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WEST AND CENTRAL AFRICA
SORGHUM RESEARCH NETWORK
(WECASORN)
SUMMARY OF ACHIEVEMENTS

633.1
WEC

(ALSO AVAILABLE IN SLIDES)

633.1
WEC

WECASORN

HISTORY

- **FIRST REGIONAL WORKSHOP
27-30 NOVEMBER 1984
IDEA OF NETWORK APPROVED**
- **1985 WECASORN BECAME OPERATIONAL
STEERING COMMITTEE FORMED**
- **SEPTEMBER 1, 1986. PHASE II OF
SAFGRAD STARTED
FUNDING OF WECASORN 1.6 MILLION
DOLLARS BY USAID**
- **ICRISAT PROVIDES COORDINATOR
SEPTEMBER 1986**

WECASORN

MEMBER COUNTRIES

- | | |
|-----------------------------|-------------------|
| 1. BURKINA FASO | 13. GUINEA BISSAU |
| 2. CAMEROON | 14. MAURITANIA |
| 3. MALI | 15. SENEGAL |
| 4. NIGER | 16. SIERRA LEONE |
| 5. NIGERIA | 17. TOGO |
| 6. COTE D'IVOIRE | |
| 7. GHANA | |
| 8. BENIN | |
| 9. CENTRAL AFRICAN REPUBLIC | |
| 10. CHAD | |
| 11. GAMBIA | |
| 12. GUINEA | |

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WECASORN OBJECTIVES

1. CONTRIBUTE TO INCREASE IN SORGHUM PRODUCTION
2. STRENGTHEN NATIONAL AGRICULTURAL RESEARCH SYSTEMS (NARS)
3. DEVELOP IMPROVED SORGHUM VARIETIES AND HYBRIDS
4. DEVELOP IMPROVED AGRONOMIC/MANAGEMENT PRACTICES
5. REGIONAL TESTING OF IMPROVED GENOTYPES
6. DEVELOP AGRICULTURAL RESEARCH MANPOWER AT ALL LEVELS IN NARS
7. ORGANIZE WORKSHOPS AND EXCHANGE VISITS

WECASORN
MAJOR ACTIVITIES

1. STEERING COMMITTEE MEETINGS
2. TRAINING
3. REGIONAL TRIALS/NURSERIES
4. RESEARCH PROJECTS
5. MONITORING TOURS
6. REGIONAL WORKSHOPS
7. EXCHANGE VISITS TO NARS

WECASORN
ACHIEVEMENTS: 1986-1992

1. POLICY

**MAJOR DECISIONS TAKEN AT
ELEVEN STEERING COMMITTEE
MEETINGS**

COMMITTEE MEMBERS

- MALI (CHAIRMAN)
- BURKINA FASO
- CAMEROON
- SENEGAL
- NIGERIA
- CHAD

WECASORN

ACHIEVEMENTS: 1986-1992

2. TRAINING

- STRIGA CONTROL - 1987
- AGRONOMY/ON-FARM TESTING - 1989
- PLANT PROTECTION - 1991

3. REGIONAL TRIALS

- WEST AFRICAN SORGHUM VARIETY ADAPTATION TRIAL - EARLY DURATION (WASVAT-E) 1986-1992
- WASVAT - MEDIUM DURATION - 1986-1992
- WEST AFRICAN SORGHUM HYBRID ADAPTATION TRIAL (WASHAT) - 1986-1992
- WEST AFRICAN SORGHUM DISEASE RESISTANCE NURSERY (WASDRN) - 1987-1992
- WEST AFRICAN SORGHUM STRIGA TRIAL (WASST) - 1988-1992

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ACHIEVEMENTS: 1986-1992

6. REGIONAL WORKSHOPS

- 1988: IN CAMEROON, 52 PARTICIPANTS FROM 14 COUNTRIES
- 1991: IN NIGER, 20 PARTICIPANTS FROM 16 COUNTRIES

7. EXCHANGE VISITS

- 1989: REPRESENTATIVE FROM MALI VISITED SENEGAL AND GAMBIA
- 1990: REPRESENTATIVE FROM NIGERIA VISITED GHANA
- 1990: REPRESENTATIVE FROM BURKINA FASO VISITED BENIN

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ACHIEVEMENTS: 1986-1992

4. RESEARCH PROJECTS IN LEAD NARS

- ANTHRACNOSE IN BURKINA FASO
- LONG SMUT IN NIGER
- HEAD BUGS IN MALI
- STRIGA IN CAMEROON
- WHEAT-SORGHUM FLOUR IN NIGERIA

5. MONITORING TOURS

1986 (1): SIX PARTICIPANTS VISITED CAMEROON, GAMBIA,
NIGERIA, SENEGAL

1986 (2): FIVE PARTICIPANTS VISITED BURKINA FASO

1987 : ELEVEN PARTICIPANTS VISITED BURKINA FASO

1988 : SEVEN PARTICIPANTS VISITED MALI, BURKINA FASO, NIGER

1991 : THREE PARTICIPANTS VISITED MALI

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TECHNOLOGY TRANSFER - THE QUESTION OF IMPACT

1. VARIETY AND HYBRID TRIALS

- IN 1986 ALL ENTRIES IN WASVAT-E, WASVAT-M,
WASHAT FROM ICRISAT
- BY 1991, 73% FROM NARS FOR WASVAT-E
53% FROM NARS FOR WASVAT-M
11% FROM NARS FOR WASHAT

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TECHNOLOGY TRANSFER - THE QUESTION OF IMPACT

1. VARIETY AND HYBRID TRIALS (CONTINUED)

- 206 VARIETIES TESTED IN WASVAT-E AND WASVAT-M 1986-1992
- 35 (=17%) OF THEM IN VARIOUS LEVELS OF USE IN NARS
- 17 OF THE 35 FROM NARS, REMAINING 18 FROM ICRISAT
- 13 (37%) IN FARMERS FIELDS IN NARS
- 6 (17%) IN ON-STATION IN 3 NARS
- 1 (3%) IN DEMONSTRATION IN 1 NARS
- 1 (3%) IN MULTILLOCATION IN 1 NARS
- 8 (23%) IN PRE-RELEASE IN 5 NARS
- 1 (3%) RELEASED IN 1 NARS
- 20 (57%) IN CROSSES IN 4 NARS
- 1 (3%) AS LOCAL DRINK IN 3 NARS
- 2 (6%) AS SOLID FOOD IN 2 NARS

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TECHNOLOGY TRANSFER - THE QUESTION OF IMPACT

2. DISEASE NURSERY AND *STRIGA* TRIAL

- 15 VARIETIES RESISTANT TO LEAF ANTHRACNOSE
- 35 VARIETIES RESISTANT TO GRAY LEAF SPOT
- 16 VARIETIES SUPPORTED LOW STRIGA POPULATION

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TECHNOLOGY TRANSFER - THE QUESTION
OF IMPACT

3. PRE-RELEASED VARIETIES

CSM 388 (FROM MALI) IN GUINEA

CE 180-33 (FROM SENEGAL) IN SENEGAL

MALISOR 84-1 (FROM MALI) IN SENEGAL

ICSV 1063 BF (FROM ICRISAT) IN COTE D'IVOIRE AND MALI

ICSV 401 IN (FROM ICRISAT) IN MALI

ICSV 111 IN (FROM ICRISAT) IN GHANA

ICSV 16-5 BF (FROM ICRISAT) IN GHANA

4. RELEASED VARIETY

F2-20 (FROM SENEGAL) IN SENEGAL

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TECHNOLOGY TRANSFER - THE QUESTION OF IMPACT

5. DISEASE RESISTANT VARIETIES

84 IN 848 (FROM ICRISAT) - GRAY LEAF SPOT
TEST FARMERS' FIELDS IN GUINEA

IS 3443 (ICRISAT GERMPLASM) - LEAF ANTHRACNOSE
TEST FARMERS' FIELDS IN GUINEA

BF 83-3/48-2-1 (FROM BURKINA FASO) - GRAY LEAF SPOT
TEST FARMERS' FIELDS IN GUINEA

use of materials at some level in NARS

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RESEARCH PROJECTS
SOME SIGNIFICANT RESULTS

1. ANTHRACNOSE - BURKINA FASO

- 44 LOCAL VARIETIES RESISTANT TO LEAF, STEM AND GRAIN INFECTION
- 19 LOCAL AND THREE IMPROVED VARIETIES WITH RATE REDUCING-LIKE RESISTANCE

2. LONG SMUT - NIGER

- LATE MATURING VARIETIES MORE SUSCEPTIBLE
- SPORIDIA MORE EFFECTIVE THAN TELIOSPORES FOR ARTIFICIAL INOCULATION

3. HEAD BUGS - MALI

- POPULATION DYNAMICS; TWO PEAK PERIODS IN LATE SEPTEMBER AND OCTOBER
- EARLY PLANTING = NO ATTACK. TWO GENERATIONS DEVELOPED ON LATE PLANTING SORGHUMS
- NINE VARIETIES RESISTANT AFTER ARTIFICIAL INOCULATION

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RESEARCH PROJECTS

SOME SIGNIFICANT RESULTS

4. WHEAT-SORGHUM FLOUR - NIGERIA

- 50% SORGHUM FOR BREAD, 60% FOR CONFECTIONERY
- ADDITION OF 0.5% CASSAVA FLOUR = MORE SPONGY BREAD
- WHEAT-SORGHUM BREAD MORE POPULAR AMONG LOW INCOME GROUPS

5. STRIGA - CAMEROON

- 14 PROMISING LINES IDENTIFIED AFTER SCREENING IN SICK PLOTS

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**TECHNOLOGY TRANSFER - THE QUESTION
OF IMPACT**

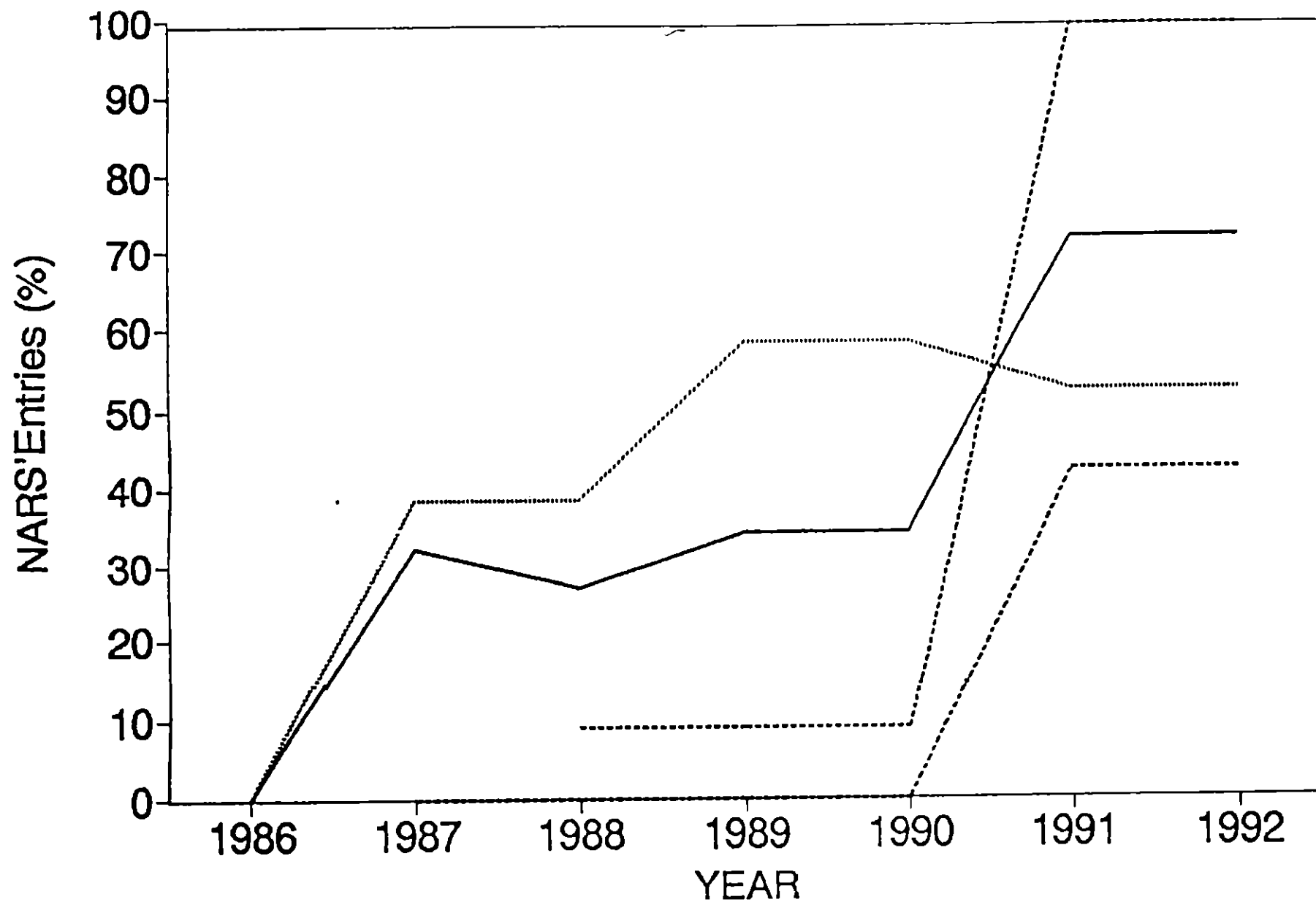
6. VARIETIES WHICH SUPPORTED LOW STRIGA COUNTS

CS 95 (FROM CAMEROON) - TESTS FARMERS' FIELDS IN SENEGAL,
IN CROSSES IN TOGO

CS 54 (FROM CAMEROON) - IN CROSSES IN SENEGAL AND TOGO

ICSV 1079 BF (FROM ICRISAT) - IN CROSSES IN MALI AND TOGO

ICSV 1078 BF (FROM ICRISAT) - IN CROSSES IN MALI AND TOGO



— Wasvat early — Wasvat medi - - - Wasldn Striga

Figure 1 : Test entries from NARS in regional trials .

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<http://archives.au.int>

Department of Rural Economy and Agriculture (DREA)

African Union Specialized Technical Office on Research and Development

1986

WEST AND CENTRAL AFRICA SORGHUM RESEARCH NETWORK (WECASORN) SUMMARY OF ACHIEVEMENTS

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