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(100) Carballo Q.,Alfredo

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RESULTS OF THE FIRST INTERNATIONAL MAIZE ADAPTATION NURSERY (IMAN) 1970-1971

Compiled by: Alfredo Carballo Q.

Computer programing by: Abel G. Mexas, Ford Foundation Statistician and Head of Computing Center, Colegio de Postgraduados, Escuela Nacional de Agricultura, Chapingo, México

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RESULTS OF THE

FIRST INTERNATIONAL MAIZE ADAPTATION NURSERY
(I M A N)

1970-1971

Introduction

The International Maize Adaptation Nursery is one of the series of international trials coordinated by CIMMYT's Maize Program.

This nursery has been designed to test initially the adaptation of maize varieties from many areas of the world, over a wide range of latitudes, climates, fertility conditions, water management and disease and insect complexes.

Not only will these trials serve as a source of information concerning the adaptability of maize, but also they provide a means of testing promising materials on a much broader basis than is usually available to an individual breeder; and serve as a source of new, valuable genetic materials for use by the cooperators either directly or in crosses.

MATERIALS ENTERED FOR TESTING

Description

Variety No. 1. FUNKS G-43, from Canada. Double-cross closed pedigree. An early hybrid with 78 days to pollen shedding, 133 days to maturity. Lines from the Canada Department of Agriculture Maize Program, at Ottawa, Ontario. Potential yield 8406 kg/ha at 48,000 plants per hectare. Rain fed.

2. H-511, from Kenya . Intervarietal cross produced by the Ministry of Agriculture Maize Research Section at Kitale. Formed by crossing two early maturity synthetics (Katumani Syn. 2nd. cycle of Rec. Sel. from Mackakos local white), and two late maturity synthetics (Kitale double-cross hybrid 621 from local white maize, and a collection from the Mexican race Comiteco). Days to pollen shedding 85-90, to maturity 145-155. Medium maturity for Kenya. Potential yield 8000 Kg/ha. at 51,000 plants per hectare in experimental plots. Rain fed.

3. AGROCERES M-206, from Brasil . Single-cross hybrid produced by Sementes Agrocers, S. A., Caixa Postal 30-723, S.P., Brasil; from Cateto lines. Cateto is an orange-flint Brasilian race. Highly prolific. Seventy days to pollen shedding. Potential yield 5-6000 Kg/ha. at 40,000 plants per hectare. Rain fed.

Variety No. 4. P.M.S. 264, from Perú. Synthetic variety produced by the Universidad Agraria "La Molina" Maize Program, Lima. A combination of 22 S'_1 lines from Cuban Dent varieties, selected for general combining ability. Days to pollen shedding 105, to maturity 165. Medium prolific. Potential yield 5,000 Kg/ha. at 55,000 plants per hectare. Irrigation.

5. PIONEER X - 304 A, from Jamaica . Double-cross hybrid produced by Pioneer Hi-Bred International Inc., P.O. Box 112, Spanish Town, Jamaica. Closed pedigree. Three lines derived from Caribbean Germplasm and one line from Florida Composite. Days to pollen shedding 53-55, to maturity 115. Potential yield 6,500 Kg/ha. at 36,000 plants per hectare. Irrigation and Rain fed.

6. HARAPAN, From Indonesia .

7. SINT. NICARAGUA 2. from Nicaragua . Synthetic variety produced by the Ministry of Agriculture at "La Calera", Managua, Nicaragua. Lines derived from the cross of a local variety to several collections from the Caribbean. Days to pollen shedding 47, to maturity 90. Potential yield 3,500 Kg/ha. at 50,000 plants per hectare. Medium prolific. Rain fed.

8. SINT. LIN. RES. ACH., from México. Synthetic variety produced by CIMMYT from 46 S_1 lines derived from the cross Cuba Comp. x

Variety No. Dominican Republic Comp. Lines were tested for their tolerance to stunt virus, and recombined for 3 generations by means of a modified ear-to-row scheme. Good source of resistance to stunt virus disease.

9. P.B. 5 from Thailand. Open-pollinated variety. Has gone through 5 cycles of mass selection. Produced by the Ministry of Agriculture, Bangkok, Thailand. The original variety was introduced to Thailand in 1950. It was produced at the Iowa Tropical Research Center in Guatemala in 1945 and was originally knows as "Tiquisate Golden Yellow". Days to flower 58-60, to maturity 110-115. Commercial variety widely grown in Thailand. Potential yield (experimentally) 6,000 Kg/ha. at 40-50,000 plants per hectare. Tolerant to most local diseases. Rain fed.

10. ATHERTON DENT, from Australia. Open-pollinated variety. A miscellaneous mixture of dent varieties probably originating from Southern U.S.A., and grown on the Atherton Tableland for the past 60 years. A commercial variety not much used now. Seems to have horizontal resistance to a range of leaf diseases. Days to flower 65-70, to maturity 180. Potential yield 4,500 Kg/ha. at 25,000 plants per hectare.

11. COMP. CARIBE C_3 from México . Composite produced by CIMMYT from 166 collections from the Caribbean, recombined for 3 cycles using a modified ear-to-row scheme mild selection practiced for extremely diseased, off-type plants. Relatively unselected good source population.

Variety No. 12 TUXP. COMP. C_3, from Mexico . Composite produced by CIMMYT from crosses among 600 collections of the Tuxpeño race, adapted to altitudes between 0-1000 m. Third cycle of recombination following a modified ear - to - row schemes. Mild selection for disease and ear rots during cycles of recombination. Unselected population. Good source population.

13. CORTAZAR M-C_4, from Mexico ; Composite produced by CIMMYT comprising germplasm from San Luis Potosí, Chiapas, Puebla, Veracruz and Colima, México. An inter-racial composite mass selected for yield per plant for 4 cycles. Adapted to intermediate to high elevations 16000-2200 m. Good source population.

14. H-512, from Kenya. Varietal hybrid produced by Kenya Seed Co., Ltd. P.O. Box 553, Kitale, Kenya. A single-cross from lines of Southern African origin and a varietal hybrid derived from composite populations from Kenya and South America. Days to flower 65, to maturity 153. Potential yield 4,000 kg/ha at 53,300 plants per hectare. Medium prolific. Moderately resistant to Helminsthosporium turcicum and Puccinia sorghi. Good lodging resistance. Irrigation and Rain fed.

15. LALTINE, from Indonesia.

Variety No. 16. ETO BLANCO, from Colombia. Open-pollitated variety. White derivative from a composite made up of a range of materials from Colombia, Venezuela, USA, and the Caribbean. Was obtained many years ago by the Ministry of Agriculture of Colombia. Excellent combiner with Tuxpeño and many other dents. Grain texture is basically flint. Has produced many outstanding inbred lines involved in several commercial hybrids in Latin America, as well as several commercial intervarietal crosses. Eto Amarillo (yellow) was also derived from the same original mixture.

17. CENTRALMEX, from Brasil. Synthetic variety produced by the Escola Superior de Agricultura, "Luiz de Queiroz", Universidad de Sao Paulo, Caixa Postal 83, Piracicaba, S.P., Brasil. A cross between Piramex (Synthetic of 20 S_1 lines from varieties of Tuxpeño) and America Central (a combination of 16 S_1 lines from Cuba Yellow Dent, 9 S_1 lines from a variety from Hawaii, and 1 S_1 line from the Virgin Islands). Days to flower 75. Potential yield 7,000 kg/ha. at 50,000 plants per hectare. Rain fed.

18. SINT. 10 LIN. AM. CRIST., from Mexico. Synthetic variety produced by CIMMYT through selection and recombination of 10 lines derived from variety PD $(MS)_6$ from Cuba. Lines selected for flinty endosperm. A good source population.

Variety No. 19. H-507, from México. Double-cross produced by INIA, Chapingo, México. Adapted to the low-land hot-humid tropics. A commercial double -cross grown in Mexico and other countries in Latin America. Lines from Tuxpeño.

20. (USA x CARIB. COMP) from México. Composite obtained by CIMMYT through combination of U.S.A. germplasm with a synthetic of lines derived from Cuba and Dominican Republic germplasm. A good source population.

21. COMP. NORTEAMERICANO, from Perú. Composite obtained by the Universidad Agraria "La Molina" Maize Program, Lima. A combination of inbred lines, single-crosses, synthetics, Double-crosses and several other sources of germplasm from the USA.

22. (MIX 1 x COL. GPO. 1) x ETO BL., from México. Composite obtained by CIMMYT by crossing Mix. 1 a Tuxpeño from Guatemala to a Tuxpeño composite from Colima, México, and to Eto Blanco from Colombia, Sixth cycle of mass selection for yield per plant.

23. H-613 B, from Kenya. Varietal hybrid produced by Kenya Seed Co. Ltd. Single cross from lines derived from local Kenya Flat White and an open-pollinated variety from Ecuador (Ecuador 573). Days to Flower 92, to maturity 230. Potential yield 5,900 kg/ha at 44,000 plants /ha. Rain fed, Irrigation. Notable for its resistance to H. turcicum and P. sorghi.

Variety No. 24. H. ABATI 2 from Argentina. Double-cross hybrid produced by INTA. Two lines from populations of local red maize, 1 line from a yellow-red local population, and 1 line derived from a cross of local material by variety ETO from Colombia. Days to flower 89, to maturity 150. Potential yield 4,500 Kg/ha at 45-50,000 plants/ha. Rainfed. Resistant to root lodging.

25. Ko. No. 6 from Japan. Double-cross hybrid produced by the Hokkaido University. Dent x Flint. Dent lines from progenies of commercial F_1 hybrids from U.S.A., and flint lines from Japanese local flint variety. Days to flower 90, to maturity 150. Potential yield 6000 Kg/ha. at 55,000 plants /ha. Rain fed. Ear bearing tillers. Lodging resistant.

26. POEY T-66, from México. Double-cross hybrid produced by Semillas Poey, S. A., Liverpool 143, México 6, D. F., México. Closed pedigree. Four lines derived from Cuban Flint. Resistant to corn-stunt virus (Achaparramiento). Tolerant to Helminthosporium. Potential yield 4000 - 4500 Kgs/ha. at 40,000 plants/ha. Days to flower 60-65, to maturity 130-140. Rain Fed. Irrigation.

27. POEY B-15, from México. A top-cross produced by Semillas Poey, S. A., México. The female parent is an improved population derived from the cross Tolimán x Celaya 2. The male parent is an inbred line derived from the cross of tropical flint and U.S.A. germplasm. Days to flower 90 - 100, to maturity 150-180. Potential yield 8 - 10,000 Kg/ha. at 50,000 plants/ha. Irrigation.

Variety No. 28. HGO. 8 - PC_4, from México. Population obtained by CIMMYT from the variety Hgo. 8 after 4 cycles of mass selection for prolificacy. Hgo. 8 belongs to the Mexican race Chalqueño adapted to altitudes between 1,800 and 2,300 m. Chalqueño has been classified as a modern incipient race and is considered as being the result of hibridization between races Cónico and Tuxpeño, both classified as Prehistoric Mestizos.

29. QK 37 from Australia. Three way cross produced by the Department of Primary Industries, Research Station, North Queensland. Line KL 51 origin not known; KL 56 from Golden Nugget Variety, and Q6199 bred by Dr. H. H. Storey from "Mex 13" which went to Africa from México as SLP. 21 A (Mexican). Days to flower 65, to maturity 170 to 20% grain moisture. Potential yield 6,500 Kg/ha at 30-40,000 plants/ha. (Local variety 4,500 Kg/ha). Rain fed, Irrigation. Resistant to lodging (root and Stalk) Single gene resistance to Puccinia polysora (R_{pp2} gene).

30. Agroceres 501, from Brasil. Single-cross of a converted dent line to a mutated ateto line. Produced by Sementes Agroceres, S. A. Opaque-2. Days to flower 68. Potential yield 5-6000 Kg/ha at 40,000 plants/ha. Rain fed.

Variety No. 31. P.M.S. 263, from Perú. Synthetic variety produced by Universidad Agraria "La Molina", at Lima, from 215 lines from Perla varieties (Peruvian race Perla) selected for general combining ability. Days to flower 110, to harvest 170. Irrigation. Potential yield, 6,000 Kg/ha at 55,000 plants /ha.

32. COMP. RES. THRIPS, from México. Composite obtained by CIMMYT from the crosses Celaya x Ancho, Celaya x Tehuacán, Celaya x Chileno and several crosses among Puebla Gpo. 1 and several Mexican composites. Selected for resistance to thrips. A combination of the 60 more resistant crosses was made, random mated for several generations, and then subjected to one cycle of modified mass selection for yield. A good source of resistance to thrips (Frankliniella Spp.)

33. NAB EL - GAMAL, from U.A.R., Egypt.

34. H-507 E, from México. Brachytic-2 version of H-507, obtained by INIA, Chapingo, México

35. METRO, from Indonesia.

36. NICARILLO, from Nicaragua. Open-pollinated variety derived from Cuban variety $PD(MS)_6$ after 7 cycles of mass selection. Days to flower 55, to maturity 110. Potential yield 1,500Kg/ha. at 50,000 plants/ha. Diseases resistant.

Variety No. 37. UNITED 106, from Canada. Extremely early hybrid in Ontario. Closed pedigree. Inbreds from the Canada Department of Agriculture, at Ottawa, Ontario, Days to flower 78, to maturity 133. Potential yield 9012 Kg/ha at 48,000 plants /ha. Higher yielding than most commercial hybrids of this maturity. Rain fed. Above average for lodging resistance.

38. CIPB-ACI-COMP.I, from México. Composite obtained by CIMMYT from the cross of early materials like Bolita, Harinoso de 8, Maíz Dulce, Celaya, Pepitilla, Cónico Norteño, Tablincillo, Chapalote, Reventador, and several other local early varieties. Adapted to intermediate altitudes, 1600-1800 m.

39. KISAN, from India. Composite produced by the All India Coordinated Maize Program. Advanced generation of the cross (J_1 x Coastal Tropical Flint). J_1 (Vijay) developed in India, Coastal Tropical Flint received from México. Days to flower 50-55, to maturity 95-100 days. Potential yield 4750 Kg/ha at 55-62,000 plants/ha.Irrigation. Resistant to lodging, Helminthosporium and Sclerophthora rayssiae.

40. H. PERGAMINO GUAZU, from Argentina. Double-cross hybrid produced by INTA, Pergamino. Three lines from populations of local red maize, and 1 line from variety Colorado Casilda (from Argentina). Days to flower 72, to maturity 150. Potential yield 3,500-4,000 Kgs/ha at 45-50,000 plants/ha. Rain fed.

Variety No. 41. CIPA, from México. Composite obtained by CIMMYT from diallel crosses among 25 early collections of the Mexican Races: Maíz Dulce, Chalqueño, Reventador, Cacahuacintle, Harinoso de 8, Cónico, Chapalote and Cónico Norteño. Adapted to high altitudes, 2,000 - 2,600 m.

42. ZAPALOTE CHICO - OAX 179. A collection of the Mexican race Zapalote Chico (Prehistoric Mestizo). Characterized by short plants very early in maturity, purple plant color, short-thick ears and the thickest husk of all Mexican races. Reported as being photoperiod-insensitive. Prolific. Susceptible to foliar diseases.

43. COMP. L (Me)C_2, from México. Second cycle of mass selection for grain/stover ratio produced by CIMMYT from a composite comprising Antigua Gpo.2 in crosses with three populations of Tuxpeño selected for their shorter growing cycle and smaller plants. Good source population. Mild selection for resistance to foliar and root diseases, as well as shorter plant type.

44. AMERICAN EARLY, from U.A.R., Egypt.

45. PIONEER X 306 A, from Jamaica. Double cross hybrid produced by Pioneer Hi-Bred International, Inc. Three lines derived from races Tusón, Chandelle and Coastal Tropical Flint, and one inbred from Puerto Rican Variety Mayorbela. Days to flower 53-55, to maturity 115. Potential yield 6,000 Kg/ha at 36,000 plants/ha. Irrigation, Rainfed.

Variety No. 46. FUKKO No. 8, from Japan . Double cross hybrid, Dent x Dent, produced by Hokkaido University, from lines selected from inbreds introduced from U.S.A., based on their combining ability, Days to flower 90, to maturity 150. Potential yield 5,500 Kg/ha. at 55,000 plants/ha. Rainfed.

47. VIJAY, from India. A composite produced by the All India Coordinated Maize Program. Also known as J_1 Composite. Developed from half-sib families of a large number of varieties from U.S.A. Central and South America. Selection was based primarily on ear aspect. Days to flower 52-57, to maturity 95-100. Potential yield 5,255 Kg/ha, at 55-62,000 plants/ha. Irrigation. Resistant to lodging and to Helminthosporium.

48. COMP. B(C_2) from México. A synthetic variety obtained by CIMMYT from the recombination of 61 S_1 lines from Caribbean, Central American, and Mexican germplasm, selected for their tolerance to Diplodia ear-rots. A good source population.

49. JAUNE DE BOUAKE, from Cote d'Ivoire. Composite obtained by the IRAT, Station de Bouaké, B.P. 635, Bouaké. Originated from the cross of M.T.S. (Local) with cuban yellow flint, Cuban Yellow Dent, and germplasm from México, Trinidad and Haití. Backcrossed twice to M.T.S. Days to flower 56, to maturity 95-105. Potential yield 4-5,000 Kg/ha at 40,000 plants/ha. Multiple eared stalks. Rain fed. Also known as C.J.B.

This varietal information is published as provided by our collaborators.

DATA SUMMARIZATION

The time elapsed from seed shipment to the return of data and then data processing, has determined that if the information is to be compiled and distributed to interested maize breeders around the world, a preliminary report seemed to be the most viable way to accomplish this in the shortest possible time.

The data were statistically analyzed and the results are presented in simple tables. Since data recording was not uniform for all locations, some arbitrary transformations and adjustments were made to present a more comprehensive summary.

Plot yields were adjusted according to the mean number of plants per plot for each particular experiment. Mean plot yields were then converted to kilograms of grain per hectare, to a uniform 15% moisture content and arbitrarily assuming 80% shelling, whenever plot yields were reported in kilograms or pounds of ear corn. When yields were reported in dry grain, adjustment made was to 15% moisture only.

The metric system was used for measurements of plant and ear height, and the data are reported in centimeters.

In some cases the data on disease were converted to the 1-5 scale and this will be noted by the particular experimenter.

Disease names were abbreviated as follows: Helminthosporium Spp. (Helm spp); Helminthosporium maidis (Helm maid); Helminthosporium

turcicum (Helm turc); Puccinia Spp. (Pucc Spp); Puccinia polysora (Pucc poly); Puccinia sorghi (Pucc sorg); Phyllachora Spp. (Phyl Spp); Physopella Spp (Physop Spp); Physoderma Spp (Physod Spp), Brown-stripe downy mildew (Bsd mild).

A series of tables are presented in the hope that they will be useful as a general source of information with the due awareness of their limitations.

Table 1 to 24 present the grandmean for each trait together with the correlations computed on these means. These correlations must be considered with caution since population size is rather small for this type of analysis and some spurious correlations may be encountered. These tables may offer more insight into varietal performance in sito as well as across different ecological conditions and cultural practices. Potentially useful materials can be identified for use either directly or as parents in a breeding program.

Table 2 presents the varietal mean yield across locations, ranked in descending order. The remaining table (2-36) are self-explanatory, and are presented as supplementary bits of information which could be useful to interested scientists.

TABLE 1
STATION NAME AND LOCATION. BAKO EXPERIMENT STATION (I.A.R.),ETHIOPIA.
COOPERATOR. BIRU ABEBE.
LATITUDE. 9DG. N. LONGITUDE. 37DG.5' E. ELEVATION. 1650 M.
DATE OF PLANTING. 20 MAY,1971.
PRECIPITATION DURING CYCLE OF TEST. 1063 MM.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 75 KG/HA EACH OF N.AND P205 AS NITROPHOS.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. NORMAL PRECIPITATION FOLLOWED BY ABOUT 2 WEEKS DRY PERIOD DURING SEPTEMBER WHICH CAUSED SOMEWHAT PREMATURITY.
DISEASE DEVELOPMENT IN GENERAL. HEAVY AT DRY SILK STAGE.
INSECT,WEED OR PEST PROBLEMS. SOME DAMAGE FROM WILD PORCUPINES.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. SPP.	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS
33	H-6133	19398.0	99.0	1.0	1.0	404.0	242.0	48.0	5.0	14.0	55.0	1.0
14	H-512	15179.0	91.0	0.5	1.0	344.0	187.0	44.0	5.0	12.0	51.0	1.0
27	POEY 3-15	14832.0	91.0	1.0	1.0	345.0	184.0	46.0	35.0	0.0	48.0	0.0
2	H-511	14752.0	81.0	0.0	1.0	343.0	176.0	47.0	33.0	0.0	52.0	1.0
29	JK 37	14392.0	95.0	1.0	2.0	366.0	204.0	48.0	15.0	11.0	53.0	2.0
5	PIONEER X304A	13364.0	91.0	1.0	3.0	331.0	165.0	46.0	34.0	0.0	54.0	1.0
53	LOCAL VARIETY.	13324.0	95.0	1.0	2.0	376.0	209.0	48.0	1.0	12.0	46.0	1.0
30	AGROCERES 501	12509.0	86.0	0.0	1.5	332.0	182.0	46.0	21.0	0.0	68.0	0.0
17	CENTRALMEX	12122.0	95.0	1.0	1.5	364.0	207.0	45.0	13.0	16.0	60.0	2.0
13	ATHERTON DENT	11441.0	95.0	1.0	1.5	354.0	197.0	47.0	8.0	13.0	41.0	2.0
15	ETJ BLANCO	11027.0	99.0	1.0	2.0	297.0	150.0	47.0	18.0	22.0	51.0	1.0
31	P.A.S. 263	10947.0	99.0	1.5	2.0	381.0	240.0	47.0	41.0	0.0	52.0	1.0
26	POEY T-66	10841.0	96.0	1.5	3.0	338.0	189.0	46.0	31.0	0.0	50.0	3.0
22	(MIX.IXCOL.GPO.1)XCTO BL.	10814.0	99.0	2.0	2.0	362.0	199.0	46.0	6.0	22.0	50.0	1.0
19	H-507	10440.0	99.0	2.5	2.0	355.0	215.0	44.0	33.0	0.0	51.0	1.0
43	COMP. B(C2)	10253.0	97.0	1.5	2.5	360.0	213.0	48.0	11.0	23.0	59.0	1.0
3	AGROCERES M-206	10203.0	91.0	1.0	2.0	307.0	169.0	46.0	27.0	0.0	72.0	1.0
32	COMP.RES.THRIPS	10133.0	84.0	1.5	1.0	309.0	150.0	44.0	36.0	0.0	46.0	1.0
43	COMP. E.(MEIC2	9853.0	88.0	1.5	2.0	294.0	157.0	48.0	31.0	0.0	54.0	1.0
4	P.A.S. 264	9652.0	91.0	2.0	2.0	343.0	199.0	45.0	32.0	0.0	55.0	2.0
12	TUXP. COMP. C3	9385.0	99.0	1.5	1.5	372.0	214.0	46.0	10.0	19.0	52.0	1.0
11	CORTAZAR A-C4	9279.0	79.0	1.5	1.0	377.0	215.0	45.0	10.0	15.0	59.0	0.0
11	COMP. CARIBE C3	9025.0	99.0	2.0	3.0	336.0	192.0	48.0	27.0	0.0	50.0	1.0
49	JAJNE DE DOUAKE	8851.0	93.0	2.5	3.0	347.0	199.0	45.0	7.0	25.0	50.0	2.0
8	SINT. LIN. RES. ACH.	8798.0	91.0	2.0	3.0	313.0	180.0	46.0	34.0	0.0	63.0	2.0
38	HOJ. J-PC4	8798.0	78.0	0.5	1.0	363.0	195.0	44.0	35.0	0.0	40.0	1.0
36	NICARILLO	8771.0	88.0	1.5	2.5	325.0	174.0	48.0	31.0	0.0	53.0	3.0
47	VIJAY	8704.0	81.0	1.5	2.5	293.0	151.0	46.0	40.0	0.0	57.0	0.0
23	(JSA X CARIB. COMP.)	8184.0	94.0	1.5	1.0	277.0	120.0	43.0	23.0	0.0	48.0	0.0
45	PIONEER X306A	8117.0	98.0	2.0	3.0	287.0	158.0	44.0	22.0	0.0	44.0	0.0
6	HARAPAI	8104.0	91.0	2.0	2.5	313.0	167.0	45.0	39.0	0.0	43.0	2.0
35	AETAJ	7957.0	88.0	2.0	2.0	306.0	165.0	45.0	38.0	0.0	50.0	2.0
37	KISAN	7890.0	88.0	2.0	3.0	285.0	140.0	43.0	36.0	0.0	47.0	1.0
7	P.A.S. 5	7623.0	91.0	2.0	2.5	334.0	187.0	43.0	35.0	0.0	48.0	2.0
44	AMERICAN EARLY	7556.0	86.0	3.5	2.0	317.0	166.0	44.0	38.0	0.0	39.0	1.0
21	COMP. NORTEAMERICANO	7022.0	84.0	2.0	2.5	318.0	157.0	47.0	20.0	15.0	53.0	2.0
18	CIPO-ACI-COMP. I	6929.0	73.0	1.0	1.0	283.0	131.0	47.0	39.0	0.0	48.0	2.0
41	CIPA	6795.0	65.0	1.5	1.0	284.0	128.0	48.0	23.0	10.0	49.0	3.0
24	H. ATATI 2	6528.0	59.0	2.5	1.0	268.0	114.0	47.0	35.0	0.0	46.0	2.0
16	SINT.10 LIN.AM.CRIST.	6235.0	91.0	1.5	2.0	293.0	149.0	48.0	36.0	0.0	48.0	3.0
50	H. PERGAMINO GUAZU	6168.0	69.0	2.0	1.0	224.0	96.0	47.0	31.0	0.0	56.0	7.0
37	(ETJ) 136	5941.0	57.0	1.0	1.0	215.0	60.0	48.0	4.0	0.0	49.0	0.0
46	FUKKU NO. 8	5807.0	52.0	2.5	1.5	238.0	82.0	47.0	10.0	0.0	45.0	2.0
25	KJ. NO. 6	5701.0	55.0	1.0	2.0	272.0	77.0	49.0	17.0	5.0	49.0	1.0
34	H-507 E	5634.0	102.0	1.5	1.5	184.0	81.0	48.0	6.0	3.0	44.0	1.0
1	FUTKS 3-43	5100.0	57.0	2.0	1.0	202.0	60.0	48.0	9.0	0.0	47.0	1.0
13	NAS EL-GAMAL	4499.0	74.0	2.5	2.5	279.0	101.0	48.0	4.0	8.0	47.0	4.0
7	SINT. NICARAGUA 2	3605.0	94.0	2.0	2.0	246.0	112.0	48.0	10.0	5.0	49.0	2.0
42	CAPALJIE CHICU-OAX.179	3244.0	62.0	2.0	2.5	253.0	77.0	47.0	20.0	0.0	54.0	12.0
15	CALTIRE	2336.0	69.0	3.5	2.0	228.0	86.0	48.0	18.0	8.0	42.0	10.0
	MEANS	9081.24	85.92	1.60	1.88	310.94	159.36	46.32	23.06	5.16	50.54	1.88

CORRELATIONS

GRAIN	YIELD	1.000										
DAYS	FLOWER	0.568	1.000									
HELM.	SPP.	-0.605	-0.153	1.000								
PUCC.	SPP.	-0.139	0.310	0.359	1.000							
PLANT	HGT.	0.762	0.663	-0.332	0.104	1.000						
EAR	HGT.	0.750	0.788	-0.269	0.155	0.958	1.000					
NO.	PLTS.	-0.154	-0.248	-0.097	-0.064	-0.274	-0.313	1.000				
ROOT	LODG.	-0.039	-0.011	0.093	0.192	0.040	0.106	-0.377	1.000			
STALK	LODG.	0.249	0.357	-0.052	0.009	0.391	0.349	0.146	-0.668	1.000		
NO.	EARS	0.311	0.174	-0.361	0.135	0.206	0.248	0.095	0.016	0.059	1.000	
ROT	EARS	-0.475	-0.394	0.400	0.135	-0.344	-0.382	0.245	-0.016	-0.049	-0.048	1.000

TABLE 2
STATION NAME AND LOCATION. FARM SUWAN,PAKCHONG,THAILAND.
OPERATOR. THAILAND NATIONAL CORN IMPROVEMENT PROGRAM.
LATITUDE.14DG.30' N. LONGITUDE. 100DG.E. ELEVATION. 300 M.
DATE OF PLANTING. 5 AUGUST.1970.
PRECIPITATION DURING CYCLE OF TEST. 600 MM.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 625 KG/HA OF 16-16-8 BANDED, 240 KG/HA AMMONIUM SULPHATE (21PC N.) TOP-DRESSED.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. SEASON TYPICAL FOR THE AREA.STRONG WIND IN SEPTEMBER CAUSED SEVERE LODGING IN LATE VARIETIES.
DISEASE DEVELOPMENT IN GENERAL. FOLIAR DISEASES,RUST(P.POLYSORA) AND LEAF BLIGHTS (H.TURCICUM AND H.MAIDIS) APPEARED EARLY AND WERE SEVERE.
INSECT,WEED OR PEST PROBLEMS. WEEDS CONTROLLED EFFECTIVELY WITH 3KG(AI) ATRAZINE PER HECTARE.INSECTS CONTROLLED AS NECESSARY WITH INSECTI.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. TURC.	HELM. MAID.	PUCC. POLY.	NO. PLTS.	ROOT LODG.	NO. EARS
29	[illegible] 37	4422.0	65.0	1.5	3.5	2.0	37.0	32.0	35.0
5	PIONEER X304A	3630.0	64.0	1.5	1.5	2.0	36.0	34.0	27.0
26	POLY T-66	3234.0	64.0	2.0	2.0	2.0	36.0	36.0	26.0
45	PIONEER X306A	3076.0	53.0	2.0	2.5	2.5	37.0	29.0	29.0
33	AGROCERES 501	2574.0	58.0	2.0	2.5	3.5	37.0	34.0	31.0
15	TETRU	2561.0	60.0	2.5	2.0	2.0	37.0	34.0	28.0
4	STAT. LIN. RES. ACH.	2508.0	59.0	2.5	2.0	2.0	39.0	38.0	28.0
14	T-537	2270.0	66.0	2.0	2.5	2.0	33.0	31.0	18.0
36	[illegible]ARIELLO	2152.0	62.0	2.0	3.0	3.0	35.0	32.0	25.0
17	CENTRAL MEX	2138.0	63.0	1.5	2.0	2.0	40.0	38.0	21.0
42	COMP. L.(MEIC2	2125.0	54.0	2.0	2.5	2.5	35.0	32.0	22.0
11	COMP. CARIBE C3	2072.0	62.0	2.0	2.5	2.0	36.0	31.0	25.0
7	STAT. NICARAGUA 2	1993.0	53.0	2.5	3.0	2.5	35.0	35.0	24.0
34	T-537 C	1927.0	66.0	2.5	3.5	2.0	34.0	31.0	19.0
24	T. VAIT 2	1914.0	46.0	2.0	3.0	4.0	39.0	30.0	29.0
43	COMP. 3(C2)	1901.0	66.0	2.5	2.5	3.0	36.0	34.0	23.0
39	COSA X CARIB. COMP.1	1868.0	56.0	2.5	3.0	3.5	36.0	16.0	28.0
47	JAUNE DE BOUAKE	1874.0	64.0	2.0	2.5	3.0	34.0	29.0	19.0
22	[illegible]	1835.0	65.0	2.0	2.5	2.0	30.0	29.0	15.0
9	P.A.S. 264	1835.0	65.0	2.0	2.5	2.5	33.0	33.0	21.0
3	[illegible]	1676.0	64.0	1.5	2.0	2.0	35.0	35.0	17.0
13	STAT.13 LIN.AM.CRIST.	1610.0	62.0	2.0	2.5	2.5	35.0	34.0	24.0
8	P.A.S. 3	1584.0	62.0	2.5	2.5	2.0	37.0	34.0	22.0
1	AGROCERES M-206	1465.0	63.0	1.5	2.5	3.0	37.0	37.0	30.0
10	KISAN	1439.0	62.0	2.0	3.5	3.0	36.0	35.0	22.0
41	CAPALOTE CHICO-DAX.179	1373.0	42.0	1.5	3.5	1.5	36.0	35.0	28.0
16	[illegible]ZAR 4-C4	1306.0	65.0	2.0	3.0	3.0	35.0	35.0	22.0
30	LOCAL VARIETY.	1280.0	60.0	2.0	2.5	3.0	37.0	36.0	15.0
18	[illegible] BLANCO	1257.0	65.0	2.0	2.5	2.5	36.0	34.0	16.0
47	VIJAY	1161.0	55.0	2.5	4.0	4.0	37.0	32.0	22.0
12	COMP. COMP. C3	1161.0	65.0	2.5	2.5	3.0	38.0	37.0	18.0
21	COMP. NORTEAMERICANO	1043.0	53.0	2.5	3.5	3.5	39.0	36.0	18.0
25	[illegible] 5	884.0	47.0	3.0	3.0	2.5	38.0	31.0	22.0
40	T. PERGAMINO GUAZU	871.0	46.0	2.5	3.0	2.0	35.0	34.0	20.0
46	[illegible] NO. 8	858.0	44.0	2.5	4.0	2.5	38.0	36.0	22.0
2	T-511	726.0	64.0	2.0	3.0	3.5	34.0	29.0	14.0
31	[illegible]-ACI-COMP. I	673.0	56.0	2.0	3.5	4.0	37.0	33.0	15.0
37	[illegible] 106	607.0	41.0	3.0	3.5	3.0	32.0	30.0	17.0
31	P.A.S. 263	607.0	66.0	2.5	4.0	4.0	35.0	35.0	15.0
19	[illegible]LTINE	607.0	47.0	3.0	3.5	3.0	35.0	35.0	17.0
14	T-512	541.0	65.0	2.0	4.0	4.0	35.0	35.0	11.0
27	POLY S-15	541.0	65.0	2.0	3.0	3.5	35.0	34.0	9.0
1	[illegible] S-43	462.0	44.0	2.5	4.0	3.5	37.0	26.0	18.0
32	COMP.RES.THRIPS	422.0	65.0	2.5	4.0	4.0	38.0	38.0	7.0
41	[illegible]PA	409.0	56.0	2.0	4.0	4.0	36.0	36.0	9.0
10	[illegible] JENT	409.0	63.0	2.5	2.5	3.0	33.0	33.0	6.0
35	[illegible] EL-GAMAL	330.0	48.0	3.0	3.5	3.0	35.0	26.0	7.0
23	T-513	317.0	66.0	2.0	3.0	3.0	38.0	38.0	11.0
44	[illegible] EARLY	277.0	62.0	3.0	3.0	4.0	34.0	33.0	6.0
28	[illegible] 4-PC4	0.0	65.0	2.0	4.0	4.0	36.0	34.0	1.0
	MEANS	1476.50	59.14	2.20	2.96	2.87	35.88	33.08	19.48

CORRELATIONS

GRAIN	YIELD	1.000						
DAYS	FLOWER	0.186	1.000					
HELM.	TURC.	-0.453	-0.399	1.000				
HELM.	MAID.	-0.591	-0.287	0.326	1.000			
PUCC.	POLY.	-0.594	0.051	0.251	0.593	1.000		
NO.	PLTS.	0.106	-0.150	-0.085	0.020	0.097	1.000	
ROOT	LODG.	-0.067	0.259	-0.217	-0.088	-0.094	0.333	1.000
NO.	EARS	0.798	-0.202	-0.300	-0.390	-0.487	0.298	-0.098	1.000

TABLE 3
STATION NAME AND LOCATION. POZA RICA,VERACRUZ,MEXICO.
COOPERATOR. CIMMYT.
LATITUDE. 20DG.30°N. LONGITUDE. 98DG.W. ELEVATION. 50 M.
DATE OF PLANTING. 25 JULY,1970.
PRECIPITATION DURING CYCLE OF TEST. 426 MM.
AMOUNT OF IRRIGATION APPLIED. 150 MM.
FERTILIZER USED. 150 KG/HA OF N.AS AMMONIUM SULPHATE AND 80 KG/HA OF P205 AS TRIPLE-SUPERPHOSPHATE.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. NORMAL FOR THE SEASON.
DISEASE DEVELOPMENT IN GENERAL. NORMAL INCIDENCE.
INSECT,WEED OR PEST PROBLEMS. HEAVY INFESTATION OF ROOTWORM (DIABROTICA SPP)

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. SPP.	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS
5	PIONEER X304A	4566.0	57.0	2.0	2.0	237.0	154.0	39.0	4.0	2.0	38.0	6.0
17	CENTRALMEX	3822.0	57.0	2.0	2.5	283.0	171.0	39.0	3.5	3.0	37.0	6.0
13	I-507	3506.0	59.0	2.0	2.0	290.0	183.0	39.0	4.5	3.0	37.0	7.0
43	COMP. C.(MEIC2	3441.0	53.0	2.0	2.0	246.0	138.0	39.0	4.5	2.5	39.0	8.0
1	COMP. CARIBE C3	3404.0	57.0	2.0	2.0	267.0	171.0	36.0	5.0	3.5	38.0	7.0
44	COMP. B(C2)	3339.0	56.0	2.0	2.0	292.0	181.0	40.0	4.5	4.0	39.0	4.0
10	AGROGENES 501	3329.0	54.0	2.5	3.0	274.0	168.0	38.0	3.5	2.5	47.0	6.0
22	C.MEX.(ACJL.GPO.1)XLTO GL.	3264.0	59.0	2.0	2.0	291.0	173.0	40.0	5.0	3.0	33.0	9.0
69	PIONEER X3JOA	3190.0	54.0	2.0	2.0	255.0	149.0	37.0	4.5	2.5	35.0	6.0
8	STIT. LIN. RES. AC1.	2985.0	55.0	2.0	2.0	251.0	149.0	37.0	4.0	2.5	40.0	7.0
27	JK 37	2892.0	56.0	2.5	2.5	295.0	178.0	40.0	4.0	3.0	39.0	9.0
7	P.A.S. 5	2806.0	55.0	2.0	2.0	297.0	171.0	39.0	4.0	3.0	39.0	7.0
26	POEY F-06	2753.0	59.0	2.0	2.0	269.0	160.0	39.0	4.5	2.5	36.0	14.0
39	I-507 E	2641.0	63.0	2.5	2.0	193.0	104.0	36.0	1.5	1.5	33.0	5.0
36	NICARILLO	2641.0	56.0	2.0	2.0	291.0	156.0	35.0	4.5	3.0	33.0	8.0
12	TUXP. COMP. C3	2604.0	58.0	2.0	2.0	301.0	194.0	40.0	4.5	3.0	35.0	5.0
33	ICTRI	2604.0	55.0	2.0	2.0	271.0	169.0	39.0	5.0	2.5	40.0	15.0
16	TUXPEÑO BLANCO	2576.0	60.0	2.0	2.0	293.0	177.0	38.0	4.0	3.0	33.0	7.0
49	JAJINE DE BRUNEL	2279.0	59.0	2.0	2.0	291.0	180.0	38.0	4.5	3.0	32.0	11.0
11	STIT.13 LIN.AM.CRIST.	2139.0	55.0	2.0	2.0	281.0	169.0	38.0	4.5	3.0	29.0	9.0
21	COMP. NORTEAMERICANO	2139.0	54.0	2.0	3.0	245.0	148.0	39.0	4.0	3.0	34.0	13.0
53	LOCAL VARIETY.	2111.0	59.0	2.5	2.5	262.0	176.0	38.0	4.5	3.5	29.0	8.0
6	TAXPAN	2074.0	56.0	2.0	2.0	273.0	150.0	37.0	5.0	2.5	28.0	12.0
4	P.A.S. 254	2037.0	58.0	2.0	2.5	295.0	183.0	38.0	5.0	3.0	37.0	22.0
37	SIBAN	1962.0	54.0	2.0	3.0	242.0	137.0	39.0	5.0	3.0	32.0	12.0
24	A. ADAPT 2	1683.0	49.0	2.0	3.5	239.0	120.0	38.0	2.5	2.5	37.0	16.0
47	ZIBAY	1628.0	54.0	2.5	4.0	233.0	135.0	36.0	4.0	2.5	33.0	16.0
27	POEY 3-15	1581.0	58.0	2.0	3.5	283.0	168.0	39.0	4.0	3.5	30.0	19.0
29	TUSA X CARIB. COMP.1	1562.0	52.0	2.0	3.0	255.0	123.0	39.0	4.5	3.0	31.0	11.0
7	STAT. NICARAGUA 2	1507.0	49.0	2.0	2.5	257.0	134.0	39.0	4.0	3.0	38.0	10.0
13	CUSTAZAX 4-64	1442.0	61.0	2.0	3.0	336.0	201.0	39.0	4.5	3.5	29.0	16.0
3	AGROGENES 6-206	1414.0	59.0	2.5	3.5	267.0	154.0	39.0	4.5	3.0	38.0	13.0
2	I-511	1302.0	59.0	2.5	3.5	276.0	158.0	37.0	4.0	3.5	29.0	20.0
40	A. PIGAMENO GUAZU	1135.0	46.0	2.5	3.0	197.0	123.0	39.0	2.5	2.0	36.0	19.0
23	KO. AX. 6	1088.0	44.0	3.0	4.0	219.0	80.0	39.0	2.0	3.0	35.0	18.0
35	STAT-AC1-COMP. 1	1042.0	52.0	2.5	3.5	264.0	143.0	39.0	4.5	3.0	31.0	22.0
15	CALTIME	977.0	46.0	2.5	3.5	207.0	98.0	34.0	3.0	2.5	31.0	12.0
14	I-512	930.0	54.0	2.0	3.5	293.0	144.0	39.0	4.5	4.0	36.0	24.0
42	CAPALME CHICO-OAX.174	921.0	42.0	2.5	3.0	197.0	108.0	40.0	2.5	2.0	36.0	6.0
45	TUXPEÑO NO. 8	679.0	43.0	2.5	3.5	193.0	72.0	39.0	2.0	2.5	35.0	20.0
32	COMP.CCS.THRIPS	651.0	57.0	3.0	4.5	265.0	161.0	37.0	4.0	4.0	27.0	23.0
31	P.A.S. 203	577.0	62.0	2.5	2.5	297.0	187.0	35.0	5.0	4.5	21.0	18.0
18	ATERTON DENT	567.0	63.0	2.5	3.5	276.0	152.0	39.0	5.0	3.0	15.0	13.0
37	SUITED 126	502.0	38.0	3.0	3.0	174.0	64.0	36.0	2.0	2.5	32.0	20.0
30	NAI EL-SAMAL	428.0	49.0	3.5	5.0	245.0	118.0	39.0	2.5	3.0	27.0	25.0
1	TUXS 3-43	372.0	38.0	3.0	3.0	183.0	74.0	37.0	3.0	2.5	25.0	12.0
46	A. RICAT EARLY	0.0	57.0	3.0	4.0	264.0	147.0	36.0	4.5	4.0	0.0	0.0
28	I-513	0.0	63.0	2.0	3.5	315.0	205.0	30.0	4.0	4.0	9.0	5.0
9	CIPA	0.0	30.0	3.0	4.0	3.0	0.0	36.0	4.5	4.0	0.0	0.0
25	TUS. 3-PC4	0.0	63.0	3.0	3.0	3.0	0.0	0.0	5.0	5.0	0.0	0.0
	MEANS	1961.90	54.33	2.31	2.83	250.34	142.86	37.12	4.00	3.02	31.06	11.62

CORRELATIONS

GRAIN	YIELD	1.000										
DAYS	FLOWER	0.311	1.000									
HELM.	SPP.	-0.656	-0.399	1.000								
PUCC.	SPP.	-0.752	-0.316	0.696	1.000							
PLANT	HGT.	0.466	0.381	-0.566	-0.308	1.000						
EAR	HGT.	0.504	0.579	-0.613	-0.390	0.941	1.000					
NO.	PLTS.	0.332	-0.225	-0.280	-0.082	0.587	0.467	1.000				
ROOT	LODG.	0.214	0.662	-0.433	-0.330	0.271	0.432	-0.131	1.000			
STALK	LODG.	-0.391	0.431	0.166	0.266	-0.098	0.034	-0.468	0.504	1.000		
NO.	EARS	0.683	-0.184	-0.478	-0.421	0.493	0.395	0.568	-0.194	-0.600	1.000	
ROT	EARS	-0.335	-0.288	0.186	0.457	0.189	0.046	0.289	-0.222	-0.066	0.248	1.000

TABLE 4
STATION NAME AND LOCATION. ESCOLA SUPERIOR DE AGRICULTURA,LUIS DE QUEIROZ, PIRACICABA,S.P.,BRASIL.
COOPERATOR. E.PATERNIANI.
LATITUDE. 22DG.7' S. LONGITUDE. 47DG.7' W. ELEVATION. 500 M.
DATE OF PLANTING. 5 NOVEMBER,1970.
PRECIPITATION DURING CYCLE OF TEST. 800 MM.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. NO DATA.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. DROUGHT IN DECEMBER AND JANUARY.
DISEASE DEVELOPMENT IN GENERAL. NO DATA.
INSECT,WEED OR PEST PROBLEMS. NO DATA.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	PLANT HGT.	EAR HGT.	NO. PLTS.
30	AGROCERES 501	5439.0	75.0	263.0	150.0	37.0
29	AK 37	5112.0	75.0	250.0	145.0	44.0
11	COMP. CARIBE C3	5122.0	75.0	275.0	160.0	40.0
26	PDEY T-66	5014.0	75.0	220.0	140.0	49.0
34	H-507 C	4950.0	83.0	168.0	98.0	38.0
13	H-507	4842.0	83.0	230.0	150.0	38.0
12	TOXP. COMP. C3	4697.0	78.0	275.0	190.0	44.0
5	PIONEER X304A	4570.0	78.0	248.0	120.0	43.0
43	COMP. L.IMEIC2	4444.0	69.0	203.0	95.0	40.0
17	CENTRALMEX	4425.0	75.0	263.0	150.0	46.0
16	CTI BLANCO	4254.0	78.0	243.0	123.0	40.0
9	P.B. 5	4100.0	75.0	260.0	143.0	41.0
47	VIJAY	3982.0	69.0	208.0	110.0	40.0
3	SINT. LIN. RES. ACH.	3937.0	75.0	238.0	120.0	44.0
40	COMP. B(C2)	3873.0	75.0	243.0	153.0	46.0
49	JAUNE DE BOUAKE	3873.0	75.0	290.0	173.0	42.0
3.	NICARILLO	3747.0	75.0	248.0	140.0	41.0
39	NISAN	3738.0	75.0	233.0	148.0	36.0
6	MARAPAI	3665.0	75.0	248.0	150.0	39.0
20	TUSA X CARIB. COMP.1	3647.0	50.0	203.0	88.0	43.0
27	PDEY 4-15	3647.0	75.0	283.0	160.0	42.0
21	COMP. NORTLAMERICANO	3611.0	69.0	211.0	110.0	44.0
4	PIONEER X306A	3602.0	69.0	225.0	113.0	45.0
11	CORTIZAR M-C4	3560.0	83.0	275.0	163.0	49.0
4	P.I.S. 254	3367.0	83.0	233.0	140.0	39.0
50	LOCAL VARIETY.	3330.0	73.0	260.0	175.0	46.0
32	COMP.RES.THRIPS	3240.0	83.0	260.0	168.0	41.0
22	CRIO.IACOL.GPO.TIXETC EL.	3222.0	78.0	255.0	140.0	44.0
2	H-511	3149.0	75.0	243.0	133.0	46.0
3	AGROCERES M-206	3113.0	83.0	245.0	150.0	44.0
35	[illegible]	2905.0	63.0	208.0	120.0	47.0
2.	[illegible] 2	2742.0	55.0	165.0	73.0	43.0
7	SELF. NICARAGUA 2	2706.0	55.0	133.0	88.0	44.0
33	[illegible] SL-GAMAL	2661.0	55.0	130.0	90.0	37.0
1.	H-512	2588.0	75.0	265.0	150.0	43.0
44	H. PERGAMINO GUAZU	2534.0	55.0	155.0	80.0	45.0
1.	SELF.ID LIN.AM.CRIST.	2534.0	75.0	243.0	125.0	39.0
44	AMERICAN EARLY	2253.0	69.0	233.0	105.0	37.0
42	CAPALNTE CHILO-DAX.179	1991.0	44.0	163.0	85.0	38.0
13	AMERICAN DENT	1982.0	75.0	240.0	138.0	42.0
38	IPA-A1-COMP. I	1928.0	69.0	230.0	129.0	45.0
31	P.I.S. 253	1783.0	35.0	280.0	183.0	41.0
23	CD. ID. 6	1710.0	55.0	178.0	68.0	44.0
41	IPA	1692.0	66.0	220.0	98.0	34.0
37	WHITE) 136	1647.0	48.0	135.0	48.0	37.0
36	PARD ID. 8	1611.0	49.0	173.0	65.0	45.0
15	CALTINE	1557.0	52.0	158.0	60.0	44.0
4	DIKS G-43	1122.0	48.0	138.0	48.0	45.0
24	H-6130	914.0	85.0	260.0	163.0	41.0
21	ID. J-PL4	534.0	0.0	253.0	155.0	34.0
	MEANS	3217.44	67.10	227.32	126.08	42.08

CORRELATIONS

GRAIN	YIELD	1.000				
DAYS	FLOWER	0.572	1.000			
PLANT	HGT.	0.384	0.545	1.000		
EAR	HGT.	0.385	0.550	0.936	1.000	
NO.	PLTS.	0.079	0.207	0.033	0.055	1.000

TABLE 5
STATION NAME AND LOCATION. KAWANDA RESEARCH STATION, KAMPALA, UGANDA.
COOPERATOR. MISS DEBORAH MULINDWA.
LATITUDE. 00G.25' N. LONGITUDE. 32DG.32' E. ELEVATION. 1200 M.
DATE OF PLANTING. 5 MAY, 1971.
PRECIPITATION DURING CYCLE OF TEST. 535 MM.
AMOUNT OF IRRIGATION APPLIED. NIL.
FERTILIZER USED. 224 KG/HA SINGLE-SUPERPHOSPHATE AT PLANTING. 224 KG/HA OF CALCIUM-AMMONIUM-NITRATE AT KNEE HEIGHT.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. RAINFALL STARTED LATE. RAINED FOR NINETY DAYS AND HAD A DRY SPELL FOR A MONTH DURING EARLY SILKING. RAINS STARTED AGAIN MAKING DRYING A PROBLEM.
DISEASE DEVELOPMENT IN GENERAL. NOT SEVERE ON THE WHOLE.
INSECT, WEED OR PEST PROBLEMS. CONSIDERABLE BIRD DAMAGE AT BEGINNING OF EARLY MATURING TYPES. CONTROLLED IN TIME.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. SPP.	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS	NO. TILLS.
2[illegible]	[illegible] 37	8854.0	68.0	1.0	1.0	248.0	171.0	46.0	26.0	11.0	45.0	1.0	0.0
2[illegible]	[illegible]-5138	8163.0	67.0	1.0	1.0	257.0	182.0	41.0	35.0	13.0	43.0	4.0	0.0
3[illegible]	AGROCERES 501	7548.0	68.0	1.0	1.0	244.0	159.0	42.0	15.0	6.0	48.0	3.0	0.0
1[illegible]	[illegible]-512	7322.0	58.0	1.0	1.0	232.0	153.0	45.0	23.0	15.0	41.0	3.0	1.0
4[illegible]	[illegible]P. L.(MEIC2	7159.0	65.0	2.0	2.0	212.0	152.0	40.0	16.0	24.0	45.0	2.0	0.0
1[illegible]	[illegible]ENTRALMEX	7020.0	71.0	1.0	1.0	244.0	174.0	43.0	26.0	13.0	41.0	1.0	0.0
2[illegible]	[illegible]UEY 8-15	6932.0	63.0	1.0	1.0	232.0	158.0	43.0	34.0	27.0	38.0	5.0	0.0
2[illegible]	[illegible]UEY T-06	6845.0	72.0	1.0	1.0	232.0	165.0	41.0	25.0	15.0	39.0	2.0	0.0
2[illegible]	[illegible]MIX.(XCOL.GPU.1)XETU BL.	6845.0	72.0	1.0	1.0	253.0	181.0	42.0	27.0	23.0	40.0	4.0	0.0
[illegible]	[illegible]-511	6644.0	58.0	1.0	1.0	223.0	151.0	42.0	21.0	18.0	40.0	7.0	0.0
1[illegible]	[illegible]ICARICLU	6543.0	72.0	2.0	2.0	241.0	163.0	43.0	26.0	25.0	43.0	2.0	0.0
4[illegible]	[illegible]OMP. 3(C2)	6468.0	56.0	1.0	1.0	238.0	172.0	44.0	26.0	21.0	45.0	0.0	0.0
[illegible]	[illegible]IONEER X304A	6217.0	58.0	1.0	1.0	221.0	147.0	44.0	27.0	11.0	42.0	5.0	4.0
1[illegible]	[illegible]OMP. CARIBE C3	5953.0	66.0	1.0	1.0	219.0	152.0	42.0	12.0	16.0	45.0	2.0	3.0
1[illegible]	[illegible]TD BLANCO	5878.0	67.0	1.0	1.0	207.0	137.0	43.0	23.0	12.0	43.0	3.0	2.0
[illegible]	AGROCERES M-206	5752.0	73.0	1.0	1.0	218.0	155.0	45.0	18.0	28.0	59.0	1.0	0.0
5[illegible]	[illegible]OCAL VARIETY.	5451.0	53.0	1.0	1.0	223.0	147.0	38.0	24.0	13.0	35.0	3.0	0.0
[illegible]	[illegible]	5325.0	62.0	1.0	1.0	242.0	168.0	44.0	19.0	22.0	42.0	3.0	0.0
1[illegible]	[illegible]TERNION DENT	5312.0	53.0	1.0	1.0	236.0	167.0	42.0	23.0	16.0	37.0	5.0	1.0
2[illegible]	[illegible] X CARIB. COMP.)	5275.0	53.0	1.0	1.0	206.0	121.0	43.0	17.0	14.0	43.0	3.0	0.0
[illegible]	[illegible] 294	5224.0	68.0	1.0	1.0	240.0	169.0	45.0	26.0	23.0	41.0	3.0	1.0
1[illegible]	[illegible] LIN.AM.CRIST.	5212.0	57.0	1.0	1.0	226.0	150.0	45.0	26.0	19.0	45.0	2.0	1.0
[illegible]	[illegible] LIN. RES. ACH.	5212.0	52.0	1.0	1.0	208.0	146.0	44.0	22.0	18.0	45.0	1.0	0.0
3[illegible]	[illegible] 263	5149.0	74.0	1.0	1.0	234.0	170.0	41.0	20.0	15.0	38.0	2.0	0.0
1[illegible]	[illegible]OMP. C3	5049.0	57.0	2.0	2.0	245.0	179.0	44.0	29.0	32.0	43.0	5.0	1.0
4[illegible]	[illegible] DE BOUAKE	4936.0	65.0	1.0	1.0	255.0	177.0	43.0	22.0	25.0	39.0	4.0	0.0
3[illegible]	[illegible]	4835.0	56.0	1.0	1.0	214.0	139.0	46.0	17.0	24.0	45.0	3.0	0.0
2[illegible]	[illegible]OMP. NORTEAMERICANO	4810.0	56.0	1.0	1.0	200.0	128.0	44.0	25.0	26.0	43.0	5.0	0.0
4[illegible]	[illegible]IONEER X306A	4760.0	66.0	1.0	1.0	200.0	130.0	43.0	20.0	6.0	42.0	4.0	0.0
1[illegible]	[illegible]TAMAR M-64	4546.0	61.0	1.0	1.0	248.0	176.0	45.0	25.0	22.0	39.0	6.0	0.0
3[illegible]	[illegible]-101-COMP. I	4433.0	48.0	1.0	1.0	197.0	118.0	40.0	25.0	15.0	24.0	4.0	0.0
1[illegible]	[illegible]-537	4408.0	74.0	2.0	2.0	245.0	177.0	41.0	24.0	32.0	37.0	3.0	5.0
[illegible]	[illegible]	4195.0	69.0	1.0	1.0	220.0	150.0	39.0	17.0	19.0	28.0	1.0	1.0
2[illegible]	[illegible] ABATI 2	4195.0	48.0	1.0	2.0	189.0	114.0	42.0	22.0	24.0	42.0	2.0	0.0
3[illegible]	[illegible]OMP.RES.THRIPS	4094.0	62.0	1.0	1.0	222.0	142.0	42.0	20.0	19.0	35.0	4.0	0.0
3[illegible]	[illegible]-537 E	3918.0	74.0	2.0	2.0	136.0	87.0	45.0	1.0	6.0	35.0	4.0	0.0
3[illegible]	[illegible]ETRO	3906.0	66.0	2.0	2.0	215.0	150.0	45.0	18.0	25.0	37.0	2.0	0.0
3[illegible]	[illegible]IJAY	3642.0	59.0	3.0	3.0	219.0	147.0	39.0	20.0	26.0	37.0	6.0	0.0
2[illegible]	[illegible] NO. 6	3529.0	46.0	2.0	1.0	178.0	82.0	44.0	4.0	11.0	45.0	2.0	0.0
6[illegible]	[illegible]UKKI NO. 8	3504.0	47.0	1.0	1.0	164.0	101.0	45.0	8.0	7.0	56.0	1.0	0.0
6[illegible]	[illegible]UKKI NO. 8	3027.0	48.0	2.0	2.0	166.0	84.0	40.0	4.0	16.0	40.0	7.0	0.0
6[illegible]	[illegible]ERICAN EARLY	2783.0	53.0	4.0	4.0	223.0	140.0	28.0	18.0	15.0	20.0	5.0	0.0
7[illegible]	[illegible]T. NICARAGUA 2	2788.0	46.0	2.0	2.0	196.0	126.0	43.0	9.0	16.0	42.0	1.0	0.0
6[illegible]	[illegible]IPA	2600.0	44.0	1.0	1.0	173.0	107.0	35.0	17.0	14.0	36.0	2.0	0.0
9[illegible]	[illegible]PALJTE CHICO-DAA.175	2311.0	44.0	1.0	1.0	139.0	85.0	44.0	12.0	14.0	47.0	7.0	0.0
3[illegible]	[illegible]. 8-PC4	2298.0	38.0	2.0	2.0	215.0	150.0	39.0	35.0	31.0	25.0	4.0	0.0
3[illegible]	[illegible] EL-GAMAL	2185.0	45.0	4.0	4.0	195.0	105.0	29.0	18.0	14.0	23.0	5.0	0.0
[illegible]	[illegible]AKS 6-43	2110.0	44.0	5.0	5.0	142.0	65.0	37.0	0.0	19.0	37.0	9.0	0.0
1[illegible]	LALTINE	1469.0	46.0	4.0	4.0	163.0	94.0	33.0	13.0	28.0	33.0	7.0	1.0
1[illegible]	[illegible]ITED 136	1093.0	44.0	5.0	5.0	136.0	59.0	34.0	2.0	32.0	21.0	11.0	0.0
	MEANS	4874.64	60.34	1.58	1.58	212.52	140.44	41.54	19.64	18.72	39.48	3.62	0.42

CORRELATIONS

GRAIN	YIELD	1.000											
DAYS	FLOWER	0.676	1.000										
HELM.	SPP.	-0.632	-0.424	1.000									
PUCC.	SPP.	-0.625	-0.421	0.982	1.000								
PLANT	HGT.	0.725	0.688	-0.485	-0.479	1.000							
EAR	HGT.	0.725	0.771	-0.541	-0.522	0.967	1.000						
NO.	PLTS.	0.524	0.422	-0.712	-0.721	0.252	0.357	1.000					
ROOT	LODG.	0.561	0.482	-0.482	-0.440	0.772	0.781	0.199	1.000				
STALK	LODG.	-0.197	0.045	0.277	0.312	0.162	0.188	-0.076	0.246	1.000			
NO.	EARS	0.481	0.247	-0.546	-0.553	0.159	0.214	0.735	0.004	-0.170	1.000		
ROT	EARS	-0.461	-0.420	0.596	0.596	-0.412	-0.457	-0.418	-0.266	0.237	-0.444	1.000	
NO.	TILLS.	0.088	0.294	-0.059	-0.059	0.170	0.193	0.068	0.131	0.098	0.033	-0.027	1.000

TABLE 6
STATION NAME AND LOCATION. CENTRO NAL.DE INV.AGROPECUARIAS,TULIO OSPINA,ANTIOQUIA,COLOMBIA.
COOPERATOR. INSTITUTO COLOMBIANO AGROPECUARIO (ICA).
LATITUDE. 6DG.27' N. LONGITUDE. 75DG.32' W. ELEVATION. 1438 M.
DATE OF PLANTING. 26 NOVEMBER,1970.
PRECIPITATION DURING CYCLE OF TEST. 571 MM.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 300 KG/HA OF 10-30-10 AND 125 KG/HA OF UREA (46PC N.).
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. PRONOUNCED RAINY SEASON.
DISEASE DEVELOPMENT IN GENERAL. H.TURCICUM,PUCCINIA,AND PHYLLACHORA WERE OBSERVED AND RECORDED.
INSECT,WEED OR PEST PROBLEMS. NORMAL.CONTROLLED IN TIME.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. TURC.	PUCC. SPP.	PHYL. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	NO. EARS	ROT EARS
30	LOCAL VARIETY.	5837.0	83.0	3.5	2.5	3.5	253.0	126.0	35.0	45.0	0.0
17	CENTRALMEX	5578.0	86.0	3.5	2.0	2.5	312.0	165.0	34.0	34.0	0.0
22	(MEX.1ACOL.GPU.1)XETU BL.	4738.0	87.0	3.0	2.0	2.5	306.0	162.0	34.0	34.0	2.0
1	ETJ BLANCO	4555.0	86.0	2.5	1.0	3.5	274.0	129.0	36.0	40.0	0.0
25	POEY T-66	4501.0	85.0	4.5	3.5	4.0	277.0	144.0	32.0	29.0	3.0
33	AGROCERES 501	4448.0	80.0	4.5	3.5	3.5	273.0	144.0	35.0	44.0	2.0
9	P.A.S. 264	4264.0	85.0	3.0	2.5	3.0	294.0	146.0	32.0	34.0	1.0
5	PIONEER X304A	4157.0	80.0	3.5	2.5	3.5	267.0	111.0	35.0	34.0	3.0
23	I-5133	3834.0	88.0	2.0	0.0	3.0	343.0	178.0	35.0	35.0	1.0
29	JK 37	3575.0	91.0	4.5	3.5	4.0	285.0	137.0	36.0	32.0	2.0
15	CORTAZAR M-C4	3371.0	85.0	4.0	2.0	2.5	312.0	150.0	36.0	35.0	2.0
27	POEY B-15	3328.0	80.0	4.5	3.5	3.5	272.0	133.0	37.0	27.0	1.0
36	MICARILLO	3263.0	81.0	4.0	4.0	3.5	252.0	112.0	36.0	34.0	8.0
12	TUXP. COMP. C3	3263.0	86.0	3.5	2.5	2.5	332.0	178.0	34.0	30.0	4.0
13	SINT.13 LIN.AM.CRIST.	3209.0	78.0	3.5	2.0	2.5	265.0	123.0	32.0	29.0	1.0
3	SINT. LIN. RES. ACH.	3188.0	80.0	3.5	3.5	4.0	268.0	119.0	35.0	30.0	2.0
3	AGROCERES M-206	3069.0	85.0	3.0	2.5	3.0	286.0	142.0	36.0	45.0	1.0
8	TARAPAI	3058.0	83.0	4.0	3.5	4.0	277.0	126.0	34.0	29.0	1.0
11	COMP. CARIBE C3	3004.0	85.0	3.5	3.0	3.0	275.0	136.0	36.0	31.0	0.0
4	PIONEER X306A	2972.0	79.0	4.5	4.0	3.5	239.0	101.0	33.0	31.0	1.0
16	METRO	2768.0	80.0	4.0	3.5	4.0	258.0	119.0	35.0	31.0	3.0
43	COMP. L.(MEJC2	2681.0	77.0	4.5	3.0	3.5	230.0	102.0	35.0	31.0	2.0
19	I-507	2660.0	91.0	4.0	2.0	2.5	282.0	147.0	37.0	35.0	1.0
37	SIDAN	2628.0	79.0	4.5	4.0	3.5	240.0	113.0	36.0	33.0	2.0
7	P.A.S. 3	2477.0	81.0	3.5	3.5	3.5	270.0	120.0	34.0	31.0	1.0
2	I-511	2445.0	74.0	2.5	2.5	1.0	271.0	128.0	36.0	27.0	2.0
21	COMP. NORTEAMERICANO	2445.0	76.0	4.0	3.0	4.0	260.0	110.0	35.0	28.0	2.0
44	JAUNE DE BOUAKE	2412.0	87.0	4.0	3.0	3.5	287.0	143.0	36.0	28.0	1.0
32	COMP.RES.THRIPS	2369.0	75.0	4.5	4.0	3.5	269.0	130.0	36.0	29.0	5.0
20	(JSA X CARIB. COMP.)	2208.0	74.0	4.0	2.0	2.5	246.0	101.0	36.0	31.0	1.0
31	P.A.S. 263	2154.0	85.0	4.0	4.5	4.0	302.0	159.0	31.0	25.0	3.0
34	I-537 C	2057.0	87.0	4.0	3.5	4.0	207.0	83.0	36.0	23.0	4.0
45	COMP. (MEC2)	1663.0	86.0	4.5	3.0	3.5	283.0	149.0	35.0	35.0	2.0
47	VIJAY	1680.0	75.0	4.0	3.5	3.0	240.0	107.0	35.0	25.0	4.0
14	I-512	1572.0	75.0	3.0	2.0	2.5	277.0	134.0	36.0	21.0	2.0
35	CIPB-AC1-COMP. I	1174.0	67.0	4.5	4.0	3.5	236.0	95.0	35.0	24.0	5.0
7	SINT. NICARAGUA 2	1141.0	67.0	4.5	3.5	4.0	203.0	78.0	35.0	26.0	3.0
26	I. ABATI 2	1077.0	64.0	4.5	2.0	4.0	212.0	82.0	33.0	25.0	12.0
13	ATHERTON DENT	851.0	83.0	3.5	2.5	3.0	264.0	118.0	33.0	13.0	4.0
40	I. PERGAMINO GUAZU	604.0	66.0	4.5	4.0	4.5	197.0	84.0	34.0	21.0	5.0
42	ZAPALOTE CHICO-OAX.175	474.0	53.0	4.5	4.0	3.5	152.0	69.0	28.0	18.0	6.0
29	ISJ. 3-PC4	409.0	76.0	4.5	4.5	4.5	241.0	114.0	24.0	5.0	5.0
41	CIPA	334.0	61.0	4.5	4.5	4.5	222.0	84.0	34.0	12.0	5.0
15	CALTIME	0.0	65.0	5.0	4.0	4.0	186.0	66.0	33.0	6.0	6.0
25	KO. AD. 6	0.0	62.0	4.5	2.0	4.0	216.0	61.0	34.0	15.0	10.0
44	AMERICAN EARLY	0.0	86.0	4.5	4.0	3.5	242.0	95.0	31.0	15.0	14.0
1	FUJIKS G-43	0.0	58.0	4.5	3.0	3.5	164.0	53.0	32.0	10.0	9.0
46	FUKKO NO. 8	0.0	61.0	4.0	4.0	3.5	198.0	68.0	29.0	15.0	11.0
38	IAB EL-GAMAL	0.0	65.0	4.5	4.5	4.5	213.0	79.0	34.0	12.0	9.0
37	JMITED 106	0.0	59.0	4.5	4.5	4.5	170.0	59.0	34.0	13.0	13.0
	MEANS	2353.90	77.30	3.96	3.11	3.45	254.00	116.24	34.10	26.90	3.74

CORRELATIONS

GRAIN	YIELD	1.000									
DAYS	FLOWER	0.727	1.000								
HELM.	TURC.	-0.518	-0.486	1.000							
PUCC.	SPP.	-0.475	-0.393	0.708	1.000						
PHYL.	SPP.	-0.389	-0.383	0.614	0.600	1.000					
PLANT	HGT.	0.721	0.831	-0.603	-0.516	-0.497	1.000				
EAR	HGT.	0.754	0.842	-0.562	-0.459	-0.500	0.961	1.000			
NO.	PLTS.	0.391	0.309	-0.226	-0.335	-0.279	0.331	0.273	1.000		
NO.	EARS	0.864	0.662	-0.456	-0.470	-0.394	0.637	0.668	0.558	1.000	
ROT	EARS	-0.726	-0.632	0.466	0.389	0.400	-0.631	-0.676	-0.401	-0.669	1.000

TABLE 7
STATION NAME AND LOCATION. MISSISSIPPI STATE UNIVERSITY, U.S.A.
COOPERATOR. GENE E. SCOTT.
LATITUDE. 33DG.N. LONGITUDE. 78DG.W. ELEVATION. 128 M.
DATE OF PLANTING. 27 APRIL, 1971.
PRECIPITATION DURING CYCLE OF TEST. NO DATA.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 224 KG/HA OF N. AS AMMONIUM NITRATE.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. FAIRLY GOOD.
DISEASE DEVELOPMENT IN GENERAL. CORN STUNT FAIRLY HEAVY.
INSECT, WEED OR PEST PROBLEMS. NO DATA.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS
33	LOCAL VARIETY.	6287.0	81.0	135.0	25.0	5.0	4.0	49.0
28	HGJ. 8-PC4	5368.0	82.0	157.0	28.0	1.0	8.0	31.0
31	P.A.S. 263	5051.0	83.0	162.0	20.0	8.0	1.0	28.0
45	PIONEER X306A	4779.0	89.0	169.0	19.0	5.0	2.0	26.0
4	P.A.S. 264	4406.0	89.0	174.0	18.0	10.0	1.0	38.0
16	ETJ BLANCO	4397.0	80.0	112.0	18.0	1.0	5.0	32.0
49	JAUNE DE BOUAKE	4324.0	87.0	162.0	28.0	13.0	1.0	36.0
19	H-507	4252.0	84.0	164.0	25.0	1.0	3.0	37.0
43	H. PERGAMINO GUAZU	4188.0	88.0	160.0	25.0	12.0	4.0	31.0
3	AGROCERES M-206	3943.0	91.0	195.0	22.0	6.0	1.0	35.0
35	METRO	3907.0	98.0	179.0	28.0	2.0	6.0	41.0
17	CENTRALMEX	3870.0	90.0	161.0	26.0	7.0	2.0	36.0
7	SINT. NICARAGUA 2	3852.0	82.0	168.0	26.0	5.0	1.0	43.0
2	H-511	3797.0	81.0	158.0	26.0	11.0	3.0	32.0
37	DINTEX 106	3770.0	85.0	162.0	24.0	3.0	3.0	30.0
6	HARAPAN	3752.0	82.0	169.0	23.0	5.0	2.0	33.0
46	FUKKO NO. 8	3743.0	85.0	168.0	24.0	5.0	4.0	32.0
26	PUEY T-66	3661.0	91.0	171.0	27.0	11.0	3.0	31.0
44	AMERICAN EARLY	3652.0	96.0	185.0	23.0	0.0	4.0	31.0
41	CIPA	3634.0	88.0	147.0	25.0	8.0	1.0	32.0
12	FUXP. COMP. C3	3607.0	85.0	177.0	19.0	2.0	1.0	27.0
14	H-512	3607.0	86.0	160.0	18.0	5.0	2.0	24.0
27	PUEY J-15	3552.0	80.0	136.0	24.0	1.0	3.0	31.0
39	KISAN	3489.0	85.0	162.0	28.0	4.0	2.0	43.0
38	CIP8-AC1-COMP. I	3452.0	91.0	202.0	21.0	3.0	2.0	24.0
10	ATHERTON DENT	3389.0	87.0	193.0	24.0	3.0	5.0	30.0
48	COMP. B(C2)	3343.0	96.0	128.0	24.0	2.0	3.0	30.0
47	VIJAY	3243.0	98.0	154.0	26.0	9.0	1.0	38.0
8	SINT. LIN. RES. ACH.	3207.0	93.0	176.0	26.0	7.0	2.0	33.0
13	CORTAZAR M-C4	3098.0	93.0	173.0	28.0	1.0	1.0	38.0
22	(MIX.1XCUL.GPO.1)XETO BL.	3097.0	101.0	190.0	22.0	3.0	1.0	24.0
11	COMP. CARIBE C3	3053.0	85.0	210.0	26.0	7.0	2.0	32.0
30	AGROCERES 501	3053.0	88.0	166.0	22.0	5.0	2.0	33.0
20	(USA X CARIB. COMP.)	2889.0	98.0	176.0	23.0	3.0	2.0	27.0
42	ZAPALOTE CHICO-OAX.175	2762.0	93.0	130.0	23.0	0.0	1.0	25.0
5	PIONEER X304A	2688.0	85.0	163.0	26.0	6.0	2.0	36.0
23	H-6130	2635.0	93.0	185.0	25.0	8.0	5.0	34.0
18	SINT.10 LIN.AM.CRIST.	2535.0	94.0	174.0	27.0	3.0	3.0	42.0
34	H-507 E	2498.0	98.0	184.0	31.0	0.0	1.0	34.0
36	NICARILLO	2389.0	87.0	175.0	21.0	9.0	1.0	28.0
1	FUTKS G-43	2335.0	94.0	157.0	30.0	0.0	0.0	45.0
32	COMP.RES.THRIPS	1971.0	87.0	184.0	23.0	7.0	4.0	20.0
9	P.B. 5	1581.0	83.0	139.0	25.0	9.0	4.0	20.0
29	JK 37	1435.0	91.0	197.0	19.0	2.0	4.0	16.0
33	NAB EL-GAMAL	1308.0	97.0	165.0	23.0	3.0	1.0	17.0
43	COMP. L.(MEIC2	1063.0	84.0	169.0	29.0	2.0	5.0	17.0
15	CALTINE	690.0	0.0	227.0	25.0	7.0	4.0	10.0
24	H. ADATI 2	663.0	0.0	213.0	28.0	2.0	5.0	11.0
21	COMP. NORTEAMERICANO	518.0	102.0	174.0	25.0	1.0	6.0	11.0
25	KO. NO. 6	0.0	0.0	253.0	20.0	1.0	9.0	0.0
	MEANS	3155.66	83.32	171.20	24.22	4.68	2.86	29.68

CORRELATIONS

GRAIN	YIELD	1.000						
DAYS	FLOWER	0.433	1.000					
EAR	HGT.	-0.513	-0.530	1.000				
NO.	PLTS.	-0.112	0.026	-0.029	1.000			
ROOT	LODG.	0.224	0.029	-0.060	-0.021	1.000		
STALK	LODG.	-0.243	-0.423	0.246	0.045	-0.240	1.000	
NO.	EARS	0.716	0.544	-0.477	0.325	0.154	-0.430	1.000

TABLE 8
STATION NAME AND LOCATION. LA CALERA, ENAG, MANAGUA, NICARAGUA.
COOPERATOR. HUMBERTO TAPIA B.
LATITUDE. 12DG.13' N. LONGITUDE. 86DG.87' W. ELEVATION. 50 M.
DATE OF PLANTING. 18 AUGUST, 1970.
PRECIPITATION DURING CYCLE OF TEST. NO DATA.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 258 KG/HA OF 10-40-10 AT PLANTING TIME, PLUS 194 KG/HA OF AMMONIUM SULPHATE AFTER 30 DAYS.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. NO DATA.
DISEASE DEVELOPMENT IN GENERAL. AS RECORDED.
INSECT, WEED OR PEST PROBLEMS. FALL ARMY WORM AND BURERS. SOME THRIPS. MAIN WEED PROBLEM CYPERUS ROTUNDUM.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	PLANT HGT.	EAR HGT.	HELM. SPP.	PUCC. SPP.	STUNT VIRUS	PHYSOP SPP.	PHYSOD SPP.	NO. PLTS.	ROOT LODG.	NO. EARS	ROT EARS
45	PIONEER X306A	2695.0	57.0	220.0	107.0	2.0	2.0	2.0	2.5	1.5	28.0	14.0	35.0	14.0
5	PIONEER X304A	2685.0	59.0	248.0	135.0	2.0	2.5	2.0	3.5	0.0	35.0	13.0	39.0	10.0
8	SINT. LIN. RES. ACH.	2577.0	57.0	240.0	135.0	2.5	2.0	2.0	3.0	3.0	28.0	17.0	33.0	11.0
6	TARAPAN	2115.0	59.0	265.0	149.0	3.0	2.0	2.0	3.5	0.0	27.0	14.0	26.0	11.0
26	POEY F-66	2006.0	62.0	252.0	147.0	1.5	2.0	1.5	2.5	2.0	34.0	24.0	30.0	12.0
11	COMP. CARIBE C3	1800.0	59.0	235.0	140.0	3.0	2.5	2.5	3.0	4.0	35.0	15.0	33.0	11.0
16	ETO BLANCO	1800.0	61.0	260.0	148.0	2.0	2.0	2.0	2.5	2.0	32.0	19.0	30.0	15.0
13	STAT.10 LIN.AM.CRIST.	1790.0	57.0	238.0	141.0	2.5	2.5	1.0	3.0	3.0	34.0	14.0	26.0	10.0
4	P.A.S. 264	1662.0	60.0	260.0	143.0	3.0	3.5	3.0	3.0	4.0	29.0	15.0	26.0	13.0
48	COMP. BIC21	1662.0	60.0	268.0	144.0	3.0	3.0	3.0	4.0	2.5	31.0	11.0	33.0	21.0
46	TICARILLO	1623.0	58.0	250.0	128.0	1.5	2.0	1.0	2.5	3.0	27.0	14.0	20.0	9.0
7	P.A.S. 3	1583.0	58.0	215.0	148.0	3.0	2.5	2.5	4.5	4.0	30.0	17.0	28.0	16.0
50	LOCAL VARIETY.	1505.0	58.0	238.0	131.0	2.0	3.0	2.0	3.0	2.0	31.0	17.0	23.0	12.0
35	METRO	1475.0	58.0	225.0	130.0	1.5	2.5	2.0	2.0	4.0	26.0	10.0	17.0	6.0
19	H-507	1338.0	67.0	240.0	135.0	2.5	2.5	3.0	3.5	2.0	31.0	11.0	27.0	15.0
17	CENTRALMEX	1308.0	60.0	260.0	153.0	3.0	3.0	3.5	3.0	2.5	36.0	15.0	24.0	10.0
43	COMP. C.(MEJC2	1259.0	56.0	235.0	133.0	2.5	3.0	2.0	3.0	2.5	30.0	22.0	21.0	11.0
49	JAUNE DE BOUAKE	1220.0	59.0	253.0	155.0	2.5	2.5	2.0	2.5	3.0	27.0	15.0	20.0	13.0
22	(MEX.1XCOL.GPO.1)XETO BL.	1180.0	63.0	285.0	185.0	2.0	2.0	2.0	2.5	2.0	37.0	19.0	22.0	12.0
7	SINT. NICARAGUA 2	1111.0	53.0	220.0	115.0	3.5	3.5	3.0	3.5	4.0	24.0	14.0	23.0	11.0
30	AGRIGERES 501	1072.0	58.0	240.0	135.0	2.5	2.5	3.0	3.5	4.5	38.0	17.0	23.0	17.0
33	RISAN	993.0	56.0	205.0	111.0	3.0	2.0	2.5	2.5	2.0	30.0	18.0	24.0	16.0
12	TOMP. COMP. C3	895.0	61.0	250.0	163.0	2.5	3.5	2.0	3.0	3.0	37.0	22.0	17.0	8.0
34	H-507 E	850.0	66.0	180.0	105.0	3.0	2.5	2.0	3.5	3.0	33.0	8.0	25.0	20.0
42	CAPALITE CHICO-OAX.175	747.0	48.0	172.0	76.0	3.0	2.0	3.0	2.0	0.0	23.0	19.0	12.0	9.0
21	COMP. NORTEAMERICANO	492.0	59.0	230.0	120.0	3.5	2.5	3.0	3.5	2.0	29.0	26.0	15.0	11.0
24	H. ATATI 2	384.0	52.0	175.0	85.0	3.0	3.0	3.5	2.5	0.0	26.0	24.0	11.0	10.0
27	POEY 3-15	374.0	50.0	238.0	130.0	3.0	3.0	3.0	4.0	3.0	31.0	17.0	13.0	12.0
32	COMP.RES.THRIPS	325.0	60.0	230.0	120.0	4.0	3.5	3.0	4.5	3.0	23.0	15.0	3.0	2.0
13	CORTAZAR M-C4	315.0	60.0	233.0	151.0	4.0	3.5	4.0	4.5	4.0	31.0	24.0	13.0	11.0
47	ZIJAY	295.0	57.0	260.0	135.0	3.0	2.0	3.5	4.0	0.0	26.0	20.0	8.0	8.0
20	(USA X CARIB. COMP.)	266.0	55.0	190.0	110.0	4.5	4.0	5.0	3.0	0.0	24.0	11.0	10.0	9.0
29	JK 37	216.0	62.0	250.0	140.0	4.5	2.0	5.0	2.0	3.5	30.0	22.0	7.0	6.0
40	H. PERGAMINO GUAZU	0.0	50.0	155.0	80.0	2.5	4.0	3.0	2.0	0.0	20.0	18.0	2.0	2.0
44	AMERICAN EARLY	0.0	58.0	233.0	115.0	3.5	4.0	3.0	4.5	0.0	21.0	18.0	0.0	0.0
25	KO. KO. 6	0.0	49.0	190.0	70.0	4.5	2.5	2.5	3.5	0.0	28.0	22.0	2.0	1.0
10	ATTERTON DENT	0.0	61.0	215.0	155.0	2.5	2.5	4.5	4.0	3.0	27.0	19.0	3.0	3.0
38	TAJ EL-GAMAL	0.0	50.0	210.0	99.0	4.5	3.5	3.5	3.0	0.0	25.0	20.0	1.0	1.0
23	ICA. 3-PC4	0.0	0.0	155.0	89.0	5.0	3.5	3.0	3.5	0.0	7.0	7.0	1.0	1.0
37	UNITED 136	0.0	44.0	180.0	50.0	5.0	4.0	3.0	2.0	0.0	17.0	13.0	1.0	1.0
14	H-512	0.0	59.0	225.0	125.0	3.5	2.0	3.5	3.0	2.0	24.0	20.0	4.0	4.0
36	FUKKO NO. 2	0.0	49.0	180.0	80.0	3.0	2.5	2.5	2.5	0.0	16.0	15.0	3.0	3.0
18	CIPA-ACH. COMP. I	0.0	52.0	210.0	105.0	3.5	2.5	3.5	3.0	4.0	27.0	23.0	8.0	7.0
1	FUKKO [illegible]	0.0	44.0	130.0	56.0	4.5	3.5	1.0	0.0	0.0	13.0	13.0	3.0	3.0
3	AGRIGERES M-206	0.0	54.0	220.0	142.0	3.5	4.5	3.5	4.0	3.0	33.0	18.0	13.0	12.0
41	CIPA	0.0	50.0	185.0	80.0	3.0	4.0	3.0	3.0	3.0	13.0	12.0	0.0	0.0
31	P.A.S. 263	0.0	0.0	255.0	143.0	3.5	2.0	4.0	3.5	3.0	18.0	13.0	3.0	3.0
2	H-511	0.0	57.0	213.0	121.0	3.5	3.5	4.0	3.0	0.0	32.0	24.0	6.0	6.0
15	CALTINE	0.0	49.0	175.0	70.0	4.0	3.0	4.0	4.0	3.0	19.0	19.0	1.0	1.0
23	H-6138	0.0	0.0	245.0	165.0	3.5	2.0	3.5	3.5	2.0	29.0	15.0	0.0	0.0
	MEANS	832.36	53.22	222.72	122.56	3.10	2.80	2.83	3.10	2.04	27.24	16.84	15.46	8.60

CORRELATIONS

GRAIN	YIELD	1.000												
DAYS	FLOWER	0.392	1.000											
PLANT	HGT.	0.516	0.274	1.000										
EAR	HGT.	0.440	0.199	0.877	1.000									
HELM.	SPP.	-0.683	-0.402	-0.477	-0.488	1.000								
PUCC.	SPP.	-0.433	-0.023	-0.406	-0.349	0.446	1.000							
STUNT	VIRUS	-0.604	-0.189	-0.098	-0.042	0.545	0.255	1.000						
PHYSOP	SPP.	-0.061	0.019	0.328	0.350	0.091	0.112	0.348	1.000					
PHYSOD	SPP.	0.239	0.208	0.406	0.493	-0.277	-0.140	-0.006	0.260	1.000				
NO.	PLTS.	0.523	0.548	0.662	0.698	-0.507	-0.315	-0.153	0.201	0.395	1.000			
ROOT	LODG.	-0.208	0.264	0.128	0.106	-0.001	-0.104	0.216	0.049	-0.013	0.317	1.000		
NO.	EARS	0.935	0.469	0.524	0.492	-0.632	-0.375	-0.500	0.023	0.328	0.657	-0.164	1.000	
ROT	EARS	0.659	0.506	0.421	0.452	-0.490	-0.298	-0.295	0.101	0.376	0.666	-0.065	0.853	1.000

TABLE 9
STATION NAME AND LOCATION. FAZENCA AGROCERES, JACAREZINHO, PARANA, BRASIL.
COOPERATOR. SEMENTES AGROCERES, CAIXA POSTAL 53, JACAREZINHO, PARANA, BRASIL
LATITUDE. 23DG.9' 24 S. LONGITUDE. 49DG.58' 16 W. ELEVATION. 435 M
DATE OF PLANTING. 10 NOVEMBER, 1970.
PRECIPITATION DURING CYCLE OF TEST. 785 MM.
AMOUNT OF IRRIGATION APPLIED. 30 MM. SPRINKLED AFTER PLANTING.
FERTILIZER USED. 300 KG/HA (4-33-16) PLUS 200 KG/HA OF AMMONIUM SULPHATE AS TOP-DRESSING.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. DROUGHT AT BEGINNING OF CYCLE. STRONG WINDS CAUSED SEVERE LODGING AFTER FLOWERING.
DISEASE DEVOLOPMENT IN GENERAL. H. TURCICUM SEVERE TOWARDS END OF CYCLE. SOME H. MAIDIS RACE T.
INSECT, WEED OR PEST PROBLEMS. NORMAL OCCURRENCE OF WORMS CONTROLLED IN DUE TIME.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. TURC.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS
5	PIONEER X304A	7637.0	68.0	2.0	36.0	11.0	7.0	44.0	3.0
30	LOCAL VARIETY.	5163.0	68.0	2.0	40.0	7.0	14.0	44.0	4.0
30	AGROCERES 501	4939.0	66.0	1.5	40.0	11.0	13.0	49.0	1.0
43	COMP. L.(MEIC2	4822.0	66.0	2.0	38.0	5.0	22.0	42.0	5.0
27	PUEY 3-15	4607.0	73.0	2.0	39.0	13.0	11.0	28.0	4.0
17	CENTRALMEX	4554.0	69.0	2.0	39.0	4.0	22.0	45.0	10.0
16	ETO BLANCO	4482.0	73.0	2.0	38.0	12.0	14.0	41.0	9.0
26	PUEY T-66	4464.0	72.0	2.0	39.0	14.0	14.0	34.0	3.0
45	PIONEER X306A	4338.0	68.0	2.5	40.0	20.0	9.0	37.0	6.0
8	SINT. LIN. RES. ACH.	4321.0	68.0	2.0	39.0	7.0	10.0	44.0	4.0
46	NICARILLO	4285.0	72.0	2.5	36.0	5.0	15.0	38.0	4.0
11	COMP. CARIBE C3	4105.0	72.0	2.0	39.0	7.0	11.0	39.0	3.0
13	COMP. B(C2)	4007.0	73.0	2.0	38.0	11.0	22.0	43.0	7.0
18	SINT.10 LIN.AM.CRIST.	3899.0	70.0	2.0	36.0	10.0	12.0	35.0	3.0
34	M-507 E	3783.0	75.0	2.0	39.0	12.0	10.0	34.0	4.0
19	M-507	3693.0	75.0	3.5	36.0	5.0	23.0	34.0	4.0
49	JAUNE DE BOUAKE	3648.0	72.0	2.5	40.0	9.0	20.0	35.0	6.0
3	AGROCERES M-206	3586.0	73.0	4.0	39.0	16.0	5.0	46.0	3.0
9	P.J. 5	3586.0	68.0	2.5	38.0	7.0	16.0	39.0	7.0
6	MARAPAN	3577.0	69.0	2.5	32.0	9.0	12.0	31.0	7.0
4	P.M.S. 254	3559.0	73.0	2.5	35.0	11.0	14.0	30.0	6.0
22	(MIX.IXCOL.GPO.1)XETO BL.	3496.0	74.0	2.5	35.0	5.0	20.0	32.0	8.0
35	METRO	3460.0	68.0	2.5	40.0	9.0	20.0	35.0	2.0
29	AK 37	3379.0	70.0	2.5	40.0	14.0	10.0	40.0	10.0
12	TUXP. COMP. C3	3200.0	75.0	3.0	40.0	8.0	19.0	36.0	11.0
39	KISAN	3137.0	71.0	2.0	34.0	12.0	15.0	32.0	4.0
21	COMP. NORTEAMERICANO	2850.0	66.0	2.0	37.0	11.0	15.0	31.0	8.0
47	VIJAY	2626.0	67.0	4.0	33.0	8.0	18.0	29.0	7.0
20	(USA X CARIB. COMP.)	2474.0	63.0	3.5	33.0	8.0	14.0	30.0	11.0
14	M-512	2340.0	67.0	1.5	38.0	25.0	9.0	24.0	6.0
2	M-511	2268.0	68.0	2.0	36.0	13.0	10.0	29.0	10.0
15	CORTAZAR M-C4	2232.0	74.0	2.5	38.0	12.0	19.0	27.0	8.0
33	CIPB-AC1-COMP. I	2053.0	69.0	3.0	38.0	11.0	11.0	28.0	4.0
7	SINT. NICARAGUA 2	1999.0	62.0	4.0	35.0	5.0	21.0	33.0	7.0
32	COMP.RES.THRIPS	1488.0	75.0	3.0	38.0	16.0	15.0	22.0	9.0
42	ZAPALOTE CHICO-CAX.175	1452.0	52.0	3.5	35.0	5.0	23.0	26.0	3.0
24	M. AGATI 2	1443.0	62.0	5.0	40.0	8.0	24.0	27.0	6.0
23	M-o133	1103 .	80.0	1.0	37.0	18.0	16.0	19.0	6.0
10	ATIERTON DENT	941.0	71.0	2.5	34.0	12.0	13.0	14.0	9.0
31	P.M.S. 263	923.0	80.0	2.5	35.0	12.0	16.0	14.0	4.0
25	KO. NO. 6	896.0	54.0	5.0	36.0	2.0	14.0	24.0	8.0
40	M. PERGAMINO GUAZU	861.0	59.0	4.5	37.0	10.0	14.0	24.0	11.0
38	NAB EL-GAMAL	448.0	59.0	5.0	37.0	9.0	19.0	14.0	8.0
41	CIPA	359.0	64.0	3.5	33.0	15.0	16.0	10.0	4.0
36	FUKKO NO. 8	341.0	51.0	5.0	39.0	2.0	23.0	15.0	8.0
15	LALTINE	269.0	61.0	5.0	36.0	3.0	28.0	9.0	2.0
44	AMERICAN EARLY	179.0	72.0	4.5	36.0	8.0	22.0	7.0	5.0
47	UNITED 106	143.0	47.0	4.5	37.0	4.0	15.0	12.0	4.0
1	FUNKS G-43	125.0	44.0	3.0	32.0	2.0	21.0	8.0	6.0
28	HOJ. 8-PC4	0.0	0.0	3.5	15.0	14.0	1.0	0.0	0.0
	MEANS	2750.80	66.20	2.92	36.00	9.74	15.54	29.26	5.84

CORRELATIONS

GRAIN	YIELD	1.000							
DAYS	FLOWER	0.457	1.000						
HELM.	TURC.	-0.679	-0.473	1.000					
NO.	PLTS.	0.398	0.710	-0.213	1.000				
ROOT	LODG.	0.103	0.212	-0.482	0.011	1.000			
STALK	LODG.	-0.264	0.148	0.381	0.249	-0.591	1.000		
NO.	EARS	0.895	0.499	-0.566	0.552	0.022	-0.154	1.000	
ROT	EARS	-0.140	0.219	0.102	0.194	-0.033	0.174	0.034	1.000

TABLE 10
STATION NAME AND LOCATION. EST. EXP. REG. AGROPECUARIA, PERGAMINO, ARGENTINA
COOPERATOR. GUILLERMO S. RYAN, LUCIO SOLARI, RICARDO BERCINI.
LATITUDE. 33DG.56' S. LONGITUDE. 60DG.34' W. ELEVATION. 65 M.
DATE OF PLANTING. 15 OCTOBER, 1970.
PRECIPITATION DURING CYCLE OF TEST. 1026 MM. (10 YEAR AVERAGE FOR SAME PERIOD, 755 MM.)
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. NONE.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. EXCESS RAINFALL. HEAVY WINDS TOWARDS END OF CYCLE.
DISEASE DEVELOPMENT IN GENERAL. INCIDENCE OF HELMINTHOSPORIUM TURCICUM, P. SORGHI, USTILAGO MAIDIS AND EAR ROTS DIPLODIA MAIDIS, GIBERELLA ZEAE AND FUSARIUM SPP.
INSECT, WEED OR PEST PROBLEMS. INSECTS. AGROSTIS IPSILON EARLY, DIATRAEA SACHARALIS LATTER. ATRAZINE USED AS PRE-EMERGENCE HERBICIDE. TEST AFFECTED BY CYNODON DACTYLON AND DIGITARIA SANGUINALIS TOWARDS END OF CYCLE.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. TURC.	PUCC. SORG.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	NO. TILLS.
29	JK 37	7163.0	103.0	0.0	1.0	250.0	142.0	36.0	0.0	0.0	42.0	5.0
34	H-507 E	6985.0	120.0	0.0	1.0	182.0	109.0	24.0	1.0	1.0	33.0	1.0
1	H-512	6172.0	97.0	0.5	1.5	228.0	135.0	34.0	1.0	1.0	37.0	8.0
5	PIONEER X304A	5915.0	110.0	1.5	2.5	247.0	128.0	26.0	0.0	3.0	29.0	3.0
47	VIJAY	4974.0	103.0	0.0	1.0	250.0	159.0	32.0	2.0	0.0	42.0	3.0
40	AGROCERES 501	4944.0	110.0	0.0	0.0	245.0	160.0	20.0	0.0	1.0	24.0	1.0
33	LOCAL VARIETY.	4845.0	81.0	0.5	1.0	133.0	78.0	33.0	0.5	0.0	39.0	9.0
2	A. ASATI 2	4765.0	84.0	0.5	1.0	150.0	78.0	37.0	0.0	1.0	43.0	7.0
43	A. PERGAMINO GUAZU	4567.0	82.0	0.0	1.0	154.0	88.0	38.0	1.0	0.0	53.0	14.0
39	KISAN	4557.0	102.0	0.5	1.0	209.0	134.0	17.0	1.0	1.0	25.0	5.0
21	COMP. NORTEAMERICANO	4230.0	98.0	0.5	2.0	235.0	160.0	32.0	1.0	1.0	29.0	9.0
2	H-511	4102.0	101.0	0.0	1.0	249.0	159.0	36.0	0.0	1.0	36.0	3.0
20	H-513	4072.0	126.0	0.0	1.0	250.0	150.0	40.0	1.0	1.0	36.0	4.0
35	COMP. L.(ME)C2	4062.0	106.0	0.0	1.0	242.0	147.0	33.0	1.0	0.0	35.0	3.0
1	AGROCERES M-206	4032.0	117.0	0.0	1.5	243.0	156.0	32.0	1.0	1.0	49.0	5.0
16	ETJ BLANCO	4012.0	114.0	0.5	1.5	255.0	130.0	27.0	0.5	1.0	32.0	3.0
13	PIONEER X306A	3993.0	109.0	0.5	2.5	225.0	117.0	24.0	1.0	1.0	26.0	3.0
1	INT. LIN. RES. ACH.	3933.0	113.0	0.5	1.0	225.0	128.0	31.0	0.0	1.0	40.0	4.0
23	(USA X CARIB. COMP.)	3814.0	97.0	0.0	1.0	186.0	83.0	30.0	1.0	1.0	24.0	5.0
27	POEY J-15	3775.0	115.0	0.5	1.0	260.0	158.0	36.0	1.5	0.0	30.0	2.0
36	METRO	3765.0	105.0	0.5	0.0	235.0	160.0	21.0	1.0	1.0	22.0	4.0
17	H-507	3755.0	132.0	0.0	2.0	270.0	215.0	31.0	1.0	1.0	29.0	0.0
7	P.J. 5	3705.0	113.0	0.5	2.0	253.0	165.0	28.0	1.0	1.0	32.0	8.0
26	POEY T-66	3586.0	113.0	0.0	1.0	250.0	170.0	36.0	2.0	0.0	32.0	3.0
10	ATHERTON DENT	3577.0	133.0	1.5	2.0	210.0	127.0	28.0	1.0	1.0	19.0	4.0
24	(MEX.IXCOL.GPO.IXETA BL.	3547.0	118.0	0.0	1.0	240.0	138.0	21.0	1.0	1.0	18.0	1.0
16	VICARILLO	3378.0	108.0	0.0	1.0	248.0	145.0	19.0	1.0	1.0	18.0	1.0
6	TARAPAN	3269.0	114.0	1.5	2.5	243.0	142.0	22.0	0.0	2.0	16.0	1.0
13	INT.LO LIN.AM.CRIST.	3269.0	104.0	1.0	1.0	244.0	147.0	16.0	1.0	2.5	20.0	2.0
15	CORTAZAR M-C4	3200.0	120.0	0.0	1.0	283.0	164.0	32.0	1.0	1.0	31.0	3.0
38	COMP. B(C2)	3051.0	122.0	0.0	1.0	276.0	180.0	27.0	1.0	1.5	24.0	10.0
32	COMP.RES.THRIPS	3002.0	116.0	0.0	1.0	245.0	139.0	39.0	1.0	1.0	34.0	11.0
45	FUKKO NO. 8	2982.0	66.0	0.0	1.5	131.0	54.0	35.0	0.0	2.0	28.0	4.0
17	CENTRALMEX	2933.0	117.0	0.0	1.0	261.0	170.0	25.0	1.0	1.0	16.0	2.0
25	KO. NO. 6	2933.0	105.0	0.0	1.0	129.0	52.0	35.0	0.0	2.0	33.0	8.0
11	COMP. CARIBE C3	2804.0	112.0	0.5	1.5	242.0	132.0	27.0	0.0	1.0	23.0	2.0
41	CIPA	2764.0	99.0	0.0	1.0	162.0	88.0	34.0	1.0	1.0	42.0	26.0
12	TUXP. COMP. C3	2754.0	123.0	0.5	1.0	253.0	160.0	29.0	1.0	1.0	20.0	2.0
37	UNITED 106	2754.0	65.0	0.0	1.0	121.0	48.0	30.0	0.0	5.0	26.0	2.0
37	JAUNE DE BOUAKE	2695.0	121.0	0.0	1.0	287.0	175.0	34.0	1.0	1.0	30.0	3.0
4	P.A.S. 264	2606.0	126.0	1.5	3.5	245.0	150.0	32.0	0.0	2.0	24.0	3.0
1	FUNKS G-43	2398.0	67.0	0.0	0.0	123.0	44.0	37.0	0.0	3.0	30.0	1.0
33	VAB EL-GAMAL	2239.0	89.0	1.0	1.0	175.0	90.0	34.0	1.0	2.0	26.0	2.0
28	HOJ. 3-PC4	2130.0	113.0	0.0	1.0	227.0	110.0	38.0	1.5	1.0	32.0	22.0
44	AMERICAN EARLY	1853.0	100.0	0.0	2.0	210.0	113.0	34.0	2.0	0.0	16.0	3.0
42	ZAPALOTE CHICO-OAX.179	1466.0	71.0	0.0	1.0	242.0	155.0	33.0	0.0	2.5	33.0	1.0
33	CIPB-AC1-COMP. I	1437.0	122.0	0.5	1.0	235.0	122.0	38.0	1.0	0.5	29.0	27.0
15	LALTINE	1427.0	83.0	1.0	0.0	133.0	66.0	27.0	0.0	3.0	21.0	4.0
31	P.A.S. 263	1159.0	133.0	0.0	2.0	273.0	203.0	22.0	2.5	0.0	7.0	4.0
7	INT. NICARAGUA 2	1090.0	96.0	0.5	1.5	175.0	102.0	21.0	0.0	1.0	11.0	2.0
	MEANS	3528.80	105.08	0.33	1.24	220.82	130.50	30.06	0.77	1.18	28.92	5.26

CORRELATIONS

GRAIN	YIELD	1.000									
DAYS	FLOWER	0.059	1.000								
HELM.	TURC.	-0.011	0.036	1.000							
PUCC.	SORG.	0.005	0.308	0.472	1.000						
PLANT	HGT.	0.078	0.784	-0.017	0.256	1.000					
EAR	HGT.	0.082	0.743	-0.056	0.230	0.936	1.000				
NO.	PLTS.	-0.011	-0.196	-0.282	-0.072	-0.182	-0.231	1.000			
ROOT	LODG.	-0.079	0.412	-0.278	0.049	0.387	0.437	0.014	1.000		
STALK	LODG.	-0.242	-0.429	0.290	-0.021	-0.386	-0.425	-0.151	-0.568	1.000	
NO.	EARS	0.507	-0.216	-0.280	-0.182	-0.164	-0.166	0.638	-0.104	-0.199	1.000
NO.	TILLS.	-0.135	-0.031	-0.113	-0.079	-0.164	-0.210	0.409	0.168	-0.201	0.358	1.000

TABLE 11
STATION NAME AND LOCATION. NWFP MAIZE AND MILLETS INSTITUTE, PIRSABAK, NOWSHERA, PAKISTAN.
COOPERATOR. M.H. SHAH, M.S.KHAN.
LATITUDE. 340G.N. LONGITUDE. 710G.E. ELEVATION. 360 MM.
DATE OF PLANTING. 9 MARCH, 1971.
PRECIPITATION DURING CYCLE OF TEST. 120 MM.
AMOUNT OF IRRIGATION APPLIED. EIGHT IRRIGATIONS OF APP. 75 MM. EACH.
FERTILIZER USED. 100 KG OF N. AS UREA AND 50 KG OF P205 AS TRIPLE-SUPERPHOSPHATE PER HECTARE.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. COOL UNTIL MID-APRIL WITH FREQUENT LIGHT RAINS AND HOT THEREAFTER.
DISEASE DEVELOPMENT IN GENERAL. NONE.
INSECT, WEED OR PEST PROBLEMS. STEM BORER CONTROLLED WITH SEVIN GRANULES. BIRD DAMAGE TO GERMINATING PLANTS.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	PLANT HGT.	EAR HGT.	NO. PLTS.
43	COMP. L.(MEIC2	6747.0	78.0	218.0	142.0	28.0
24	H. ABATI 2	5398.0	69.0	218.0	130.0	34.0
29	JK 37	4972.0	80.0	272.0	157.0	37.0
7	SIMT. NICARAGUA 2	4615.0	73.0	198.0	112.0	23.0
14	H-512	4453.0	79.0	257.0	178.0	28.0
47	VIJAY	4426.0	78.0	224.0	130.0	29.0
33	NAB EL-GAMAL	4332.0	68.0	193.0	88.0	29.0
20	POEY T-66	4116.0	82.0	272.0	157.0	23.0
40	H. PERGAMINO GUAZU	4035.0	66.0	152.0	71.0	32.0
1	FUNKS G-43	3913.0	58.0	117.0	43.0	23.0
9	P.H. 5	3913.0	81.0	257.0	163.0	32.0
5	PIONEER X304A	3886.0	81.0	239.0	150.0	34.0
50	LOCAL VARIETY.	3738.0	66.0	136.0	99.0	29.0
21	COMP. NORTEAMERICANO	3724.0	78.0	249.0	142.0	33.0
25	KO. NO. 6	3710.0	66.0	170.0	74.0	30.0
35	METRO	3710.0	80.0	251.0	170.0	27.0
22	(MIX.1XCOL.GPO.1)XETO BL.	3684.0	85.0	300.0	193.0	21.0
45	PIONEER X306A	3603.0	80.0	218.0	142.0	29.0
30	AGROCERES 501	3508.0	80.0	264.0	150.0	31.0
39	KISAN	3481.0	81.0	213.0	140.0	30.0
20	(USA X CARIB. COMP.)	3279.0	72.0	226.0	124.0	39.0
46	FUKKO NO. 8	3063.0	65.0	130.0	97.0	29.0
36	NICARILLO	2928.0	85.0	262.0	183.0	23.0
44	AMERICAN EARLY	2861.0	82.0	224.0	142.0	30.0
2	H-511	2834.0	80.0	254.0	145.0	27.0
10	SIMT.10 LIN.AM.CRIST.	2820.0	91.0	254.0	178.0	22.0
8	SIMT. LIN. RES. ACH.	2685.0	81.0	262.0	167.0	35.0
15	LALTINE	2645.0	66.0	175.0	107.0	24.0
42	ZAPALOTE CHICO-OAX.175	2604.0	64.0	140.0	84.0	26.0
34	H-507 E	2577.0	90.0	196.0	109.0	24.0
37	UNITED 106	2456.0	59.0	140.0	61.0	29.0
27	POEY D-15	2334.0	85.0	292.0	173.0	36.0
11	COMP. CARIBE C3	2334.0	86.0	249.0	150.0	25.0
4	P.H.S. 264	2307.0	85.0	257.0	165.0	27.0
6	HARAPAN	2173.0	85.0	260.0	165.0	27.0
10	ATHERTON DENT	2092.0	83.0	277.0	180.0	27.0
48	COMP. B(C2)	2011.0	89.0	277.0	200.0	26.0
49	JAUNE DE BOUAKE	1997.0	85.0	262.0	175.0	31.0
17	CENTRALMEX	1808.0	83.0	259.0	183.0	25.0
23	H-6138	1754.0	93.0	292.0	191.0	31.0
41	CIPA	1565.0	78.0	218.0	142.0	14.0
12	TUXP. COMP. C3	1457.0	91.0	262.0	183.0	26.0
38	CIPB-AC1-COMP. I	1430.0	80.0	218.0	142.0	33.0
19	H-507	1309.0	90.0	287.0	175.0	27.0
32	COMP.RES.THRIPS	1174.0	80.0	272.0	165.0	29.0
13	CUITAZAR M-C4	1120.0	88.0	280.0	186.0	28.0
3	AGROCERES M-206	1120.0	86.0	249.0	157.0	34.0
16	ETO BLANCO	1106.0	93.0	262.0	192.0	26.0
28	HOJ. B-PC4	0.0	93.0	259.0	163.0	14.0
31	P.H.S. 263	0.0	90.0	302.0	206.0	17.0
	MEANS	2876.14	79.34	236.50	146.42	27.86

CORRELATIONS

GRAIN	YIELD	1.000				
DAYS	FLOWER	-0.495	1.000			
PLANT	HGT.	-0.352	0.854	1.000		
EAR	HGT.	-0.409	0.868	0.949	1.000	
NO.	PLTS.	0.343	-0.183	-0.026	-0.126	1.000

TABLE 12
STATION NAME AND LOCATION. CENTRO DE ESTUDOS DO GANGASSOL, MALANJE, ANGOLA.
COOPERATOR. FERNANDO A.B. MARCELINO.
LATITUDE. 9DG.27' S. LONGITUDE. 16DG.22' E. ELEVATION. 1110 M.
DATE OF PLANTING. 22 OCTOBER, 1970.
PRECIPITATION DURING CYCLE OF TEST. 773.4 MM.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 550 KG/HA OF AMMONIUM SULPHATE, 200 KG SUPERPHOSPHATE (42PC), 100 KG OF KCL AND 50 KG. KIESERITE AT PLANTING TIME.
SIDE-DRESSING 200 KG OF NITRAMONIACAL (20PC N.)
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. STORM ON JANUARY 14 CAUSED SEVERE LODGING. DROUGHT DEC.28-JAN.7 AND JAN.22-FEB.6.
DISEASE DEVELOPMENT IN GENERAL. REPORTED.
INSECT, WEED OR PEST PROBLEMS. SOME BIRD PROBLEM SPECIALLY WITH EARLIER MATERIALS.

NO.	VARIETY	GRAIN YIELD	HELM. TURC.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS
29	JK 37	5254.0	2.0	268.0	165.0	39.0	16.0	1.0	43.0	8.0
33	AGRUCERES 501	4980.0	1.5	268.0	163.0	38.0	5.0	3.0	41.0	5.0
2	H-511	4749.0	1.5	225.0	133.0	40.0	5.0	6.0	39.0	9.0
3	AGRUCERES M-206	4706.0	1.0	240.0	158.0	40.0	2.0	8.0	52.0	8.0
32	SOAP.RCS.THRIPS	4629.0	2.0	258.0	155.0	40.0	12.0	4.0	37.0	11.0
14	H-512	4509.0	1.5	273.0	153.0	40.0	7.0	9.0	40.0	14.0
20	(USA X CARIB. COMP.)	4090.0	3.0	208.0	98.0	37.0	15.0	1.0	37.0	9.0
47	VIJAY	4090.0	3.0	225.0	115.0	37.0	16.0	5.0	40.0	8.0
17	CENTRALMEX	3936.0	2.0	255.0	163.0	39.0	7.0	5.0	36.0	8.0
10	ATHERTON DENT	3936.0	1.5	285.0	163.0	39.0	8.0	4.0	32.0	12.0
39	NISAN	3790.0	2.0	220.0	130.0	32.0	9.0	3.0	31.0	7.0
50	LOCAL VARIETY.	3705.0	2.0	248.0	150.0	40.0	4.0	6.0	34.0	10.0
34	H-507 E	3662.0	2.5	138.0	90.0	40.0	9.0	0.0	36.0	13.0
36	NICARILLO	3645.0	2.0	240.0	133.0	37.0	7.0	5.0	35.0	11.0
5	PIONEER X304A	3542.0	2.5	255.0	145.0	40.0	8.0	5.0	36.0	14.0
21	SOAP. NORTEAMERICANO	3534.0	2.5	243.0	120.0	34.0	4.0	5.0	31.0	9.0
24	H. ABATI 2	3474.0	3.5	180.0	83.0	39.0	19.0	2.0	40.0	9.0
26	POEY T-66	3457.0	1.5	230.0	155.0	39.0	6.0	10.0	34.0	10.0
40	H. PERGAMINO GUAZU	3457.0	3.5	163.0	80.0	36.0	18.0	2.0	35.0	5.0
43	SOAP. B(C2)	3448.0	2.5	260.0	185.0	40.0	5.0	7.0	35.0	11.0
16	ETJ BLANCO	3380.0	2.0	263.0	168.0	38.0	7.0	8.0	31.0	10.0
25	KU. NO. 6	3346.0	2.5	190.0	80.0	36.0	19.0	4.0	36.0	10.0
49	JAUNE DE BOUAKE	3337.0	2.0	273.0	175.0	39.0	9.0	9.0	33.0	11.0
41	CIPA	3294.0	2.5	230.0	93.0	33.0	23.0	2.0	38.0	20.0
12	TUXP. COMP. C3	3277.0	2.5	255.0	158.0	39.0	11.0	4.0	36.0	13.0
46	FUKKO NO. 8	3242.0	3.5	158.0	48.0	32.0	31.0	1.0	33.0	15.0
27	POEY B-15	3174.0	2.0	273.0	165.0	38.0	11.0	6.0	30.0	16.0
9	P.S. 5	3157.0	2.5	263.0	158.0	38.0	6.0	13.0	33.0	6.0
15	CALTINE	3149.0	3.5	170.0	105.0	38.0	27.0	3.0	40.0	5.0
8	STAT. LIN. RES. ACH.	3132.0	2.5	253.0	145.0	40.0	12.0	2.0	36.0	10.0
45	PIONEER X306A	3132.0	2.0	238.0	118.0	39.0	4.0	2.0	35.0	13.0
22	(MEX.1XCOL.GPO.1)XETO BL.	3106.0	2.0	250.0	185.0	39.0	7.0	14.0	30.0	11.0
6	TARAPAN	3046.0	3.0	245.0	153.0	39.0	7.0	7.0	33.0	10.0
31	NAJ EL-GAMAL	3038.0	4.0	195.0	89.0	36.0	23.0	2.0	34.0	13.0
23	H-3138	3020.0	1.0	293.0	200.0	39.0	14.0	3.0	32.0	18.0
33	SOAP. L.(ME)C2	2943.0	3.0	193.0	95.0	35.0	21.0	5.0	32.0	12.0
38	CIPB-AC1-COMP. I	2935.0	2.5	190.0	100.0	35.0	23.0	2.0	24.0	6.0
35	METRI	2875.0	2.0	240.0	150.0	39.0	8.0	4.0	39.0	15.0
11	SOAP. CARIBE C3	2866.0	2.5	253.0	165.0	37.0	14.0	4.0	35.0	11.0
19	H-507	2858.0	2.0	253.0	161.0	38.0	8.0	9.0	31.0	11.0
7	STAT. NICARAGUA 2	2789.0	3.0	203.0	100.0	39.0	18.0	1.0	39.0	8.0
4	P.A.S. 264	2729.0	2.5	263.0	170.0	38.0	10.0	5.0	31.0	12.0
37	UNITED 106	2610.0	4.5	135.0	60.0	32.0	22.0	0.0	32.0	21.0
42	ZAPALOTE CHICO-OAX.179	2464.0	3.5	150.0	84.0	36.0	31.0	3.0	41.0	14.0
13	CORTAZAR M-C4	2421.0	2.5	298.0	213.0	37.0	14.0	8.0	31.0	18.0
13	STAT.10 LIN.AM.CRIST.	2344.0	2.0	233.0	150.0	38.0	11.0	5.0	32.0	15.0
44	AMERICAN EARLY	2199.0	4.0	245.0	113.0	40.0	16.0	8.0	29.0	14.0
31	P.A.S. 263	2028.0	2.5	310.0	193.0	36.0	12.0	8.0	26.0	14.0
1	FUNKS G-43	1934.0	4.0	135.0	59.0	36.0	21.0	9.0	30.0	19.0
28	HOO. B-PC4	1523.0	2.5	258.0	155.0	37.0	16.0	5.0	21.0	12.0
	MEANS	3318.82	2.48	231.16	134.90	37.64	12.96	4.94	34.54	11.48

CORRELATIONS

GRAIN	YIELD	1.000								
HELM.	TURC.	-0.480	1.000							
PLANT	HGT.	0.146	-0.663	1.000						
EAR	HGT.	0.108	-0.700	0.923	1.000					
NO.	PLTS.	0.280	-0.443	0.460	0.519	1.000				
ROOT	LODG.	-0.377	0.742	-0.669	-0.679	-0.599	1.000			
STALK	LODG.	-0.134	-0.288	0.456	0.522	0.306	-0.489	1.000		
NO.	EARS	0.665	-0.170	-0.142	-0.110	0.309	-0.078	-0.215	1.000	
ROT	EARS	-0.473	0.181	-0.049	-0.052	-0.208	0.286	-0.013	-0.253	1.000

TABLE 13
STATION NAME AND LOCATION. CENTRO DE ESTUDOS DA CHIANGA,NOVA LISBOA,ANGOLA.
COOPERATOR. FERNANDO A.B.MARCELINO.
LATITUDE. 12DG.44' S. LONGITUDE. 15DG. 50' E. LEVATION. 1700 M.
DATE OF PLANTING. 5 NOVEMBER,1970.
PRECIPITATION DURING CYCLE OF TEST. 980 MM.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 200 KG AMMONIUM SULPHATE PLUS 200 KG SUPERPHOSPHATE (42PC),100 KG MURIATE OF POTASH AND 50 KG KIESERITE PER HECTARE AT PLANTING TIME. SIDE-DRESSING. 200 KG NITRAMONIACAL.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. STORMS ON 27 NOVEMBER,7 JANUARY,22 MARCH. DROUGHT 26JANUARY-8FEBRUARY.
DISEASE DEVELOPMENT IN GENERAL. NO DATA.
INSECT,WEED OR PEST PROBLEMS. NO DATA.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. TURC.	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS	NO. TILLS.
14	H-512	8231.0	86.0	1.0	1.5	265.0	146.0	39.0	3.0	9.0	41.0	4.0	2.0
23	H-513	8206.0	101.0	1.0	1.5	300.0	210.0	39.0	4.0	7.0	44.0	8.0	2.0
2	H-511	7598.0	82.0	1.0	1.0	264.0	165.0	38.0	2.0	2.0	42.0	6.0	1.0
27	PUEY B-15	7350.0	97.0	1.5	1.5	275.0	171.0	40.0	3.0	9.0	41.0	7.0	2.0
21	JK 37	7136.0	97.0	2.5	1.5	271.0	180.0	39.0	1.0	3.0	51.0	10.0	5.0
13	H-507	6683.0	104.0	2.5	2.5	293.0	198.0	36.0	8.0	13.0	45.0	10.0	1.0
21	COMP. NORTEAMERICANO	6554.0	85.0	3.0	3.0	259.0	148.0	38.0	4.0	15.0	41.0	5.0	1.0
5	PIONEER X304A	6349.0	94.0	4.0	3.0	250.0	157.0	39.0	3.0	13.0	41.0	5.0	3.0
16	CTS BLANCO	6315.0	98.0	2.0	1.5	269.0	172.0	38.0	5.0	4.0	47.0	8.0	3.0
32	COMP.RES.THRIPS	6263.0	91.0	3.0	1.5	275.0	186.0	40.0	1.0	12.0	43.0	9.0	11.0
33	AGROCERES 501	6229.0	97.0	1.5	1.5	248.0	173.0	32.0	2.0	2.0	52.0	9.0	0.0
30	LOCAL VARIETY.	6212.0	90.0	2.0	1.5	252.0	160.0	38.0	2.0	5.0	44.0	7.0	2.0
17	CENTRALMEX	6203.0	96.0	3.0	2.5	290.0	190.0	39.0	5.0	11.0	46.0	9.0	0.0
22	(MIX.1XCOL.GPO.1)XETO BL.	6135.0	101.0	1.5	2.5	300.0	203.0	39.0	9.0	15.0	46.0	7.0	2.0
31	P.A.S. 263	5972.0	102.0	2.0	1.5	299.0	205.0	40.0	8.0	19.0	46.0	12.0	1.0
26	PUEY T-66	5878.0	98.0	3.5	2.5	259.0	166.0	40.0	4.0	23.0	42.0	7.0	1.0
10	ATHERTON DENT	5793.0	95.0	2.5	3.0	285.0	183.0	40.0	3.0	11.0	37.0	8.0	1.0
3	AGROCERES M-206	5664.0	100.0	2.0	1.5	251.0	165.0	37.0	2.0	8.0	68.0	7.0	2.0
43	COMP. L.(MEIC2	5647.0	99.0	3.5	3.0	238.0	158.0	39.0	4.0	16.0	42.0	6.0	1.0
4	P.A.S. 264	5596.0	97.0	3.5	2.5	280.0	183.0	36.0	0.0	20.0	40.0	8.0	6.0
13	CORTAZAR M-C4	5476.0	100.0	2.0	1.5	310.0	205.0	39.0	1.0	16.0	46.0	9.0	3.0
24	A. ABATI 2	5399.0	73.0	3.0	2.5	193.0	108.0	40.0	0.0	0.0	43.0	5.0	1.0
38	CIPB-AC1-COMP. I	5373.0	75.0	2.0	2.5	229.0	128.0	39.0	0.0	8.0	45.0	12.0	12.0
20	ASJ. J-PC4	5356.0	88.0	3.0	1.0	253.0	149.0	40.0	0.0	7.0	42.0	11.0	11.0
20	(USA X CARIB. COMP.)	5237.0	94.0	3.0	3.0	231.0	137.0	39.0	0.0	7.0	41.0	9.0	1.0
47	VIJAY	5117.0	89.0	3.0	2.5	243.0	163.0	40.0	0.0	22.0	46.0	7.0	1.0
12	TUXP. COMP. C3	5091.0	99.0	3.0	2.5	293.0	213.0	40.0	4.0	14.0	42.0	10.0	2.0
48	COMP. B(C2)	5040.0	102.0	3.0	3.0	290.0	215.0	40.0	7.0	10.0	46.0	11.0	0.0
9	P.A. 5	4757.0	93.0	4.0	3.0	265.0	169.0	39.0	1.0	15.0	38.0	4.0	1.0
16	SINT.10 LIN.AM.CRIST.	4706.0	93.0	2.0	2.5	260.0	155.0	35.0	2.0	12.0	35.0	6.0	1.0
49	JAUNE DE BOUAKE	4646.0	99.0	2.5	3.0	265.0	188.0	39.0	3.0	19.0	40.0	11.0	1.0
36	NICARILLO	4561.0	98.0	3.0	2.5	250.0	169.0	38.0	2.0	10.0	43.0	8.0	1.0
8	SINT. LIN. RES. ACH.	4415.0	95.0	4.5	3.0	232.0	145.0	38.0	4.0	13.0	40.0	5.0	2.0
41	CIPA	4372.0	70.0	1.5	1.0	213.0	100.0	39.0	0.0	2.0	47.0	14.0	5.0
25	KU. NO. 6	4270.0	74.0	2.5	2.5	200.0	65.0	39.0	0.0	1.0	40.0	9.0	12.0
35	METRO	4261.0	95.0	3.5	2.5	248.0	158.0	40.0	0.0	9.0	39.0	3.0	1.0
6	HAKAPAN	4261.0	98.0	4.0	3.0	238.0	156.0	40.0	7.0	13.0	40.0	10.0	2.0
34	H-507 E	4218.0	107.0	3.5	1.0	152.0	93.0	40.0	3.0	3.0	39.0	11.0	0.0
45	H. PERGAMINO GUAZU	4218.0	74.0	3.0	2.5	155.0	84.0	37.0	0.0	1.0	49.0	13.0	2.0
39	KISAN	4176.0	96.0	3.0	2.5	213.0	135.0	38.0	5.0	13.0	39.0	10.0	2.0
11	COMP. CARIBE C3	4039.0	93.0	3.5	3.0	245.0	160.0	40.0	7.0	12.0	45.0	10.0	3.0
46	FUKKO NO. 8	3731.0	70.0	2.5	3.0	165.0	69.0	36.0	6.0	12.0	36.0	7.0	1.0
45	PIONEER X306A	3696.0	94.0	4.0	3.0	225.0	122.0	39.0	7.0	8.0	37.0	6.0	1.0
44	AMERICAN EARLY	3200.0	91.0	4.0	3.0	245.0	134.0	34.0	1.0	16.0	23.0	10.0	1.0
1	FUNKS G-43	2884.0	60.0	3.5	4.0	139.0	55.0	0.0	0.0	0.0	40.0	17.0	0.0
37	UNITED 106	2772.0	59.0	3.5	3.0	139.0	53.0	0.0	0.0	0.0	38.0	6.0	1.0
33	NAS EL-GAMAL	2755.0	76.0	4.5	3.0	205.0	110.0	38.0	0.0	4.0	34.0	10.0	1.0
7	SINT. NICARAGUA 2	2199.0	84.0	4.0	3.0	197.0	105.0	38.0	0.0	2.0	43.0	20.0	0.0
42	ZAPALOTE CHICO-DAX.179	2182.0	67.0	4.0	3.0	139.0	77.0	0.0	0.0	0.0	36.0	11.0	0.0
15	CALTINE	1891.0	75.0	4.0	5.0	182.0	88.0	0.0	0.0	0.0	36.0	26.0	1.0
	MEANS	5086.26	89.42	2.86	2.42	240.48	147.94	35.40	2.66	9.32	42.14	9.06	2.34

CORRELATIONS

GRAIN	YIELD	1.000											
DAYS	FLOWER	0.492	1.000										
HELM.	TURC.	-0.691	-0.158	1.000									
PUCC.	SPP.	-0.624	-0.339	0.658	1.000								
PLANT	HGT.	0.713	0.759	-0.421	-0.359	1.000							
EAR	HGT.	0.665	0.830	-0.350	-0.348	0.949	1.000						
NO.	PLTS.	0.535	0.610	-0.264	-0.484	0.600	0.552	1.000					
ROOT	LODG.	0.283	0.548	-0.139	-0.003	0.421	0.470	0.311	1.000				
STALK	LODG.	0.261	0.568	0.068	0.060	0.594	0.604	0.446	0.425	1.000			
NO.	EARS	0.423	0.250	-0.452	-0.454	0.254	0.325	0.232	0.101	-0.085	1.000		
ROT	EARS	-0.504	-0.265	0.173	0.316	-0.338	-0.303	-0.438	-0.193	-0.351	-0.017	1.000	
NO.	TILLS.	0.158	-0.124	-0.157	-0.300	0.088	-0.021	0.207	-0.273	-0.050	0.116	0.041	1.000

TABLE 14
STATION NAME AND LOCATION. CIAT,PALMIRA,COLOMBIA.
SUPERVISOR. C.A.FRANCIS,A.E.D'CRUZ.
LATITUDE. 3DG.26' N. LONGITUDE. 76DG.32' W. ELEVATION. 1008 M.
DATE OF PLANTING. 22 SEPTEMBER,1970.
PRECIPITATION DURING CYCLE OF TEST. 396.35 MM.
AMOUNT OF IRRIGATION APPLIED. 15 MM.SPRINKLED AFTER PLANTING.FORROW IRRIGATION ON JANUARY,1971.
FERTILIZER USED. 300 KG/HA OF 10-30-10 AT PLANTING. 200 KG/HA UREA (46PC) SIDE-DRESSING.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. DROUGHT AT FLOWERING TIME AND GRAIN FORMATION PERIOD.
DISEASE DEVELOPMENT IN GENERAL. PUCCINIA SPP. AND HELMINTHOSPORIUM SPP. NOT VERY SEVERE.
INSECT,WEED OR PEST PROBLEMS. CUT WORMS 15 DAYS AFTER PLANTING.FALL ARMY WORM,EAR WORM AND BORERS AFFECTED YIELDS.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. SPP.	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	STALK LODG.	NO. EARS	ROT EARS
1	COMP. NORTEAMERICANO	5314.0	63.0	3.0	4.5	295.0	149.0	24.0	7.0	24.0	8.0
2	I-512	3521.0	67.0	3.0	3.5	336.0	174.0	15.0	7.0	16.0	5.0
3	COMP. CARIBE C3	3125.0	71.0	2.0	4.0	324.0	196.0	39.0	9.0	42.0	5.0
4	I-537	3009.0	74.0	2.0	3.5	333.0	203.0	32.0	4.0	36.0	6.0
5	P.I.S. 264	2881.0	72.0	3.0	4.0	234.0	183.0	31.0	8.0	37.0	10.0
6	CHIR.IACUL.GPO.IXALTO BL.	2676.0	73.0	2.5	2.5	347.0	221.0	33.0	9.0	30.0	9.0
7	I-511	2664.0	68.0	2.0	3.5	296.0	166.0	23.0	9.0	23.0	4.0
8	P.I.S. 5	2446.0	58.0	4.5	2.5	332.0	200.0	29.0	10.0	31.0	5.0
9	IACUPAM	2420.0	70.0	2.5	3.0	309.0	182.0	30.0	15.0	25.0	7.0
10	PUCY F-66	2407.0	71.0	3.5	2.0	295.0	172.0	21.0	8.0	20.0	2.0
11	STAT.ID LIN.AM.CRIST.	2369.0	69.0	2.0	3.5	304.0	164.0	28.0	13.0	29.0	7.0
12	ICTA BLANCO	2356.0	72.0	3.5	3.5	315.0	187.0	22.0	7.0	19.0	9.0
13	CUTCUMBER	2331.0	69.0	3.0	3.5	344.0	206.0	37.0	8.0	34.0	6.0
14	PIONEER X3064	2203.0	70.0	1.0	3.5	313.0	169.0	29.0	6.0	29.0	15.0
15	STAT. LIN. RES. ACH.	2164.0	64.0	2.5	3.0	292.0	165.0	35.0	9.0	41.0	14.0
16	LOCAL VARIETY.	2023.0	66.0	1.5	3.5	292.0	155.0	28.0	5.0	28.0	7.0
17	RODGERS M-206	1998.0	72.0	3.0	4.5	281.0	160.0	33.0	7.0	40.0	17.0
18	RODGERS 501	1934.0	65.0	1.5	5.0	255.0	167.0	36.0	0.0	32.0	8.0
19	STAT. NICARAGUA 2	1908.0	64.0	1.0	2.5	270.0	131.0	39.0	20.0	38.0	4.0
20	COMP. 1962	1793.0	73.0	2.5	4.0	336.0	204.0	14.0	5.0	15.0	5.0
21	SUPERAZAR 4-C4	1562.0	70.0	1.5	3.5	344.0	201.0	24.0	9.0	23.0	11.0
22	CALTIC	1562.0	58.0	1.0	3.5	303.0	113.0	20.0	21.0	21.0	5.0
23	DIA X CARIB. COMP.1	1511.0	67.0	1.0	2.0	279.0	145.0	29.0	8.0	30.0	12.0
24	CIAT	1498.0	65.0	2.5	3.5	303.0	162.0	19.0	7.0	21.0	11.0
25	CIAT-ICA-COMP. 1	1357.0	62.0	1.0	3.5	273.0	198.0	23.0	8.0	25.0	7.0
26	JAPIE DE BOUAKE	1232.0	71.0	2.5	3.0	330.0	193.0	22.0	4.0	21.0	12.0
27	STAT. 2	1332.0	55.0	1.0	4.0	256.0	123.0	35.0	2.0	37.0	16.0
28	DIAS 5-43	1242.0	46.0	2.0	2.0	203.0	67.0	24.0	26.0	23.0	6.0
29	TIAP. COMP. C3	1204.0	72.0	2.0	5.0	338.0	213.0	23.0	6.0	27.0	19.0
30	PUCKO ID. M	1178.0	53.0	1.0	2.5	220.0	87.0	20.0	22.0	19.0	4.0
31	CAPALITO CHICO-DAX.179	1063.0	53.0	1.0	2.5	210.0	107.0	26.0	18.0	27.0	3.0
32	CIA. ID. 6	1037.0	55.0	1.0	4.0	266.0	93.0	37.0	11.0	32.0	13.0
33	VIJAY	896.0	56.0	1.0	3.5	292.0	161.0	24.0	4.0	25.0	11.0
34	I-533	0.0	73.0	2.5	4.5	323.0	212.0	11.0	11.0	11.0	9.0
35	CUCUMBER	0.0	66.0	2.5	2.5	310.0	176.0	26.0	4.0	25.0	15.0
36	I-537 C	0.0	73.0	1.0	3.0	292.0	96.0	12.0	1.0	12.0	8.0
37	P.I.S. 233	0.0	77.0	1.5	4.5	322.0	205.0	10.0	6.0	11.0	8.0
38	STICATON DENT	0.0	71.0	4.5	3.5	354.0	194.0	8.0	6.0	8.0	6.0
39	PIONEER X3064	0.0	64.0	2.0	4.0	285.0	151.0	17.0	4.0	26.0	20.0
40	COMP. I-PC4	0.0	59.0	1.0	4.0	115.0	56.0	22.0	22.0	0.0	0.0
41	CIPA	0.0	57.0	1.0	3.0	256.0	119.0	7.0	12.0	6.0	1.0
42	COMP.C.C.THRIPS	0.0	68.0	2.5	5.0	313.0	170.0	17.0	9.0	16.0	4.0
43	CUCUZAM EARLY	0.0	73.0	1.0	2.0	303.0	159.0	1.0	27.0	1.0	0.0
44	ICTA	0.0	69.0	2.5	3.0	289.0	164.0	19.0	5.0	17.0	9.0
45	JA 17	0.0	70.0	2.0	4.5	306.0	183.0	19.0	1.0	21.0	11.0
46	P. PERAMINO GUAZU	0.0	55.0	1.0	4.0	232.0	93.0	10.0	3.0	11.0	4.0
47	COMP. C.TAEJOC2	0.0	65.0	2.5	2.5	282.0	159.0	15.0	2.0	30.0	22.0
48	TAI CC-GAMAL	0.0	59.0	1.0	5.0	292.0	123.0	8.0	7.0	8.0	5.0
49	UNITED 103	0.0	47.0	1.0	1.0	157.0	66.0	17.0	11.0	15.0	5.0
50	POLY F-15	0.0	57.0	2.5	4.0	300.0	166.0	10.0	6.0	10.0	9.0
	MEANS	1406.32	65.88	2.00	3.44	286.70	159.18	22.66	8.98	22.96	8.38

CORRELATIONS

GRAIN	YIELD	1.000									
DAYS	FLOWER	0.167	1.000								
HELM.	SPP.	0.328	0.444	1.000							
PUCC.	SPP.	0.023	0.323	0.042	1.000						
PLANT	HGT.	0.303	0.595	0.510	0.230	1.000					
EAR	HGT.	0.309	0.757	0.562	0.273	0.867	1.000				
NO.	PLTS.	0.600	0.012	0.034	-0.017	0.042	0.114	1.000			
STALK	LODG.	-0.007	-0.377	-0.243	-0.401	-0.319	-0.432	-0.029	1.000		
NO.	EARS	0.575	0.036	0.116	-0.009	0.193	0.247	0.890	-0.196	1.000	
ROT	EARS	-0.059	0.181	0.100	0.194	0.228	0.241	0.239	-0.521	0.466	1.000

TABLE 15
STATION NAME AND LOCATION. PATNAGAR, INDIA.
COOPERATOR. M.C.PANDEY, V.L.ASNANI.
LATITUDE. 29DG. N. LONGITUDE. 79DG.30' E. ELEVATION. 244 M.
DATE OF PLANTING. 20 JUNE, 1971.
PRECIPITATION DURING CYCLE OF TEST. NO DATA.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 150-60-40 AMMONIUM SULPHATE, DIAMMONIUM PHOSPHATE, AND POTASSIUM MURIATE.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. NO DATA.
DISEASE DEVELOPMENT IN GENERAL. SEVERE ATTACK OF BROWN-STRIPE DOWNY MILDEW.
INSECT, WEED OR PEST PROBLEMS. NO DATA.

ID.	VARIETY	GRAIN YIELD	DAYS FLOWER	B.S.D MILD.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.
9	PIONEER X304A	4517.0	64.0	2.5	277.0	147.0	66.0	5.0	4.0
17	H-507	3907.0	69.0	2.5	280.0	147.0	36.0	5.0	2.0
43	COMP. L.(MEIC2	3617.0	60.0	2.0	260.0	136.0	56.0	8.0	5.0
11	COMP. CARIBE C3	3374.0	63.0	2.5	278.0	149.0	40.0	6.0	6.0
29	JK 37	3268.0	63.0	3.0	290.0	155.0	71.0	2.0	2.0
19	KISAN	3262.0	60.0	2.0	261.0	141.0	30.0	3.0	3.0
36	H-307 L	3244.0	66.0	2.5	211.0	98.0	54.0	3.0	2.0
16	HICARILLO	3102.0	64.0	2.5	272.0	144.0	41.0	2.0	3.0
6	TARAPIN	3078.0	64.0	1.5	263.0	135.0	29.0	4.0	5.0
13	SENT.10 LIN.AM.CRIST. .	3037.0	62.0	2.0	272.0	140.0	24.0	2.0	4.0
12	TUXP. COMP. C3	3031.0	67.0	2.5	295.0	173.0	39.0	10.0	7.0
32	(MEX.1XCOL.GPO.1)XLTD BL.	2972.0	66.0	3.0	275.0	147.0	28.0	6.0	4.0
1	SENT. LIN. RES. ACH.	2859.0	60.0	2.5	268.0	145.0	51.0	8.0	4.0
23	COSA (CARIB. COMP.)	2788.0	58.0	2.0	262.0	124.0	45.0	6.0	1.0
47	VIJAY	2747.0	51.0	2.5	253.0	119.0	44.0	6.0	5.0
15	CTD BLANCO	2699.0	67.0	1.5	287.0	140.0	46.0	7.0	5.0
35	METRO	2693.0	65.0	2.0	275.0	144.0	45.0	6.0	2.0
14	H-512	2652.0	62.0	2.5	216.0	140.0	34.0	8.0	6.0
7	P.A.S. 5	2545.0	62.0	3.0	273.0	145.0	47.0	4.0	8.0
21	COMP. NORTEAMERICANO	2539.0	61.0	3.0	264.0	128.0	65.0	3.0	3.0
28	POEY F-66	2539.0	54.0	1.5	273.0	147.0	42.0	5.0	5.0
41	JAJME DE BOUAKE	2492.0	66.0	3.0	300.0	166.0	49.0	5.0	7.0
30	COMP. B(C2)	2439.0	65.0	2.5	271.0	151.0	45.0	3.0	8.0
45	PIONEER X306A	2380.0	51.0	2.5	242.0	112.0	29.0	3.0	1.0
4	P.A.S. 264	2096.0	65.0	2.5	288.0	143.0	35.0	5.0	7.0
2	H-511	2090.0	64.0	3.0	253.0	131.0	30.0	6.0	4.0
40	T. PERGAMINO GUAZU	1959.0	54.0	3.0	236.0	113.0	61.0	6.0	5.0
33	AGROCERES 501	1841.0	65.0	3.5	266.0	141.0	34.0	4.0	2.0
18	CORTAZAR M-C4	1657.0	66.0	3.0	289.0	159.0	36.0	7.0	5.0
10	ATHERTON DENT	1652.0	65.0	2.5	290.0	149.0	52.0	2.0	3.0
50	LOCAL VARIETY.	1616.0	54.0	3.0	240.0	129.0	66.0	5.0	11.0
44	AMERICAN EARLY	1551.0	65.0	3.5	258.0	123.0	28.0	2.0	9.0
25	KJ. NO. 6	1444.0	51.0	2.5	229.0	99.0	29.0	1.0	6.0
39	RAS EL-GAMAL	1344.0	54.0	3.5	236.0	111.0	41.0	2.0	3.0
20	H-6133	1332.0	71.0	3.5	296.0	157.0	49.0	22.0	3.0
46	FUKKO NO. 8	1290.0	52.0	2.0	196.0	77.0	31.0	0.0	4.0
17	CENTRALMEX	1184.0	65.0	2.5	260.0	137.0	38.0	4.0	5.0
33	CIPD-AC1-COMP. 1	1066.0	67.0	3.0	255.0	129.0	32.0	5.0	5.0
27	POEY 3-15	882.0	65.0	3.0	272.0	124.0	26.0	1.0	9.0
42	ZAPALOTE CHICO-OAX.179	787.0	49.0	3.5	209.0	112.0	36.0	4.0	6.0
24	T. MATI 2	764.0	53.0	3.5	222.0	112.0	59.0	2.0	4.0
7	SENT. NICARAGUA 2	758.0	65.0	3.0	228.0	108.0	35.0	5.0	3.0
3	AGROCERES M-206	497.0	65.0	3.5	243.0	126.0	41.0	4.0	4.0
15	LALTINE	408.0	52.0	4.0	211.0	102.0	34.0	2.0	4.0
31	P.A.S. 263	355.0	71.0	3.5	286.0	139.0	32.0	3.0	2.0
37	UNITED 106	284.0	49.0	4.5	193.0	72.0	31.0	1.0	3.0
1	FUKKO-43	184.0	46.0	4.5	177.0	60.0	30.0	0.0	5.0
41	CIPA	0.0	67.0	3.5	257.0	130.0	19.0	1.0	4.0
26	NO. 3-PC4	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
32	COMP.RES.THRIPS	0.0	67.0	3.0	277.0	152.0	23.0	6.0	7.0
	MEANS	1976.44	60.54	2.83	251.80	128.16	39.64	4.40	4.50

CORRELATIONS

GRAIN	YIELD	1.000							
DAYS	FLOWER	0.356	1.000						
B.S.D	MILD.	-0.696	-0.373	1.000					
PLANT	HGT.	0.455	0.921	-0.429	1.000				
EAR	HGT.	0.513	0.845	-0.452	0.934	1.000			
NO.	PLTS.	0.454	0.314	-0.190	0.415	0.399	1.000		
ROOT	LODG.	0.259	0.381	-0.184	0.401	0.500	0.265	1.000	
STALK	LODG.	-0.050	0.205	-0.042	0.262	0.286	0.085	0.061	1.000

TABLE 16
STATION NAME AND LOCATION. UKIRIGURU RESEARCH AND TRAINING INSTITUTE, MWANZA, TANZANIA.
COOPERATOR. JOHN H. MONYO, MACKENZIE J. KAPALASULA.
LATITUDE. 2DG.42' S. LONGITUDE. 33DG.1' E. ELEVATION. 1198 M.
DATE OF PLANTING. 1 JANUARY, 1971.
PRECIPITATION DURING CYCLE OF TEST. 331.5 MM.
AMOUNT OF IRRIGATION APPLIED. NIL.
FERTILIZER USED. 45 KG/HA P205 AS SINGLE-SUPERPHOSPHATE BEFORE PLANTING. 90KG/HA OF N. AS CAN AFTER THINNING.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. DROUGHT FOR SEVERAL WEEKS NEAR TASSELING.
DISEASE DEVELOPMENT IN GENERAL. BACTERIAL WHITE BLIGHT AND RUST, BUT NOT SEVERE.
INSECT, WEED OR PEST PROBLEMS. TERMITES CAUSED LITTLE DAMAGE TO FEW PLANTS IN CERTAIN PLOTS.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	B. W. BLGT.	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS
21	COMP. NORTEAMERICANO	2325.0	69.0	2.0	2.0	200.0	93.0	16.0	6.0	0.0	15.0	1.0
23	H-6130	2158.0	83.0	0.5	0.0	203.0	111.0	16.0	4.0	0.0	11.0	0.0
46	FUKKO NO. 8	1972.0	55.0	1.0	1.0	135.0	51.0	16.0	2.0	2.0	22.0	0.0
17	CENTRALMEX	1934.0	75.0	2.0	2.0	201.0	103.0	16.0	5.0	0.0	11.0	0.0
34	I. AMATI 2	1879.0	62.0	1.0	1.0	166.0	62.0	15.0	4.0	0.0	16.0	0.0
30	(USA X CARIB. COMP.)	1841.0	63.0	1.5	1.0	181.0	85.0	16.0	10.0	0.0	14.0	1.0
13	LALTINE	1730.0	72.0	0.0	0.5	165.0	57.0	16.0	2.0	0.0	23.0	0.0
48	COMP. B(C2)	1637.0	83.0	1.0	0.5	206.0	116.0	11.0	3.0	0.0	10.0	0.0
42	ZAPALOTE CHICO-DAX.179	1618.0	58.0	0.5	0.5	148.0	61.0	20.0	1.0	0.0	24.0	0.0
19	H-507	1581.0	87.0	1.5	1.5	191.0	105.0	19.0	2.0	0.0	10.0	0.0
10	AGROCERES 501	1469.0	78.0	1.5	1.5	197.0	108.0	14.0	1.0	1.0	6.0	0.0
7	SINT. NICARAGUA 2	1469.0	59.0	0.0	0.0	179.0	70.0	20.0	1.0	0.0	17.0	0.0
25	KU. NO. 6	1414.0	58.0	0.5	0.5	172.0	45.0	19.0	2.0	0.0	12.0	0.0
32	AKI EL-GAMAL	1395.0	59.0	1.0	0.0	178.0	71.0	13.0	2.0	0.0	10.0	1.0
47	VIJAY	1358.0	72.0	1.0	1.0	180.0	90.0	15.0	3.0	1.0	11.0	0.0
13	CORTAZAR M-C4	1321.0	87.0	2.0	0.5	194.0	115.0	16.0	6.0	0.0	7.0	1.0
10	ATHERTON DENT	1302.0	80.0	1.5	1.0	172.0	98.0	13.0	3.0	1.0	2.0	1.0
6	TARAPAN	1172.0	84.0	1.5	1.5	147.0	93.0	16.0	2.0	0.0	8.0	0.0
38	CIPB-AC1-COMP. I	1172.0	59.0	0.5	0.0	197.0	67.0	13.0	1.0	0.0	11.0	0.0
29	JK 87	1097.0	77.0	1.0	0.5	179.0	104.0	16.0	4.0	0.0	8.0	0.0
37	UNITED 106	1042.0	58.0	0.0	0.0	148.0	43.0	12.0	5.0	0.0	15.0	0.0
43	COMP. L.(MEIC2	1023.0	71.0	1.0	1.0	195.0	97.0	19.0	5.0	0.0	13.0	0.0
27	POEY B-15	1023.0	75.0	1.0	0.5	195.0	114.0	15.0	6.0	0.0	5.0	0.0
1	FUKKS G-43	1023.0	59.0	0.5	0.0	153.0	52.0	16.0	1.0	0.0	15.0	0.0
22	(MEX.IXCOL.GPO.11XETO BL.	1004.0	89.0	2.0	1.5	170.0	107.0	19.0	8.0	0.0	7.0	0.0
49	JAUNE DE BOUAKE	930.0	83.0	1.5	1.0	177.0	109.0	16.0	8.0	0.0	6.0	0.0
42	COMP.RES.THRIPS	893.0	74.0	1.0	0.5	188.0	91.0	12.0	1.0	0.0	4.0	0.0
50	LOCAL VARIETY.	893.0	61.0	1.0	1.0	163.0	57.0	15.0	1.0	0.0	11.0	0.0
3	AGROCERES M-206	893.0	82.0	1.5	1.0	184.0	99.0	11.0	4.0	0.0	7.0	0.0
36	NICARILLO	874.0	83.0	0.5	0.5	176.0	94.0	10.0	5.0	0.0	6.0	1.0
41	CIPA	874.0	58.0	0.0	0.0	169.0	65.0	16.0	4.0	0.0	9.0	0.0
2	H-511	856.0	67.0	1.0	0.0	216.0	104.0	11.0	5.0	0.0	5.0	1.0
13	SINT.13 LIN.AM.CRIST.	818.0	82.0	0.5	0.5	154.0	84.0	12.0	5.0	0.0	8.0	1.0
11	COMP. CARIBE C3	800.0	86.0	2.0	0.5	140.0	79.0	15.0	2.0	1.0	12.0	0.0
43	H. PERGAMINO GUAZU	800.0	58.0	1.0	1.0	140.0	57.0	16.0	7.0	0.0	8.0	0.0
14	H-512	763.0	73.0	1.0	0.5	182.0	103.0	14.0	2.0	1.0	2.0	0.0
5	PIONEER X304A	744.0	80.0	1.5	2.5	178.0	97.0	14.0	2.0	0.0	5.0	0.0
45	PIONEER X306A	725.0	73.0	2.5	2.5	182.0	93.0	17.0	2.0	0.0	8.0	0.0
8	SINT. LIN. RES. ACH.	725.0	71.0	1.5	1.0	169.0	102.0	19.0	3.0	0.0	8.0	0.0
39	KISAN	725.0	77.0	2.0	0.5	159.0	85.0	11.0	4.0	0.0	5.0	0.0
9	P.J. 5	614.0	68.0	1.5	0.5	173.0	94.0	13.0	1.0	0.0	4.0	0.0
28	HOJ. 3-PC4	595.0	73.0	1.0	0.5	183.0	89.0	13.0	5.0	1.0	2.0	0.0
12	FUKP. COMP. C3	577.0	85.0	1.0	1.0	171.0	101.0	16.0	4.0	0.0	7.0	0.0
44	AMERICAN EARLY	577.0	71.0	1.5	1.5	187.0	90.0	10.0	4.0	0.0	5.0	0.0
34	H-507 E	558.0	86.0	2.0	1.5	104.0	50.0	15.0	2.0	0.0	4.0	0.0
15	ETO BLANCO	558.0	89.0	2.0	0.5	180.0	96.0	18.0	3.0	0.0	9.0	0.0
31	P.A.S. 263	539.0	80.0	1.0	1.0	153.0	91.0	16.0	2.0	1.0	3.0	0.0
35	METRO	484.0	73.0	1.5	1.5	193.0	94.0	14.0	5.0	0.0	4.0	0.0
4	P.A.S. 264	428.0	83.0	1.0	1.5	165.0	91.0	11.0	0.0	0.0	5.0	1.0
26	POEY T-66	391.0	81.0	1.0	1.0	127.0	73.0	14.0	0.0	1.0	4.0	0.0
	MEANS	1091.86	73.42	1.16	0.86	173.30	86.12	14.92	3.40	0.20	9.08	0.18

CORRELATIONS

GRAIN	YIELD	1.000										
DAYS	FLOWER	-0.277	1.000									
B. W.	BLGT.	-0.133	0.509	1.000								
PUCC.	SPP.	-0.032	0.328	0.652	1.000							
PLANT	HGT.	0.287	0.052	0.072	-0.013	1.000						
EAR	HGT.	-0.053	0.661	0.447	0.249	0.651	1.000					
NO.	PLTS.	0.295	-0.120	0.034	0.116	-0.105	-0.108	1.000				
ROOT	LODG.	0.149	0.088	0.198	0.056	0.259	0.299	0.027	1.000			
STALK	LODG.	0.023	-0.005	0.030	0.029	-0.264	-0.063	-0.055	-0.247	1.000		
NO.	EARS	0.672	-0.521	-0.380	-0.185	-0.139	-0.524	0.456	-0.070	-0.041	1.000	
ROT	EARS	0.144	0.062	0.049	-0.062	0.182	0.155	-0.325	0.273	-0.093	-0.098	1.000

TABLE 17
STATION NAME AND LOCATION. HDA. CABALLERO, VALLE CHILLON, LIMA, PERU.
COOPERATOR. FEDERICO SCHEUCH, PROGR. COOP. INV. MAIZ, UNIV. AGRARIA LA MOLINA .
LATITUDE. 11DG.48' S. LONGITUDE. 77DG.W. ELEVATION. 400 M.
DATE OF PLANTING. 6 OCTOBER, 1970.
PRECIPITATION DURING CYCLE OF TEST. NONE.
AMOUNT OF IRRIGATION APPLIED. 8 IRRIGATIONS.
FERTILIZER USED. 186 KG AMMONIUM PHOSPHATE (18-46-0), 333 KG AMMONIUM SULPHATE (33PC) AND 83 KG. POTASSIUM SULPHATE, PER HECTARE.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. NORMAL.
DISEASE DEVELOPMENT IN GENERAL. NO DATA.
INSECT,WEED OR PEST PROBLEMS. ELASMOPALPUS AND SPODOPTERA CHEMICALLY CONTROLLED. WEEDING BY HAND.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. SPP.	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS	NO. TILLS.
19	H-507	12132.0	99.0	1.0	2.0	318.0	218.0	38.0	0.5	1.0	61.0	0.0	6.0
27	POEY d-15	11048.0	88.0	1.0	0.5	264.0	168.0	34.0	1.5	0.5	43.0	1.0	4.0
50	LOCAL VARIETY.	10402.0	93.0	1.5	1.0	315.0	217.0	36.0	0.5	1.5	51.0	0.0	3.0
22	(MIX.1XCOL.GPU.1)XETO BL.	10131.0	95.0	1.0	1.0	293.0	196.0	37.0	2.0	1.5	44.0	0.0	4.0
5	PIONEER X304A	10120.0	86.0	1.0	3.0	250.0	156.0	37.0	0.0	0.0	47.0	1.0	4.0
29	JK 17	10079.0	88.0	1.0	0.0	263.0	173.0	37.0	0.0	0.0	58.0	2.0	4.0
4	P.H.S. 264	10037.0	91.0	1.0	2.0	286.0	189.0	38.0	1.0	2.0	60.0	1.0	5.0
31	P.H.S. 263	9954.0	96.0	1.5	1.0	321.0	223.0	37.0	1.0	0.0	57.0	0.0	3.0
43	COMP. L.(ME)C2	9746.0	83.0	2.0	1.0	227.0	142.0	35.0	1.5	0.5	55.0	0.0	2.0
16	ETO BLANCO	9600.0	92.0	1.0	1.5	271.0	177.0	36.0	1.0	2.0	58.0	1.0	2.0
13	CORTAZAR M-C4	9443.0	96.0	1.5	1.0	312.0	219.0	38.0	1.5	2.0	55.0	2.0	4.0
23	M-6130	9349.0	98.0	0.0	0.0	315.0	219.0	37.0	0.0	0.5	47.0	2.0	6.0
17	CENTRALMEX	8985.0	96.0	1.5	2.5	299.0	198.0	38.0	0.0	0.5	54.0	0.0	3.0
30	AGROCERES 501	8870.0	88.0	1.5	0.0	241.0	170.0	34.0	0.0	0.0	65.0	0.0	1.0
26	POEY T-66	8078.0	96.0	1.5	1.5	264.0	168.0	32.0	1.5	2.0	41.0	0.0	3.0
12	TUXP. COMP. C3	8036.0	94.0	2.0	1.5	314.0	226.0	35.0	0.5	1.5	47.0	1.0	2.0
45	PIONEER X306A	7932.0	87.0	1.0	1.5	226.0	135.0	36.0	1.5	2.0	48.0	0.0	4.0
11	COMP. CARIBE C3	7911.0	93.0	1.0	2.0	256.0	171.0	31.0	1.0	2.5	50.0	0.0	3.0
36	NICARILLO	7859.0	92.0	1.0	2.0	253.0	159.0	33.0	1.5	1.5	43.0	0.0	2.0
32	COMP.RES.THRIPS	7609.0	88.0	1.0	0.0	293.0	193.0	38.0	1.5	1.5	48.0	4.0	19.0
34	H-507 E	7525.0	98.0	1.0	1.5	150.0	88.0	36.0	0.0	0.0	42.0	1.0	2.0
48	COMP. B(C2)	7473.0	93.0	0.5	2.0	292.0	195.0	36.0	1.0	1.0	49.0	0.0	1.0
2	H-511	7473.0	83.0	1.5	0.0	263.0	169.0	36.0	0.0	0.0	45.0	8.0	4.0
39	KISAN	7452.0	86.0	1.0	2.0	222.0	128.0	34.0	2.0	2.5	47.0	0.0	4.0
3	AGROCERES M-206	7421.0	94.0	1.5	1.5	242.0	167.0	37.0	1.0	1.0	84.0	0.0	10.0
49	JAUNE DE BOUAKE	7327.0	91.0	1.5	2.0	267.0	171.0	36.0	2.0	1.5	47.0	0.0	3.0
8	SINT. LIN. RES. ACH.	7223.0	90.0	2.0	1.5	245.0	149.0	38.0	1.0	0.5	57.0	0.0	3.0
21	COMP. NORTEAMERICANO	7171.0	81.0	1.5	2.0	250.0	149.0	37.0	1.5	1.5	46.0	2.0	7.0
9	P.B. 5	7150.0	88.0	1.5	2.5	252.0	170.0	34.0	2.5	1.5	50.0	1.0	2.0
6	MARAPAN	7036.0	91.0	1.0	1.0	260.0	166.0	36.0	1.5	1.0	44.0	0.0	4.0
47	VIJAY	6921.0	85.0	1.5	2.0	211.0	121.0	33.0	1.0	2.5	48.0	2.0	3.0
20	(USA X CARIB. COMP.)	6806.0	90.0	2.0	1.0	194.0	121.0	36.0	2.0	2.0	48.0	1.0	5.0
35	METRO	6566.0	85.0	1.0	2.0	219.0	139.0	31.0	3.0	2.0	41.0	0.0	3.0
18	SINT.10 LIN.AM.CRIST.	6546.0	88.0	1.0	1.0	224.0	130.0	37.0	1.5	1.0	48.0	0.0	3.0
14	H-512	6400.0	90.0	1.0	0.5	256.0	171.0	37.0	1.0	2.0	40.0	3.0	3.0
24	H. ABATI 2	6223.0	73.0	1.5	1.0	163.0	91.0	37.0	0.0	0.0	62.0	10.0	4.0
38	CIPB-AG1-COMP. I	6118.0	76.0	2.0	0.5	208.0	134.0	37.0	1.5	1.0	61.0	7.0	33.0
28	AGO. d-PC4	4649.0	87.0	2.0	0.0	240.0	155.0	38.0	2.0	3.0	38.0	8.0	37.0
10	ATHERTON DENT	4148.0	90.0	1.0	0.5	266.0	170.0	36.0	2.0	1.5	25.0	10.0	3.0
41	CIPA	3971.0	71.0	2.0	0.0	217.0	131.0	36.0	2.5	2.5	56.0	18.0	26.0
7	SINT. NICARAGUA 2	3784.0	74.0	3.0	3.5	189.0	114.0	33.0	4.0	2.0	42.0	1.0	2.0
40	H. PERGAMINO GUAZU	3752.0	72.0	2.0	1.0	155.0	86.0	37.0	0.5	0.5	61.0	10.0	3.0
25	KO. NO. 6	3533.0	69.0	1.5	2.5	185.0	98.0	37.0	2.0	1.5	45.0	9.0	8.0
44	AMERICAN EARLY	3283.0	84.0	3.0	2.0	259.0	151.0	35.0	1.5	1.5	22.0	8.0	1.0
33	NAB EL-GAMAL	2439.0	76.0	3.0	4.0	203.0	121.0	35.0	2.0	2.0	33.0	9.0	3.0
42	ZAPALOTE CHICO-OAX.179	2189.0	64.0	0.0	3.0	120.0	70.0	34.0	3.5	2.0	42.0	0.0	2.0
15	CALTINE	2064.0	70.0	3.0	4.0	130.0	74.0	32.0	2.5	2.5	34.0	6.0	3.0
46	FUKKO NO. 8	1876.0	70.0	2.0	1.0	172.0	87.0	31.0	1.5	1.0	20.0	6.0	1.0
1	FUNKS G-43	1021.0	64.0	4.0	3.0	135.0	66.0	33.0	2.0	1.0	17.0	11.0	1.0
37	UNITED 106	865.0	57.0	0.0	2.0	138.0	60.0	31.0	2.0	2.0	15.0	10.0	1.0
	MEANS	6874.52	85.18	1.47	1.51	238.16	151.16	35.46	1.35	1.34	46.82	3.12	5.38

CORRELATIONS

GRAIN	YIELD	1.000											
DAYS	FLOWER	0.813	1.000										
HELP.	SPP.	-0.422	-0.336	1.000									
PUCC.	SPP.	-0.350	-0.302	0.313	1.000								
PLANT	HGT.	0.764	0.826	-0.285	-0.366	1.000							
EAR	HGT.	0.779	0.840	-0.286	-0.371	0.986	1.000						
NO.	PLTS.	0.417	0.382	-0.128	-0.369	0.445	0.443	1.000					
ROOT	LODG.	-0.545	-0.480	0.241	0.387	-0.395	-0.396	-0.386	1.000				
STALK	LODG.	-0.340	-0.176	0.089	0.281	-0.124	-0.135	-0.323	0.634	1.000			
NO.	EARS	0.615	0.420	-0.202	-0.276	0.346	0.410	0.518	-0.388	-0.285	1.000		
ROT	EARS	-0.666	-0.648	0.392	-0.098	-0.435	-0.466	-0.018	0.152	0.111	-0.331	1.000	
NO.	TILLS.	-0.081	-0.087	0.092	-0.393	0.025	0.036	0.350	0.133	0.243	0.191	0.387	1.000

TABLE 19
STATION NAME AND LOCATION. I.R.A.T., BP.635, BOUAKE, COTE D'IVOIRE.
COOPERATOR. DRS. BOSSO AND M. MARCHAND.
LATITUDE. 906.36' N LONGITUDE. 506.12' W. ELEVATION. 320 M.
DATE OF PLANTING. 14 MAY, 1971.
PRECIPITATION DURING CYCLE OF TEST. 667.3 MM.
AMOUNT OF IRRIGATION APPLIED. NONE.
FERTILIZER USED. 110 KG. UREA 250 KG KCL AND 200 KG. DICALCIOPHOSPHATE BEFORE PLANTING. 110 KG. UREA AFTER 50 DAYS. RATES PER HECTARE.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. DROUGHT DURING LAST WEEK IN JUNE AND FIRST IN JULY.
DISEASE DEVELOPMENT IN GENERAL. NOT PARTICULAR.
INSECT, WEED OR PEST PROBLEMS. NOT PARTICULAR.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	NO. EARS
22	(MEX.IXCOL.GPO.1)XLTO BL.	2870.0	69.0	2.0	258.0	128.0	30.0	2.5	33.0
7	PIONEER X304A	2806.0	66.0	1.5	210.0	100.0	40.0	1.5	38.0
17	I-537	2751.0	69.0	2.0	250.0	133.0	35.0	3.0	34.0
14	I-537 L	2537.0	68.0	1.5	180.0	83.0	40.0	1.0	39.0
20	POLY T-66	2537.0	68.0	1.5	235.0	115.0	39.0	1.5	38.0
17	CENTRAL MEX	2499.0	64.0	2.0	240.0	120.0	38.0	2.0	41.0
13	CENTAZAR M-C4	2405.0	69.0	3.0	265.0	148.0	31.0	2.5	33.0
11	COMP. CARIBE C3	2387.0	67.0	1.5	235.0	118.0	35.0	2.0	42.0
21	DK 37	2345.0	68.0	1.5	235.0	115.0	40.0	1.5	40.0
15	PICARILLO	2332.0	66.0	2.0	240.0	123.0	36.0	1.0	33.0
12	PIONEER X306A	2255.0	63.0	2.0	203.0	105.0	33.0	1.0	38.0
31	I-518	2250.0	67.0	2.5	263.0	125.0	40.0	1.0	38.0
43	COMP. B(C2)	2220.0	67.0	2.0	250.0	130.0	38.0	1.5	41.0
7	P.A.S. 254	2216.0	69.0	3.0	233.0	109.0	38.0	3.5	39.0
43	COMP. L.(MEX)C2	2216.0	61.0	2.5	198.0	103.0	35.0	3.5	34.0
7	TARAPAN	2182.0	67.0	1.5	215.0	100.0	36.0	2.5	35.0
16	ETI BLANCO	2152.0	69.0	2.0	235.0	118.0	38.0	2.5	38.0
27	POLY 3-15	2126.0	69.0	3.5	238.0	128.0	32.0	1.0	32.0
30	LOCAL VARIETY.	2114.0	68.0	3.0	220.0	113.0	38.0	2.0	42.0
12	COMP. COMP. C3	2088.0	70.0	2.0	253.0	133.0	40.0	1.5	38.0
13	SINT.10 LIN.AM.CRIST.	2062.0	67.0	2.0	195.0	80.0	32.0	2.0	32.0
3	SINT. LIN. RLS. AGR.	2054.0	64.0	2.0	223.0	123.0	42.0	1.5	46.0
2	I-511	2054.0	63.0	3.0	225.0	113.0	41.0	2.5	35.0
21	COMP. NORTEAMERICANO	2049.0	63.0	3.5	230.0	110.0	39.0	3.0	39.0
19	KISAN	2036.0	64.0	3.5	215.0	115.0	38.0	1.5	38.0
15	CALTIR	2032.0	58.0	3.0	203.0	83.0	31.0	3.5	30.0
32	COMP.RLS.THRIPS	1964.0	68.0	2.5	225.0	113.0	37.0	3.5	30.0
1	AGROCERES M-206	1964.0	68.0	3.5	233.0	113.0	38.0	2.5	41.0
5	AGROCERES 501	1930.0	57.0	3.0	215.0	110.0	39.0	2.0	43.0
7	P.A.S. 5	1852.0	68.0	2.5	233.0	123.0	40.0	2.5	43.0
37	VIJAY	1823.0	67.0	3.5	215.0	105.0	40.0	1.0	42.0
39	METRO	1767.0	64.0	3.0	220.0	118.0	37.0	1.5	19.0
26	(USA X CARIB. COMP.)	1741.0	60.0	3.5	230.0	113.0	38.0	1.0	37.0
10	ATTERTON DENT	1715.0	67.0	4.0	248.0	133.0	36.0	3.0	35.0
24	I. ABATI 2	1681.0	55.0	3.5	200.0	83.0	37.0	2.0	34.0
7	SINT. NICARAGUA 2	1557.0	60.0	4.0	195.0	83.0	38.0	2.5	35.0
14	I-512	1378.0	68.0	2.5	238.0	103.0	34.0	3.0	29.0
44	AMERICAN EARLY	1326.0	68.0	5.0	235.0	118.0	30.0	2.5	23.0
11	P.A.S. 261	1318.0	69.0	2.5	265.0	153.0	27.0	3.0	20.0
40	H. PERGAMINO GUAZU	1258.0	47.0	3.5	185.0	75.0	36.0	3.0	39.0
25	CO. NO. 6	1061.0	50.0	4.0	200.0	63.0	31.0	4.5	31.0
38	CIP3-AC1-COMP. 1	971.0	60.0	3.5	238.0	115.0	39.0	2.5	37.0
33	VAB EL-GAMAL	945.0	53.0	2.0	210.0	100.0	29.0	5.0	23.0
41	CIPA	753.0	53.0	3.5	208.0	103.0	25.0	3.5	19.0
23	HGJ. 8-PC4	749.0	71.0	3.5	250.0	135.0	16.0	3.5	13.0
42	CAPALOTE CHICO-OAX.179	685.0	42.0	4.0	165.0	80.0	30.0	4.0	27.0
47	JAUNE DE BOUAKE	0.0	68.0	2.0	250.0	135.0	36.0	1.0	39.0
1	FUKKS G-43	0.0	92.0	2.0	180.0	73.0	29.0	1.0	18.0
37	UNITED 106	0.0	42.0	3.0	145.0	48.0	27.0	4.0	9.0
46	FUKKO NO. 8	0.0	42.0	4.0	198.0	73.0	25.0	3.0	8.0
	MEANS	1760.26	63.04	2.75	222.56	108.76	35.02	2.35	33.20

CORRELATIONS

GRAIN	YIELD	1.000							
DAYS	FLOWER	0.657	1.000						
PUCC.	SPP.	-0.433	-0.377	1.000					
PLANT	HGT.	0.401	0.748	-0.167	1.000				
EAR	HGT.	0.411	0.767	-0.196	0.918	1.000			
NO.	PLTS.	0.561	0.349	-0.270	0.138	0.146	1.000		
ROOT	LODG.	-0.346	-0.441	0.344	-0.237	-0.298	-0.489	1.000	
NO.	EARS	0.666	0.500	-0.307	0.294	0.305	0.836	-0.446	1.000

TABLE 19
STATION NAME AND LOCATION. AGRICULTURAL RESEARCH STATION,MAHA-ILLUPPALLAMA, CEYLON.
COOPERATOR. C.B.HINCAGALA,J.W.PEIRIS.
LATITUDE. 8DG.5' N. LONGITUDE. 80DG. 28' E. ELEVATION. 214 M.
DATE OF PLANTING. 8 JUNE,1971.
PRECIPITATION DURING CYCLE OF TEST. 234 MM.
AMOUNT OF IRRIGATION APPLIED. APPROXIMATELY 914 MM.
FERTILIZER USED. 23 KG OF N.AS AMMONIUM SULPHATE,56 OF P205 AS CONC-SUPERPHOSPHATE,45 KG OF K20 AS MURIATE OF POTASH AT PLANTING.
FOUR WEEKS LATER. 67 KG OF N. AS AMM.SULPHATE.RATES PER HECTARE.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. NORMAL FOR THE SEASON.
DISEASE DEVELOPMENT IN GENERAL. NO SERIOUS DISEASES OBSERVED.
INSECT,WEED OR PEST PROBLEMS. STEM BORER(CHILLO PARTELLUS) NORMALLY SERIOUS, WAS RELATIVELLY LOW AND WAS CONTROLLED SPRAYING AZUDRIN EMULSION 60C.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS
29	JK 37	6982.0	60.0	212.0	120.0	34.0	7.0	0.0	31.0	2.0
65	PIONEER X306A	6877.0	59.0	159.0	83.0	25.0	5.0	6.0	30.0	2.0
63	COMP. L.(MEX)C2	6455.0	55.0	175.0	92.0	34.0	8.0	9.0	33.0	2.0
66	FUKKO NO. 8	6384.0	46.0	146.0	58.0	23.0	47.0	11.0	26.0	1.0
20	(USA X CARIB. COMP.)	5962.0	55.0	169.0	78.0	33.0	7.0	9.0	31.0	1.0
18	CIMMYT-ACI-COMP. I	5804.0	51.0	171.0	81.0	34.0	10.0	6.0	35.0	1.0
21	COMP. NORTEAMERICANO	5611.0	60.0	164.0	90.0	32.0	7.0	3.0	31.0	2.0
24	A. ABATI 2	5575.0	49.0	150.0	69.0	32.0	3.0	3.0	34.0	0.0
44	AMERICAN EARLY	5523.0	59.0	204.0	89.0	32.0	17.0	6.0	26.0	4.0
17	CENTRALMEX	5505.0	60.0	190.0	113.0	31.0	5.0	13.0	29.0	0.0
5	PIONEER X304A	5382.0	62.0	195.0	104.0	33.0	8.0	2.0	33.0	3.0
16	ETO BLANCO	5382.0	62.0	211.0	119.0	32.0	6.0	5.0	29.0	0.0
14	I-512	5224.0	50.0	199.0	105.0	33.0	5.0	3.0	32.0	3.0
13	CUATAZAR M-C4	5153.0	59.0	220.0	124.0	31.0	3.0	3.0	31.0	3.0
38	COMP. B(C2)	5118.0	62.0	209.0	126.0	33.0	10.0	5.0	28.0	2.0
60	T. PERGAMINO GUAZU	5101.0	43.0	125.0	55.0	33.0	7.0	4.0	35.0	1.0
35	METRO	5048.0	56.0	193.0	102.0	34.0	9.0	6.0	34.0	0.0
37	VIJAY	4977.0	56.0	178.0	85.0	34.0	3.0	19.0	29.0	1.0
27	POEY J-15	4889.0	62.0	216.0	109.0	34.0	10.0	9.0	30.0	4.0
10	AGROCERES 501	4889.0	60.0	204.0	98.0	32.0	21.0	8.0	28.0	3.0
2	I-511	4854.0	58.0	178.0	88.0	29.0	18.0	18.0	28.0	1.0
26	POEY T-66	4749.0	61.0	185.0	101.0	33.0	5.0	1.0	29.0	0.0
11	COMP. CARIBE C3	4714.0	66.0	183.0	82.0	34.0	6.0	6.0	35.0	1.0
19	I-537	4696.0	60.0	201.0	124.0	28.0	11.0	8.0	25.0	1.0
1	STAT. LIN. RES. ACH.	4643.0	58.0	195.0	96.0	34.0	4.0	4.0	31.0	0.0
12	COMP. COMP. C3	4643.0	64.0	232.0	140.0	34.0	4.0	7.0	31.0	1.0
42	JAVNE DE BOUAKE	4643.0	63.0	232.0	117.0	32.0	14.0	8.0	31.0	0.0
15	CALTIME	4626.0	54.0	131.0	52.0	33.0	34.0	15.0	36.0	1.0
22	(MEX.IXCOL.GPO.1)XETO BL.	4608.0	65.0	224.0	126.0	33.0	7.0	8.0	29.0	1.0
39	KISAN	4415.0	59.0	156.0	96.0	33.0	11.0	4.0	28.0	2.0
33	RAS EL-GAMAL	4379.0	49.0	154.0	57.0	34.0	13.0	11.0	31.0	2.0
34	I-537 L	4344.0	66.0	152.0	80.0	31.0	3.0	9.0	28.0	1.0
37	MEXFED 106	4221.0	40.0	139.0	35.0	30.0	55.0	18.0	31.0	0.0
32	COMP.RES.THRIPS	4151.0	63.0	197.0	112.0	31.0	10.0	7.0	29.0	10.0
4	P.I.S. 264	4133.0	61.0	179.0	93.0	34.0	20.0	9.0	34.0	1.0
1	FUKKS 6-43	4080.0	42.0	107.0	39.0	30.0	35.0	19.0	28.0	4.0
9	P.I.S. 5	3975.0	62.0	173.0	101.0	34.0	5.0	7.0	36.0	0.0
8	MATAPAN	3905.0	63.0	164.0	82.0	30.0	8.0	4.0	29.0	0.0
7	STAT. NICARAGUA 2	3817.0	51.0	151.0	66.0	34.0	12.0	5.0	33.0	0.0
29	KU. NO. 6	3729.0	47.0	144.0	43.0	34.0	14.0	7.0	31.0	2.0
30	LOCAL VARIETY.	3676.0	60.0	188.0	93.0	33.0	12.0	9.0	31.0	3.0
41	CIPA	3482.0	50.0	173.0	77.0	34.0	9.0	8.0	33.0	2.0
13	STAT.10 LIN.AM.CRIST.	3447.0	63.0	189.0	91.0	34.0	8.0	6.0	29.0	1.0
42	CAPALJTE CHICO-OAX.179	3324.0	43.0	121.0	61.0	33.0	22.0	21.0	34.0	1.0
36	NICARILLO	3307.0	62.0	203.0	108.0	29.0	3.0	3.0	28.0	1.0
3	AGROCERES M-206	3183.0	63.0	199.0	94.0	34.0	16.0	4.0	29.0	1.0
13	ATHERTON DENT	3148.0	62.0	190.0	100.0	33.0	6.0	3.0	26.0	8.0
23	I-613J	2814.0	66.0	238.0	147.0	34.0	6.0	5.0	23.0	3.0
31	P.I.S. 263	2656.0	71.0	209.0	132.0	32.0	9.0	3.0	27.0	2.0
24	ISJ. 3-PC4	1126.0	71.0	223.0	135.0	30.0	15.0	18.0	21.0	2.0
	MEANS	4586.58	57.92	181.00	93.36	32.20	11.86	7.70	30.18	1.74

CORRELATIONS

GRAIN	YIELD	1.000								
DAYS	FLOWER	-0.252	1.000							
PLANT	HGT.	-0.100	0.777	1.000						
EAR	HGT.	-0.122	0.799	0.931	1.000					
NO.	PLTS.	-0.181	0.096	0.181	0.105	1.000				
ROOT	LODG.	-0.050	-0.529	-0.532	-0.544	-0.385	1.000			
STALK	LODG.	-0.199	-0.366	-0.410	-0.377	-0.211	0.569	1.000		
NO.	EARS	0.335	-0.392	-0.409	-0.419	0.432	-0.053	-0.086	1.000	
ROT	EARS	-0.128	0.119	0.184	0.145	-0.011	-0.029	-0.082	-0.293	1.000

TABLE 20
STATION NAME AND LOCATION. KENYA SEED COMPANY,ENDEBESS,KENYA.
COOPERATOR. KENYA SEED CO., LTD.,P.O.BOX 553,KITALE,KENYA.
LATITUDE. 1DG.7' N. LONGITUDE. 34DG. 45' E. ELEVATION. 1860 M.
DATE OF PLANTING. 15 APRIL,1971.
PRECIPITATION DURING CYCLE OF TEST. 624 MM.
AMOUNT OF IRRIGATION APPLIED. NIL.
FERTILIZER USED. 40C KG/HA SINGLE-SUPERPHOSPHATE PLUS 100 KG/HA AMMONIUM-SULPHATE-NITRATE (ASN) AT PLANTING. 700 KG/HA ASN AT KNEE HEIGHT.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. AFTER LONG PERIOD OF DROUGHT RAINS STARTED 2 WEEKS AFTER NORMAL ONSET.HEAV STORMS AT HARVEST TIME.
DISEASE DEVELOPMENT IN GENERAL. MOST EXOTIC MATERIALS AFFECTED SEVERELY BY LEAF BLIGHT AND RUST AFTER FLOWERING.
INSECT,WEED OR PEST PROBLEMS. NO MAJOR PEST PROBLEMS.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. SPP.	PUCC. SPP.	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. EARS	ROT EARS	NO. TILLS.
23	H-6133	9068.0	110.0	0.5	1.5	370.0	235.0	38.0	4.0	0.0	48.0	0.0	4.0
2	H-511	8132.0	90.0	1.0	1.5	291.0	164.0	37.0	4.0	2.0	44.0	0.0	4.0
14	H-512	7609.0	95.0	1.0	2.0	332.0	176.0	37.0	1.0	3.0	41.0	1.0	7.0
50	LOCAL VARIETY.	7320.0	110.0	1.0	2.0	340.0	200.0	38.0	2.0	5.0	47.0	0.0	9.0
27	POEY B-15	7018.0	97.0	2.0	2.0	341.0	173.0	38.0	2.0	4.0	42.0	0.0	3.0
28	HOJ. B-PC4	6192.0	90.0	2.5	0.5	337.0	176.0	38.0	3.0	8.0	42.0	1.0	34.0
10	AGROCERES 501	5889.0	99.0	1.5	3.0	310.0	191.0	37.0	1.0	5.0	58.0	1.0	1.0
38	CIPB-AC1-COMP. I	5876.0	81.0	1.5	1.5	258.0	113.0	38.0	0.0	5.0	54.0	0.0	34.0
32	COMP.RES.THRIPS	5765.0	99.0	2.5	2.5	321.0	170.0	37.0	5.0	6.0	43.0	1.0	18.0
41	CIPA	5518.0	73.0	2.0	1.0	266.0	109.0	38.0	1.0	10.0	49.0	1.0	30.0
29	QK 37	5435.0	102.0	2.0	2.5	341.0	194.0	38.0	0.0	6.0	42.0	0.0	9.0
24	H. ABATI 2	3908.0	80.0	1.5	2.0	253.0	104.0	38.0	0.0	3.0	41.0	1.0	11.0
40	H. PERGAMINO GUAZU	3908.0	77.0	1.5	1.5	225.0	98.0	38.0	1.0	5.0	52.0	4.0	12.0
13	CORTAZAR M-C4	3894.0	106.0	2.5	2.5	353.0	220.0	37.0	7.0	14.0	38.0	0.0	5.0
3	AGROCERES M-206	3880.0	106.0	2.0	2.5	295.0	178.0	38.0	1.0	3.0	60.0	2.0	6.0
25	KU. NO. 6	3701.0	73.0	1.5	3.0	252.0	89.0	39.0	0.0	2.0	41.0	0.0	19.0
19	H-507	3481.0	110.0	3.0	3.0	346.0	213.0	38.0	1.0	8.0	39.0	0.0	4.0
17	CENTRALMEX	3440.0	107.0	2.0	3.0	329.0	208.0	38.0	2.0	12.0	33.0	1.0	2.0
16	ETO BLANCO	3165.0	106.0	2.0	3.0	296.0	162.0	38.0	1.0	9.0	34.0	1.0	2.0
22	(MIX.IXCOL.GPO.1)XETO BL.	2752.0	110.0	2.5	3.5	324.0	200.0	38.0	2.0	12.0	33.0	0.0	5.0
34	H-507 C	2656.0	110.0	2.0	3.0	124.0	89.0	38.0	0.0	2.0	35.0	0.0	0.0
21	COMP. NORTEAMERICANO	2614.0	101.0	2.5	3.5	294.0	136.0	38.0	1.0	9.0	30.0	1.0	7.0
26	POEY T-66	2449.0	108.0	3.0	3.0	306.0	179.0	36.0	2.0	25.0	28.0	0.0	4.0
31	P.M.S. 263	2436.0	107.0	3.0	3.5	354.0	221.0	37.0	4.0	16.0	29.0	1.0	2.0
48	COMP. B(C2)	2422.0	110.0	2.0	3.0	343.0	219.0	37.0	2.0	12.0	34.0	1.0	5.0
43	COMP. C.(ME)C2	2380.0	97.0	3.0	3.5	271.0	141.0	38.0	2.0	5.0	32.0	1.0	2.0
46	FUKKO NO. 8	2367.0	72.0	2.0	2.5	232.0	88.0	38.0	0.0	21.0	37.0	1.0	1.0
18	SINT.10 LIN.AM.CRIST.	2353.0	105.0	2.0	3.0	301.0	171.0	37.0	1.0	9.0	32.0	1.0	3.0
20	(USA X CARIB. COMP.)	2270.0	94.0	2.5	4.0	276.0	136.0	38.0	1.0	13.0	32.0	1.0	9.0
37	UNITED 106	2147.0	63.0	2.5	3.0	169.0	62.0	36.0	0.0	13.0	36.0	3.0	8.0
47	JAUNE DE BOUAKE	2078.0	109.0	2.0	3.5	333.0	196.0	38.0	2.0	20.0	27.0	0.0	2.0
36	NICARILLO	2064.0	101.0	3.0	3.0	298.0	166.0	38.0	3.0	14.0	27.0	1.0	4.0
47	VIJAY	1954.0	97.0	3.0	3.5	273.0	143.0	37.0	0.0	11.0	30.0	1.0	5.0
4	P.M.S. 264	1913.0	109.0	3.0	3.5	298.0	180.0	36.0	2.0	18.0	31.0	3.0	6.0
11	COMP. CARIBE C3	1913.0	106.0	3.0	4.0	308.0	184.0	35.0	3.0	19.0	27.0	0.0	4.0
12	TUXP. COMP. C3	1775.0	110.0	2.5	4.0	336.0	225.0	36.0	3.0	11.0	23.0	0.0	3.0
35	METRO	1748.0	102.0	2.5	3.0	277.0	158.0	38.0	2.0	13.0	26.0	1.0	4.0
15	AMERTON DENT	1734.0	106.0	2.0	3.0	313.0	178.0	36.0	0.0	4.0	19.0	1.0	7.0
39	KISAN	1569.0	102.0	3.5	4.0	265.0	137.0	38.0	3.0	6.0	25.0	0.0	3.0
6	HARAPAN	1500.0	105.0	3.5	4.0	276.0	166.0	36.0	1.0	18.0	22.0	1.0	3.0
1	FUNKS G-43	1335.0	64.0	3.0	2.5	153.0	60.0	38.0	1.0	11.0	30.0	1.0	5.0
9	P.B. 5	1321.0	108.0	3.5	4.0	296.0	181.0	36.0	2.0	15.0	22.0	0.0	4.0
8	SINT. LIN. RES. ACH.	1293.0	106.0	4.0	4.5	290.0	163.0	36.0	1.0	16.0	21.0	0.0	4.0
44	AMERICAN EARLY	1087.0	108.0	4.0	4.5	294.0	151.0	37.0	2.0	13.0	14.0	0.0	3.0
5	PIONEER X304A	1060.0	106.0	3.0	4.0	299.0	167.0	38.0	1.0	11.0	18.0	1.0	2.0
42	ZAPALOTE CHICO-OAX.179	949.0	70.0	2.5	3.0	188.0	76.0	38.0	0.0	9.0	39.0	11.0	1.0
45	PIONEER X306A	798.0	92.0	2.5	5.0	268.0	140.0	38.0	1.0	12.0	16.0	0.0	4.0
7	SINT. NICARAGUA 2	605.0	85.0	3.0	4.0	233.0	110.0	38.0	1.0	4.0	23.0	2.0	3.0
15	CALTINE	564.0	76.0	3.0	3.0	211.0	97.0	38.0	2.0	11.0	24.0	4.0	3.0
33	NAB EL-GAMAL	454.0	84.0	3.5	4.0	258.0	105.0	38.0	0.0	7.0	13.0	1.0	4.0
	MEANS	3155.18	96.82	2.41	3.00	286.34	155.96	37.44	1.62	9.80	33.66	1.04	6.68

CORRELATIONS

GRAIN	YIELD	1.000											
DAYS	FLOWER	0.023	1.000										
HELM.	SPP.	-0.765	0.122	1.000									
PUCC.	SPP.	-0.780	0.341	0.690	1.000								
PLANT	HGT.	0.410	0.676	-0.151	-0.070	1.000							
EAR	HGT.	0.304	0.840	-0.095	0.042	0.920	1.000						
NO.	PLTS.	0.181	-0.308	-0.320	-0.300	-0.177	-0.308	1.000					
ROOT	LODG.	0.258	0.387	0.041	-0.104	0.520	0.569	-0.206	1.000				
STALK	LODG.	-0.528	0.167	0.548	0.430	0.070	0.133	-0.466	0.139	1.000			
NO.	EARS	0.774	-0.223	-0.724	-0.778	0.081	0.024	0.290	0.017	-0.479	1.000		
ROT	EARS	-0.241	-0.470	0.033	-0.068	-0.435	-0.424	0.083	-0.236	-0.020	0.108	1.000	
NO.	TILLS.	0.416	-0.366	-0.252	-0.592	0.022	-0.181	0.196	-0.048	-0.236	0.443	-0.074	1.000

TABLE 21
STATION NAME AND LOCATION. LA PLATINA, I.N.I.A., SANTIAGO, CHILE.
COOPERADOR. ALEJANDRO VIOLIC, ISMAEL PARKER.
LATITUDE. 33DG.30' S. LONGITUDE. 70DG.30' W. ELEVATION. 450 M.
DATE OF PLANTING. 12 NOVEMBER, 1970.
PRECIPITATION DURING CYCLE OF TEST. NONE.
AMOUNT OF IRRIGATION APPLIED. 8 IRRIGATIONS.
FERTILIZED USED. 320 KG P2O5/HA AS SUPERPHOSPHATE AND 270 KG/HA OF N.AS UREA
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. FAVORABLE UNTIL 16 APRIL WHEN AN EARLY FROST KILLED THE PLANTS.
DISEASE DEVELOPMENT IN GENERAL. ROOT AND STALK ROTS CAUSED BY FUSARIUM SPP. WERE IMPORTANT.
INSECT, WEED OR PEST PROBLEMS. NONE.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	PLANT HGT.	EAR HGT.	NO. PLTS.	ROOT LODG.	STALK LODG.	NO. TILLS.	NO. EARS
2	H-511	10159.0	105.0	345.0	205.0	56.0	1.0	2.0	0.0	50.0
24	H. ABATI 2	9350.0	87.0	310.0	130.0	63.0	6.0	16.0	0.0	61.0
47	VIJAY	9101.0	116.0	355.0	200.0	63.0	0.0	7.0	2.0	65.0
10	AGROCERES 501	8951.0	112.0	375.0	240.0	60.0	3.0	3.0	0.0	61.0
29	JK 37	8727.0	115.0	360.0	215.0	64.0	0.0	1.0	1.0	63.0
30	LOCAL VARIETY.	8727.0	88.0	300.0	150.0	65.0	5.0	43.0	3.0	40.0
14	H-512	7669.0	118.0	360.0	210.0	63.0	9.0	8.0	0.0	25.0
21	COMP. NORTEAMERICANO	7383.0	104.0	360.0	195.0	65.0	7.0	14.0	1.0	53.0
25	KO. NO. 6	6810.0	79.0	255.0	120.0	66.0	0.0	35.0	0.0	51.0
37	KISAN	6760.0	115.0	370.0	185.0	58.0	13.0	5.0	1.0	49.0
33	NAI EL-GAMAL	6611.0	95.0	345.0	155.0	56.0	1.0	8.0	0.0	39.0
44	AMERICAN EARLY	6549.0	105.0	360.0	200.0	60.0	13.0	7.0	2.0	38.0
40	H. PERGAMINO GUAZU	6511.0	87.0	290.0	115.0	65.0	3.0	11.0	0.0	68.0
35	METRO	6412.0	114.0	365.0	195.0	61.0	0.0	6.0	1.0	49.0
41	CIPA	6387.0	95.0	320.0	160.0	62.0	3.0	14.0	0.0	42.0
20	(USA X CARIB. COMP.)	6337.0	93.0	285.0	160.0	61.0	9.0	9.0	0.0	46.0
5	PIONEER X304A	6125.0	117.0	370.0	225.0	67.0	12.0	2.0	0.0	49.0
28	HOJ. 8-PC4	6038.0	115.0	380.0	220.0	58.0	28.0	4.0	0.0	34.0
1	FUKKS G-43	5789.0	75.0	245.0	90.0	64.0	0.0	28.0	0.0	53.0
36	NICARILLO	5777.0	116.0	355.0	215.0	56.0	4.0	4.0	0.0	45.0
38	CIPB-AC1-COMP. I	5490.0	114.0	345.0	210.0	66.0	1.0	7.0	0.0	45.0
3	TARAPAN	5378.0	116.0	355.0	210.0	63.0	4.0	19.0	0.0	45.0
17	CENTRALMEX	5229.0	111.0	380.0	220.0	64.0	17.0	4.0	0.0	50.0
16	ETJ BLANCO	5055.0	113.0	360.0	200.0	63.0	2.0	7.0	0.0	43.0
43	COMP. L.(ME)C2	4943.0	114.0	375.0	205.0	65.0	6.0	1.0	1.0	47.0
27	POEY J-15	4818.0	120.0	370.0	258.0	59.0	1.0	1.0	2.0	35.0
45	PIONEER X306A	4793.0	116.0	345.0	175.0	59.0	5.0	3.0	2.0	37.0
26	POEY T-66	4694.0	117.0	380.0	230.0	62.0	6.0	7.0	0.0	28.0
18	STAT.10 LIN.AM.CRIST.	4656.0	112.0	340.0	200.0	61.0	8.0	22.0	0.0	32.0
17	UNITED 106	4656.0	73.0	230.0	85.0	60.0	0.0	50.0	0.0	38.0
9	P.A. 3	4557.0	116.0	335.0	200.0	64.0	6.0	15.0	3.0	60.0
49	JAUNE DE BOUAKE	4532.0	119.0	395.0	255.0	61.0	9.0	4.0	2.0	37.0
32	COMP.RES.THRIPS	4519.0	115.0	425.0	245.0	62.0	19.0	5.0	0.0	40.0
22	(MEX.IXCOL.GPU.1)XETO BL.	4283.0	119.0	395.0	260.0	62.0	20.0	4.0	0.0	29.0
4	STAT. LIN. RES. ACH.	4258.0	115.0	360.0	220.0	61.0	7.0	6.0	1.0	49.0
7	STAT. NICARAGUA 2	4158.0	121.0	345.0	200.0	62.0	3.0	16.0	0.0	47.0
13	ATHERTON DENT	4146.0	113.0	365.0	210.0	62.0	10.0	7.0	2.0	30.0
46	FUKKO NO. 8	3897.0	76.0	215.0	130.0	60.0	29.0	25.0	0.0	39.0
42	ZAPALOTE CHICO-OAX.179	3486.0	81.0	260.0	140.0	59.0	0.0	43.0	0.0	38.0
15	LALTINE	3187.0	101.0	295.0	145.0	64.0	0.0	45.0	0.0	48.0
11	COMP. CARIBE C3	3112.0	113.0	400.0	246.0	61.0	7.0	9.0	0.0	26.0
4	P.A.S. 264	2639.0	123.0	375.0	240.0	62.0	25.0	6.0	6.0	16.0
23	H-6138	2602.0	123.0	425.0	275.0	58.0	37.0	8.0	1.0	15.0
19	H-507	2303.0	123.0	400.0	170.0	63.0	17.0	1.0	0.0	21.0
13	CORTAZAR M-C4	2266.0	109.0	335.0	240.0	63.0	4.0	2.0	1.0	26.0
3	AGROCERES M-206	2216.0	116.0	335.0	195.0	55.0	2.0	1.0	0.0	34.0
48	COMP. B(C2)	1905.0	120.0	420.0	260.0	65.0	20.0	10.0	4.0	25.0
12	TUXP. COMP. C3	1444.0	110.0	410.0	210.0	63.0	4.0	1.0	1.0	17.0
31	P.A.S. 253	685.0	128.0	415.0	265.0	57.0	43.0	0.0	0.0	7.0
34	H-507 E	0.0	128.0	220.0	140.0	35.0	2.0	8.0	0.0	0.0
	MEANS	5121.60	108.32	347.00	196.48	61.06	8.62	11.28	0.74	39.70

CORRELATIONS

GRAIN	YIELD	1.000							
DAYS	FLOWER	-0.338	1.000						
PLANT	HGT.	-0.134	0.737	1.000					
EAR	HGT.	-0.217	0.801	0.883	1.000				
NO.	PLTS.	0.319	-0.225	0.231	0.060	1.000			
ROOT	LODG.	-0.372	0.307	0.399	0.442	-0.043	1.000		
STALK	LODG.	0.065	-0.712	-0.688	-0.667	0.154	-0.254	1.000	
NO.	TILLS.	-0.097	0.246	0.245	0.284	0.152	0.162	-0.086	1.000
NO.	EARS	0.754	-0.395	-0.242	-0.324	0.472	-0.489	0.163	-0.135	1.000

TABLE 22
STATION NAME AND LOCATION. BELTSVILLE,MARYLAND,U.S.A.
COOPERATOR. G.F.SPRAGUE,ROY PEA (USDA).
LATITUDE. 39DG.36' N. LONGITUDE. 76DG.54' W.
DATE OF PLANTING. 10 MAY,1971.
PRECIPITATION DURING CYCLE OF TEST. 635 MM.
AMOUNT OF IRRIGATION APPLIED. APPROXIMATELY 51 MM.ON JULY 10.
FERTILIZER USED. 672 KG/HA OF 10-10-10 PLOWED DOWN.
GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. AVERAGE.
DISEASE DEVELOPMENT IN GENERAL. LITTLE LEAF AND STALK DISEASES.SOME EAR ROTS ASSOCIATED WITH BIRD DAMAGE.
INSECT,WEED OR PEST PROBLEMS. STARLINGS AND BLACKBIRDS.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	NO. TILLS.	PLANT HGT.	EAR HGT.	NO. EARS
33	KIBAN	5343.0	93.0	2.0	224.0	19.0	41.0
23	DK 17	4665.0	100.0	10.0	274.0	39.0	64.0
49	PIONEER X306A	4281.0	100.0	4.0	277.0	18.0	32.0
5	H. IBATI 2	4138.0	77.0	19.0	166.0	42.0	57.0
43	H. PERGAMINO GUAZU	3768.0	77.0	18.0	230.0	44.0	79.0
47	VIJAY	3693.0	86.0	5.0	219.0	41.0	51.0
1	H-512	3685.0	87.0	9.0	191.0	41.0	46.0
44	AMERICAN EARLY	3610.0	93.0	2.0	272.0	25.0	28.0
21	COMP. NORTEAMERICANO	3557.0	88.0	8.0	255.0	40.0	52.0
43	LOCAL VARIETY.	3467.0	77.0	6.0	223.0	39.0	44.0
13	ATHERTON DENT	3422.0	92.0	10.0	280.0	28.0	25.0
3	PIONEER X304A	3361.0	87.0	4.0	233.0	38.0	33.0
50	COSTA X CARIB. COMP.1	3256.0	89.0	7.0	191.0	39.0	40.0
11	SINT.1D LIN.AM.CRIST.	3180.0	98.0	5.0	244.0	22.0	28.0
35	TICARILLO	2992.0	103.0	4.0	318.0	18.0	26.0
7	P.S. 5	2706.0	91.0	3.0	309.0	29.0	36.0
25	KO. NO. 6	2706.0	77.0	10.0	299.0	46.0	51.0
15	METRO	2698.0	91.0	11.0	293.0	30.0	34.0
9	P.M.S. 264	2585.0	136.0	2.0	307.0	29.0	35.0
46	FUKKO NO. 8	2442.0	79.0	9.0	210.0	25.0	30.0
29	POEY F-66	2427.0	103.0	2.0	272.0	25.0	23.0
22	(MEX.1XCOL.GPO.1)XEFO BL.	2382.0	131.0	42.0	275.0	18.0	17.0
5	NACAPAN	2336.0	103.0	3.0	183.0	21.0	19.0
3	AGRICERES M-206	2299.0	131.0	7.0	290.0	25.0	43.0
33	NAJ EL-GAMAL	2216.0	77.0	8.0	216.0	37.0	35.0
2	H-511	2088.0	89.0	20.0	299.0	36.0	36.0
43	COMP. L.(MEX)C2	1899.0	96.0	1.0	278.0	43.0	33.0
17	H-507	1884.0	96.0	0.0	315.0	26.0	39.0
8	SINT. LIN. RES. ACH.	1862.0	98.0	4.0	278.0	41.0	44.0
48	COMP. B(C2)	1786.0	103.0	18.0	230.0	42.0	36.0
17	CENTRALMEX	1771.0	136.0	37.0	266.0	28.0	26.0
27	POEY J-15	1733.0	96.0	11.0	275.0	42.0	30.0
34	H-507 E	1726.0	138.0	10.0	279.0	33.0	41.0
11	COMP. CARIBE C3	1537.0	106.0	1.0	311.0	34.0	29.0
10	AGRICERES 501	1492.0	103.0	6.0	282.0	15.0	22.0
16	ETJ BLANCO	1372.0	108.0	0.0	298.0	27.0	22.0
13	CORTAZAR M-C4	1281.0	109.0	3.0	307.0	41.0	27.0
41	CIPA	1213.0	77.0	45.0	244.0	34.0	45.0
12	TUXP. COMP. C3	1198.0	109.0	2.0	254.0	40.0	31.0
49	JAUNE DE BOUAKE	1191.0	136.0	3.0	216.0	31.0	25.0
23	H-133	1130.0	112.0	6.0	219.0	42.0	39.0
42	ZAPALOTE CHICO-OAX.179	1123.0	79.0	3.0	265.0	35.0	30.0
32	COMP.RES.THRIPS	1063.0	110.0	45.0	328.0	40.0	26.0
7	SINT. NICARAGUA 2	987.0	91.0	30.0	300.0	20.0	17.0
15	CALTINC	784.0	79.0	1.0	198.0	36.0	20.0
18	CIPB-4C1-COMP. I	739.0	136.0	55.0	266.0	40.0	29.0
28	MSU. 1-PC4	301.0	96.0	85.0	225.0	38.0	9.0
31	P.M.S. 263	264.0	109.0	8.0	297.0	20.0	13.0
1	FUKKO 0-43	181.0	63.0	3.0	96.0	43.0	18.0
37	JAITED 106	128.0	60.0	5.0	254.0	39.0	15.0
	MEANS	2238.96	93.64	12.24	256.62	32.84	33.42

CORRELATIONS

GRAIN	YIELD	1.000					
DAYS	FLOWER	-0.122	1.000				
NO.	TILLS.	-0.285	0.074	1.000			
PLANT	HGT.	-0.079	0.495	0.023	1.000		
EAR	HGT.	-0.119	-0.308	0.100	-0.304	1.000	
NO.	EARS	0.626	-0.217	-0.161	-0.094	0.440	1.000

TABLE 23
STATION NAME AND LOCATION. C.I.A.S.E.,COTAXTLA,VERACRUZ,MEXICO.
COOPERATOR. MAIZE AND SORGHUM DEPARTAMENT,INIA.
LATITUDE. 19DG.N. LONGITUDE. 97DG. W. ELEVATION. SEA LEVEL.
DATE OF PLANTING. 8 JULY,1970.

NO.	VARIETY	GRAIN YIELD	DAYS FLOWER	HELM. SPP.	PLANT HGT.	EAR HGT.	ROOT LODG.	NO. PLTS.	NO. EARS
3	PIONEER X304A	4167.0	57.0	3.0	253.0	146.0	3.5	35.0	37.0
43	COMP. L.(MEIC2	3674.0	54.0	2.5	225.0	121.0	3.5	40.0	38.0
29	JK 37	3153.0	53.0	2.0	270.0	165.0	1.0	43.0	36.0
33	LOCAL VARIETY.	3013.0	61.0	3.0	177.0	98.0	2.0	35.0	26.0
16	ETO BLANCO	2874.0	60.0	3.0	218.0	121.0	3.0	30.0	24.0
30	AGROCERES 501	2697.0	56.0	2.5	248.0	153.0	2.0	39.0	35.0
19	H-507	2613.0	62.0	2.5	253.0	165.0	2.5	42.0	27.0
39	KISAN	2483.0	55.0	3.0	248.0	144.0	3.5	37.0	30.0
5	TARAPAN	2372.0	58.0	2.5	253.0	147.0	3.5	39.0	30.0
35	PIONEER X306A	2362.0	55.0	3.5	204.0	107.0	3.5	39.0	31.0
37	WIJAY	2353.0	55.0	3.0	202.0	104.0	3.0	39.0	31.0
36	NICARILLO	2260.0	54.0	2.5	239.0	130.0	3.0	37.0	28.0
3	SINT. LIN. RES. ACH.	2223.0	58.0	3.0	225.0	131.0	3.0	37.0	35.0
17	CENTRALMEX	2176.0	58.0	3.0	241.0	150.0	3.5	39.0	28.0
12	TUXP. COMP. C3	2130.0	59.0	3.5	257.0	160.0	4.0	40.0	28.0
24	H. ABATI 2	2120.0	49.0	2.5	294.0	149.0	3.0	42.0	37.0
35	METRO	2037.0	57.0	3.5	249.0	154.0	3.0	40.0	33.0
22	(MIX.IXCOL.GPO.1)XETO BL.	2037.0	60.0	3.0	277.0	165.0	3.5	43.0	32.0
3	AGROCERES M-206	2018.0	61.0	2.5	244.0	145.0	2.0	34.0	31.0
7	P.B. 5	1990.0	56.0	3.0	231.0	143.0	2.5	40.0	30.0
40	H. BENJAMINO GUAZU	1981.0	47.0	3.5	175.0	94.0	2.5	41.0	36.0
7	SINT. NICARAGUA 2	1944.0	50.0	3.0	210.0	119.0	2.5	40.0	41.0
34	H-507	1860.0	62.0	2.5	166.0	92.0	1.5	40.0	24.0
42	ZAPALOTE CHICO-OAX.179	1646.0	43.0	3.5	183.0	101.0	2.0	40.0	36.0
20	(JSA X CARIB. COMP.)	1553.0	53.0	3.0	207.0	113.0	2.5	37.0	26.0
26	PUEY T-66	1544.0	59.0	3.0	273.0	162.0	2.5	42.0	27.0
13	CORTAZAR M-C4	1507.0	61.0	3.0	257.0	157.0	3.0	43.0	25.0
33	CIPB-3C1-COMP. I	1507.0	52.0	3.0	249.0	141.0	2.5	41.0	27.0
21	COMP. NORTEAMERICANO	1451.0	56.0	3.5	222.0	123.0	3.5	41.0	24.0
11	COMP. CARIBE C3	1414.0	60.0	3.0	239.0	145.0	3.0	44.0	27.0
13	SINT.13 LIN.AM.CRIST.	1354.0	57.0	3.5	225.0	127.0	3.5	40.0	25.0
41	COMP. B(C2)	1339.0	63.0	3.5	238.0	157.0	3.5	41.0	22.0
15	CALTINE	1311.0	48.0	4.0	166.0	74.0	3.0	41.0	34.0
2	H-511	1302.0	56.0	2.5	242.0	143.0	2.5	37.0	16.0
25	KU. NO. 6	1256.0	46.0	3.5	177.0	63.0	3.0	42.0	33.0
27	PUEY 3-15	1218.0	58.0	2.5	263.0	159.0	2.5	38.0	19.0
47	JAUNE DE BOUAKE	1209.0	60.0	3.0	270.0	171.0	2.5	41.0	30.0
46	FUKKU NO. 8	1144.0	47.0	3.0	165.0	71.0	3.0	39.0	29.0
32	COMP.RES.THRIPS	1070.0	58.0	3.5	279.0	169.0	2.5	39.0	23.0
14	H-512	1060.0	56.0	3.0	213.0	143.0	2.5	40.0	18.0
4	P.H.S. 264	921.0	60.0	2.5	260.0	171.0	2.5	39.0	29.0
10	ATHERTON DENT	828.0	58.0	3.0	227.0	139.0	3.5	42.0	17.0
37	UNITED 106	818.0	42.0	4.0	152.0	56.0	2.5	38.0	24.0
41	CIPA	800.0	52.0	3.5	201.0	103.0	4.0	31.0	15.0
33	HAJ EL-GAMAL	763.0	49.0	3.5	213.0	104.0	3.5	40.0	19.0
44	AMERICAN EARLY	744.0	56.0	3.0	218.0	123.0	3.5	39.0	18.0
1	FUNKS G-43	512.0	42.0	3.5	145.0	54.0	3.5	40.0	21.0
31	P.M.S. 263	512.0	65.0	3.0	280.0	195.0	4.5	40.0	12.0
29	HGJ. 8-PC4	502.0	65.0	3.5	256.0	158.0	4.5	34.0	3.0
23	H-3130	270.0	57.0	3.0	283.0	199.0	4.5	41.0	5.0
	MEANS	1721.92	55.84	3.05	229.36	132.26	2.98	39.22	26.64

CORRELATIONS

GRAIN	YIELD	1.000							
DAYS	FLOWER	0.094	1.000						
HELM.	SPP.	-0.410	-0.421	1.000					
PLANT	HGT.	0.097	0.658	-0.455	1.000				
EAR	HGT.	0.028	0.779	-0.434	0.945	1.000			
ROOT	LODG.	-0.305	0.171	0.393	0.172	0.149	1.000		
NO.	PLTS.	-0.150	-0.079	-0.026	0.161	0.153	-0.110	1.000	
NO.	EARS	0.688	-0.380	-0.159	-0.107	-0.222	-0.476	0.218	1.000

TABLE 24

STATION NAME AND LOCATION. HDA. TANGUCHE, VALLE DEL SANTA, PERU

COOPERATOR. NORTHRUP, KING AND CO.

LATITUDE. 8DG. 29'S. LONGITUDE. 78DG. 49'W. ELEVATION. 300M.

DATE OF PLANTING. 17 SEPTEMBER, 1970

PRECIPITATION DURING CYCLE OF TEST. NONE

AMOUNT OF IRRIGATION APPLIED. 10 CUBIC METERS

FERTILIZER USED. UREA. 150 KG. OF N./HA

GENERAL DESCRIPTION OF CLIMATIC CONDITIONS DURING TEST. NORMAL.

DISEASE DEVELOPMENT IN GENERAL. LIMITED

INSECT, WEED OR PEST PROBLEMS. SPODOPTERA FRUGIPERDA CONTROLLED WITH 3 APPLICATIONS OF INSECTICIDE.

VARIETY NO.	P E D I G R E E	HELM SPP. (1)	PUCC SPP. (1)	PLANT HGT	EAR HGT	ROOT LODG (1)	STALK LODG (1)	EAR ROTS (1)
1	FUNKS G-43	2.0	1.0	180	80	1.0	1.0	4.5
2	H-511	1.0	5.0	290	130	1.5	3.0	2.0
3	AGROCERES M-206	1.0	4.0	250	120	1.5	2.0	1.0
4	P.M.S. 264	1.0	4.5	290	180	2.0	2.0	1.5
5	PIONEER X304 A	1.0	5.0	250	120	1.0	1.0	2.0
6	HARAPAN	1.5	4.0	260	130	1.5	2.5	2.5
7	SINT. NICARAGUA 2	2.0	3.5	200	60	1.0	1.0	2.0
8	SINT. LIN. RES. ACH.	2.5	2.5	270	130	1.0	2.0	2.0
9	P.B. 5	1.0	4.0	260	135	1.0	1.0	1.5
10	ATHERTON DENT	1.0	5.0	300	170	3.0	2.0	2.0
11	COMP. CARIBE C3	1.0	4.5	260	135	2.0	3.0	1.5
12	TUXP. COMP. C3	2.0	4.0	320	170	2.0	1.5	1.5
13	CORTAZAR M-C4	1.0	5.0	300	130	3.5	2.5	2.5
14	H-512	1.0	4.0	280	120	3.0	3.0	2.5
15	LALTINE	1.0	2.5	160	50	-	-	-
16	ETO BLANCO	1.0	5.0	250	130	2.5	2.0	1.0
17	CENTRALMEX	1.0	4.5	330	200	3.0	3.0	1.5
18	SINT. 10 LIN.AM.CRIST	1.0	4.0	275	130	2.0	2.0	1.0
19	H-507	1.5	4.5	280	120	-	-	-
20	(USA X CARIB.COMP.)	1.0	4.0	250	120	1.0	1.0	3.5
21	COMP.NORTEAMERICANO	1.5	3.0	230	110	-	-	-
22	(MIX.1 X C.GPO.1) X ETO BL.	1.0	5.0	300	130	2.5	2.5	1.5
23	H-613 B	1.0	5.0	360	160	3.0	3.0	2.0
24	H. ABATI 2	1.0	2.5	160	60	1.0	3.5	2.0
25	KO. NO. 6	1.0	5.0	-	-	-	-	-
26	POEY T-66	1.0	4.0	270	120	1.5	2.5	1.0
27	POEY B-15	1.0	5.0	290	145	1.0	2.0	1.5
28	HGO. 8 - PC4	1.0	5.0	300	150	2.0	3.0	3.5
29	QK 37	1.0	5.0	280	100	1.0	1.5	1.0
30	AGROCERES 501	1.0	4.0	290	130	1.0	1.0	1.0
31	P.M.S. 263	1.5	4.5	340	190	2.0	3.0	2.5
32	COMP. RES. THRIPS	1.0	5.0	330	160	2.5	2.5	2.0
33	NAB EL GAMAL	2.0	1.5	200	80	3.0	3.0	3.0
34	H-507 E	1.0	4.5	200	110	1.5	1.5	2.0
35	METRO	2.0	3.0	300	160	1.0	1.5	1.5
36	NICARILLO	1.5	4.0	310	125	2.5	2.5	1.0
37	UNITED 106	2.5	1.5	190	80	1.0	1.0	4.5
38	CIPB-AC 1-COMP.1	1.5	4.5	220	100	3.0	3.0	2.0
39	KISAN	1.5	4.0	230	100	1.5	1.0	1.5
40	H.PERGAMINO GUAZU	1.0	5.0	185	65	1.0	2.0	3.0
41	CIPA	1.0	5.0	220	100	-	-	-
42	ZAPALOTE CHICO-OAX.179	1.0	1.5	180	60	1.0	1.0	4.0
43	COMP. L(ME) C2	2.0	4.5	260	100	3.0	2.0	2.0
44	AMERICAN EARLY	1.0	3.5	250	115	3.5	3.5	3.0
45	PIONEER X306A	2.5	3.0	240	100	1.0	2.0	2.0
46	FUKKO NO. 8	1.0	5.0	170	60	1.0	1.0	3.0
47	VIJAY	1.0	5.0	240	90	2.0	3.0	1.5
48	COMP. B (C2)	1.5	4.5	320	180	2.5	3.0	2.0
49	JAUNE DE BOUAKE	2.0	4.5	320	170	1.5	2.0	2.0
50	LOCAL VARIETY	1.0	4.0	280	120	1.0	3.0	2.0

(1) SCALE 1 (MINIMUM) TO 5 (MAXIMUM)

TABLE 25

VARIETY MEANS ACROSS LOCATIONS

29	QK 37	4989.258	23
5	PIONEER X304A	4769.172	23
50	LOCAL VARIETY.	4610.391	23
30	AGROCERES 501	4544.953	23
14	H-512	4235.000	23
2	H-511	4175.563	23
17	CENTRALMEX	4120.477	23
43	COMP. L.(ME)C2	4008.652	23
26	POEY T-66	4007.435	23
27	POEY B-15	3947.043	23
22	(MIX.1XCOL.GPO.1)XETO BL.	3942.522	23
19	H-507	3929.174	23
16	ETO BLANCO	3924.000	23
23	H-6138	3669.087	23
45	PIONEER X306A	3667.652	23
21	COMP. NORTEAMERICANO	3608.087	23
39	KISAN	3550.348	23
47	VIJAY	3538.739	23
36	NICARILLO	3499.696	23
8	SINT. LIN. RES. ACH.	3487.043	23
11	COMP. CARIBE C3	3472.522	23
4	P.M.S. 264	3438.826	23
20	(USA X CARIB. COMP.)	3429.478	23
48	COMP. B(C2)	3408.304	23
24	H. ABATI 2	3331.956	23
6	HARAPAN	3319.304	23
35	METRO	3287.261	23
9	P.B. 5	3276.348	23
3	AGROCERES M-206	3236.348	23
12	TUXP. COMP. C3	3155.043	23
18	SINT.10 LIN.AM.CRIST.	3136.000	23
13	CORTAZAR M-C4	3124.391	23
49	JAUNE DE BOUAKE	3122.869	23
34	H-507 E	3050.000	23
32	COMP.RES.THRIPS	2904.130	23
40	H. PERGAMINO GUAZU	2803.454	22
38	CIPB-AC1-COMP. I	2737.348	23
10	ATHERTON DENT	2712.391	23
31	P.M.S. 263	2394.304	23
25	KO. NO. 6	2380.782	23
46	FUKKO NO. 8	2297.417	24
7	SINT. NICARAGUA 2	2277.478	23
44	AMERICAN EARLY	2220.348	23
41	CIPA	2209.391	23
28	HGO. B-PC4	2024.696	23
33	NAB EL-GAMAL	1946.478	23
42	ZAPALOTE CHICO-OAX.179	1776.565	23
37	UNITED 106	1672.000	23
1	FUNKS G-43	1657.478	23
15	LALTINE	1534.130	23

TABLE 26

MEAN NUMBER OF TILLERS. FIRST "IMAN"

1970-71

VARIETY NO.	P E D I G R E E	USA	CHILE	KENYA	PERU	TANZANIA	ANGOLA	ANGOLA	ARGENTINA	UGANDA	MEAN
1	FUNKS G-43	3	0	5	1	0	0	0	1	0	1.1
2	H-511	20	0	4	4	0	1	1	3	0	3.7
3	AGROCERES M-206	7	0	6	10	0	0	2	5	0	3.3
4	P.M.S. 264	2	6	6	5	0	0	6	3	1	3.2
5	PIONEER X304A	4	0	2	4	0	0	3	3	4	2.2
6	HARAPAN	3	0	3	4	0	0	2	1	1	1.6
7	SINT.NICARAGUA 2	30	0	3	2	0	0	0	2	0	4.1
8	SINT.LIN.RES.ACH	4	1	4	3	0	0	2	4	0	2.0
9	P.B.5	3	3	4	2	0	0	1	8	0	2.3
10	ATHERTON DENT	10	2	7	3	0	0	1	4	1	3.1
11	COMP.CARIBE C3	1	0	4	3	0	0	3	2	3	1.8
12	TUXP.COMP.C3	2	1	3	2	0	0	2	2	1	1.4
13	CORTAZAR M-C4	3	1	5	4	0	0	3	3	0	2.1
14	H-512	9	0	7	3	0	0	2	8	1	3.3
15	LALTINE	1	0	3	3	0	0	1	4	1	1.4
16	ETO BLANCO	0	0	2	2	0	0	3	3	2	1.3
17	CENTRALMEX	37	0	2	3	0	0	0	2	0	4.9
18	SINT.10 LIN.AM. CRIST.	5	0	3	3	0	1	1	2	1	1.8
19	H-507	0	0	4	6	0	0	1	0	5	1.8
20	(USA X CARIB CO)	7	0	9	5	0	0	1	5	0	3.0
21	COMP.NORTEAMERIC	8	1	7	7	0	0	1	9	0	3.7
22	(MIX.1 X C.GPO.1) X ETO BL.	42	0	5	4	0	0	2	1	0	6.0
23	H-613B	6	1	4	6	0	0	2	4	0	2.3
24	H. ABATI 2	19	0	11	4	0	0	1	7	0	4.7
25	KO. NO.6	10	0	19	8	0	0	12	8	0	6.3
26	POEY T-66	2	0	4	3	0	0	1	3	0	1.4
27	POEY B-15	11	2	3	4	0	0	2	2	0	2.7
28	HGO.8 -PC4	85	0	34	37	0	0	11	22	0	21.0
29	QK 37	10	1	9	4	0	0	5	5	0	3.8
30	AGROCERES 501	6	0	1	1	0	0	0	1	0	1.0
31	P.M.S. 263	8	0	2	3	0	0	1	4	0	2.0
32	COMP. RES.THRIPS	45	0	18	19	0	0	11	11	0	11.6
33	NAB EL-GAMAL	8	0	4	3	0	0	1	2	0	2.0
34	H-507 E	10	0	0	2	0	0	0	1	0	1.4
35	METRO	11	1	4	3	0	0	1	4	0	2.7
36	NICARILLO	4	0	4	2	0	0	1	1	0	1.3
37	UNITED 106	5	0	8	1	0	0	1	2	0	1.9
38	CIPB-AC1-COMP.1	55	0	34	33	0	0	12	27	0	17.9
39	KISAN	2	1	3	4	0	0	2	5	0	1.9
40	H.PERGAMINO G.	18	0	12	3	0	1	2	14	0	5.6
41	CIPA	45	0	30	26	0	0	5	26	0	14.7
42	ZAPALOTE CHICO-OAX. 179	3	0	1	2	0	0	0	1	0	0.8
43	COMP. L(ME)C2	1	1	2	2	0	0	1	3	0	1.1
44	AMERICAN EARLY	2	2	3	1	0	0	1	3	0	1.3
45	PIONEER X306A	4	2	4	4	0	0	1	3	0	2.0
46	FUKKO NO.8	9	0	1	1	0	0	1	4	0	1.8
47	VIJAY	5	2	5	3	0	0	1	3	0	2.1
48	COMP. B(C2)	18	4	5	1	0	0	0	10	0	4.2
49	JAUNE DE BOUAKE	3	2	2	3	0	0	1	3	0	1.6
50	LOCAL VARIETY	6	3	9	3	0	0	2	9	0	3.6

TABLE 27

MEAN NUMBER OF DAYS TO FLOWER. AMERICA TROPICAL

FIRST"IMAN" 1970-71

VARIETY NO.	P E D I G R E E	NICARA GUA	COLOM BIA	COLOM BIA	MEXICO	MEXICO	BRASIL	BRASIL	PERU	MEAN
1	FUNKS G-43	44	46	58	38	42	44	48	64	48
2	H-511	57	68	74	55	56	68	75	83	67
3	AGROCERES M-206	54	72	85	59	61	73	80	94	72
4	P.M.S. 364	60	72	85	58	60	73	83	91	73
5	PIONEER X304A	59	70	80	57	57	68	78	86	69
6	HARAPAN	59	70	83	56	58	69	75	91	70
7	SINT.NICARAGUA 2	53	64	67	48	50	62	55	74	59
8	SINT.LIN.RES.ACH.	57	64	80	55	58	68	75	90	68
9	P.B. 5	58	68	81	55	56	68	75	88	69
10	ATHERTON DENT	61	71	83	60	58	71	75	90	71
11	COMP.CARIBE C3	59	71	85	57	60	72	75	93	72
12	TUXP.COMP.C3	61	72	86	58	59	75	78	94	73
13	CORTAZAR M-C4	60	70	85	61	61	74	83	96	74
14	H-512	59	67	75	54	56	67	75	90	68
15	LALTINE	49	58	65	46	48	61	52	70	56
16	ETO BLANCO	61	72	86	60	60	73	78	92	73
17	CENTRALMEX	60	69	86	57	58	69	75	96	71
18	SINT.10 LIN.AM.CRIST	57	69	78	55	57	70	75	88	69
19	H-507	67	74	91	59	62	75	83	99	76
20	(USA X CARIB.COMP)	55	67	74	52	53	63	60	80	63
21	COMP.NORTEAMERICANO	59	63	76	54	56	66	69	81	66
22	(MIX.1 X C.GPO.1) X ETO BL.	63	73	87	59	60	74	78	95	74
23	H-613B	-	73	88	63	67	80	85	98	79
24	H.ABATI 2	52	56	64	49	49	62	55	73	58
25	KO.NO.6	49	56	62	44	46	54	55	69	54
26	POEY T-66	62	71	85	59	59	72	75	96	72
27	POEY B-15	60	67	80	58	58	73	75	88	70
28	HGO.8-PC4	-	69	76	63	65	-	-	87	72
29	QK 37	62	70	81	56	58	70	75	88	70
30	AGROCERES 501	58	65	80	54	56	66	75	88	68
31	P.M.S. 263	-	77	85	62	65	80	85	96	79
32	COMP.RES.THRIPS	60	68	75	57	58	75	80	88	70
33	NAB EL GAMAL	50	59	65	49	49	59	55	76	58
34	H-507 E	66	73	87	60	62	75	83	98	76
35	METRO	58	69	80	55	57	68	69	85	68
36	NICARILLO	58	66	81	56	58	72	75	92	70
37	UNITED 106	44	47	59	38	42	47	48	57	48
38	CIPB-AC1-COMP.1	52	62	67	52	52	69	69	76	62
39	KISAN	56	65	79	54	55	71	75	86	68
40	H.PERGAMINO GUAZU	50	55	66	46	47	59	55	72	56
41	CIPA	50	57	61	50	52	66	66	71	59
42	ZAPALOTE CHICO-OAX.179	48	50	60	42	43	52	48	64	51
43	COMP.L(ME)C2	56	65	77	53	54	66	69	83	65
44	AMERICAN EARLY	58	70	86	57	56	72	69	84	69
45	PIONEER X306A	57	68	79	54	55	68	69	87	67
46	FUKKO NO.8	49	53	61	43	47	51	48	70	53
47	VIJAY	57	66	75	54	55	67	69	85	66
48	COMP.B(C2)	60	70	86	56	60	73	75	93	72
49	JAUNE DE BOUAKE	59	71	87	59	60	72	75	91	72
50	LOCAL VARIETY	58	66	83	59	61	68	78	93	71

TABLE 28

MEAN NUMBER OF DAYS TO FLOWER. ASIA TROPICAL

FIRST "IMAN" 1970-71

VARIETY NO.	P E D I G R E E	THAILAND	CEYLON	MEAN
1	FUNKS G-43	44	42	43
2	H-511	64	58	61
3	AGROCERES M-206	63	63	63
4	P.M.S. 264	65	63	64
5	PIONEER X304A	64	62	63
6	HARAPAN	64	63	64
7	SINT. NICARAGUA 2	53	51	52
8	SINT.LIN.RES.ACH.	59	58	59
9	P.B.5	62	62	62
10	ATHERTON DENT	63	62	63
11	COMP.CARIBE C3	62	66	64
12	TUXP. COMP.C3	65	64	65
13	CORTAZAR M-C4	65	59	62
14	H-512	65	50	58
15	LALTINE	47	54	51
16	ETO BLANCO	65	62	64
17	CENTRALMEX	60	60	60
18	SINT.10 LIN. AM. CRIST.	62	63	63
19	H-507	66	60	63
20	(USA X CARIB.COMP.)	56	55	56
21	COMP. NORTEAMERICANO	58	60	59
22	(MIX.1 X COL.GPO.1) X ETO BL	65	65	65
23	H-613B	66	66	66
24	H.ABATI 2	46	49	48
25	KO.NO.6	47	47	47
26	POEY T-66	64	61	63
27	POEY B-15	65	62	64
28	HGO. 8 - PC4	66	71	69
29	QK 37	65	60	63
30	AGROCERES 501	58	60	59
31	P.M.S. 263	66	71	69
32	COMP.RES.THRIPS	65	63	64
33	NAB EL-GAMAL	48	49	49
34	H-507 E	66	66	66
35	METRO	60	56	58
36	NICARILLO	62	62	62
37	UNITED 106	41	40	41
38	CIPB-AC1 - COMP.1	56	51	54
39	KISAN	62	59	61
40	H.PERGAMINO GUAZU	46	48	47
41	CIPA	66	50	58
42	ZAPALOTE CHICO-OAX 179	42	43	43
43	COMP.L(ME)C2	54	55	55
44	AMERICAN EARLY	62	59	61
45	PIONEER X306A	58	59	59
46	FUKKO NO.8	44	46	45
47	VIJAY	55	56	56
48	COMP.B(C2)	66	62	64
49	JAUNE DE BOUAKE	64	63	64
50	LOCAL VARIETY	60	60	60

TABLE 29

MEAN NUMBER OF DAYS TO FLOWER. AFRICA TROPICAL

FIRST "IMAN" 1970-71

VARIETY NO.	P E D I G R E E	ANGOLA	TANZANIA	UGANDA	COTE D'IVOIRE	ETHIOPIA	KENYA	MEAN
1	FUNKS G-43	60	59	44	52	57	64	56
2	H-511	82	67	58	63	81	90	74
3	AGROCERES M-206	100	82	73	68	91	106	87
4	P.M.S 264	97	83	68	69	91	109	86
5	PIONEER X304A	94	80	68	66	91	106	84
6	HARAPAN	98	84	69	67	91	105	86
7	SINT.NICARAGUA 2	84	59	46	60	74	85	68
8	SINT. LIN.RES.ACH.	95	71	62	64	91	106	82
9	P.B.5	93	68	62	68	91	108	82
10	ATHERTON DENT	95	80	63	67	95	106	84
11	COMP.CARIBE C3	93	86	66	67	99	106	86
12	TUXP. COMP. C3	99	85	67	70	99	110	88
13	CORTAZAR M-C4	100	87	61	69	99	106	87
14	H-512	86	73	58	68	91	95	79
15	LALTINE	75	72	46	58	69	76	66
16	ETO BLANCO	98	89	67	69	99	106	88
17	CENTRALMEX	96	75	71	64	95	107	85
18	SINT.10 LIN.AM.CR.	93	82	67	67	91	105	84
19	H-507	104	87	74	69	99	110	91
20	(USAXCARIB.COMP.)	84	63	53	60	84	94	73
21	COMP.NORTEAMERICANO	85	69	56	63	84	101	76
22	(MIX.1XC.GPO.1) X ETO BL.	101	89	72	69	99	110	90
23	H-613 B	101	83	67	67	99	110	88
24	H.ABATI 2	73	62	48	55	69	80	65
25	KO.NO. 6	74	58	46	50	65	73	61
26	POEY T-66	98	81	72	68	96	108	87
27	POEY B-15	97	75	63	69	91	97	82
28	HGO.8 - PC4	88	73	58	71	78	90	76
29	QK 37	97	77	68	68	95	102	85
30	AGROCERES 501	97	78	68	67	86	99	83
31	P.M.S. 263	102	80	74	69	99	107	89
32	COMP.RES.THRIPS	91	74	62	68	84	99	80
33	NAB EL-GAMAL	76	59	45	53	74	84	65
34	H-507 E	107	88	74	68	102	110	92
35	METRO	95	73	66	64	88	102	81
36	NICARILLO	98	83	72	66	88	101	85
37	UNITED 106	59	58	44	42	57	63	54
38	CIPB-AC1-COMP.1	75	59	48	60	70	81	66
39	KISAN	96	77	56	64	88	102	81
40	H.PERGAMINO GUAZU	74	58	47	47	69	77	62
41	CIPA	70	58	44	53	65	73	61
42	ZAPALOTE CHICO-OAX 179	67	58	44	42	62	70	57
43	COMP. L(ME)C2	89	71	65	61	88	97	79
44	AMERICAN EARLY	91	71	58	68	86	108	80
45	PIONEER X306A	97	73	66	63	88	99	81
46	FUKKO NO.8	70	55	48	42	62	72	58
47	VIJAY	89	72	59	67	81	97	78
48	COMP. B(C2)	102	83	66	67	97	110	88
49	JAUNE DE BOUAKE	99	83	65	68	93	109	86
50	LOCAL VARIETY	90	61	53	68	95	110	80

TABLE 30

MEAN NUMBER OF DAYS TO FLOWER. ASIA TEMPERATE

FIRST "IMAN" 1970-71

VARIETY NO.	P E D I G R E E	INDIA PATNAGAR	PAKISTAN NOWSHERA	MEAN
1	FUNKS G-43	46	58	52
2	H-511	64	80	72
3	AGROCERES M-206	65	86	76
4	P.M.S. 264	65	85	75
5	PIONEER X304A	64	81	73
6	HARAPAN	64	85	75
7	SINT. NICARAGUA 2	65	73	69
8	SINT.LIN.RES.ACH.	60	81	71
9	P.B.5	62	81	72
10	ATHERTON DENT	65	83	74
11	COMP. CARIBE C3	63	86	75
12	TUXP. COMP. C3	67	91	79
13	CORTAZAR M-C4	66	88	77
14	H-512	62	79	71
15	LALTINE	52	66	59
16	ETO BLANCO	67	83	75
17	CENTRALMEX	65	83	74
18	SINT.10 LIN. AM. CRIST	62	81	72
19	H-507	69	90	80
20	(USA X CARIB. COMP.)	58	72	65
21	COMP. NORTEAMERICANO	61	78	70
22	(MIX.1 X COL.GPO.1)XETO BL.	66	85	76
23	H-613B	71	93	82
24	H.ABATI 2	53	69	61
25	KO. NO. 6	51	66	59
26	POEY T-66	64	82	73
27	POEY B-15	65	85	75
28	HGO.8 - PC4	-	93	-
29	QK 37	63	80	72
30	AGROCERES 501	65	80	73
31	P.M.S. 263	71	90	81
32	COMP. RES. THRIPS	67	80	74
33	NAB EL-GAMAL	54	68	61
34	H-507 E	66	90	78
35	METRO	65	80	73
36	NICARILLO	64	85	75
37	UNITED 106	49	59	54
38	CIPB-AC1-COMP.1	67	80	74
39	KISAN	60	81	71
40	H. PERGAMINO GUAZU	54	66	60
41	CIPA	67	78	73
42	ZAPALOTE CHICO-OAX 179	49	64	57
43	COMP. L(ME)C2	60	78	69
44	AMERICAN EARLY	65	82	74
45	PIONEER X306A	61	80	71
46	FUKKO NO.8	52	65	59
47	VIJAY	61	78	70
48	COMP. B(C2)	65	89	77
49	JAUNE DE BOUAKE	66	85	76
50	LOCAL VARIETY	54	66	60

TABLE 31

MEAN NUMBER OF DAYS TO FLOWER. AMERICA TEMPERATE

FIRST "IMAN" 1970 - 71

VARIETY NO.	P E D I G R E E	U.S.A.	U.S.A.	CANADA	ARGEN TINA	CHILE	MEAN
1	FUNKS G-43	94	63	87	67	75	77
2	H-511	81	89	105	101	105	96
3	AGROCERES M-206	91	101	133	117	116	112
4	P.M.S. 264	89	106	127	126	123	114
5	PIONEER X 304 A	85	89	127	110	117	106
6	HARAPAN	82	103	122	114	116	107
7	SINT. NICARAGUA 2	82	91	110	96	121	100
8	SINT.LIN.RES.ACH.	93	98	121	113	115	108
9	P.B. 5	83	91	119	113	116	104
10	ATHERTON DENT	89	92	114	103	113	102
11	COMP. CARIBE C3	85	106	127	112	113	109
12	TUXP. COMP. C3	85	109	138	123	110	113
13	CORTAZAR M-C4	93	109	127	120	109	112
14	H-512	86	87	111	97	118	100
15	LALTINE	-	79	96	83	101	-
16	ETO BLANCO	80	108	125	114	113	108
17	CENTRALMEX	90	106	127	117	111	110
18	SIN.10 LIN.AM.CRIST.	94	98	121	104	112	106
19	H-507	84	96	120	132	123	111
20	(USA X CARIB.COMP.)	88	88	105	97	93	94
21	COMP.NORTEAMERICANO	102	88	106	98	104	100
22	(MIX.1 X C.GPO.1)X ETO BL.	101	101	127	118	119	113
23	H-613 B	93	112	-	126	123	-
24	H. ABATI 2	-	77	95	84	87	-
25	KO. NO. 6	-	77	89	105	79	-
26	POEY T-66	91	103	128	113	117	110
27	POEY B-15	80	96	126	115	120	107
28	HGO.8 - PC4	82	96	117	113	115	105
29	QK 37	91	100	123	103	115	106
30	AGROCERES 501	88	103	127	110	112	108
31	P.M.S. 263	83	109	142	133	128	119
32	COMP.RES. THRIPS	87	110	121	116	115	110
33	NAB EL-GAMAL	97	77	96	89	95	91
34	H-507 E	98	108	139	120	128	119
35	METRO	98	91	115	105	114	105
36	NICARILLO	87	103	120	108	116	107
37	UNITED 106	85	60	93	65	73	75
38	CIPB - AC1 - COMP.1	91	106	114	122	114	109
39	KISAN	85	93	118	102	115	103
40	H.PERGAMINO GUAZU	88	77	96	82	87	86
41	CIPA	88	77	96	89	85	87
42	ZAPALOTE CHICO-OAX179	93	79	94	71	81	84
43	COMP.L (ME)C2	84	96	120	106	114	104
44	AMERICAN EARLY	96	83	105	100	105	98
45	PIONEER X 306 A	89	100	124	109	116	108
46	FUKKO NO. 8	85	79	94	66	76	80
47	VIJAY	88	86	108	103	116	100
48	COMP. B (C2)	96	103	129	122	120	114
49	JAUNE DE BOUAKE	87	106	126	121	119	112
50	LOCAL VARIETY	81	77	78	81	88	81

TABLE 32

REACTION TO HELMINTHOSPORIUM SPP. AMERICA TROPICAL

FIRST "IMAN" 1970 - 71

VARIETY NO.	P E D I G R E E	PERU	MEXI CO	BRASIL	NICAR AGUA	COLOM BIA	COLOM BIA	PERU	MEXI CO	- X
1	FUNKS G-43	2.0	3.0	5.0	4.5	2.0	4.5	4.0	3.5	3.6
2	H-511	1.0	2.5	2.0	3.5	2.0	2.5	1.5	2.5	2.2
3	AGROCERES M-206	1.0	2.5	4.0	3.5	3.0	3.0	1.5	2.5	2.6
4	P.M.S. 264	1.0	2.0	2.5	3.0	3.0	3.0	1.0	2.5	2.3
5	PIONEER X 304 A	1.0	2.0	2.0	2.0	1.0	3.5	1.0	3.0	1.9
6	HARAPAN	1.5	2.0	2.5	3.0	2.5	4.0	1.0	2.5	2.4
7	SINT. NICARAGUA 2	2.0	2.0	4.0	3.5	1.0	4.5	3.0	3.0	2.9
8	SINT.LIN.RES.ACH.	2.5	2.0	2.0	2.5	2.5	3.5	2.0	3.0	2.5
9	P.B.5	1.0	2.0	2.5	3.0	4.5	3.5	1.5	3.0	2.6
10	ATHERTON DENT	1.0	2.5	2.5	2.5	4.5	3.5	1.0	2.5	2.5
11	COMP.CARIBE C3	1.0	2.0	2.0	3.0	2.0	3.5	1.0	3.0	2.2
12	TUXP. COMP. C3	2.0	2.0	3.0	2.5	2.0	3.5	2.0	3.5	2.6
13	CORTAZAR M-C4	1.0	2.0	2.5	4.0	1.5	4.0	1.5	3.0	2.4
14	H-512	1.0	2.0	1.5	3.5	3.0	3.0	1.0	3.0	2.3
15	LALTINE	1.0	2.5	5.0	4.0	1.0	5.0	3.0	4.0	3.2
16	ETO BLANCO	1.0	2.0	2.0	2.0	3.5	2.5	1.0	3.0	2.1
17	CENTRALMEX	1.0	2.0	2.0	3.0	3.0	3.5	1.5	3.0	2.4
18	SIN.10 LIN.AM.CRIST.	1.0	2.0	2.0	2.5	2.0	3.5	1.0	3.5	2.2
19	H-507	1.5	2.0	3.5	2.5	2.0	4.0	1.0	2.5	2.4
20	(USA X CARIB.COMP)	1.0	2.0	3.5	4.5	1.0	4.0	2.0	2.8	2.6
21	COMP.NORTEAMERICANO	1.5	2.0	2.0	3.5	3.0	4.0	1.5	3.5	2.6
22	(MIX.1XC.GPO.1) X ETO BL.	1.0	2.0	2.5	2.0	2.5	3.0	1.0	2.5	2.1
23	H-613 B	1.0	2.0	1.0	3.5	2.5	2.0	0.0	3.0	1.9
24	H.ABATI 2	1.0	2.0	5.0	3.0	1.0	4.5	1.5	2.5	2.6
25	KO.NO. 6	1.0	3.0	5.0	4.5	1.0	4.5	1.5	3.5	3.0
26	POEY T-66	1.0	2.0	2.0	1.5	3.5	4.5	1.5	2.5	2.3
27	POEY B-15	1.0	2.0	2.0	3.0	2.5	4.5	1.0	2.5	2.3
28	HGO. 8 - PC4	1.0	3.0	3.5	5.0	1.0	4.5	2.0	3.5	2.9
29	QK 37	1.0	2.5	2.5	4.5	2.0	4.5	1.0	2.0	2.5
30	AGROCERES 501	1.0	2.5	1.5	2.5	1.5	4.5	1.5	2.5	2.2
31	P.M.S. 263	1.5	2.5	2.5	3.5	1.5	4.0	1.5	3.0	2.5
32	COMP.RES. THRIPS	1.0	3.0	3.0	4.0	2.5	4.5	1.0	3.5	2.8
33	NAB EL-GAMAL	2.0	3.5	5.0	4.5	1.0	4.5	3.0	3.5	3.4
34	H-507 E	1.0	2.5	2.0	3.0	1.0	4.0	1.0	2.5	2.1
35	METRO	2.0	2.0	2.5	1.5	2.5	4.0	1.0	3.5	2.4
36	NICARILLO	1.5	2.0	2.5	1.5	2.5	4.0	1.0	2.5	2.2
37	UNITED 106	2.5	3.0	4.5	5.0	1.0	4.5	-	3.5	3.4
38	CIPB-AC1-COMP.1	1.5	2.5	3.0	3.5	1.0	4.5	2.0	3.0	2.6
39	KISAN	1.5	2.0	2.0	3.0	2.5	4.5	1.0	3.0	2.4
40	H.PERGAMINO GUAZU	1.0	2.5	4.5	2.5	1.0	4.5	2.0	3.5	2.7
41	CIPA	1.0	3.0	3.5	3.0	1.0	4.5	2.0	3.5	2.7
42	ZAPALOTE CHICO - OAX 179	1.0	2.5	3.5	3.0	1.0	4.5	-	3.5	2.7
43	COMP. L(ME) C2	2.0	2.0	2.0	2.5	2.5	4.5	2.0	2.5	2.5
44	AMERICAN EARLY	1.0	3.0	4.5	3.5	1.0	4.5	3.0	3.0	2.9
45	PIONEER X 306 A	2.5	2.0	2.5	2.0	2.0	4.5	1.0	3.5	2.5
46	FUKKO NO. 8	1.0	2.5	5.0	3.0	1.0	4.0	2.0	3.0	2.7
47	VIJAY	1.0	2.5	4.0	3.0	1.0	4.0	1.5	3.0	2.5
48	COMP. B(C2)	1.5	2.0	2.0	3.0	2.5	4.5	0.5	3.5	2.4
49	JAUNE DE BOUAKE	2.0	2.0	2.5	2.5	2.5	4.0	1.5	3.0	2.5
50	LOCAL VARIETY	1.0	2.5	2.0	2.0	1.5	3.5	1.5	3.0	2.1

TABLE 33

REACTION TO HELMINTHOSPORIUM SPP. AFRICA TROPICAL

FIRST "IMAN" 1970 - 71

VARIETY NO.	P E D I G R E E	UGANDA	ANGOLA	ANGOLA	TANZA-NIA	ETHIO-PIA	KENYA	$\bar{X}$
1	FUNKS G-43	5.0	4.0	3.5	0.5	2.0	3.0	3.0
2	H-511	1.0	1.5	1.0	1.0	0.0	1.0	0.9
3	AGROCERES M-206	1.0	1.0	2.0	1.5	1.0	2.0	1.4
4	P.M.S. 264	1.0	2.5	3.5	1.0	2.0	3.0	2.2
5	PIONEER X 304 A	1.0	2.5	4.0	1.5	1.0	3.0	2.2
6	HARAPAN	1.0	3.0	4.0	1.5	2.0	3.5	2.5
7	SINT. NICARAGUA 2	2.0	3.0	4.0	0.0	2.0	3.0	2.3
8	SINT.LIN. RES. ACH.	1.0	2.5	4.5	1.5	2.0	4.0	2.6
9	P.B. 5	1.0	2.5	4.0	1.5	2.0	3.5	2.4
10	ATHERTON DENT	1.0	1.5	2.5	1.5	1.0	2.0	1.6
11	COMP.CARIBE C 3	1.0	2.5	3.5	2.0	2.0	3.0	2.3
12	TUXP. COMP. C 3	2.0	2.5	3.0	1.0	1.5	2.5	2.1
13	CORTAZAR M-C4	1.0	2.5	2.0	2.0	1.5	2.5	1.9
14	H-512	1.0	1.5	1.0	1.0	0.5	1.0	1.0
15	LALTINE	4.0	3.5	4.0	0.0	3.5	3.0	3.0
16	ETO BLANCO	1.0	2.0	2.0	2.0	1.0	2.0	1.7
17	CENTRALMEX	1.0	2.0	3.0	2.0	1.0	2.0	1.8
18	SIN.10 LIN. AM.CRIST.	1.0	2.0	2.0	0.5	1.5	2.0	1.5
19	H-507	2.0	2.0	2.5	1.5	2.5	3.0	2.3
20	(USA X CARIB.COMP.)	1.0	3.0	3.0	1.5	1.5	2.5	2.1
21	COMP.NORTEAMERICANO	1.0	2.5	3.0	2.0	2.0	2.5	2.2
22	(MIX. 1 X COL.GPO. 1) X ETO BL.	1.0	2.0	1.5	2.0	2.0	2.5	1.8
23	H-613 B	1.0	1.0	1.0	0.5	1.0	0.5	0.8
24	H.ABATI 2	2.0	3.5	3.0	1.0	2.5	1.5	2.3
25	KO. NO. 6	1.0	2.5	2.5	0.5	1.0	1.5	1.5
26	POEY T-66	1.0	1.5	3.5	1.0	1.5	3.0	1.9
27	POEY B-15	1.0	2.0	1.5	1.0	1.0	2.0	1.4
28	HGO. 8 - PC4	2.0	2.5	3.0	1.0	0.5	2.5	1.9
29	QK 37	1.0	2.0	2.5	1.0	1.0	2.0	1.6
30	AGROCERES 501	1.0	1.5	1.5	1.5	0.0	1.5	1.2
31	P.M.S. 263	1.0	2.5	2.0	1.0	1.5	3.0	1.8
32	COMP. RES. THRIPS	1.0	2.0	3.0	1.0	1.5	2.5	1.8
33	NAB EL-GAMAL	4.0	4.0	4.5	1.0	2.5	3.5	3.3
34	H-507 E	2.0	2.5	3.5	2.0	1.5	2.0	2.3
35	METRO	2.0	2.0	3.5	1.5	2.0	2.5	2.3
36	NICARILLO	2.0	2.0	3.0	0.5	1.5	3.0	2.0
37	UNITED 106	5.0	4.5	3.5	0.0	1.0	2.5	2.8
38	CIPB-AC1-COMP.1	1.0	2.5	2.0	0.5	1.0	1.5	1.4
39	KISAN	1.0	2.0	3.0	2.0	2.0	3.5	2.3
40	H.PERGAMINO GUAZU	1.0	3.5	3.0	1.0	2.0	1.5	2.0
41	CIPA	1.0	2.5	1.5	0.0	1.5	2.0	1.4
42	ZAPALOTE CHICO-OAX179	1.0	3.5	4.0	0.5	2.0	2.5	2.3
43	COMP. L(ME) C2	2.0	3.0	3.5	1.0	1.5	3.0	2.3
44	AMERICAN EARLY	4.0	4.0	4.0	1.5	3.5	4.0	3.5
45	PIONEER X 306 A	1.0	2.0	4.0	2.5	2.0	2.5	2.3
46	FUKKO NO. 8	2.0	3.5	2.5	1.0	2.5	2.0	2.3
47	VIJAY	3.0	3.0	3.0	1.0	1.5	3.0	2.4
48	COMP. B(C2)	1.0	2.5	3.0	1.0	1.5	2.0	1.8
49	JAUNE DE BOUAKE	1.0	2.0	2.5	1.5	2.5	2.0	1.9
50	LOCAL VARIETY	1.0	2.0	2.0	1.0	1.0	1.0	1.3

TABLE 34

REACTION TO HELMINTHOSPORIUM AND PUCCINIA TROPICAL ASIA

FIRST "IMAN" 1970 - 71

VARIETY NO.	P E D I G R E E	T H A I L A N D H.TURCICUM	H. MAYDIS	PUCCINIA SPP.
1	FUNKS G-43	2.5	4.0	3.5
2	H-511	2.0	3.0	3.5
3	AGROCERES M-206	1.5	2.5	3.0
4	P.M.S. 264	2.0	2.5	2.5
5	PIONEER X 304 A	1.5	1.5	2.0
6	HARAPAN	1.5	2.0	2.0
7	SINT. NICARAGUA 2	2.5	3.0	2.5
8	SINT. LIN RES. ACH.	2.5	2.0	2.0
9	P.B. 5	2.5	2.5	2.0
10	AHERTON DENT	2.5	2.5	3.0
11	COMP. CARIBE C3	2.0	2.5	2.0
12	TUXP. COMP. C3	2.5	2.5	3.0
13	CORTAZAR M-C4	2.0	3.0	3.0
14	H-512	2.0	4.0	4.0
15	LALTINE	3.0	3.5	3.0
16	ETO BLANCO	2.0	2.5	2.5
17	CENTRALMEX	1.5	2.0	2.0
18	SIN. 10 LIN. AM. CRIST.	2.0	2.5	2.5
19	H-507	2.0	2.5	2.0
20	(USA X CARIB. COMP.)	2.5	3.0	3.5
21	COMP. NORTEAMERICANO	2.5	3.5	3.5
22	(MIX. 1 X COL. GPO. 1) X ETO BL.	2.0	2.5	2.0
23	H-613 B	2.0	3.0	3.0
24	H. ABATI 2	2.0	3.0	4.0
25	KO. NO. 6	3.0	3.0	2.5
26	POEY T-66	2.0	2.0	2.0
27	POEY B-15	2.0	3.0	3.5
28	HGO.8-PC4	2.0	4.0	4.0
29	QK 37	1.5	3.5	2.0
30	AGROCERES 501	2.0	2.5	3.5
31	P.M.S. 263	2.5	4.0	4.0
32	COMP. RES. THRIPS	2.5	4.0	4.0
33	NAB EL-GAMAL	3.0	3.5	3.0
34	H-507 E	2.5	3.5	2.0
35	METRO	2.5	2.0	2.0
36	NICARILLO	2.0	3.0	3.0
37	UNITED 106	3.0	3.5	3.0
38	CIPB - AC 1 - COMP. 1	2.0	3.5	4.0
39	KISAN	2.0	3.5	3.0
40	H. PERGAMINO GUAZU	2.5	3.0	2.0
41	CIPA	2.0	4.0	4.0
42	ZAPALOTE CHICO - OAX 179	1.5	3.5	1.5
43	COMP. L (ME) C2	2.0	2.5	2.5
44	AMERICAN EARLY	3.0	3.0	4.0
45	PIONEER X 306 A	2.0	2.5	2.5
46	FUKKO NO. 8	2.5	4.0	2.5
47	VIJAY	2.5	4.0	4.0
48	COMP. B(C2)	2.5	2.5	3.0
49	JAUNE DE BOUAKE	2.0	2.5	3.0
50	LOCAL VARIETY	2.0	2.5	3.0

TABLE 35

REACTION TO HELMINTHOSPORIUM TURCICUM AND PUCCINIA SORGHI

AMERICA TEMPERATE. FIRST "IMAN" 1970 - 71

VARIETY NO.	PEDIGREE	ARGENTINA H. TURCICUM	ARGENTINA P. SORGHI
1	FUNKS G-43	0.0	0.0
2	H-511	0.0	1.0
3	AGROCERES M-206	0.0	1.5
4	P.M.S. 264	1.5	3.5
5	PIONEER X 304 A	1.5	2.5
6	HARAPAN	1.5	2.5
7	SINT. NICARAGUA 2	0.5	1.5
8	SINT. LIN. RES. ACH.	0.5	1.0
9	P.B 5	0.5	2.0
10	ATHERTON DENT	1.5	2.0
11	COMP. CARIBE C3	0.5	1.5
12	TUXP. COMP. C3	0.5	1.0
13	CORTAZAR M-C4	0.0	1.0
14	H-512	0.5	1.5
15	LALTINE	1.0	0.0
16	ETO BLANCO	0.5	1.5
17	CENTRALMEX	0.0	1.0
18	SIN. 10 LIN. AM. CRIST.	1.0	1.0
19	H-507	0.0	2.0
20	(USA X CARIB.COMP.)	0.0	1.0
21	COMP. NORTEAMERICANO	0.5	2.0
22	(MIX. 1 X COL. GPO. 1) X ETO BL.	0.0	1.0
23	H-613 B	0.0	1.0
24	H. ABATI 2	0.5	1.0
25	KO. NO. 6	0.0	1.0
26	POEY T-66	0.0	1.0
27	POEY B-15	0.5	1.0
28	HGO. 8 - PC 4	0.0	1.0
29	QK 37	0.0	1.0
30	AGROCERES 501	0.0	0.0
31	P.M.S. 263	0.0	2.0
32	COMP. RES. THRIPS	0.0	1.0
33	NAB EL-GAMAL	1.0	1.0
34	H-507 E	0.0	1.0
35	METRO	0.5	0.0
36	NICARILLO	0.0	1.0
37	UNITED 106	0.0	1.0
38	CIPB - AC 1 - COMP. 1	0.5	1.0
39	KISAN	0.5	1.0
40	H. PERGAMINO GUAZU	0.0	1.0
41	CIPA	0.0	1.0
42	ZAPALOTE CHICO - OAX. 179	0.0	1.0
43	COMP. L(ME)C2	0.0	1.0
44	AMERICAN EARLY	0.0	2.0
45	PIONEER X 306 A	0.5	2.5
46	FUKKO NO. 8	0.0	1.5
47	VIJAY	0.0	1.0
48	COMP. B (C2)	0.0	1.0
49	JAUNE DE BOUAKE	0.0	1.0
50	LOCAL VARIETY	0.5	1.0

TABLE 36

REACTION TO DOWNY MILDEWS. BROWN-STRIPE DOWNY MILDEW (*SCLEROPHTORA RAISSIAE* VAR. ZEAE) AND *SCLEROSPORA SORGHI*.

FIRST "IMAN" 1970-71

VARIETY NO.	P E D I G R E E	I N D I A (PATNAGAR) SCLEROPHTORA	SCLEROSPORA
1	FUNKS G-43	4.5	0.5
2	H-511	3.0	0.0
3	AGROCERES M-206	3.5	0.5
4	P.M.S. 264	2.5	1.0
5	PIONEER X 304 A	2.5	0.5
6	HARAPAN	1.5	0.0
7	SINT. NICARAGUA 2	3.0	0.0
8	SINT. LIN. RES. ACH.	2.5	0.0
9	P.B. 5	3.0	0.5
10	ATHERTON DENT	2.5	0.0
11	COMP. CARIBE C3	2.5	0.0
12	TUXP. COMP. C3	2.5	1.0
13	CORTAZAR M-C4	3.0	0.0
14	H-512	2.5	0.0
15	LALTINE	4.0	0.0
16	ETO BLANCO	1.5	0.0
17	CENTRALMEX	2.5	1.0
18	SIN. 10 LIN. AM. CRIST.	2.0	0.0
19	H-507	2.5	1.0
20	(USA X CARIB. COMP.)	2.0	0.0
21	COMP. NORTEAMERICANO	3.0	0.0
22	(MIX. 1 X COL. GPO. 1) X ETO BL.	3.0	0.5
23	H-613 B	3.5	0.5
24	H. ABATI 2	3.5	0.0
25	KO. NO. 6	2.5	0.0
26	POEY T-66	1.5	0.5
27	POEY B-15	3.0	0.5
28	HGO. 8 - PC 4	1.5	0.0
29	QK 37	3.0	0.0
30	AGROCERES 501	3.5	0.0
31	P.M.S. 263	3.5	0.0
32	COMP. RES. THRIPS	3.0	0.0
33	NAB EL-GAMAL	3.5	0.5
34	H-507 E	2.5	0.0
35	METRO	2.0	0.0
36	NICARILLO	2.5	0.0
37	UNITED 106	4.5	0.5
38	CIPB-AC 1-COMP. 1	3.0	0.0
39	KISAN	2.0	0.0
40	H. PERGAMINO GUAZU	3.0	0.0
41	CIPA	3.5	0.0
42	ZAPALOTE CHICO - OAX. 179	3.5	0.0
43	COMP. L (ME) C2	2.0	1.0
44	AMERICAN EARLY	3.5	1.5
45	PIONEER X 306 A	2.5	0.0
46	FUKKO NO. 8	2.0	0.0
47	VIJAY	2.5	0.0
48	COMP. B (C2)	2.5	0.0
49	JAUNE DE BOUAKE	3.0	0.0
50	LOCAL VARIETY	3.0	0.0