

IITA Rice Collection

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Plant breeders all over the world make use of the variability in a given crop to improve the desirable plant characters. Variability could not be created but the natural available variability is necessary as a starting point. Therefore the rice breeding section has a modest rice collection of about 3,000 from different parts of the world.

The attached table indicates source number available from the source and TOs numbers for the accession.

Objectives

1. To screen under West African conditions for upland variety
2. To screen for irrigated variety
3. To select entries resistant to African pests and diseases
4. To obtain materials with good grain qualities acceptable to West African consumers.
5. To have materials available to effect many crosses.
6. To supply varieties and lines to requesting research stations and agents within and outside West Africa
7. To conserve the important West African and other rice germplasm in West Africa.

Storage

Rice seed viability could be maintained for over 3 years under low temperature and low humidity. For example at IITA our long term large seed storage is kept at 5°C and 40% R.h. The small indefinite seed storage is maintained at about -7°C to -4°C and

10% R.h.

Viability test and Maintenance

A check on viability is done about once every 2 - 3 years. Those with low viability are either grown and increased or replaced by newly harvested samples.

Accession Files

The file contains informations such as date of receipt of seeds, TOs number, varietal name or pedigree number and the source.

Field Records on accessions

Field notes are taken on the entries which are usually grown under both irrigated and upland conditions. In future these informations will be transferred unto computer cards.

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IITA RICE GERMPLASM SITUATION

Table 1

JUNE 7TH 1973

Serial No.	Country/Source	Accession(TOs) Numbers	Total
1	Afghanistan	763	1
2	Africa(countries unspecified)	261-264, 580-590, 592-602, 738-739	28
3	Argentina	453	1
4	Australia	404-420,	17
5	Bangladesh	349-366, 756, 788, 780-833, 838	65
6	Bolivia	459	1
7	Brazil	258, 454-458	6
8	Burma	704, 705	2
9	Cameroun	850	1
10	Ceylon	706-708, 740, 834	5
11.	China		1
12.	Colombia	460, 836-837	3
13	Costa Rica	451	1
14	Cuba	206	1
15	Ecuador	461	1
16	El Salvador	429-450, 591	23
17	Fiji	757	1
18	France	868-874	7
19	Gambia	846	1
20	Hispaniola	628-634	7
21	India	574-575, 709-712, 737, 741-745 753, 776, 856-867	26
22	Indonesia	183, 242, 369-403, 735, 749- 752, 762, 764-773, 2048-2049	55
23	Iran	607, 760	

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IITA RICE GERMPLEASE SITUATION

Serial No.	Country/Source	Accession(TOs) Numbers	Total
24	Ivory Coast	847-849, 1136, 1143	11
25	Jamaica	635-639	5
26	Japan	233-241, 245-257, 302-304, 348, 576, 699-703, 713	33
27	Liberia	642-645, 1104, 1105, 1304-1306	9
28	Malaysia	714-721, 755	9
29	Malagasy	953-982	
30	Mauritania	1106, 1107	2
31	Mexico	590, 640-641	3
32	Nepal	608-611	4
33	Nigeria	486, 661-665, 667-677, 678-687, 692-698, 842, 851-855, 1122, 2050-2053	36
34	Nigeria(IITA)	1045, 1051-1093, 1144-1303, 1307-2043, 2047, 2054, 2902	1630
35	Pakistan	759	1
36	Panama	452, 579	2
37	Papua	722, 723	2
38	Peru	462-477	16
39	Philippines	117, 146-155, 184-205, 207-227, 243, 259-260, 305, 421-428, 725, 726, 746-748, 754.	67
40	Philippines(IRRI)	1-97, 102-116, 118-145, 156-182, 488-573, 668-676, 688-690, 696, 907-952, 984-1041, 1046-1050, 1108-1121, 1123-1135	400
	Puerto Rico	612-627	16
	Senegal	603-606, 774, 835, 843-845, 1094-1103.	17
	Sierra Leone	875-906	32

Serial No.	Country/Source	Accession(TOs) Numbers	Total
44	Surinam	100-101, 228-232, 482-485, 2044-2046	15
45	Taiwan	265-271, 301, 727-728,	10
46	Thailand	293-300, 306-347, 367-368, 729-730, 736, 761, 775, 777- 779, 983	61
47	Togo	1042-1045	4
48	U. S. A.	98-99, 244, 272-292, 577-578, 646-660, 697-698, 724, 758, 839-841	50
49	Venezuela	478-481, 487	5
50	Vietnam	731-734	4
		Grand Total	2,727 =====