

**RESULTS OF THE FIRST  
ELITE BARLEY YIELD TRIAL  
HULL-LESS LINES  
(EBYT) 1977-78**



**CENTRO INTERNACIONAL DE MEJORAMIENTO DE MAIZ Y TRIGO**

**INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER**

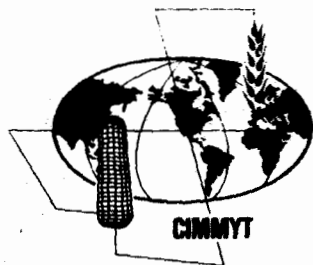
Londres 40, Apdo. Postal 6-641, México 6, D.F. México

**INFORMATION BULLETIN No. 52**

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ELITE BARLEY YIELD TRIAL**

**HULL-LESS LINES**

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**GLOSSARY OF VARIABLE NAMES USED IN THE TABLES.  
GLOSARIO DE NOMBRES VARIABLES USADOS EN LAS TABLAS.  
GLOSSAIRE DES NOMS DES VARIABLES UTILISES DANS LES TABLEAUX.**

TABLE ABBREVIATION	VARIABLE NAME	NOMBRE DE LA VARIABLE	NOM DE LA VARIABLE
ALT BLT	Alternaria blight (0-9 scale)	Tizón por Alternaria (escala 0-9)	Alternaria (echelle 0-9)
ANT DMGE	Ant damage percentage	Porcentaje de daño de hormigas	Dégâts dus aux fourmis en pourcentage
APHD DMGE	Aphid damage percentage	Porcentaje de daño de áfidos	Dégâts dus aux pucerons en pourcentage
ARMY WORM	Army worm percentage	Porcentaje de gusano cogollero	Chenille soldat en pourcentage
BACT STRP	Bacterial stripe (0-9 scale)	Rayado bacteriano (escala 0-9)	Rayee bacterienne (echelle 0-9)
BIRD DMGE	Bird damage percentage	Porcentaje de daño de pájaros	Dégâts dus aux oiseaux en pourcentage
BYDV	Barley yellow dwarf virus (0-9 scale)	Enanismo amarillo de la cebada (escala 0-9)	Virose jaune de l'orge (echelle 0-9)
COVD SMUT	Covered smut percentage	Porcentaje de carbón cubierto	Charbon couvert en pourcentage
EARS /M <sup>2</sup>	Ears per square meter	Espigas o mazorcas por metro cuadrado	Epis par metre <sup>2</sup>
FALL NO	Falling number (seconds)	Actividad alfa amilasa (segundos)	Activité de $\alpha$ amylase (eu secondes)
FERT %	Fertility percentage	Porcentaje de fertilidad	Fertilité en pourcentage
FLOW DAYS	Number days to flower	Días a floración	Nombre de jours a la floraison
FRST DMGE	Frost damage percentage	Porcentaje de daño por heladas	Dégâts par la gelée en pourcentage
FUS WILT	Fusarium wilt percentage	Porcentaje de marchitez por Fusarium	Fusarium en pourcentage
GERM %	Germination percentage	Porcentaje de germinación	Germination en pourcentage
HAIL DMGE	Hail damage percentage	Porcentaje de daño por granizo	Dégâts dus à la grêle en pourcentage
HELM	Helminthosporium (0-9 scale)	Helminthosporium (escala 0-9)	Helminthosporium (echelle 0-9)
KERN APP	Kernel appearance	Apariencia del grano	Apparence du grain
LEAF FIRE	Leaf fire (0-9 scale)	Tizón foliar (escala 0-9)	Jaunissement des feuilles (echelle 0-9)
LEAF RUST	Leaf rust (Cobb scale)	Roya de la hoja (escala de Cobb)	Rouille brune (echelle de Cobb)
LODG %	Lodging percentage	Porcentaje de acame	Verse en pourcentage
LSE SMUT	Loose smut percentage	Porcentaje de carbón volador	Charbon nu en pourcentage
MAT DAYS	Number days to maturity	Número de días a la madurez	Nombre de jours a la maturation
MST %	Moisture percentage	Porcentaje de humedad	Humidité en pourcentage
NECK BRK	Neck break percentage	Porcentaje de rotura del cuello	Cassure du pédoncule en pourcentage
NET BLOT	Net blotch (0-9 scale)	Mancha reticular (escala 0-9)	Helminthosporium de l'orge (echelle 0-9)
PLNT DENS	Plant density (stems/square meter)	Densidad de plantas (tallos/metro cuadrado)	Population des plantes (taillies/metre <sup>2</sup> )
PLNT HT	Height (cm)	Altura (cm)	Hauteur (cm)
PLNT WT	Plant weight (grams)	Peso de la planta (gramos)	Poids de la planté (grames)
POWD %	Powdery mildew percentage	Porcentaje de mildiú polvoriento	Oidium en pourcentage
PROT %	Protein percentage	Porcentaje de proteína	Protein en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Piétin verse en pourcentage
SCAB %	Scab percentage	Porcentaje de roña	Fusarium de l'epi en pourcentage
SCLD %	Scald percentage	Porcentaje de escaldadura	Rhynchosporium en pourcentage
SDMT INDX	Sedimentation index (cc)	Indice de sedimentación (cc)	Indice de sédimentation (cc)
SEED TYPE	Seed type (L=large, M=medium, S=small)	Tipo de semilla (L=grande; m=mediano, s=pequeño)	Type de grain (L=large, M=moyen; S=petit)
SEPT NODO	Septoria nodorum (0-9 scale)	Septoria nodorum (escala 0-9)	Septoria nodorum (echelle 0-9)
SEPT SPP.	Septoria spp. (0-9 scale)	Septoria spp. (escala 0-9)	Septoria spp. (echelle 0-9)
SEPT TRIT	Septoria tritici (0-9 scale)	Septoria tritici (escala 0-9)	Septoria tritici (echelle 0-9)
SHTR %	Shattering percentage	Porcentaje de desgrane	Chute de grains en pourcentage
SMLS SMUT	Semi-loose smut percentage	Porcentaje de carbón semi-volador	Charbon semi-nu en pourcentage
SPOT BLOT	Spot blotch (0-9 scale)	Tizón de la hoja (escala 0-9)	Tache de la feuilles (echelle 0-9)
STEM RUST	Stem rust (Cobb scale)	Roya del tallo (escala de Cobb)	Rouille noire (echelle de Cobb)
STRP RT.H	Stripe rust (head) percentage	Porcentaje de roya lineal (espiga)	Rouille jaune sur l'epi en pourcentage
STRP RT.L	Stripe rust (leaf) (Cobb scale)	Roya lineal (hoja) (escala de Cobb)	Rouille jaune sur feuilles (echelle de Cobb)
TEST WT	Test weight (kg/ha)	Peso hectolítrico (kg/ha)	Poids spécifique (kg/ha)
1000 G.W.	1000 grain weight (grams)	Peso de 1000 granos (gramos)	Poids de 1000 grains (grames)
YELL BERR	Yellow berry percentage	Porcentaje de panza blanca	Mitadinage en pourcentage
YIELD KG/HA	Yield kg/ha	Rendimiento kg/ha	Rendement kg/ha

# RESULTS OF THE FIRST ELITE BARLEY YIELD TRIAL HULL-LESS LINES (EBYT)

1977 - 1978

## INTRODUCTION

The first set of naked i.e. hull-less grain lines bred by the CIMMYT Barley Program was prepared in the 1977-78 cycle. The trial included hull-less barley lines selected from preliminary yield trials grown at Cd. Obregon, Sonora, Mexico in the 1976-77 cycle.

## MATERIALS AND METHODS

The seed of outstanding hull-less types was multiplied in four row plots each 11 meters long, during the 1976-1977 cycle at Cd. Obregon, Sonora, Mexico. The plots were rogued, and the harvested seed was cleaned and disinfected with Vitavax fungicide before packing in small envelopes. The experimental plots, generally consisted of four replications of six rows, each 2.5 m in length. The instructions for sowing, general management of the trial and the recording of data were included in instruction sheets sent to cooperators with the seed shipment.

The trial contained 25 entries of which 24 were lines bred by the CIMMYT Barley Program, and one was a local check. The entries are listed in table A. Figures 1 and 2 show the locations where the experiments were grown as well as their approximate growing periods and locations above sea level.

## DATA SUMMARY

There was a total of 17 variables recorded. The yield data are recorded in kg/ha. The degree of rust infection, lodging, shattering, powdery mildew and scald are expressed as percentages. For other foliar diseases, a 0-9 scoring scale was used. The test weight is reported in kilograms per hectoliter, 1000 grain weights in grams and plant height in centimeters.

The cooperators were requested to report the yield of the four center rows from each plot. These yields were converted into kg/ha. Statistical analyses were made for each location and the varieties were ranked in descending order, according to their yield.

## RESULTS AND DISCUSSION

It can be seen from tables 1-17 that the CIMMYT lines were in the first place in 10 out of 17 places where they were tested. The variety 23 was among the five top yielders in seven of the 17 locations.

Even though the overall summary for the 17 places (table 26) shows that the local checks rank top in total kg/ha, they never reached the yields of some CIMMYT lines in a particular place. For example, the highest yielding local check was in location 158 (table 16) where it reached 5.3 t/ha, whereas in location 126 (table 12) one of the hull-less CIMMYT lines yielded 5.8 t/ha.

When the performance of the CIMMYT lines is analyzed by regions, it is evident that they have a fairly good adaptation to the North African region, Western Europe, North America, Far East and South East Asia. However, they have to be improved for the Middle East and the Southern Cone in South America (tables 1 to 18). The range of yields among the CIMMYT hull-less lines in different places (table 26) is a good indication that if the naked, that is hull-less character can be incorporated in the right genotype, the yield potential can be increased.

Table A. Varieties included in the 1st. Elite Barley Yield Trial ( EBYT-NAKED )  
with variety name, and pedigree.

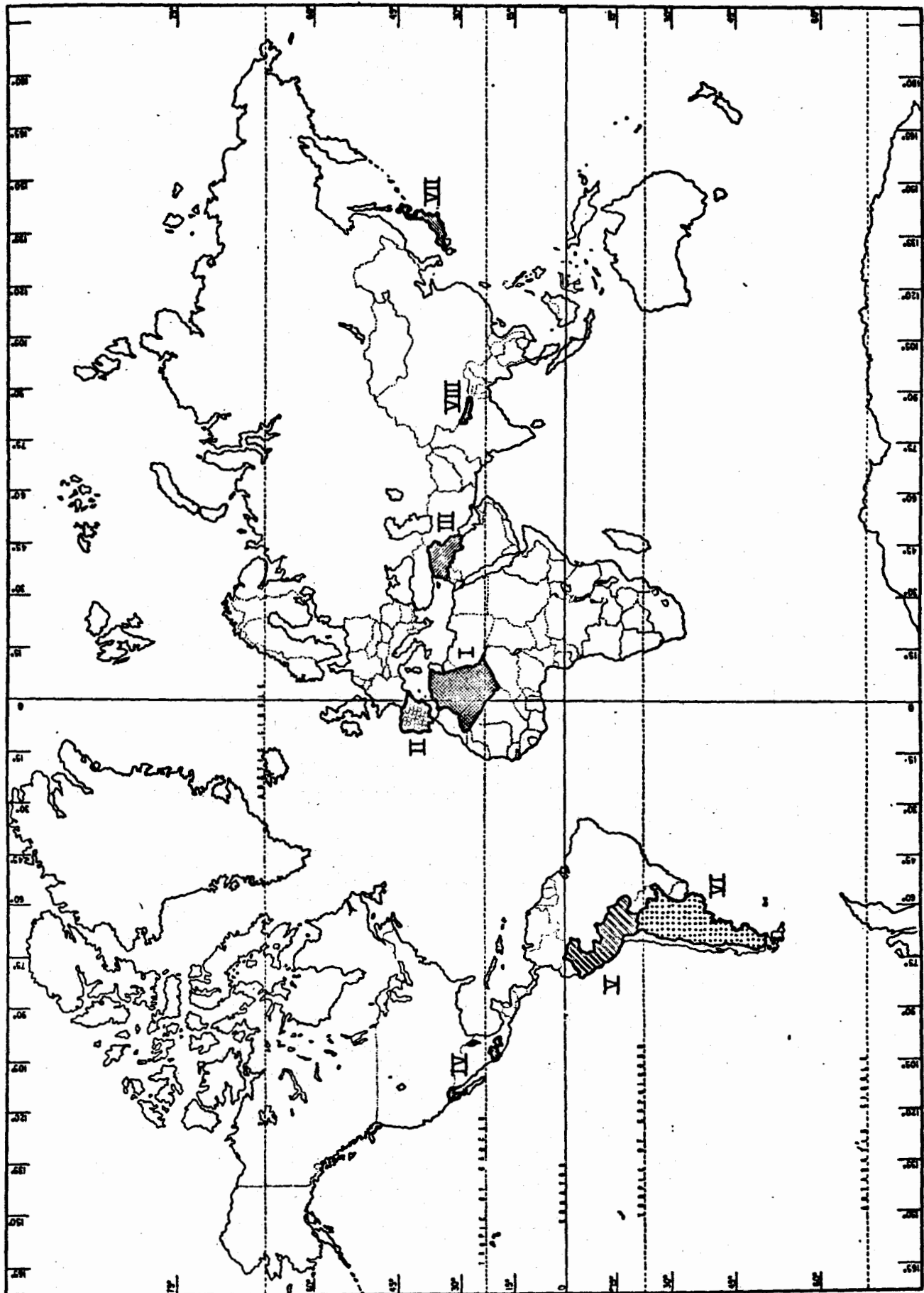
Entry No	Variety or Cross and Pedigree
1	Api-5106 CMB-73A-7-2B-5Y-0B
2	11012.2 x Ds-Apro CMB-73A-928-1B-3Y-0B
3	Dwg 1-Api <sup>3</sup> x 5107 CMB-73-88-4Y-2B-1Y-0B
4	Sahuaro-M66.85 CMB-73-221-22Y-1B-2Y-0B
5	DS-Apro 9B x 11012.2 CMB-73-547-9Y-2B-3Y-0B
6	CM67 x Ds-Apro CMB-72A-31-6B-7Y-1B-1Y-0B
7	S. Precoz (2h) x Ds-Apro CMB-72A-101-4B-1Y-1B-1Y-1B-0Y
8	Ds-Apro x CR 115-Por CMB-72A-105-1B-3Y-2B-1Y-1B-0Y
9	CM67-Apam x Godiva CMB-72A-122-C-1B-1Y-1B-1Y-1B-0Y
10	( Sht. Wocus-Apro x Woodvale/Apro ) Ds-Apro CMB-72A-193-E-4B-2Y-1B-1Y-1B-0Y
11	SV. Mona-Emir x Godiva CMB-73A-995-H-2B-5Y-1B-2Y-0B
12	Pro-Tol I x Cer <sup>2</sup> -Tol I/5106 CMB-73-128-8Y-1B-1Y-1B-1Y-0B
13	Apam-Athenais x Godiva CMB-72A-121-A-2B-1Y-3B-1Y-1B-0Y
14	Apam-11012.2xNepalCI. 593 CMB-74-888-A-1Y-1B-2Y-0B
15	Bco. Mr x Ds-Apro CMB-73A-36-1B-3Y-1B-1Y-0B
16	Bco. Mr x Ds-Apro CMB-73A-37-22B-5Y-1B-1Y-0B
17	Mezquite-CI 3909.2 CMB-73A-158-4B-3Y-1B-1Y-0B
18	Jo-Galt x Apam-IB65 CMB-73A-274-4B-2Y-1B-1Y-0B
19	Dwg 1-Api <sup>3</sup> x 5107 CMB-73-88-5Y-4B-1Y-1B-1Y-0B
20	CM67-Pro/Bco. Mr x Ds-Apro CMB-73-456-H-1Y-3B-1Y-0B
21	Sahuaro-M66.85 CMB-73-221-3Y-1B-1Y-1B-1Y-0B
22	Mona-Tern/Ds-Apro. 2B x Olli-M64.69 CMB-73A-1203-A-2B-1Y-2B-1Y-0B
23	CM67-Pro/Bco Mr x Ds-Apro CMB-73-456-H-1Y-3B-2Y-1B-1Y-0B
24	Pro-Tol I x Cer <sup>3</sup> -Tol I/5106 CMB-73-128-8Y-1B-1Y-1B-2Y-0B
25	Local Check

Figure 1. Growing season an elevation of locations reported in the 1st EBYT-Naked 1977-78.

Table No	1977												1978												ELEVATION (meters)							
	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	M	J	J	A	S	O	N	D	J		F	M	A	M	J	J	
<u>AFRICA</u>																																
1																									—————						640	
<u>ASIA</u>																																
2																									- - - - -						010	
3																									- - - - -						1369	
<u>EUROPE</u>																																
4																									—————						0208	
5																									—————						0202	
<u>MIDDLE EAST</u>																																
6																									—————						0034	
7																									—————						0950	
8																									—————						0300	
<u>NORTH AMERICA</u>																																
9																									—————						0025	
10	—————																														2640	
11	—————																														2249	
12																									—————						1765	
13																									- - - - -						1550	
14																									—————						1895	
<u>SOUTH AMERICA</u>																																
15																									—————						0212	
16																									—————						2730	
17																									—————						0251	
1977												1978																				

\* Date harvested not reported.

FIGURE 2. REGIONAL SUMMARY (GROUP I - VIII) FOR THE 1<sup>st</sup> EBYT-NAKED 1977-78





1ST EBYT (NAKED) TABLE 1 AFRICA

ALGERIA

CONSTANTINE

EL KHROUB  
INRAA CEREAL PROJECT  
LATITUDE 036 16'N  
LONGITUDE 006 42'E  
ELEVATION 0640 M.ABOVE S.L.

DATE PLANTED 12/11/77  
DATE HARVESTED 7/ 1/78  
AMOUNT OF MOISTURE 306 MM

NITROGEN APPLIED  
PHOSPHORUS APPLIED  
POTASSIUM --

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.  
COLD WINTER AND LOW RAINFALL BUT GOOD RAIN DISTRIBUTION.  
NEMATODE PROBLEMS.  
LOCAL CHECK: TICHIDRETT.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA
5	DS-APRO9B X 11012.2	MEXICO	3674
7	S.PRECOZ(2H) X DS-APRO	MEXICO	3448
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	3420
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3362
25	LOCAL CHECK		3348
15	BCO.MR X DS-APRO	MEXICO	3277
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3220
2	11012.2 X DS-APRO	MEXICO	3165
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	3028
16	BCO.MR X DS-APRO	MEXICO	3025
6	CM67 X DS-APRO	MEXICO	3017
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2945
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2920
1	API-5106	MEXICO	2908
18	JO-GALT X APAM-1865	MEXICO	2814
19	DWG1-API3 X 5107	MEXICO	2805
8	DS-APRO X CR115-POR	MEXICO	2802
9	CM67-APAM X GODIVA	MEXICO	2734
13	APAM-ATHENAIIS X GODIVA	MEXICO	2720
3	DWG1-API3 X 5107	MEXICO	2714
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	2705
17	MEZQUITE-CI 3909.2	MEXICO	2631
4	SAHUARO-M66.85	MEXICO	2545
21	SAHUARO-M66.85	MEXICO	2525
11	SV MONA-EMIR X GODIVA	MEXICO	2425

GRAND MEAN 2967.1  
STANDARD ERROR OF GRAND MEAN  
COEFFICIENT OF VARIATION AS PC  
LSD VARIETY MEANS 5 PC

1ST EBYT (NAKED)

TABLE 2

ASIA

JAPAN

FUKUOKA

KYUSHU A.E.S.

T. KOSHIDA

LATITUDE 33°12' N

LONGITUDE 130° 30' E

ELEVATION 10 M. ABOVE S.L.

DATE PLANTED

2/18/78

DATE HARVESTED

--/--/--

AMOUNT OF MOISTURE

-- MM

NITROGEN

APPLIED

PHOSPHORUS

APPLIED

POTASSIUM

APPLIED

SOWING DATE NOT REPORTED. SOIL MOIST AT SOWING.

ALL CULTIVARS LODGED BADLY

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	FLOW DAYS	PLNT HT	LODG %
1	API-5106	MEXICO	81	74	50
2	11012.2 X DS-APRO	MEXICO	84	52	55
3	DWG1-API3 X 5107	MEXICO	79	76	55
4	SAHUARO-M66.85	MEXICO	83	71	75
5	DS-APRO9B X 11012.2	MEXICO	76	75	100
6	CM67 X DS-APRO	MEXICO	80	72	100
7	S.PRECOZ(2H) X DS-APRO	MEXICO	77	59	100
8	DS-APRO X CR115-POR	MEXICO	82	69	100
9	CM67-APAM X GODIVA	MEXICO	83	67	85
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	82	73	95
11	SV MONA-EMIR X GODIVA	MEXICO	80	64	65
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	82	68	100
13	APAM-ATHENAIIS X GODIVA	MEXICO	81	63	100
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	82	67	100
15	BCO.MR X DS-APRO	MEXICO	82	64	100
16	BCO.MR X DS-APRO	MEXICO	81	75	95
17	MEZQUITE-CI 3909.2	MEXICO	83	61	90
18	JO-GALT X APAM-IB65	MEXICO	81	79	85
19	DWG1-API3 X 5107	MEXICO	79	72	70
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	80	67	70
21	SAHUARO-M66.85	MEXICO	81	82	40
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	87	63	50
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	81	65	10
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	81	64	15
25	LOCAL CHECK		-	-	-

GRAND MEAN

80.9 68.1 75.2

STANDARD ERROR OF GRAND MEAN

COEFFICIENT OF VARIATION AS PC

LSD VARIETY MEANS 5 PC

## CORRELATIONS

FLOW	DAYS		
PLNT	HT	-0.32	
LODG	%	-0.15	0.04

## KHUMALTAR

## CERALS STAFF

LATITUDE 027 50'N DATE PLANTED 11/ 3/77  
 LONGITUDE 085 20'E DATE HARVESTED --/--/--  
 ELEVATION 1369 M.ABOVE S.L. AMOUNT OF MOISTURE 144 MM

NITROGEN APPLIED  
 PHOSPHORUS APPLIED  
 POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.  
 WEATHER NORMAL. WEED PROBLEMS.

LOCAL CHECK: NB1054

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT
15	BCO.MR X DS-APRO	MEXICO	3545	28	112	169	82
17	MEZQUITE-CI 3909.2	MEXICO	3381	35	103	168	58
18	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3334	39	112	170	76
11	SV MONA-EMIR X GODIVA	MEXICO	3114	40	105	169	70
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	2976	28	112	169	84
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	2903	30	113	169	65
8	DS-APRO X CR115-POR	MEXICO	2889	28	104	171	71
25	LOCAL CHECK		2878	35	85	160	93
7	S.PRECOZ(2H) X DS-APRO	MEXICO	2734	26	103	168	64
3	DWGI-API3 X 5107	MEXICO	2598	37	100	169	79
5	DS-APRO9B X 11012.2	MEXICO	2575	30	105	171	77
1	API-5106	MEXICO	2560	29	101	170	63
18	JO-GALT X APAM-IB65	MEXICO	2540	29	100	164	75
19	DWGI-API3 X 5107	MEXICO	2530	24	96	164	62
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2455	29	90	160	69
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2435	28	94	160	66
21	SAHUARO-M66.85	MEXICO ***	2295	32	101	166	81
2	11012.2 X DS-APRO	MEXICO	2231	23	106	168	48
13	APAM-ATHENAI5 X GODIVA	MEXICO	2169	36	103	166	73
6	CM67 X DS-APRO	MEXICO	2116	33	114	169	71
9	CM67-APAM X GODIVA	MEXICO	1989	31	123	170	61
16	BCO.MR X DS-APRO	MEXICO	1725	18	107	165	81
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1534	29	109	166	64
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1321	20	112	168	51
4	SAHUARO-M66.85	MEXICO	1133	25	107	169	66

GRAND MEAN 2478.3 30.0 104.7 167.1 70.0  
 STANDARD ERROR OF GRAND MEAN 68.5  
 COEFFICIENT OF VARIATION AS PC 27.6  
 LSD VARIETY MEANS 5 PC 965.2

## CORRELATIONS

YIELD KG/HA  
 TEST WT 0.44  
 FLOW DAYS -0.15 -0.03  
 MAT DAYS 0.11 0.14 0.74  
 PLNT HT 0.34 0.25 -0.25 -0.18



1ST EBYT (NAKED) TABLE 7 MIDDLE EAST LEBANON BEKA'A VALLEY

TEL AMARA  
 LEBANESE R.I.  
 LATITUDE 033 55'N DATE PLANTED 11/14/77 NITROGEN APPLIED  
 LONGITUDE 035 28'E DATE HARVESTED 6/19/78 PHOSPHORUS --  
 ELEVATION 0950 M.ABOVE S.L. AMOUNT OF MOISTURE 750 MM POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD. WEATHER NOT REPORTED.  
 NEGLIGIBLE DISEASE DEVELOPMENT. BIRD AND WEED PROBLEMS.  
 LOCAL CHECK: ORGE PAYS 25.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
25	LOCAL CHECK		1875	119	154	80
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1683	117	152	85
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1633	113	149	95
17	MEZQUITE-CI 3909.2	MEXICO	1600	120	159	70
11	SV MONA-EMIR X GODIVA	MEXICO	1587	113	158	85
8	DS-APRO X CR115-POR	MEXICO	1483	115	157	80
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	1450	120	155	70
7	S.PRECOZ(2H) X DS-APRO	MEXICO	1404	114	155	75
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1283	119	155	90
13	APAM-ATHENAIIS X GODIVA	MEXICO	1275	115	153	80
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1262	118	152	60
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1233	120	160	60
4	SAHUARO-M66.85	MEXICO	1187	117	155	75
19	DWGL-API3 X 5107	MEXICO	1175	110	153	75
9	CM67-APAM X GODIVA	MEXICO ***	1096	114	154	75
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	967	111	150	90
15	BCO.MR X DS-APRO	MEXICO	958	119	154	80
3	DWGL-API3 X 5107	MEXICO	929	110	156	60
18	JO-GALT X APAM-IB65	MEXICO	775	105	154	75
6	CM67 X DS-APRO	MEXICO	721	114	154	75
5	DS-APRO9B X 11012.2	MEXICO	667	113	158	85
2	11012.2 X DS-APRO	MEXICO	658	120	158	55
16	BCO.MR X DS-APRO	MEXICO	546	120	153	90
21	SAHUARO-M66.85	MEXICO	442	114	156	70
1	API-5106	MEXICO	287	115	158	65

GRAND MEAN 1127.1 115.4 154.9 76.0  
 STANDARD ERROR OF GRAND MEAN 45.4  
 COEFFICIENT OF VARIATION AS PC 40.3  
 LSD VARIETY MEANS 5 PC 640.0

CORRELATIONS  
 YIELD KG/HA  
 FLOW DAYS 0.22  
 MAT DAYS -0.18 0.25  
 PLNT HT 0.27 -0.15 -0.52

1ST EBYT (NAKED) TABLE 4 EUROPE PORTUGAL ALENTEJO

PBS ALENTEJO  
M.T.BARRADAS ET AL  
LATITUDE 038 54'N DATE PLANTED 11/24/78 NITROGEN APPLIED  
LONGITUDE 007 09'W DATE HARVESTED 6/27/78 PHOSPHORUS APPLIED  
ELEVATION 0200 M.ABOVE S.L. AMOUNT OF MOISTURE 553 MM POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.  
PERSISTENT AND HIGH RAINFALL FROM NOVEMBER TO FIRST WEEK OF MARCH.  
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: RIBEKA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	POWD %	LEAF FIRE
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2473	126	176	0	81	12	44	0
8	DS-APRO X CR115-POR	MEXICO	2451	122	178	---	88	35	56	56
25	LOCAL CHECK		2377	136	185	20S	91	9	11	78
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2262	125	177	TR	87	23	0	33
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1900	122	174	---	79	3	11	0
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1821	125	177	---	78	0	22	22
6	CM67 X DS-APRO	MEXICO	1779	128	178	TR	71	12	33	56
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	1732	129	178	30S	76	12	0	78
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1540	132	182	30S	94	23	33	44
16	BCO.MR X DS-APRO	MEXICO	1419	124	179	TS	96	41	33	89
11	SV MONA-EMIR X GODIVA	MEXICO	1382	124	177	10MS	91	0	22	67
9	CM67-APAM X GODIVA	MEXICO	1380	129	176	10MR	79	16	33	33
13	APAM-ATHENAIS X GODIVA	MEXICO	1360	125	171	5MR	81	12	0	67
4	SAHUARO-M66.85	MEXICO	1245	127	177	---	69	0	0	89
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1215	131	177	30S	78	0	33	33
17	MEZQUITE-CI 3909.2	MEXICO	1192	128	177	---	78	0	67	22
2	11012.2 X DS-APRO	MEXICO	1184	126	181	60S	69	0	0	89
15	BCO.MR X DS-APRO	MEXICO	1112	125	177	---	93	38	0	89
18	JO-GALT X APAM-IB65	MEXICO	1100	123	173	---	97	12	22	44
5	DS-APRO9B X 11012.2	MEXICO	1033	123	175	---	85	9	33	67
19	DWG1-API3 X 5107	MEXICO	1015	117	174	---	87	0	0	67
21	SAHUARO-M66.85	MEXICO	944	122	169	---	102	23	0	67
7	S.PRECOZ (2H) X DS-APRO	MEXICO	937	125	178	---	75	12	33	89
3	DWG1-API3 X 5107	MEXICO	832	121	176	TR	88	3	0	89
1	API-5106	MEXICO	450	125	172	---	70	12	11	100

GRAND MEAN 1446.4 125.5 176.4 14.3 83.2 12.2 19.9 58.7

STANDARD ERROR OF GRAND MEAN  
COEFFICIENT OF VARIATION AS PC  
LSD VARIETY MEANS 5 PC

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	POWD %	LEAF FIRE
	0.31						
	0.46	0.66					
	-0.20	0.40	0.54				
	0.06	-0.20	-0.09	-0.34			
	0.20	-0.04	0.06	-0.35	0.53		
	0.24	0.20	0.22	-0.21	-0.03	0.11	
	-0.52	-0.08	0.10	0.26	-0.00	0.19	-0.45

## COGULLADA

J.COMENGE ET AL

LATITUDE 041 38'N

LONGITUDE 000 54'W

ELEVATION 0202 M.ABOVE S.L.

DATE PLANTED 12/ 9/77

DATE HARVESTED 6/27/77

AMOUNT OF MOISTURE 542 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: BERTA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	POWD %	BYDV
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	4005	41	137	191	40S	95	84	-
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	4750	38	141	192	70S	100	100	6
19	DWGL-API3 X 5107	MEXICO	4500	39	128	185	60S	95	70	5
9	CM67-APAM X GODIVA	MEXICO	4361	36	138	189	20MS	90	67	6
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	4305	36	138	189	40S	95	47	-
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	4027	33	127	183	70S	95	97	-
11	SV MONA-EMIR X GODIVA	MEXICO ***	3944	37	139	187	70S	100	75	-
15	BCO.MR X DS-APRO	MEXICO	3805	35	139	191	40S	100	100	-
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	3777	33	124	181	60S	100	84	-
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	3750	35	139	190	40S	105	97	8
17	MEZQUITE-CI 3909.2	MEXICO	3694	36	137	189	20S	95	84	5
6	CM67 X DS-APRO	MEXICO	3639	41	138	191	20MS	85	78	10
25	LOCAL CHECK		3611	38	149	197	40S	100	84	-
16	BCO.MR X DS-APRO	MEXICO	3500	38	140	191	40S	105	97	-
8	DS-APRO X CR115-POR	MEXICO	3305	33	132	190	60S	85	89	-
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3277	41	139	186	70S	100	97	-
3	DWGL-API3 X 5107	MEXICO	3055	35	129	183	10S	100	70	-
4	SAHUARO-M66.85	MEXICO	3000	33	140	189	60S	95	97	-
5	DS-APRO9B X 11012.2	MEXICO	2861	34	139	192	40S	95	78	6
21	SAHUARO-M66.85	MEXICO	2861	35	132	187	40S	105	78	5
7	S.PRECOZ(2H) X DS-APRO	MEXICO	2833	38	134	189	60S	75	81	-
13	APAM-ATHENAIIS X GODIVA	MEXICO	2805	42	124	175	60S	85	56	-
18	JO-GALT X APAM-IB65	MEXICO	2750	36	133	185	40MS	105	89	8
2	11012.2 X DS-APRO	MEXICO	2111	35	140	190	90S	55	81	5
1	API-5106	MEXICO	1333	28	141	191	40S	90	86	5

GRAND MEAN 3466.3 36.3 135.7 188.0 49.5 94.0 82.6 6.0  
 STANDARD ERROR OF GRAND MEAN 52.6  
 COEFFICIENT OF VARIATION AS PC 15.2  
 LSD VARIETY MEANS 5 PC 741.1

## CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	POWD %	BYDV
	0.44						
	-0.03	-0.01					
	0.08	-0.13	0.91				
	-0.06	-0.02	-0.08	-0.16			
	0.37	-0.01	0.01	-0.02	-0.34		
	-0.03	-0.22	0.29	0.35	0.12	0.24	
	0.24	0.52	0.08	0.07	-0.61	0.24	0.17

1TH EBYT (NAKED)

TABLE 6

MIDDLE EAST

IRAQ

BAGHDAD

ABU'GHRAIB

CEREAL STAFF

LATITUDE 033 20'N

DATE PLANTED 11/14/77

LONGITUDE 044 24'E

DATE HARVESTED 4/24/78

ELEVATION 0034 M.ABOVE S.L.

AMOUNT OF MOISTURE -- MM

NITROGEN ---

PHOSPHORUS ---

POTASSIUM ---

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION POOR.

WEATHER NORMAL.

HAND WEEDING.

LOCAL CHECK: ARRIVAT

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT
25	LOCAL CHECK		3425	62	105	148	94
13	APAM-ATHENAIIS X GODIVA	MEXICO	2144	77	105	147	71
16	BCO.MR X DS-APRO	MEXICO	2133	78	104	151	84
6	CM67 X DS-APRO	MEXICO	1983	70	104	148	80
7	S.PRECOZ (2H) X DS-APRO	MEXICO	1800	77	103	149	70
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	1733	79	107	150	72
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1567	76	108	149	69
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1558	71	109	153	71
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1500	76	109	155	75
2	11012.2 X DS-APRO	MEXICO	1475	75	106	153	66
4	SAHUARO-M66.85	MEXICO	1433	78	106	152	72
11	SV MONA-EMIR X GODIVA	MEXICO	1367	76	107	154	71
15	BCO.MR X DS-APRO	MEXICO	1355	67	109	150	74
3	DWG1-API3 X 5107	MEXICO	1342	65	103	150	79
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1258	64	104	150	76
18	JO-GALT X APAM-IB65	MEXICO	1200	76	107	150	76
9	CM67-APAM X GODIVA	MEXICO	1158	76	108	150	67
1	API-5106	MEXICO	1142	78	103	143	82
19	DWG1-API3 X 5107	MEXICO	1133	80	101	147	80
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1042	71	102	144	77
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1033	72	101	144	79
17	MEZQUITE-CI 3909.2	MEXICO	1022	75	108	151	69
8	DS-APRO X CR115-POR	MEXICO	942	78	102	147	72
5	DS-APRO9B X 11012.2	MEXICO	925	61	104	148	76
21	SAHUARO-M66.85	MEXICO	558	72	103	145	81

GRAND MEAN

1446.0 73.2 105.0 140.9 75.5

STANDARD ERROR OF GRAND MEAN

8.9

COEFFICIENT OF VARIATION AS PC

12.0

LSD VARIETY MEANS 5 PC

12.8

## CORRELATIONS

YIELD	KG/HA				
TEST	WT	-0.15			
FLOW	DAYS	0.15	0.06		
MAT	DAYS	0.19	0.08	0.72	
PLNT	HT	0.40	-0.40	-0.46	-0.44



1ST EBYT (NAKED) TABLE 7 MIDDLE EAST LEBANON BEKA'A VALLEY

TEL AMARA  
 LEBANESE R.I.  
 LATITUDE 033 55'N DATE PLANTED 11/14/77 NITROGEN APPLIED  
 LONGITUDE 035 28'E DATE HARVESTED 6/19/78 PHOSPHORUS --  
 ELEVATION 0950 M.ABOVE S.L. AMOUNT OF MOISTURE 750 MM POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD. WEATHER NOT REPORTED.  
 NEGLIGIBLE DISEASE DEVELOPMENT. BIRD AND WEED PROBLEMS.  
 LOCAL CHECK: ORGE PAYS 25.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
25	LOCAL CHECK		1875	119	154	80
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1683	117	152	85
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1633	113	149	95
17	MEZQUITE-CI 3909.2	MEXICO	1600	120	159	70
11	SV MONA-EMIR X GODIVA	MEXICO	1587	113	158	85
8	DS-APRO X CR115-POR	MEXICO	1483	115	157	80
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	1450	120	155	70
7	S.PRECOZ (2H) X DS-APRO	MEXICO	1404	114	155	75
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1283	119	155	90
13	APAM-ATHENAIIS X GODIVA	MEXICO	1275	115	153	80
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1262	118	152	60
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1233	120	160	60
4	SAHUARO-M66.85	MEXICO	1187	117	155	75
19	DWG1-API3 X 5107	MEXICO	1175	110	153	75
9	CM67-APAM X GODIVA	MEXICO ***	1096	114	154	75
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	967	111	150	90
15	BCO.MR X DS-APRO	MEXICO	958	119	154	80
3	DWG1-API3 X 5107	MEXICO	929	110	156	60
18	JO-GALT X APAM-IB65	MEXICO	775	105	154	75
6	CM67 X DS-APRO	MEXICO	721	114	154	75
5	DS-APRO9B X 11012.2	MEXICO	667	113	158	85
2	11012.2 X DS-APRO	MEXICO	658	120	158	55
16	BCO.MR X DS-APRO	MEXICO	546	120	153	90
21	SAHUARO-M66.85	MEXICO	442	114	156	70
1	API-5106	MEXICO	287	115	158	65

GRAND MEAN 1127.1 115.4 154.9 76.0  
 STANDARD ERROR OF GRAND MEAN 45.4  
 COEFFICIENT OF VARIATION AS PC 40.3  
 LSD VARIETY MEANS 5 PC 640.0

CORRELATIONS

YIELD KG/HA  
 FLOW DAYS 0.22  
 MAT DAYS -0.18 0.25  
 PLNT HT 0.27 -0.15 -0.52

1ST EBYT (NAKED) TABLE 8 MIDDLE EAST SYRIA ALEPPO

ALEPPO  
 CEREAL STAFF  
 LATITUDE 36 09'N DATE PLANTED 11/16/77 NITROGEN APPLIED  
 LONGITUDE 36 04'E DATE HARVESTED 6/15/78 PHOSPHORUS APPLIED  
 ELEVATION 300 M.ABOVE S.L. AMOUNT OF MOISTURE 350 MM POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION POOR.  
 RAINFALL AVERAGE OVERALL, BUT BELOW AVERAGE AFTER MARCH.  
 VERY LITTLE RAINFALL OFTERWARDS.  
 NEGLIGIBLE DISEASE DEVELOPMENT. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	POWD %
9	CM67-APAM X GODIVA	MEXICO	2365	132	154	11
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	2277	132	153	33
25	LOCAL CHECK		2259	135	148	22
3	DWG1-API3 X 5107	MEXICO	2189	77	151	22
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1842	121	148	44
4	SAHUARO-M66.85	MEXICO	1694	128	152	33
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1642	128	149	22
13	APAM-ATHENAS X GODIVA	MEXICO	1642	123	148	22
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1457	137	-	0
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1457	129	150	22
19	DWG1-API3 X 5107	MEXICO	1453	128	152	22
15	BCO.MR X DS-APRO	MEXICO	1328	127	152	33
17	MEZQUITE-CI 3909.2	MEXICO	1315	129	151	44
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	1315	137	153	0
5	DS-APRO9B X 11012.2	MEXICO	1315	122	149	33
1	API-5106	MEXICO	1143	129	153	22
8	DS-APRO X CR115-POR	MEXICO	1069	128	151	11
21	SAHUARO-M66.85	MEXICO	1055	128	150	11
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1031	129	148	22
18	JO-GALT X APAM-1B65	MEXICO	1009	128	151	11
6	CM67 X DS-APRO	MEXICO	995	129	150	11
16	BCO.MR X DS-APRO	MEXICO	903	133	151	22
7	S.PRECOZ(2H) X DS-APRO	MEXICO	884	129	154	33
11	SV MONA-EMIR X GODIVA	MEXICO	594	134	153	44
2	11012.2 X DS-APRO	MEXICO	438	133	152	33

13

GRAND MEAN 1383.9 127.0 150.6 23.3  
 STANDARD ERROR OF GRAND MEAN  
 COEFFICIENT OF VARIATION AS PC  
 LSD VARIETY MEANS 5 PC

CORRELATIONS  
 YIELD KG/HA  
 FLOW DAYS -0.32  
 MAT DAYS -0.13 0.16  
 POWD % -0.05 -0.12 -0.00

MEXICALI  
 E.V. HERNANDEZ  
 LATITUDE 31 40'N DATE PLANTED 12/23/77 NITROGEN APPLIED  
 LONGITUDE 114 45'W DATE HARVESTED 6/15/78 PHOSPHORUS APPLIED  
 ELEVATION 25 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.  
 WEATHER NOT REPORTED. DISEASE DEVELOPMENT NOT REPORTED.  
 LOCAL CHECK: TLAXCALA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	SHTR %	POWD %	SCLD %
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	4125	88	127	69	0	0	88	100
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3781	88	127	67	0	0	51	-
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO ***	3469	91	136	62	0	0	3	-
11	SV MONA-EMIR X GODIVA	MEXICO	3302	88	135	64	0	0	70	70
7	S.PRECOZ(2H) X DS-APRO	MEXICO	3104	88	125	59	10	30	80	90
9	CM67-APAM X GODIVA	MEXICO	3010	88	124	63	60	50	63	80
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	2885	91	134	70	0	0	83	90
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	2864	90	130	68	10	5	63	40
3	DWGL-API3 X 5107	MEXICO	2854	84	123	70	10	0	80	-
16	BCO.MR X DS-APRO	MEXICO	2792	88	127	65	0	0	68	75
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2750	84	122	70	0	0	85	95
13	APAM-ATHENAIIS X GODIVA	MEXICO	2729	84	118	70	70	50	85	-
6	CM67 X DS-APRO	MEXICO	2677	87	132	65	30	10	89	90
4	SAHUARO-M66.85	MEXICO	2677	88	131	65	0	0	78	60
19	DWGL-API3 X 5107	MEXICO	2667	80	122	76	50	30	56	-
8	DS-APRO X CR115-POR	MEXICO	2646	82	124	70	60	50	100	80
25	LOCAL CHECK		2583	88	124	69	0	0	60	-
18	JO-GALT X APAM-IB65	MEXICO	2500	85	123	73	40	25	80	-
21	SAHUARO-M66.85	MEXICO	2354	85	124	80	40	50	70	-
15	BCO.MR X DS-APRO	MEXICO	2344	88	129	61	20	20	80	-
2	11012.2 X DS-APRO	MEXICO	2135	87	129	47	0	0	86	70
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2114	85	122	68	0	0	70	100
17	MEZQUITE-CI 3909.2	MEXICO	2104	87	129	63	0	0	91	83
1	API-5106	MEXICO	2000	84	122	73	20	0	90	60
5	DS-APRO9B X 11012.2	MEXICO	1656	85	122	63	50	50	75	75

GRAND MEAN 2724.9 86.4 126.4 66.6 18.8 14.8 73.7 82.1  
 STANDARD ERROR OF GRAND MEAN 44.1  
 COEFFICIENT OF VARIATION AS PC 16.2  
 LSD VARIETY MEANS 5 PC 622.0

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	SHTR %	POWD %	SCLD %
	0.40						
	0.36	0.77					
	0.03	-0.45	-0.41				
	-0.27	-0.57	-0.55	0.32			
	-0.24	-0.44	-0.51	0.21	0.91		
	-0.35	-0.37	-0.31	0.03	0.18	0.13	
	0.25	-0.16	-0.21	0.08	-0.06	0.04	0.18

1ST EBYT (NAKED) TABLE 10 NORTH AMERICA MEXICO EDO DE MEXICO

ATIZAPAN  
 CIMMYT  
 LATITUDE 019 16'N DATE PLANTED 8/-8/-77 NITROGEN --  
 LONGITUDE 099 51'W DATE HARVESTED 11/-2/-77 PHOSPHORUS --  
 ELEVATION 2640 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM POTASSIUM --

SOWING DATE AND SOIL MOISTURE CONDITION AT SOWING NOT REPORTED.  
 GERMINATION GOOD.  
 WEATHER NOT REPORTED. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.  
 LOCAL CHECK: PAVON 76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	MAT DAYS	STRP RT.H	LEAF RUST	PLNT HT	LODG %	SCLD %
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	3787	115	20MS-MR	20MS-MR	95	25	-
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	3389	120	----	20MS-MR	95	20	10
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3332	128	----	5MR	90	70	-
16	BCO.MR X DS-APRO	MEXICO	3229	115	10MR	60S	115	80	10
9	CM67-APAM X GODIVA	MEXICO	3218	120	----	TMR	95	50	5
2	11012.2 X DS-APRO	MEXICO	3130	120	----	30MS-MR	65	0	10
4	SAHUARO-M66.85	MEXICO	3060	115	30MS-MR	30MS-MR	80	0	-
8	DS-APRO X CR115-POR	MEXICO	3037	120	----	20MS-MR	95	70	-
17	MEZQUITE-CI 3909.2	MEXICO	3021	125	10MS-MR	5MS-MR	95	60	10
3	DWG1-API3 X 5107	MEXICO	2864	110	----	TMR	90	5	10
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2840	125	50MS	TMR	90	60	10
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	2826	120	----	20MS-MR	85	10	5
18	JO-GALT X APAM-IB65	MEXICO	2807	120	----	20MR	100	5	10
19	DWG1-API3 X 5107	MEXICO	2786	115	10MS	10MR	95	50	10
11	SV MONA-EMIR X GODIVA	MEXICO	2781	125	----	40MS-S	90	80	-
13	APAM-ATHENAIS X GODIVA	MEXICO	2770	110	----	10MS	85	80	10
5	DS-APRO9B X 11012.2	MEXICO	2767	125	----	20MR	95	30	10
7	S.PRECOZ(2H) X DS-APRO	MEXICO	2718	115	10MS	20MS-MR	80	50	60
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2716	115	10MS	10MS-MR	90	75	5
6	CM67 X DS-APRO	MEXICO	2656	115	5MS	TMR	75	0	-
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO ***	2542	120	----	10MR	90	40	5
21	SAHUARO-M66.85	MEXICO	2463	120	----	20MR	110	5	10
15	BCO.MR X DS-APRO	MEXICO	2198	115	10MR	40MS-MR	100	75	10
1	API-5106	MEXICO	2065	120	----	30MR	100	0	-
25	LOCAL CHECK		-	-	5MR	TMR	105	30	-

GRAND MEAN 2875.1 119.7 10.4 11.2 92.2 38.8 11.8  
 STANDARD ERROR OF GRAND MEAN 72.9  
 COEFFICIENT OF VARIATION AS PC 24.9  
 LSD VARIETY MEANS 5 PC 1000.2

CORRELATIONS

YIELD KG/HA	MAT DAYS	STRP RT.H	LEAF RUST	PLNT HT	LODG %	SCLD %
	0.00					
	0.15	0.51				
	0.08	-0.24	-0.31			
	-0.09	0.02	-0.29	0.27		
	0.07	0.13	-0.03	0.30	0.23	
	-0.08	-0.29	-0.14	0.06	-0.27	0.07

1ST EBYT (NAKED) TABLE 11 NORTH AMERICA MEXICO EDO DE MEXICO

EL BATAN  
 CIMMYT  
 LATITUDE 019 31'N DATE PLANTED 6 / 2 / 77 NITROGEN --  
 LONGITUDE 098 50'W DATE HARVESTED 10 / 28 / 77 PHOSPHORUS --  
 ELEVATION 2249 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM POTASSIUM --

SOWING DATE AND SOIL MOISTURE CONDITION AT SOWING NOT REPORTED.  
 WEATHER NOT REPORTED.  
 INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
4	SAHUARO-M66.85	MEXICO	4416	54	90	75
13	APAM-ATHENAIIS X GODIVA	MEXICO	3937	57	90	70
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3906	52	85	85
17	MEZQUITE-CI 3909.2	MEXICO	3775	57	85	90
6	CM67 X DS-APRO	MEXICO	3765	61	95	70
18	JO-GALT X APAM-IB65	MEXICO	3682	62	90	100
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3624	62	105	90
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	3531	56	85	95
1	API-5106	MEXICO	3484	65	100	85
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3458	53	85	80
8	DS-APRO X CR115-POR	MEXICO	3458	60	100	85
15	BCO.MR X DS-APRO	MEXICO	3437	60	90	90
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	3322	65	95	80
19	DWGI-API3 X 5107	MEXICO	3307	52	90	90
11	SV MONA-EMIR X GODIVA	MEXICO	3244	63	95	80
5	DS-APRO9B X 11012.2	MEXICO	3229	63	-	80
21	SAHUARO-M66.85	MEXICO	3161	63	100	105
3	DWGI-API3 X 5107	MEXICO	3093	66	105	85
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2942	62	90	95
16	BCO.MR X DS-APRO	MEXICO ***	2890	59	90	90
2	11012.2 X DS-APRO	MEXICO	2656	64	100	55
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	2536	67	90	90
7	S.PRECOZ(2H) X DS-APRO	MEXICO	2526	52	90	65
9	CM67-APAM X GODIVA	MEXICO	2354	61	100	90
25	LOCAL CHECK		-	68	115	90

GRAND MEAN 3322.2 60.2 94.2 84.4  
 STANDARD ERROR OF GRAND MEAN 89.7  
 COEFFICIENT OF VARIATION AS PC 26.5  
 LSD VARIETY MEANS 5 PC 1239.7

CORRELATIONS  
 YIELD KG/HA  
 FLOW DAYS -0.34  
 MAT DAYS -0.23 0.71  
 PLNT HT 0.02 0.16 0.00

1ST EBYT (NAKED) TABLE 12 NORTH AMERICA MEXICO GUANAJUATO

EL BAJIO  
R. URBINA  
LATITUDE 020 32'N DATE PLANTED 12/ 8/77 NITROGEN APPLIED  
LONGITUDE 100 49'W DATE HARVESTED 5/16/78 PHOSPHORUS APPLIED  
ELEVATION 1765 M.ABOVE S.L. AMOUNT OF MOISTURE 1015 MM POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.  
WEATHER NORMAL. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.  
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	POWD %
7	S.PRECOZ(2H) X DS-APRO	MEXICO	5001	78	120	5	80	TR-10
16	BCO.MR X DS-APRO	MEXICO	5400	84	123	0	110	0-5
8	DS-APRO X CR115-POR	MEXICO	5379	78	117	0	105	5-R30
19	DWG1-API3 X 5107	MEXICO	5124	80	125	5	105	0-TR
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	5109	84	120	0	90	0-5
2	11012.2 X DS-APRO	MEXICO	5098	81	130	5	65	0-5
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	5083	78	120	0	90	0-5
17	MEZQUITE-CI 3909.2	MEXICO ***	4895	77	120	0	95	10-R
9	CM67-APAM X GODIVA	MEXICO	4885	80	120	0	100	0-5
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	4848	87	130	0	105	10
6	CM67 X DS-APRO	MEXICO	4791	77	120	0	85	TR-10
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	4635	81	130	5	85	0-TR
13	APAM-ATHENAI X GODIVA	MEXICO	4614	84	118	20	85	0-5
4	SAHUARO-M66.85	MEXICO	4551	76	125	20	70	TR-5
11	SV MONA-EMIR X GODIVA	MEXICO	4484	87	128	10	95	10
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	4458	76	118	0	90	0-5
15	BCO.MR X DS-APRO	MEXICO	4416	82	120	0	95	0-TR
3	DWG1-API3 X 5107	MEXICO	4395	79	115	0	90	0-5
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	3942	78	120	0	95	5-R10
25	LOCAL CHECK		3942	78	119	30	105	0-TR
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	3942	77	119	0	95	0-10
18	JO-GALT X APAM-IB65	MEXICO	3796	77	120	0	115	0-5
21	SAHUARO-M66.85	MEXICO	3567	78	120	0	115	0-5
1	API-5106	MEXICO	3416	77	120	0	100	5-R
5	DS-APRO9B X 11012.2	MEXICO	3338	75	119	10	85	TR-10

17

GRAND MEAN 4556.4 79.6 121.4 94.0  
STANDARD ERROR OF GRAND MEAN 48.2  
COEFFICIENT OF VARIATION AS PC 10.6  
LSD VARIETY MEANS 5 PC 679.4

CORRELATIONS  
YIELD KG/HA  
FLOW DAYS 0.37  
MAT DAYS 0.23 0.52  
PLNT HT -0.24 0.11 -0.22

1ST EBYT (NAKED) TABLE 13 NORTH AMERICA MEXICO JALISCO

ZAPOPAN  
 ESC. AGRIC. BELENES  
 LATITUDE 020 40'N DATE PLANTED 12/ 5/77 NITROGEN APPLIED  
 LONGITUDE DATE HARVESTED ---/--/-- PHOSPHORUS APPLIED  
 ELEVATION 1550 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION POOR.  
 WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.  
 NO INSECT, WEED OR BIRD PROBLEMS.  
 LOCAL CHECK: TEZOPACO

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS
8	DS-APRO X CR115-POR	MEXICO	3572	72
17	MEZQUITE-CI 3909.2	MEXICO	3244	75
11	SV MONA-EMIR X GODIVA	MEXICO	3239	78
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	3145	76
6	CM67 X DS-APRO	MEXICO	3098	78
13	APAM-ATHENAIS X GODIVA	MEXICO	3067	77
3	DWGL-API3 X 5107	MEXICO	3031	72
5	DS-APRO9B X 11012.2	MEXICO	2885	75
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2812	79
19	DWGL-API3 X 5107	MEXICO	2802	71
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2697	78
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	2635	81
2	11012.2 X DS-APRO	MEXICO	2599	78
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2552	76
7	S.PRECOZ(2H) X DS-APRO	MEXICO	2479	75
25	LOCAL CHECK		2474	83
18	JO-GALT X APAM-IB65	MEXICO ***	2427	85
4	SAHUARO-M66.85	MEXICO	2234	82
15	BCO.MR X DS-APRO	MEXICO	2156	80
9	CM67-APAM X GODIVA	MEXICO	1948	80
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1698	75
1	API-5106	MEXICO	1505	78
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	1469	86
16	BCO.MR X DS-APRO	MEXICO	1411	84
21	SAHUARO-M66.85	MEXICO	1401	72

GRAND MEAN 2503.1 77.8  
 STANDARD ERROR OF GRAND MEAN 66.5  
 COEFFICIENT OF VARIATION AS PC 26.6  
 LSD VARIETY MEANS 5 PC 937.7

CORRELATIONS

YIELD KG/HA  
 FLOW DAYS -0.41

## NAVIDAD

F. ELIZONDO ET AL

LATITUDE 25 04'N

DATE PLANTED 1/18/78

NITROGEN APPLIED

LONGITUDE 100 36'W

DATE HARVESTED 7/12/78

PHOSPHORUS APPLIED

ELEVATION 1895 M.ABOVE S.L.

AMOUNT OF MOISTURE 866 MM

POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.

NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
25	LOCAL CHECK		2341	120	151	50
18	JO-GALT X APAM-1B65	MEXICO	1771	124	150	45
21	SAHUARO-M66.85	MEXICO ***	1642	123	155	50
9	CM67-APAM X GODIVA	MEXICO	1625	111	143	45
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1617	109	143	30
13	APAM-ATHENAIIS X GODIVA	MEXICO	1529	123	140	45
6	CM67 X DS-APRO	MEXICO	1475	124	145	50
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1450	124	143	55
7	S.PRECOZ(2H) X DS-APRO	MEXICO	1375	104	145	40
8	DS-APRO X CR115-POR	MEXICO	1346	111	143	50
3	DWG1-API3 X 5107	MEXICO	1342	124	140	45
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1296	124	155	45
24	PRO-TOLI X CER2-TOLI/5106	MEXICO	1271	123	155	55
11	SV MONA-EMIR X GODIVA	MEXICO	1257	109	143	45
2	11012.2 X DS-APRO	MEXICO	1212	123	140	30
12	PRO-TOLI X CER2-TOLI/5106	MEXICO	1142	124	140	50
17	MEZQUITE-CI 3909.2	MEXICO	1096	124	150	45
22	NON-TERN/DS-APRO.2B X OLLI...	MEXICO	975	124	155	45
19	DWG1-API3 X 5107	MEXICO	925	123	152	50
16	BCO.MR X DS-APRO	MEXICO	854	124	155	50
5	DS-APRO9B X 11012.2	MEXICO	846	110	145	45
15	BCO.MR X DS-APRO	MEXICO	783	123	143	35
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	771	109	143	35
1	API-5106	MEXICO	700	120	155	45
4	SAHUARO-M66.85	MEXICO	692	129	155	50

GRAND MEAN 1253.5 119.7 140.6 45.2  
 STANDARD ERROR OF GRAND MEAN 45.6  
 COEFFICIENT OF VARIATION AS PC 36.3  
 LSD VARIETY MEANS 5 PC 642.6

## CORRELATIONS

YIELD KG/HA  
 FLOW DAYS -0.14  
 MAT DAYS -0.15 0.67  
 PLNT HT 0.13 0.39 0.39



BORDENAVE  
 S.GARBINI  
 LATITUDE 037 55'S DATE PLANTED 8/15/77 NITROGEN --  
 LONGITUDE 063 01'W DATE HARVESTED 12/12/77 PHOSPHORUS --  
 ELEVATION 0212 M.ABOVE S.L. AMOUNT OF MOISTURE 236 MM POTASSIUM --

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.  
 WEATHER NORMAL. SOME DISEASE PROBLEMS.  
 LOCAL CHECK: CANUMIL INTA.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	COVD SMUT
25	LOCAL CHECK		2150	68	74	109	20R	73	45
9	CM67-APAM X GODIVA	MEXICO ***	1433	69	80	110	30MS	65	31
11	SV MONA-EMIR X GODIVA	MEXICO	1425	70	76	111	70S	70	35
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1367	69	73	110	60MS	60	34
16	BCO.MR X DS-APRO	MEXICO	1350	67	79	112	80S	71	30
6	CM67 X DS-APRO	MEXICO	1342	70	80	112	20MS	61	30
7	S.PRECOZ(2H) X DS-APRO	MEXICO	1333	71	76	110	50S	55	26
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1333	70	81	114	40MS	75	34
17	MEZQUITE-CI 3909.2	MEXICO	1325	71	78	112	30MR	59	29
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1258	67	74	108	40MS	69	27
4	SAHUARO-M66.85	MEXICO	1242	71	77	110	80MS	64	27
21	SAHUARO-M66.85	MEXICO	1233	69	79	112	80MS	69	32
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1200	66	78	110	20MS	71	29
15	BCO.MR X DS-APRO	MEXICO	1158	66	80	110	70MS	64	27
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1150	62	74	108	50S	58	32
18	JO-GALT X APAM-IB65	MEXICO	1117	65	77	111	80S	68	27
3	DWG1-API3 X 5107	MEXICO	1100	64	76	112	40MR	68	31
13	APAM-ATHENAIIS X GODIVA	MEXICO	1067	66	73	109	40S	64	33
22	MON-TERN/DS-APRO.2B X-OLLI...	MEXICO	1058	74	82	113	80S	61	30
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1042	60	81	111	50S	56	25
5	DS-APRO9B X 11012.2	MEXICO	950	64	79	113	50MS	70	25
19	DWG1-API3 X 5107	MEXICO	917	68	72	111	50MS	64	28
8	DS-APRO X CR115-POR	MEXICO	867	63	81	112	80MS	68	27
1	API-5106	MEXICO	858	68	79	112	20R	64	29
2	11012.2 X DS-APRO	MEXICO	708	61	79	109	90S	44	20
	GRAND MEAN		1199.9	67.2	77.4	110.6	56.5	64.3	29.6
	STANDARD ERROR OF GRAND MEAN		21.0	0.2				0.5	
	COEFFICIENT OF VARIATION AS PC		18.1	2.9				7.2	
	LSD VARIETY MEANS 5 PC		306.9	2.8				6.5	

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	COVD SMUT
	0.44					
	-0.25	0.01				
	-0.18	0.29	0.65			
	-0.41	0.03	0.31	0.25		
	0.41	0.22	-0.02	0.33	-0.24	
	0.01	0.37	-0.36	-0.04	-0.54	0.54

1ST EBYT (NAKED) TABLE 16 SOUTH AMERICA BOLIVIA COCHABAMBA

SAN BENITO  
 G.SALAMANCA ET AL  
 LATITUDE 017 30'S DATE PLANTED 12/29/77 NITROGEN APPLIED  
 LONGITUDE 066 06'W DATE HARVESTED 5/ 2/78 PHOSPHORUS APPLIED  
 ELEVATION 2730 M.ABOVE S.L. AMOUNT OF MOISTURE 437 MM POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD. WEATHER NORMAL.  
 NEGLIGIBLE INSECT DAMAGE. CHEMICAL CONTROL OF WEEDS. NEGLIGIBLE BIRD DAMAGE.  
 LOCAL CHECK: SAN BENITO 76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STEM RUST	PLNT HT	ALT BLT	LEAF FIRE
25	LOCAL CHECK		5311	63	113	5S	112	-	70
8	DS-APRO X CR115-POR	MEXICO	4341	61	113	5S	84	-	61
16	BCO.MR X DS-APRO	MEXICO	4252	61	113	TMS	91	-	89
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	4241	60	112	10S	77	-	89
24	PRO-TOL1 X CER2-TOLL/5106	MEXICO	4211	63	113	TS	84	-	70
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	4097	63	112	5S	79	-	92
12	PRO-TOL1 X CER2-TOLL/5106	MEXICO	3984	62	114	TS	85	100	64
9	CM67-APAM X GODIVA	MEXICO	3965	63	112	5S	84	-	100
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	3848	63	114	10S	80	-	100
17	MEZQUITE-CI 3909.2	MEXICO	3752	62	112	5S	79	-	84
7	S.PRECOZ(2H) X DS-APRO	MEXICO ***	3634	60	113	0	70	-	97
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3583	61	113	10S	86	-	86
19	DWG1-API3 X 5107	MEXICO	3469	61	112	5MR	76	-	97
11	SV MONA-EMIR X GODIVA	MEXICO	3322	63	112	TS	82	-	100
3	DWG1-API3 X 5107	MEXICO	3305	61	113	TS	89	-	72
18	JO-GALT X APAM-IB65	MEXICO	3279	61	114	TS	89	22	84
4	SAHUARO-M66.85	MEXICO	3275	62	113	TMS	72	-	100
21	SAHUARO-M66.85	MEXICO	3140	60	113	5MS	96	22	89
6	CM67 X DS-APRO	MEXICO	3030	69	113	0	79	33	95
13	APAM-ATHENAIIS X GODIVA	MEXICO	2959	61	113	TS	79	-	86
15	BCO.MR X DS-APRO	MEXICO	2732	61	113	TS	74	-	100
2	11012.2 X DS-APRO	MEXICO	2716	63	114	20S	57	-	97
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2490	60	112	30S	75	-	97
5	DS-APRO9B X 11012.2	MEXICO	2248	62	114	0	87	56	86
1	API-5106	MEXICO	1860	62	111	5S	85	-	95
GRAND MEAN			3481.8	62.0	112.8	4.9	82.1	46.6	88.0
STANDARD ERROR OF GRAND MEAN			97.1				0.4		
COEFFICIENT OF VARIATION AS PC			27.9				4.7		
LSD VARIETY MEANS 5 PC			1369.1				5.5		

CORRELATIONS

YIELD	KG/HA								
FLOW	DAYS	0.02							
MAT	DAYS	0.07	0.07						
STEM	RUST	0.13	-0.22	-0.03					
PLNT	HT	0.42	-0.02	0.02	0.04				
ALT	BLT	0.35	-0.09	0.37	-0.13	-0.20			
LEAF	FIRE	-0.48	0.09	-0.30	0.11	-0.52	-0.84		

LA MOLINA

C.LLOSA

LATITUDE 012 05'S

DATE PLANTED 9/ 2/77

NITROGEN --

LONGITUDE 076 57'W

DATE HARVESTED 1/10/78

PHOSPHORUS --

ELEVATION 0251 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM

POTASSIUM --

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.

LOCAL CHECK: PARTICIPACION.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	LODG %
25	LOCAL CHECK		3792	72	-	93	0
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO ***	2325	66	96	63	0
21	SAHUARO-M66.85	MEXICO	2249	63	94	80	5
19	DWG1-API3 X 5107	MEXICO	2071	55	95	70	0
18	JO-GALT X APAM-IB65	MEXICO	1889	65	94	78	0
9	CM67-APAM X GODIVA	MEXICO	1800	65	95	65	20
4	SAHUARO-M66.85	MEXICO	1783	64	95	75	5
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1769	58	96	65	5
11	SV MONA-EMIR X GODIVA	MEXICO	1761	64	94	68	70
24	PRO-TOLI X CER2-TOLI/5106	MEXICO	1639	60	94	75	40
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1625	61	96	78	0
15	BCO.MR X DS-APRO	MEXICO	1613	62	94	65	0
12	PRO-TOLI X CER2-TOLI/5106	MEXICO	1474	59	96	70	35
3	DWG1-API3 X 5107	MEXICO	1353	55	95	68	65
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1209	68	93	60	10
16	BCO.MR X DS-APRO	MEXICO	1140	57	93	63	35
7	S.PRECOZ(2H) X DS-APRO	MEXICO	1130	55	94	60	0
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1118	58	94	65	10
13	APAM-ATHENAS X GODIVA	MEXICO	1095	60	94	65	65
5	DS-APRO9B X 11012.2	MEXICO	1010	61	94	78	10
1	API-5106	MEXICO	917	62	96	70	90
8	DS-APRO X CR115-POR	MEXICO	903	63	94	68	70
2	11012.2 X DS-APRO	MEXICO	765	63	94	48	10
6	CM67 X DS-APRO	MEXICO	699	61	96	75	85
17	MEZQUITE-CI 3909.2	MEXICO	654	63	93	65	45

GRAND MEAN 1511.3 61.5 94.5 69.0 27.0  
 STANDARD ERROR OF GRAND MEAN 33.2 0.8  
 COEFFICIENT OF VARIATION AS PC 22.0 8.1  
 LSD VARIETY MEANS 5 PC 468.6 11.6

## CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	LODG %
	0.46			
	0.20	-0.11		
	0.60	0.32	0.22	
	-0.49	-0.15	0.09	-0.06

Table 18. REGION I. Summary for yield, agronomic and disease data for the 1st EBYT-NAKED.

( Locations: Constantine, ALGERIA . )

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA
5	DS-APRO9B X 11012.2	MEXICO	3674
7	S.PRECOZ(2H) X DS-APRO	MEXICO	3448
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	3420
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3362
25	LOCAL CHECK		3348
15	BCO.MR X DS-APRO	MEXICO	3277
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3220
2	11012.2 X DS-APRO	MEXICO	3165
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	3028
16	BCO.MR X DS-APRO	MEXICO	3025
6	CM67 X DS-APRO	MEXICO	3017
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2945
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2920
1	API-5106	MEXICO	2908
18	JO-GALT X APAM-IB65	MEXICO	2814
19	DWG1-API3 X 5107	MEXICO	2805
8	DS-APRO X CR115-POR	MEXICO	2802
9	CM67-APAM X GODIVA	MEXICO	2734
13	APAM-ATHENAIIS X GODIVA	MEXICO	2720
3	DWG1-API3 X 5107	MEXICO	2714
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	2705
17	MEZQUITE-CI 3909.2	MEXICO	2631
4	SAHUARO-M66.85	MEXICO	2545
21	SAHUARO-M66.85	MEXICO	2525
11	SV MONA-EMIR X GODIVA	MEXICO	2425

SUMMARY MEANS OVER VARIETIES	2967.1
NUMBER OF LOCATIONS FOR EACH VARIABLE	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE	1

Table 19. REGION II. Summary for yield, agronomic and disease data for the 1st EBYT-NAKED.

( Locations: Zaragoza, SPAIN; Alentejo, PORTUGAL . )

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	POWD %	SCLD %	BYDV
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3639	41	132	184	22	88	12	64	0	-
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3506	38	133	185	35	94	23	50	33	6
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	3019	36	134	184	43	86	12	24	78	-
25	LOCAL CHECK		2994	38	143	191	34	96	9	48	78	-
24	PRO-TOLL X CER2-TOLL/5106	MEXICO	2968	33	125	179	68	87	3	54	0	-
8	DS-APRO X CR115-POR	MEXICO	2878	33	127	184	61	87	35	73	56	-
9	CM67-APAM X GODIVA	MEXICO	2871	36	134	183	12	85	16	50	33	6
12	PRO-TOLL X CER2-TOLL/5106	MEXICO	2799	33	125	179	61	89	0	53	22	-
19	DWG1-API3 X 5107	MEXICO	2758	39	123	180	60	91	0	35	67	5
6	CM67 X DS-APRO	MEXICO	2709	41	133	185	8	78	12	56	56	10
11	SV MONA-EMIR X GODIVA	MEXICO	2663	37	132	182	39	96	0	49	67	-
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	2483	35	135	184	37	92	0	65	33	0
16	BCO.MR X DS-APRO	MEXICO	2460	38	132	185	22	101	41	65	89	-
15	BCO.MR X DS-APRO	MEXICO	2459	35	132	184	46	97	38	50	89	-
17	MEZQUITE-CI 3909.2	MEXICO	2443	36	133	183	23	87	0	76	22	5
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	2413	41	136	184	48	97	23	65	44	-
4	SAHUARO-M66.85	MEXICO	2123	33	134	183	53	82	0	49	89	-
13	APAM-ATHENAI X GODIVA	MEXICO	2083	42	125	173	34	83	12	28	67	-
5	DS-APRO9B X 11012.2	MEXICO	1947	34	131	184	46	90	9	56	67	6
3	DWG1-API3 X 5107	MEXICO	1944	35	125	180	7	94	3	35	89	-
18	JO-GALT X APAM-IB65	MEXICO	1925	36	128	179	35	101	12	56	44	0
21	SAHUARO-M66.85	MEXICO	1903	35	127	178	44	104	23	39	67	5
7	S.PRECOZ(2H) X DS-APRO	MEXICO	1885	38	130	184	58	75	12	57	89	-
2	11012.2 X DS-APRO	MEXICO	1648	35	133	186	74	62	0	41	89	5
1	API-5106	MEXICO	896	28	133	182	46	80	12	49	100	5
SUMMARY MEANS OVER VARIETIES			2456.4	36.2	130.7	182.3	40.5	88.7	12.3	51.3	58.7	6.3
NUMBER OF LOCATIONS FOR EACH VARIABLE			2	1	2	2	2	2	1	2	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			8	4	8	8	5	8	4	5	1	4

Table 20. REGION III. Summary for yield, agronomic and disease data for the 1st EBYT-NAKED.

( Locations: Beka'a Valley, LEBANON; Aleppo, SYRIA; Baghdad, IRAQ .)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	POWD %
25	LOCAL CHECK		2520	62	120	150	87	22
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	1842	76	119	151	77	33
13	APAM-ATHENAIIS X GODIVA	MEXICO	1687	77	114	149	76	22
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1554	71	116	151	66	44
9	CM67-APAM X GODIVA	MEXICO	1540	76	118	153	71	11
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	1499	79	121	153	71	0
3	DWG1-API3 X 5107	MEXICO	1487	65	97	152	70	22
4	SAHUARO-M66.85	MEXICO	1438	78	117	153	74	33
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	1413	76	122	155	83	0
7	S.PRECOZ(2H) X DS-APRO	MEXICO	1363	77	115	153	73	33
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1316	64	118	153	68	22
17	MEZQUITE-CI 3909.2	MEXICO	1312	75	119	154	70	44
19	DWG1-API3 X 5107	MEXICO	1254	80	113	151	70	22
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1235	71	115	147	86	22
6	CM67 X DS-APRO	MEXICO	1233	70	116	151	78	11
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	1214	72	113	148	85	22
15	BCO.MR X DS-APRO	MEXICO	1214	67	118	152	77	33
16	BCO.MR X DS-APRO	MEXICO	1194	78	119	152	87	22
11	SV MONA-EMIR X GODIVA	MEXICO	1183	76	118	155	78	44
8	DS-APRO X CR115-POR	MEXICO	1165	78	115	152	76	11
18	JO-GALT X APAM-IB65	MEXICO	995	76	113	152	76	11
5	DS-APRO9B X 11012.2	MEXICO	969	61	113	152	81	33
1	API-5106	MEXICO	857	78	116	151	74	22
2	11012.2 X DS-APRO	MEXICO	857	75	120	154	61	33
21	SAHUARO-M66.85	MEXICO	685	72	115	150	76	11
SUMMARY MEANS OVER VARIETIES			1321.0	73.2	116.0	151.7	75.7	23.3
NUMBER OF LOCATIONS FOR EACH VARIABLE			3	1	3	3	2	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			12	1	7	7	5	1

Table 21. REGION IV. Summary for yield, agronomic and disease data for the 1st EBYT-NAKED.

( Locations: Atizapan y el Batan, MEXICO; Baja California, MEXICO; Guanajuato, MEXICO; Jalisco, MEXICO; Nuevo León, MEXICO.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT.H	LEAF RUST	PLNT HT	LODG %	SHTR %	POWD %	SCLD %
8	DS-APRO X CR115-POR	MEXICO	3240	81	121	-	12	81	65	50	100	80
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3200	80	120	-	4	73	20	0	88	53
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3129	89	128	-	2	82	35	0	83	90
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	3124	81	120	40	0	72	30	0	51	10
13	APAM-ATHENAIIS X GODIVA	MEXICO	3108	85	118	-	8	71	75	50	85	10
6	CM67 X DS-APRO	MEXICO	3077	85	121	4	0	69	15	10	89	90
11	SV MONA-EMIR X GODIVA	MEXICO	3051	85	125	-	36	75	40	0	70	70
17	MEZQUITE-CI 3909.2	MEXICO	3023	84	122	6	3	78	30	0	91	47
7	S.PRECOZ(2H) X DS-APRO	MEXICO	3001	79	119	8	12	65	30	30	80	75
4	SAHUARO-M66.85	MEXICO	2938	86	123	18	18	68	0	0	78	60
19	DWG1-API3 X 5107	MEXICO	2935	81	121	8	4	83	50	30	56	10
3	DWG1-API3 X 5107	MEXICO	2930	85	122	-	0	76	8	0	80	10
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2871	83	118	8	6	80	38	0	85	50
9	CM67-APAM X GODIVA	MEXICO	2840	84	121	-	0	79	55	50	63	43
25	LOCAL CHECK		2835	87	127	2	0	84	15	0	60	-
18	JO-GALT X APAM-IB65	MEXICO	2831	87	121	-	8	87	23	25	80	10
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	2815	88	123	-	12	78	15	5	63	25
2	11012.2 X DS-APRO	MEXICO	2805	87	125	-	18	52	0	0	86	40
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2792	85	120	12	12	82	13	0	70	100
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	2783	89	127	-	12	71	5	0	3	5
16	BCO.MR X DS-APRO	MEXICO	2763	88	122	4	60	86	40	0	68	43
15	BCO.MR X DS-APRO	MEXICO	2556	87	119	4	24	76	48	20	80	10
5	DS-APRO9B X 11012.2	MEXICO	2454	82	128	-	8	74	40	50	75	43
21	SAHUARO-M66.85	MEXICO	2431	84	124	-	8	92	23	50	70	10
1	API-5106	MEXICO	2196	86	123	-	12	81	10	0	90	60
SUMMARY MEANS OVER VARIETIES			2869.0	84.8	122.4	10.4	11.2	76.5	28.8	14.8	73.8	43.4
NUMBER OF LOCATIONS FOR EACH VARIABLE			6	5	5	1	1	5	2	1	1	2
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			24	11	8	1	1	8	2	1	4	5

Table 24. REGION VII. Summary for yield, agronomic and disease data for the 1st EBYT-NAKED.

( Location: Fukuoka, JAPAN. )

VAR NO.	VARIETY OR CROSS	ORIGIN	FLOW DAYS	PLMT HT	LODG %
1	API-5186	MEXICO	81	74	58
2	11012.2 X DS-APRO	MEXICO	84	52	55
3	DWGI-API3 X 5187	MEXICO	79	76	55
4	SAHUARO-M66.85	MEXICO	83	71	75
5	DS-APRO9B X 11012.2	MEXICO	76	75	100
6	CM67 X DS-APRO	MEXICO	80	72	100
7	S.PRECOZ(2H) X DS-APRO	MEXICO	77	59	100
8	DS-APRO X CR115-POR	MEXICO	82	69	100
9	CM67-APAM X GODIVA	MEXICO	83	67	85
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	82	73	95
11	SV MONA-EMIR X GODIVA	MEXICO	80	64	65
12	PRO-TOL1 X CER2-TOL1/5186	MEXICO	82	68	100
13	APAM-ATHENAIIS X GODIVA	MEXICO	81	63	100
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	82	67	100
15	BCO.MR X DS-APRO	MEXICO	82	64	100
16	BCO.MR X DS-APRO	MEXICO	81	75	95
17	MEZQUITE-CI 3909.2	MEXICO	83	61	90
18	JO-GALT X APAM-IB65	MEXICO	81	79	85
19	DWGI-API3 X 5187	MEXICO	78	72	78
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	80	67	78
21	SAHUARO-M66.85	MEXICO	81	82	40
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	87	63	50
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	81	65	10
24	PRO-TOL1 X CER2-TOL1/5186	MEXICO	81	64	15
25	LOCAL CHECK		-	-	-
SUMMARY MEANS OVER VARIETIES			81.1	68.4	75.2
NUMBER OF LOCATIONS FOR EACH VARIABLE			1	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			2	2	2



Table 25. REGION VIII. Summary for yield, agronomic and disease data for the 1st EBYT-NAKED.

( Location: Kathmandu, NEPAL . )

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT
15	BCO.MR X DS-APRO	MEXICO	3545	28	112	169	82
17	MEZQUITE-CI 3909.2	MEXICO	3381	35	103	168	58
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	3334	39	112	170	76
11	SV MONA-EMIR X GODIVA	MEXICO	3114	40	105	169	70
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	2976	28	112	169	84
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	2903	30	113	169	65
8	DS-APRO X CR115-POR	MEXICO	2889	28	104	171	71
25	LOCAL CHECK		2878	35	85	160	93
7	S.PRECOZ(2H) X DS-APRO	MEXICO	2734	26	103	168	64
3	DWGL-API3 X 5107	MEXICO	2598	37	100	169	79
5	DS-APRO9B X 11012.2	MEXICO	2575	30	105	171	77
1	API-5106	MEXICO	2560	29	101	170	63
18	JO-GALT X APAM-IB65	MEXICO	2540	29	100	164	75
19	DWGL-API3 X 5107	MEXICO	2530	24	96	164	62
24	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2455	29	90	160	69
12	PRO-TOL1 X CER2-TOL1/5106	MEXICO	2435	28	94	160	66
21	SAHUARO-M66.85	MEXICO	2295	32	101	166	81
2	11012.2 X DS-APRO	MEXICO	2231	23	106	168	48
13	APAM-ATHENAIIS X GODIVA	MEXICO	2169	36	103	166	73
6	CM67 X DS-APRO	MEXICO	2116	33	114	169	71
9	CM67-APAM X GODIVA	MEXICO	1989	31	123	170	61
16	BCO.MR X DS-APRO	MEXICO	1725	18	107	165	81
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1534	29	109	166	64
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	1321	28	112	168	51
4	SAHUARO-M66.85	MEXICO	1133	25	107	169	66
SUMMARY MEANS OVER VARIETIES			2478.4	30.0	104.7	167.1	70.0
NUMBER OF LOCATIONS FOR EACH VARIABLE			1	1	1	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			4	1	1	1	1

Table 26.

## MEAN OVER ALL LOCATIONS FOR YIELD, AGRONOMIC AND DISEASE DATA FOR THE 1ST. EBYT-NAKED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.H	LEAF RUST	STEM RUST	PLNT HT	LODG %	SHTR %	POWD %	COVD SMUT	ALT BLT	LEAF FIRE	SCLD %	BYDV %
25	LOCAL CHECK		3026	51	98	144	2	19	14	89	10	0	44	45	-	74	-	-
23	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2645	53	93	136	-	25	14	72	14	0	65	34	-	45	53	-
10	(SHT.WOCUS-APRO X WOODVALE...	MEXICO	2567	57	99	139	-	40	13	83	38	0	53	34	-	65	90	-
8	DS-APRO X CR115-POR	MEXICO	2531	51	93	137	-	52	2	78	67	50	64	27	-	59	80	-
14	APAM-11012.2 X NEPAL CI. 593	MEXICO	2508	50	98	137	-	36	2	77	28	5	57	25	-	63	25	8
22	MON-TERN/DS-APRO.2B X OLLI...	MEXICO	2504	55	99	140	-	45	11	72	14	0	13	30	-	89	5	-
20	CM67-PRO/BCO.MR X DS-APRO	MEXICO	2478	48	94	137	40	29	20	72	32	0	43	32	-	65	10	6
9	CM67-APAM X GODIVA	MEXICO	2458	53	97	137	-	13	6	75	46	50	44	31	-	67	43	6
11	SV MONA-ENIR X GODIVA	MEXICO	2452	56	95	139	-	48	1	77	43	0	53	35	-	84	70	-
24	PRO-TOLI X CER2-TOLI/5106	MEXICO	2437	50	92	134	12	42	1	80	17	0	50	27	-	35	100	-
17	MEZQUITE-CI 1989.2	MEXICO	2419	54	95	137	6	25	2	73	39	0	72	29	-	53	47	5
19	DWGI-API3 X 5107	MEXICO	2417	53	90	136	8	43	2	78	34	30	37	28	-	82	10	5
12	PRO-TOLI X CER2-TOLI/5106	MEXICO	2407	50	92	134	8	33	2	79	42	0	53	29	100	43	50	-
7	S.PRECQI(2H) X DS-APRO	MEXICO	2384	53	92	136	8	49	0	66	34	30	57	26	-	93	75	-
13	APAM-ETHEMAIS X GODIVA	MEXICO	2368	55	93	133	-	28	4	73	65	50	41	33	-	77	10	-
6	CM67 X DS-APRO	MEXICO	2361	54	96	137	4	13	0	72	45	10	53	30	33	76	90	10
3	DWGI-API3 X 5107	MEXICO	2313	50	89	137	-	13	1	78	28	0	43	31	-	81	10	-
16	BCO.MR X DS-APRO	MEXICO	2286	50	96	137	4	47	2	85	50	0	55	30	-	89	43	-
15	BCO.MR X DS-APRO	MEXICO	2264	49	97	136	4	45	7	77	47	20	53	27	-	95	10	-
4	SAHUARO-M66.85	MEXICO	2260	52	96	138	10	52	1	71	16	0	52	27	-	95	60	-
18	JO-GALT X APAM-1865	MEXICO	2216	52	94	136	-	36	7	84	28	25	51	27	22	64	10	8
2	11012.2 X DS-APRO	MEXICO	2018	49	97	139	-	64	8	54	13	0	50	20	-	93	40	5
5	DS-APRO9B X 11012.2	MEXICO	1999	47	93	140	-	40	0	78	40	50	55	25	56	77	43	6
21	SAHUARO-M66.85	MEXICO	1993	52	94	137	-	40	1	88	23	50	40	32	22	78	10	5
1	API-5106	MEXICO	1665	51	95	137	-	25	2	76	34	0	52	29	-	98	60	5
SUMMARY MEANS OVER VARIETIES			2359.0	51.7	94.7	137.1	10.4	36.1	4.9	76.2	33.9	14.8	49.9	29.7	46.6	73.4	43.4	6.3
NUMBER OF LOCATIONS FOR EACH VARIABLE			16	4	15	14	1	4	1	14	5	1	4	1	1	2	2	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			61	10	40	34	1	10	4	34	10	1	10	4	1	5	5	4



