	806651	806652	806653	806654	806655	806656	806657	806658	806659	806660	806661	806662	806663	806664	806665	806666	806667	806668	806669	8066610	8066611	8066612	8066613	8066614	8066615	8066616	8066617	8066618	8066619	8066620	8066621	8066622	8066623	8066624	8066625	8066626	8066627	8066628	8066629	8066630	8066631	8066632	8066633	8066634	8066635	8066636	8066637	8066638	8066639	8066640	8066641	8066642	8066643	8066644	8066645	8066646	8066647	8066648	8066649	8066650	8066651	8066652	8066653	8066654	8066655	8066656	8066657	8066658	8066659	8066660	8066661	8066662	8066663	8066664	8066665	8066666	8066667	8066668	8066669	80666610	80666611	80666612	80666613	80666614	80666615	80666616	80666617	80666618	80666619	80666620	80666621	80666622	80666623	80666624	80666625	80666626	80666627	80666628	80666629	80666630	80666631	80666632	80666633	80666634	80666635	80666636	80666637	80666638	80666639	80666640	80666641	80666642	80666643	806666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Pays : Haute Volta  
Country :

Localité : Kamboinsé  
Location :

Année : 1980  
Year :

Numéro d'entrée Entry No	Pedigree	Yield Rendement kg/ha	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plant height Hauteur plante	Ear height Hauteur insertion épis	Expérimentation : RFTT-1	
							Days to flower Jours à la floraison	Plant height Hauteur plante
6	TZE4 F.S.	6	1813	18	46	172	97	
11	" F.S.	11	1920	20	48	155	87	
12	" F.S.	12	1813	19	45	150	80	
14	" F.S.	14	2133	23	46	172	80	
20	" F.S.	20	2240	21	45	155	62	
27	" F.S.	27	1920	20	38	140	65	
29	" F.S.	29	1707	18	45	152	60	
31	" F.S.	31	1813	20	45	140	50	
37	" F.S.	37	1813	18	45	150	72	
42	" F.S.	42	2133	19	45	172	72	
43	" F.S.	43	1707	21	47	170	82	
44	" F.S.	44	2027	16	45	187	102	
45	" F.S.	45	2240	25	44	165	90	
46	" F.S.	46	2240	23	43	160	75	
52	" F.S.	52	2240	22	43	165	80	
55	" F.S.	55	2133	21	45	165	75	
59	" F.S.	59	1813	15	47	192	90	
62	" F.S.	62	1813	23	45	170	85	
63	" F.S.	63	1813	21	44	172	75	
66	" F.S.	66	2347	24	43	177	77	
69	" F.S.	69	2667	22	42	175	85	
78	" F.S.	78	2027	20	46	167	82	
81	" F.S.	81	2027	19	47	162	90	
82	" F.S.	82	2240	20	48	185	100	
84	" F.S.	84	1920	24	45	150	75	
91	" F.S.	91	1920	20	49	180	92	
98	" F.S.	98	1813	17	44	172	87	
102	" F.S.	102	1813	21	45	160	77	
118	" F.S.	118	1920	23	44	175	75	
121	" F.S.	121	2240	23	45	162	87	
125	" F.S.	125	1813	22	47	165	77	
129	" F.S.	129	1707	19	46	175	82	
132	" F.S.	132	1813	20	47	167	80	
137	" F.S.	137	1813	22	47	152	70	
138	" F.S.	138	1813	19	44	162	85	



Pays : Sénégal Localité : Sefia Expérimentation : RFTT-1 Année : 1980  
 Country: Location: Experiment: Year:

Numéro d'entrée Entry N°	Pedigree	Yield kg/ha	Plants harvested	Days to flower	Plant height Hauteur plante	Ear height Hauteur insertion épis
			Plantes récoltées	Jours à la floraison		
1	TZE4 F.S.	1440	21	49	137	69
12	" P.S.	1280	20	49	137	65
14	" P.S.	1227	19	42	154	71
16	" P.S.	1333	21	43	175	80
20	" P.S.	1175	22	45	138	76
27	" P.S.	1387	22	45	143	69
28	" P.S.	1120	22	45	160	85
29	" P.S.	1173	21	41	134	67
33	" P.S.	1173	22	45	147	74
35	" P.S.	1333	22	49	148	72
37	" P.S.	1333	22	48	146	79
40	" P.S.	1553	21	41	177	82
42	" P.S.	1653	21	45	168	87
43	" P.S.	1600	22	42	163	85
46	" P.S.	1493	22	40	160	81
47	" P.S.	1653	22	41	181	97
48	" P.S.	1387	22	47	147	75
51	" P.S.	1707	21	42	150	73
59	" P.S.	1120	22	45	145	76
60	" P.S.	1600	22	42	159	89
61	" P.S.	1493	22	44	154	77
63	" P.S.	1333	22	46	149	79
76	" P.S.	1227	21	48	136	74
78	" P.S.	1280	22	43	158	80
81	" P.S.	1547	21	55	152	70
82	" P.S.	1227	17	47	134	71
84	" P.S.	1653	22	41	150	72
88	" P.S.	1067	21	47	167	89
91	" P.S.	1260	22	54	138	70
92	" P.S.	1707	20	45	170	98
117	" P.S.	117	22	52	146	72
121	" P.S.	1387	22	47	149	70
125	" P.S.	1920	22	45	150	81
126	" P.S.	1333	22	46	158	82
129	" P.S.	1067	22	43	151	76



Pays : Sénégal  
Country:

Localité : Sefia  
Location :

Expérimentation : RFTT-2  
Experiment :

Année : 1980  
Year :

Numéro entrées Entry No	Pedigree	Yield kg/ha	Plants harvested	Days to flower	Plant height Hauteur plante	Ear height Hauteur insertion
			Plantes récoltées	Jours à la floraison	épis	
1	TZE3 P.S.	1067	22	43	152	85
2	" P.S.	2	1333	21	45	164
7	" P.S.	7	1387	22	48	171
8	" P.S.	8	1280	20	47	138
10	" P.S.	10	1173	21	44	142
11	" P.S.	11	1333	21	44	157
17	" P.S.	17	1333	21	42	162
24	" P.S.	24	1280	22	46	143
26	" P.S.	26	1653	21	48	160
36	" P.S.	36	1493	22	43	162
38	" P.S.	38	1173	22	47	126
43	" P.S.	43	1493	22	46	159
46	" P.S.	46	1440	21	44	147
49	" P.S.	49	1440	22	45	144
52	" P.S.	52	1066	21	44	143
53	" P.S.	53	1493	21	41	168
54	" P.S.	54	1227	21	43	135
57	" P.S.	57	1227	21	45	135
58	" P.S.	58	1387	20	47	175
59	" P.S.	59	1867	22	47	175
63	" P.S.	63	1227	20	46	153
67	" P.S.	67	1547	22	43	141
69	" P.S.	69	1760	21	43	151
71	" P.S.	71	1760	22	43	164
79	" P.S.	79	1120	15	40	132
85	" P.S.	85	1590	21	47	165
96	" P.S.	96	1546,6	20	48	173
99	" P.S.	99	1279,9	21	43	139
101	" TZE17 P.S.	1	1280	21	41	140
104	" P.S.	4	1280	20	50	141
116	" P.S.	16	1440	22	42	154
121	" P.S.	21	1173	21	45	162
127	" P.S.	27	1173	21	43	131
138	" P.S.	38	1120	22	46	145



Pays : Haute Volta      Localité : Saria      Expérimentation : RFTT-2      Année : 1980  
 Country :      Location :      Experiment :      Year :

Numéro entrées Entry No	Pedigree	Yield Rendement kg/ha	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plant height Hauteur plante	Ear height Hauteur insertion épis
1.	TZE3 F.S. 1	1493	19	40	187	73
2	" F.S. 2	1707	19	41	157	65
3	" F.S. 3	1600	20	40	170	70
4	" F.S. 4	1600	19	41	180	70
7	" F.S. 7	1707	25	40	185	80
8	" F.S. 8	1813	23	40	170	77
10	" F.S. 10	1813	23	40	162	60
11	" F.S. 11	1600	19	40	187	60
12	" F.S. 12	1387	22	39	175	57
17	" F.S. 17	1813	18	40	180	75
24	" F.S. 24	1493	16	40	175	67
29	" F.S. 29	1707	19	40	205	62
36	" F.S. 36	1707	16	40	195	55
40	" F.S. 40	1600	18	40	165	70
43	" F.S. 43	1387	20	40	162	67
44	" F.S. 44	1493	21	40	147	70
46	" F.S. 46	1493	20	40	135	47
47	" F.S. 47	1387	18	41	182	80
49	" F.S. 49	1707	20	40	147	50
50	" F.S. 50	1813	19	40	182	77
52	" F.S. 52	1493	17	40	170	67
53	" F.S. 53	1600	17	41	167	67
54	" F.S. 54	1600	17	40	172	70
57	" F.S. 57	1387	20	40	150	55
58	" F.S. 58	1600	18	40	185	77
63	" F.S. 63	1493	21	40	157	62
69	" F.S. 69	1387	16	40	167	82
70	" F.S. 70	1920	19	40	160	60
71	" F.S. 71	1600	19	40	180	75
73	" F.S. 73	1387	16	40	162	70
96	" F.S. 96	1600	18	40	167	70
99	" F.S. 99	1493	19	41	170	62
104	TZE17 F.S. 4	1920	21	40	150	62
114	" F.S. 14	1707	21	40	157	55
121	" F.S. 21	1707	20	41	160	57
135	" F.S. 35	1600	22	40	170	57



Pays : Haute Volta Country :

Localité : Bobo-Dsso

Expérimentation : RFTT-3

Année : 1980 Year :

Numéro d'entrée / Entry No	Pedigree	Rendement kg/ha	Yield harvested	Plants harvested	Days to flower	Plant height	Ear height
					Jours à la floraison	Hauteur plante	Hauteur insertion épis
1	TZPB F.S.	1	2133	16	60	2000	100
5	" F.F.	5	2133	16	61	182	110
6	" F.S.	6	2133	16	59	197	102
7	" F.S.	7	2240	15	60	240	147
8	" F.S.	8	2773	17	59	222	120
11	" F.S.	11	2240	15	60	180	95
14	" F.S.	14	3093	20	58	197	137
27	" F.S.	27	2240	16	61	200	117
28	" F.S.	28	2773	20	58	217	125
30	" F.S.	30	2347	18	62	190	110
33	" F.S.	33	2453	16	62	197	100
34	" F.S.	34	3307	19	58	207	127
36	" F.S.	36	2987	13	60	182	97
37	" F.S.	37	2133	17	62	217	120
38	" F.S.	38	2453	15	58	205	115
40	" F.S.	40	2240	16	61	237	140
44	" F.S.	44	2667	17	59	220	132
47	" F.S.	47	2773	15	60	272	125
50	" F.S.	50	2347	15	61	245	95
51	" F.S.	51	2133	15	62	170	102
56	" F.S.	56	3093	18	60	207	117
61	" F.S.	61	2667	18	61	120	120
73	" F.S.	73	2453	18	61	210	120
88	TZPB(PR)	F.S.4	2773	14	60	235	130
92	"	F.S.8	2880	18	62	222	120
98	"	F.S.14	2133	15	61	190	130
99	"	F.S.15	2240	17	59	217	125
102	"	F.S.18	2453	17	59	190	100
110	"	F.S.26	2240	19	61	180	90
118	"	F.S.34	2347	15	59	187	116
119	"	F.S.35	2773	17	62	162	90
120	"	F.S.36	2133	13	62	215	120
126	"	F.S.42	2453	17	60	202	112
131	"	F.S.46	2240	16	61	202	112
140	"	F.S.56	2453	20	60	197	110

Городище в Калужской губернии

Pays : Côte d'Ivoire      Localité : Ferké      Expérimentation : RFTT-3      Année : 1980  
 Country:      Location :      Experiment :      Year :

Numéro entrées Entry No	Pedigree	Yield Rendement kg/ha	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plant height Hauteur plante	Ear height Hauteur insertion épis
6	TZPB F.S. 6	4907	20	58	225	135
7	" F.S. 7	5547	19	57	245	145
9	" F.S. 9	4587	19	53	225	135
11	" F.S. 11	4587	19	53	248	148
14	" F.S. 14	5013	20	55	275	160
15	" F.S. 15	4693	19	56	248	138
17	" F.S. 17	4800	19	59	250	152
26	" F.S. 26	5120	21	55	265	160
27	" F.S. 27	4907	19	56	238	140
30	" F.S. 30	5013	20	57	235	135
41	" F.S. 41	5013	17	55	242	125
44	" F.S. 44	5013	21	56	235	140
48	" F.S. 48	4907	19	55	260	158
49	" F.S. 49	4907	18	57	242	138
50	" F.S. 50	4907	20	58	245	155
51	" F.S. 51	5013	20	57	255	148
53	" F.S. 53	5013	19	55	258	132
56	" F.S. 56	4587	20	56	260	142
60	" F.S. 60	4907	19	57	242	140
68	" F.S. 68	4907	18	55	260	148
75	" F.S. 75	4800	19	57	252	148
84	" F.S. 84	4800	20	55	248	142
90	TZPB(PR) F.S. 6	4693	17	58	252	130
94	" F.S. 10	5440	19	57	263	142
95	" F.S. 11	4587	18	56	250	142
96	" F.S. 12	4587	21	53	245	140
100	" F.S. 16	5547	19	56	268	157
105	" F.S. 21	4800	17	57	242	125
110	" F.S. 26	5013	19	55	268	155
111	" F.S. 27	4693	21	54	245	135
119	" F.S. 35	4587	20	57	242	137
127	" F.S. 43	4587	18	54	235	135
128	" F.S. 44	5120	19	56	242	140
131	" F.S. 46	4587	17	56	230	140
139	" F.S. 55	5120	21	57	257	142

Year	Distance (miles)	Time (hours)
1950	150	21.5
1955	175	21.5
1960	190	22
1965	205	22
1970	220	22
1975	235	22
1980	250	22
1985	265	22
1990	280	22
1995	295	22
2000	310	22
2005	325	22
2010	340	22
2012	345	22
2013	350	22
2014	355	22
2015	360	22
2016	365	22
2017	370	22
2018	375	22
2019	380	22
2020	385	22
2021	390	22
2022	395	22
2023	400	22
2024	405	22
2025	410	22
2026	415	22
2027	420	22
2028	425	22
2029	430	22
2030	435	22
2031	440	22
2032	445	22
2033	450	22
2034	455	22
2035	460	22
2036	465	22
2037	470	22
2038	475	22
2039	480	22
2040	485	22
2041	490	22
2042	495	22
2043	500	22
2044	505	22
2045	510	22
2046	515	22
2047	520	22
2048	525	22
2049	530	22
2050	535	22
2051	540	22
2052	545	22
2053	550	22
2054	555	22
2055	560	22
2056	565	22
2057	570	22
2058	575	22
2059	580	22
2060	585	22
2061	590	22
2062	595	22
2063	600	22
2064	605	22
2065	610	22
2066	615	22
2067	620	22
2068	625	22
2069	630	22
2070	635	22
2071	640	22
2072	645	22
2073	650	22
2074	655	22
2075	660	22
2076	665	22
2077	670	22
2078	675	22
2079	680	22
2080	685	22
2081	690	22
2082	695	22
2083	700	22
2084	705	22
2085	710	22
2086	715	22
2087	720	22
2088	725	22
2089	730	22
2090	735	22
2091	740	22
2092	745	22
2093	750	22
2094	755	22
2095	760	22
2096	765	22
2097	770	22
2098	775	22
2099	780	22
2100	785	22
2101	790	22
2102	795	22
2103	800	22
2104	805	22
2105	810	22
2106	815	22
2107	820	22
2108	825	22
2109	830	22
2110	835	22
2111	840	22
2112	845	22
2113	850	22
2114	855	22
2115	860	22
2116	865	22
2117	870	22
2118	875	22
2119	880	22
2120	885	22
2121	890	22
2122	895	22
2123	900	22
2124	905	22
2125	910	22
2126	915	22
2127	920	22
2128	925	22
2129	930	22
2130	935	22
2131	940	22
2132	945	22
2133	950	22
2134	955	22
2135	960	22
2136	965	22
2137	970	22
2138	975	22
2139	980	22
2140	985	22
2141	990	22
2142	995	22
2143	1000	22
2144	1005	22
2145	1010	22
2146	1015	22
2147	1020	22
2148	1025	22
2149	1030	22
2150	1035	22
2151	1040	22
2152	1045	22
2153	1050	22
2154	1055	22
2155	1060	22
2156	1065	22
2157	1070	22
2158	1075	22
2159	1080	22
2160	1085	22
2161	1090	22
2162	1095	22
2163	1100	22
2164	1105	22
2165	1110	22
2166	1115	22
2167	1120	22
2168	1125	22
2169	1130	22
2170	1135	22
2171	1140	22
2172	1145	22
2173	1150	22
2174	1155	22
2175	1160	22
2176	1165	22
2177	1170	22
2178	1175	22
2179	1180	22
2180	1185	22
2181	1190	22
2182	1195	22
2183	1200	22
2184	1205	22
2185	1210	22
2186	1215	22
2187	1220	22
2188	1225	22
2189	1230	22
2190	1235	22
2191	1240	22
2192	1245	22
2193	1250	22
2194	1255	22
2195	1260	22
2196	1265	22
2197	1270	22
2198	1275	22
2199	1280	22
2200	1285	22
2201	1290	22
2202	1295	22
2203	1300	22
2204	1305	22
2205	1310	22
2206	1315	22
2207	1320	22
2208	1325	22
2209	1330	22
2210	1335	22
2211	1340	22
2212	1345	22
2213	1350	22
2214	1355	22
2215	1360	22
2216	1365	22
2217	1370	22
2218	1375	22
2219	1380	22
2220	1385	22
2221	1390	22
2222	1395	22
2223	1400	22
2224	1405	22
2225	1410	22
2226	1415	22
2227	1420	22
2228	1425	22
2229	1430	22
2230	1435	22
2231	1440	22
2232	1445	22
2233	1450	22
2234	1455	22
2235	1460	22
2236	1465	22
2237	1470	22
2238	1475	22
2239	1480	22
2240	1485	22
2241	1490	22
2242	1495	22
2243	1500	22
2244	1505	22
2245	1510	22
2246	1515	22
2247	1520	22
2248	1525	22
2249	1530	22
2250	1535	22
2251	1540	22
2252	1545	22
2253	1550	22
2254	1555	22
2255	1560	22
2256	1565	22
2257	1570	22
2258	1575	22
2259	1580	22
2260	1585	22
2261	1590	22
2262	1595	22
2263	1600	22
2264	1605	22
2265	1610	22
2266	1615	22
2267	1620	22
2268	1625	22
2269	1630	22
2270	1635	22
2271	1640	22
2272	1645	22
2273	1650	22
2274	1655	22
2275	1660	22
2276	1665	22
2277	1670	22
2278	1675	22
2279	1680	22
2280	1685	22
2281	1690	22
2282	1695	22
2283	1700	22
2284	1705	22
2285	1710	22
2286	1715	22
2287	1720	22
2288	1725	22
2289	1730	22
2290	1735	22
2291	1740	22
2292	1745	22
2293	1750	22
2294	1755	22
2295	1760	22
2296	1765	22
2297	1770	22
2298	1775	22
2299	1780	22
2300	1785	22
2301	1790	22
2302	1795	22
2303	1800	22
2304	1805	22
2305	1810	22
2306	1815	22
2307	1820	22
2308	1825	22
2309	1830	22
2310	1835	22
2311	1840	22
2312	1845	22
2313	1850	22
2314	1855	22
2315	1860	22
2316	1865	22
2317	1870	22
2318	1875	22
2319	1880	22
2320	1885	22
2321	1890	22
2322	1895	22
2323	1900	22
2324	1905	22
2325	1910	22
2326	1915	22
2327	1920	22
2328	1925	22
2329	1930	22
2330	1935	22
2331	1940	22
2332	1945	22
2333	1950	22
2334	1955	22
2335	1960	22
2336	1965	22
2337	1970	22
2338	1975	22
2339	1980	22
2340	1985	22
2341	1990	22
2342	1995	22
2343	2000	22
2344	2005	22
2345	2010	22
2346	2015	22
2347	2020	22
2348	2025	22
2349	2030	22
2350	2035	22
2351	2040	22
2352	2045	22
2353	2050	22
2354	2055	22
2355	2060	22
2356	2065	22
2357	2070	22
2358	2075	22
2359	2080	22
2360	2085	22
2361	2090	22
2362	2095	22
2363	2100	22
2364	2105	22
2365	2110	22
2366	2115	22
2367	2120	22
2368	2125	22
2369	2130	22
2370	2135	22
2371	2140	22
2372	2145	22
2373	2150	22
2374	2155	22
2375	2160	22
2376	2165	22
2377	2170	22
2378	2175	22
2379	2180	22
2380	2185	22
2381	2190	22
2382	2195	22
2383	2200	22
2384	2205	

Pays : Sénégal  
Country:

Localité : Sefa  
Location :

Expérimentation : RFTT-4  
Experiment :

Année : 1980  
Year :

Numéro d'entrée Entry No	Pedigree	Yield kg/ha	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plant height Hauteur plante	Ear height Hauteur insertion épis
2	TZSR(Y) F.S. 2	1227	22	48	141	78
5	" F.S. 5	1067	22	50	171	87
8	" F.S. 8	1013	22	49	159	89
11	" F.S. 11	1173	22	53	139	74
16	" F.S. 16	1067	22	53	148	102
18	" F.S. 18	1120	22	54	143	80
21	" F.S. 21	1600	22	47	208	116
23	" F.S. 23	1333	22	54	179	104
28	" F.S. 28	1387	22	54	159	86
32	" F.S. 32	1280	22	55	144	76
33	" F.S. 33	1653	22	52	199	112
36	" F.S. 36	1067	21	52	146	76
37	" F.S. 37	1547	21	48	179	105
42	" F.S. 42	1173	21	55	181	91
43	" F.S. 43	1280	21	54	170	91
47	" F.S. 47	1227	22	50	166	89
48	" F.S. 48	1120	19	53	202	122
55	" F.S. 55	1173	22	57	212	122
60	" F.S. 60	1067	22	58	174	92
63	" F.S. 63	1280	22	55	193	104
74	TZPB(PR) F.S. 62	1067	19	58	174	99
77	" F.S. 65	1387	21	46	203	124
81	" F.S. 69	1013	22	52	150	87
82	" F.S. 70	1013	21	46	190	114
83	" F.S. 71	1120	22	55	176	96
84	" F.S. 72	1493	22	49	197	106
95	" F.S. 83	1013	22	57	150	78
96	" F.S. 84	1013	22	57	195	108
101	" F.S. 89	1013	22	59	196	108
106	" F.S. 94	1227	22	55	206	126
108	" F.S. 96	1067	22	49	217	119
110	" F.S. 98	1120	22	49	167	76
114	" F.S. 102	1173	22	58	224	115
118	" F.S. 106	1120	21	55	184	96
132	" F.S. 120	1013	22	57	177	99
137	TZPB Bulk	1387	22	54	178	105



Pays : Côte d'Ivoire Localité : Ferké Expérimentation : RTIPI-4 Year : 1980  
 Country : Location : Experiment : RTIPI-4 Année :

Numéro d'entrée Entry No	Pedigree	Yield harvested Rendement récoltées kg/ha	Plants flowered Plantes fleuries	Days to flower Jours à la floraison	Plant height Hauteur plante	Ear height Hauteur épis
2	TZSR (Y)	2	4480	18	52	230
7	F.S.	7	4587	20	55	218
10	"	10	4267	20	57	222
12	"	12	4480	16	54	212
13	"	13	4693	18	52	218
16	"	16	4693	20	53	230
17	"	17	4267	16	50	200
20	"	20	4567	16	52	235
24	"	24	4693	18	51	235
28	"	28	4587	38	52	215
29	"	29	4373	20	52	218
33	"	33	4480	20	53	235
34	"	34	4480	21	52	200
38	"	38	4373	19	55	205
42	"	42	4900	20	54	225
50	"	50	4373	20	53	228
57	"	57	4693	18	52	230
69	"	69	4373	18	53	248
74	TZPB(PR)	62	5120	18	55	228
78	"	66	4693	19	53	235
80	"	68	4693	18	54	232
81	"	69	4490	18	52	240
83	"	71	4480	20	55	225
87	"	75	6293	17	57	248
90	"	78	5120	18	54	232
94	"	82	4267	18	52	235
96	"	84	4267	20	54	262
99	"	87	4373	17	56	232
104	"	92	4900	18	56	215
106	"	94	4587	18	54	245
107	"	95	4480	17	54	213
108	"	96	5013	20	56	243
110	"	93	4587	20	52	252
114	"	102	4693	20	54	242
118	"	106	4907	20	56	232
122	"	110	5333	19	56	258
125	"	115	4267	20	54	242
132	"	120	4587	20	54	245
134	"	122	5227	20	52	255

Pays : Haute Volta      Localité : Kamboinsé      Expérimentation : RFTT-4      Année : 1980  
 Country:      Location:      Experiment:      Year:

Numéro d'entrée Entry No.	Pedigree	Yield Rendement kg/ha	Plants harvested Plantes récoltées	Days to flower Jours à la floraison	Plant height Hauteur plante	Ear height Hauteur insertion épis
2	TZSR(Y) F.S.	2453	21	53	235	142
4	" F.S.	2027	24	56	192	105
7	" F.S.	1920	21	55	202	122
8	" F.S.	2133	22	55	187	115
11	" F.S.	1920	20	55	182	110
12	" F.S.	1920	21	57	165	90
13	" F.S.	2027	23	55	172	95
17	" F.S.	1920	21	54	130	80
21	" F.S.	2027	22	54	197	112
23	" F.S.	1920	21	56	220	115
24	" F.S.	1920	19	54	165	102
26	" F.S.	2027	21	55	205	115
34	" F.S.	2240	26	55	167	95
36	" F.S.	2027	22	56	180	82
39	" F.S.	1920	21	57	205	130
43	" F.S.	2347	21	54	205	115
45	" F.S.	2133	17	54	182	92
46	" F.S.	1813	18	55	187	105
47	" F.S.	1920	20	56	187	100
50	" F.S.	2453	22	54	212	115
69	" F.S.	2453	22	57	185	107
70	" F.S.	1920	17	53	215	130
77	TZPB(PR) F.S.	2027	18	56	212	112
79	" F.S.	2560	22	57	182	110
81	" F.S.	2133	20	54	187	100
82	" F.S.	2240	19	56	187	105
94	" F.S.	2133	21	57	180	107
102	" F.S.	1920	23	56	212	137
106	" F.S.	2027	22	56	185	130
118	" F.S.	1813	20	58	205	117
122	" F.S.	2027	21	58	200	115
132	" F.S.	2027	20	55	185	105
137	TZPB Bulk.	2133	20	55	197	115



PROCEDURE FOR DATA COLLECTION (ALL SARMAT TRIALS)

1. Days to flower : The number of days from germination to when 50 % of the plants have silks.

2. Plant height : Place a metered measuring stick in the centre of each plot at the base of the plant. Read average height of the plants from base of the plant to the flag leaf node. Record in centimeters.

3. Ear height : Use same procedure as for plant height. Read average ear height form the base of the plant to the node bearing the uppermost ear.

4. Root lodging : Record actual number of plants showing root lodging per plot, a week before harvest.

5. Stem lodging : Record actual number of stem lodged per plot, a week before harvest.

6. Foliar diseases : Foliar diseases like rust, blight, curvularia should be recorded separately. Score (rating scale) of 1 to 5 is to be used. A score of 1.0 indicates free from disease and a score of 5.0 indicates very heavily infected. Score of 2.0, 3.0 and 4.0 will be for the level of infection between no disease (1.0) to much disease (5.0). Foliar diseases to be recorded 2 - 3 weeks after silking.

7. Insect damage : Use the same rating scale (scores) of 1.0 to 5.0 for recording insect damage. Score of 1.0 means no damage and 5.0 means too much damage. Scores of 2.0, 3.0 and 4.0 are intermediate scores.

8. Plants harvested : Count and record actual number of plants which will be harvested per plot (1 row for RFTT and 4 rows for RUVT) about 1 to 2 days prior to harvesting.

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LETTERS RECEIVED DURING THE MONTH OF MAY, 1900.

Letters received during the month of May, 1900, will be found on pages 111 to 115.

Letters received during the month of June, 1900, will be found on pages 116 to 120.

Letters received during the month of July, 1900, will be found on pages 121 to 125.

Letters received during the month of August, 1900, will be found on pages 126 to 130.

Letters received during the month of September, 1900, will be found on pages 131 to 135.

Letters received during the month of October, 1900, will be found on pages 136 to 140.

Letters received during the month of November, 1900, will be found on pages 141 to 145.

Letters received during the month of December, 1900, will be found on pages 146 to 150.

9. Field Weight (Yield) : Harvest the whole plot of each entry i.e. 1 m<sup>2</sup> of RFTT & 4 rows of RUVT. Harvest all plants including the end plants from each plot. Report field weight (weight of freshly harvested dehusked ears) - (ears without the husk covers) in kilo grams correctly to one place of decimal. For example 4.5, 2.0, 0.8 etc...

10. Moisture Percent : This is the moisture percent in the grains at harvest. Moisture percentage should be recorded for each entry to one place of decimal.

11. Dry Weight : Where the facility of recording moisture percentage does not exist, data on dry weight is necessary. If moisture % can be recorded there is no need to record dry weight. After harvesting all the plants in a plot, field weight is recorded as described earlier. Carefully, put all the ears of each plot separately in cloth or gunny sac (one bag for each plot) and dry the ears for several days ; till the moisture in all the entries become more or less uniform. Drying in the sun for about one week should normally be enough for this purpose. After drying take the weight of all the ears per plot and record in kilo grams to one place of decimal.

12. Number of ears : Count the total number of ears harvested per plot.

13. Other characters : Record data on any other character not included here if you think that to be important for your national programs. Data taken on such characters should be clearly indicated in the data sheet indicating the additional character and procedure used to record.

Management of the trial : It is strongly recommended that each trial should receive appropriate fertilizer and other management inputs. The actual amounts of and types of fertilizer to be used will depend on the recommendations for the environment in which trial will be conducted in your country. Likewise, the technology needed for protection against insect pests, birds, animals etc... will also depend on local conditions. However, it is very important that all measures be taken to grow a good crop of maize with high managerial skills to get most reliable data from these trials.



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Department of Rural Economy and Agriculture (DREA)

African Union Specialized Technical Office on Research and Development

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1981-05

# **SEM-ARID REGIONAL MAIZE ADAPTATION TESTING (SARMAT) RESULTS AND REPORT 1980**

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