

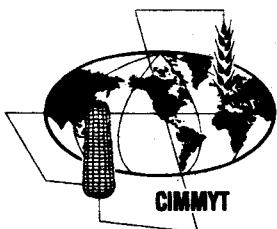
**RESULTS
OF
THE FIRST
ELITE
SELECTION
WHEAT YIELD
TRIAL**

ESWYT 1979-80



CENTRO INTERNACIONAL DE MEJORAMIENTO DE MAIZ Y TRIGO
INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER
Londres 40 Apartado Postal 6-641 México 6, D.F., México

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(ESWYT) 1979-80**



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**GLOSSARY OF VARIABLE NAMES USED IN THE TABLES.
GLOSARIO DE LOS NOMBRES DE LAS 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 (échelle 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)	Rayée bacterienne (échelle 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 (échelle 0-9)
COVD SMUT	Covered smut percentage	Porcentaje de carbón cubierto	Charbon couvert en pourcentage
EARS/M ²	Ears per square meter	Espigas o mazorcas por metro cuadrado	Epis par mètre ²
FALL NO	Falling number (seconds)	Actividad alfa amilasa (segundos)	Activité du α amylase (en secondes)
FERT %/o	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 NIV	Fusarium nivale spot	Mancha foliar (Fusarium nivale)	Tache de la feuille (Fusarium nivale)
FUS WILT	Fusarium wilt percentage	Porcentaje de marchitez por Fusarium	Fusarium en pourcentage
GERM %/o	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 (échelle 0-9)
HELM TERES	Leaf spot Helminthosporium teres	Mancha foliar (Helminthosporium teres)	Tache de la feuille (Helminthosporium teres)
KERN APP	Kernel appearance	Apariencia del grano	Apparence du grain
LEAF FIRE	Leaf fire (0-9 scale)	Tizón foliar (escala 0-9)	Sécheresse des feuilles (échelle 0-9)
LEAF RUST	Leaf rust (Cobb scale)	Roya de la hoja (escala de Cobb)	Rouille brune (échelle de Cobb)
LEAF RUST/P. HORDEI	Barley leaf rust (Puccinia hordei)	Roya de la hoja (cebada)	Rouille brune de l'orge
LODG %/o	Lodging percentage	Porcentaje de acame	Versé 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 à la maturation
MST %/o	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 (échelle 0-9)
PLNT DENS	Plant density (stems/square meter)	Densidad de plantas (tallos/metro cuadrado)	Population des plantes (tiges/mètre ²)
PLNT HT	Height (cm)	Altura (cm)	Hauteur (cm)
PLNT WT	Plant weight (grams)	Peso de la planta (gramos)	Poids de la plante (grames)
POWD %/o	Powdery mildew percentage	Porcentaje de mildiú polvoriento	Oidium en pourcentage
PROT %/o	Protein percentage	Porcentaje de proteína	Protein en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Putréfaction du maïs en pourcentage
SCAB %/o	Scab percentage	Porcentaje de roña	Fusarium de l'épi en pourcentage
SCLD %/o	Scald percentage	Porcentaje de escaldadura	Rhynchosporium en pourcentage
SDMT INDX	Sedimentation index (cc)	Índice 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 (échelle 0-9)
SEPT SPP.	Septoria spp. (0-9 scale)	Septoria spp. (escala 0-9)	Septoria spp. (échelle 0-9)
SEPT TRIT	Septoria tritici (0-9 scale)	Septoria tritici (escala 0-9)	Septoria tritici (échelle 0-9)
SHTR %/o	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 feuille (échelle 0-9)
SPOT BLOTCH/HELM SATV	Spot blotch (0-9 scale)	Tizón de la hoja (escala 0-9)	Tache de la feuille (échelle 0-9)
STEM RUST	Stem rust (Cobb scale)	Roya del tallo (escala de Cobb)	Rouille noire (échelle de Cobb)
STRP RT.H	Stripe rust (head) percentage	Porcentaje de roya lineal (espiga)	Rouille jaune sur l'épi en pourcentage
STRP RT. L	Stripe rust (leaf) (Cobb scale)	Roya lineal (hoja) (escala de Cobb)	Rouille jaune sur feuilles (échelle de Cobb)
TEST WT	Test weight (kg/hl)	Peso hectolítrico (kg/hl)	Poids spécifique (kg/hl)
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 1ST. ELITE SELECTION WHEAT YIELD TRIAL (ESWYT) 1979-80

The first Elite Selection Wheat Yield Trial (ESWYT) was sent in 1979-80, to be grown by cooperators in their spring season of 1980. Thirty nurseries went to cooperators in 21 countries. The 30 advanced lines and varieties included in the nursery had been chosen from among CIMMYT's best materials. All had been grown and observed under a high yield environment with pressure from major diseases on the CIANO Experiment Station in the Yaqui Valley in northwest Mexico. The selected lines thus comprised a collection of the world's best lines or varieties, which cooperators could compare under the specific conditions of their own sites. Seed for this international nursery was multiplied in plots on the CIANO Experiment Station, and the seed was cleaned and treated with insecticide and organic fungicide before shipment.

Instructions accompanied the mailing of seed to each cooperator; the plot sizes, replications and similar procedures were specified. It is recommended that each plot should consist of six 3.0 m rows planted 30 cm apart and that each line should be grown in three replications. However, plot configuration may differ to conform to local equipment. A field book accompanied each nursery set, providing a format for recording data desired by CIMMYT.

Sixteen of the cooperators receiving the 1st. ESWYT returned field books reporting performance at their location in time to be included in this report. In receiving and processing the data, CIMMYT assumes that instructions were carried out and that accurate results were reported. We cannot, however, attest to the rigor with which the trials were grown and results were obtained.

The choice of variables measured and the data returned rests with the individual cooperator. We have included in the summary table all measures of all variables reported to us. Some variables are presented for which a limited number of observations were made. The user of these tables should be aware of the importance of the number of locations and the number of observations in interpreting data on a given variable; the summary table for international results specifies both for the guidance of the reader.

Presentation of Results

So that data in this report will be of optimal use to the reader, we present the results in two forms:

1. All data provided from *each trial site* are reported in a single table for that site. Each reports latitude and longitude coordinates as supplied by the cooperator. With these points, the reader can determine an exact location and, if desired, relate to it environmental data from other sources.
2. *Two international summaries* presenting (a) the variables for which data were reported, by trial site, and (b) the means computed for all sites.

Statistical coefficients^{1/} accompany the trial site data to assist the reader in evaluating and interpreting the data. While we assume accuracy in the data supplied to us, we encourage users of this report to approach specific elements with the reasonable skepticism of their own standard of proof.

Feedback

Feedback of two kinds from cooperators is vital to the quality of this and other CIMMYT international nursery reports: First, the prompt return of carefully recorded data from each and every trial site; second, identification of errors that become part of our cooperators' station files—location coordinates, etc. We ask for feedback of both kinds.

^{1/} Details of the statistical analyses (by a computer program called NAP) may be obtained from the Computer Services unit at CIMMYT. The procedure was described in CIMMYT Information Bulletin 40, 13th IBWSN for 1976-77.

1st. ELITE SELECTION WHEAT YIELD TRIAL, (ESWYT 1979-80)

VARIETY OR CROSS AND PEDIGREE		ORIGIN	
1	Vulture "S"	CM36064-A-1M-1Y-OM	MEXICO
2	Towhee "S"	CM34709-G-15M-3Y-OM	MEXICO
3	Nacozari 76		MEXICO
4	Veery "S"	CM33027-F-3M-1Y-OM	MEXICO
5	Pewee "S"	CM31630-I-1Y-2M-5Y-OM	MEXICO
6	Pewee "S"	CM31630-I-1Y-2M-4Y-OM	MEXICO
7	Warbler "S"	CM39814-500M-502Y-OM	MEXICO
8	Dove "S"	CM38199-L-11Y-1M-1Y-OM	MEXICO
9	Drongo "S"	CM37756-A-7Y-3M-1Y-OM	MEXICO
10	Minivet "S"	CM37705-C-1Y-4M-0Y	MEXICO
11	Jup 73-Zp"S"xCoc75	CM37614-B-14Y-4M-3Y-OM	MEXICO
12	Thrush "S"	CM34742-E-2M-8Y-2M-1Y-OM	MEXICO
13	Yavaros C 79 (durum)		MEXICO
14	Sunbird "S"	CM34630-D-5M-2Y-3M-3Y-OM	MEXICO
15	Sunbird "S"	CM34630-D-5M-2Y-1M-1Y-OM	MEXICO
16	Koel "S"	CM34574-F-1M-5Y-1M-1Y-OM	MEXICO
17	Junco "S"	CM33483-H-3M-1Y-1M-3Y-OM	MEXICO
18	Swift "S"	CM33232-C-5M-1Y-10M-0Y	MEXICO
19	Local Check		MEXICO
20	Veery "S"	CM33027-F-12M-1Y-6M-0Y	MEXICO
21	Veery "S"	CM33027-F-12M-1Y-4M-0Y	MEXICO
22	Buck Buck "S"	CM31678-R-4Y-7M-1Y-2M-1Y-OB	MEXICO
23	Pavon 76		MEXICO
24	Buck Buck "S"	CM31678-R-4Y-2M-15Y-2M-1Y-OB	MEXICO
25	Buck Buck "S"	CM31678-R-4Y-2M-15Y-OM	MEXICO
26	Buteo "S"	CM31070-Y-1Y-3M-2Y-1M-2Y-OB	MEXICO
27	Grouse "S"	CM30986-I-1Y-1M-1Y-1M-1Y-OB	MEXICO
28	Car422-Anahuac	SWM4610-2Y-20M-1Y-OM	MEXICO
29	Myna "S"	SWM4589-7Y-18M-1Y-OM	MEXICO
30	Myna "S"	SWM 4589-7Y-1M-3Y-OM	MEXICO

SUMMARY FOR ALL LOCATIONS

1ST ELITE SPRING WHEAT YIELD TRIAL

LOCATIONS INCLUDED IN THIS NURSERY REPORT

TABLE	CONTINENT	COUNTRY	CITY	VARIABLES INCLUDED*																
1	AFRICA	KENYA	RIFT VALLEY	1	2	5														
2	AFRICA	RHODESIA	SALISBURY	1	3	4	9													
3	ASIA	BANGLADESH	JOYDEBPUR	1	3	4	9	41												
4	ASIA	INDIA	UTTAR PRADESH	1	3	7	9	13												
5	ASIA	NEPAL	CHITWAN	1	3	4	7	13												
6	ASIA	PAKISTAN	PUNJAB	1	3	4	5	7	9	10										
7	EUROPE	SPAIN	CADIZ	1	3	4	9	13												
8	EUROPE	SPAIN	SEVILLA	1	2	3	4	9	10	11	13	14	15							
9	EUROPE	TURKEY	IZMIR	1																
10	MIDDLE EAST	ISRAEL	R.D.SDE-GAT	1	2	3	9	13	15											
11	MIDDLE EAST	SYRIA	ALEPPO	1	3	4														
12	NORTH AMERICA	MEXICO	SONORA	1	3	4	7	9												
13	NORTH AMERICA	U.S.A.	CALIFORNIA	1	2	3	4	9	11	13	15									
14	NORTH AMERICA	U.S.A.	MONTANA	1	2	9														
15	OCEANIA	NEW ZEALAND	MANAWATU	1	3	9	11													
16	SOUTH AMERICA	CHILE	SANTIAGO	1	2	3	5	7	8	9	40									
**17	SOUTH AMERICA	PERU	LIMA	1	2	3	4	7	9											

*VARIABLE IDENTIFICATIONS

1	YIELD KG/HA	2	TEST WT	3	FLOW DAYS	4	MAT DAYS	5	STRP	RT.L	7	LEAF RUST
8	STEM RUST	9	PLNT HT	10	LODG %	11	SHTR %	13	1000	G.W.	14	LEAF POWD %
15	SEPT TRIT	40	BYDV	41	HELM							

** SITE NOT INCLUDED IN SUMMARY

SUMMARY FOR ALL LOCATIONS: Yield, Agronomic and disease data for 1st. Elite Spring Wheat Yield Trial(ESWYT)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	STEM RUST	PLNT HT	LODG %	SHTR %	1000 G.W.	POWD %	SEPT TRIT	BYDV	HELM
21	VEERY "S"	MEXICO	5965	78	100	150	0	0	0	93	25	0	36	29	30	20	44
20	VEERY "S"	MEXICO	5913	78	100	150	0	3	1	93	51	1	36	18	36	23	44
3	NACUZARI 76	MEXICO	5836	77	94	147	10	40	5	92	2	1	41	89	61	40	56
28	CAR422-ANAHUAC	MEXICO	5597	75	100	151	2	0	-20	89	25	1	38	59	52	47	56
23	PAVON 76	MEXICO	5522	78	97	150	16	0	20	97	26	19	37	74	42	20	56
19	LOCAL CHECK		5504	76	93	148	6	41	10	89	50	1	42	85	52	20	44
4	VEERY "S"	MEXICO	5419	77	95	146	1	0	0	62	0	0	41	33	77	30	56
8	DOVE "S"	MEXICO	5409	77	101	151	0	6	1	95	1	2	39	74	26	43	56
13	YAVAROS C 79 (DURUM)	MEXICO	5379	79	98	152	3	2	5	85	26	0	53	63	0	23	44
29	MYNA "S"	MEXICO	5368	77	96	151	14	2	50	93	26	0	39	63	36	47	56
17	JUNCO "S"	MEXICO	5336	76	95	149	6	0	5	97	29	5	41	44	26	43	60
15	SUNBIRD "S"	MEXICO	5300	77	101	153	0	0	5	88	25	0	45	15	19	63	56
9	DRONGO "S"	MEXICO	5227	78	93	152	8	2	10	94	28	2	42	48	34	40	44
2	TOWHEE "S"	MEXICO	5183	77	96	151	0	0	16	100	3	13	35	48	25	67	56
24	BUCK BUCK "S"	MEXICO	5167	77	96	151	34	20	40	92	1	7	37	41	39	37	56
25	BUCK BUCK "S"	MEXICO	5159	76	96	142	22	15	40	90	26	8	35	52	48	43	56
22	BUCK BUCK "S"	MEXICO	5112	77	93	149	22	9	10	98	26	8	38	60	32	20	56
12	THRUSH "S"	MEXICO	5106	75	98	152	18	1	60	96	25	1	37	52	43	63	56
11	JUP 73-ZP"S" X COC75	MEXICO	5099	78	101	152	22	10	20	90	1	2	39	60	42	43	60
14	SUNBIRD "S"	MEXICO	5077	77	100	153	0	0	10	89	25	0	47	18	21	67	63
5	PEWEE "S"	MEXICO	5043	76	93	149	3	1	1	73	0	1	46	48	52	43	56
30	MYNA "S"	MEXICO	4945	76	100	153	8	1	10	84	0	0	40	74	37	40	41
27	GROUSE "S"	MEXICO	4919	77	100	152	13	2	20	100	52	3	36	74	35	63	56
1	VULTURE "S"	MEXICO	4916	72	97	150	15	1	20	69	0	0	40	63	42	33	56
7	WARBLER "S"	MEXICO	4909	76	97	151	14	22	0	101	27	18	45	63	42	27	56
18	SWIFT "S"	MEXICO	4893	77	98	150	0	11	5	100	29	7	39	56	25	77	56
6	PEWEE "S"	MEXICO	4872	75	94	150	2	4	0	74	0	1	43	56	62	47	60
26	BUTEO "S"	MEXICO	4853	77	91	147	3	0	5	99	30	2	43	44	33	50	56
10	MINIVET "S"	MEXICO	4808	78	93	145	33	1	1	91	2	4	41	82	51	60	56
16	KOEL "S"	MEXICO	4798	76	98	152	0	0	5	91	1	13	42	71	30	53	52
SUMMARY MEANS OVER VARIETIES			5221.1	76.6	96.8	150.0	9.2	6.6	13.2	90.1	18.6	3.9	40.3	55.2	38.2	43.1	54.0
NUMBER OF LOCATIONS FOR EACH VARIABLE			16	6	13	9	3	5	1	12	2	3	6	1	3	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			48	12	29	21	5	6	1	29	4	5	12	3	9	3	3

1TH ESWYT

TABLE 1 AFRICA

KENYA

RIFT VALLEY

NJORO

NATIONAL P.B.S.

LATITUDE	000 00'S	DATE PLANTED	5/15/80	NITROGEN	--
LONGITUDE	036 00'E	DATE HARVESTED	10/ 8/80	PHOSPHORUS	--
ELEVATION	2165 M.ABOVE S.L.	AMOUNT OF MOISTURE	240 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 MODERATE DISEASE INCIDENCE. SERIOUS INSECT DAMAGE. SLIGHT WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. HAND WEEDING. CHEMICAL CONTROL OF WEEDS.
 CHEMICAL CONTROL OF INSECTS. LOCAL CHECK: K.NYAGUMI

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	STRP RT.L
16	KOEL "S"	MEXICO	3944	79	0
8	DOVE "S"	MEXICO	3805	82	0
23	PAVON 76	MEXICO	3616	80	15S
6	PEWEE "S"	MEXICO	3616	75	5S
15	SUNBIRD "S"	MEXICO	3600	81	0
24	BUCK BUCK "S"	MEXICO	3577	79	TS
9	DRONGO "S"	MEXICO	3572	81	10S
25	BUCK BUCK "S"	MEXICO	3511	77	0
26	BUTEO "S"	MEXICO	3483	80	TS
22	BUCK BUCK "S"	MEXICO	3439	80	0
2	TOWHEE "S"	MEXICO	3405	79	0
5	PEWEE "S"	MEXICO	3400	77	TS
3	NACCOZARI 76	MEXICO	3361	76	20S
7	WARBLER "S"	MEXICO	3277	78	15S
29	MYNA "S"	MEXICO	3277	80	30S
12	THRUSH "S"	MEXICO	3272	75	50S
21	VEERY "S"	MEXICO	3244	81	0
13	YAVAROS C 79 (DURUM)	MEXICO	3166	83	5MR
11	JUP 73-ZP"S" X COC75	MEXICO	3166	82	TMR
4	VEERY "S"	MEXICO	3116	77	TMS
17	JUNCO "S"	MEXICO	3094	76	5S
14	SUNBIRD "S"	MEXICO	3022	81	0
18	SWIFT "S"	MEXICO	3016	78	TMS
20	VEERY "S"	MEXICO	2950	81	TMS
19	LOCAL CHECK		2744	78	10S
27	GROUSE "S"	MEXICO	2605	80	10MS
28	CAR422-ANAHUAC	MEXICO	2578	77	5MS
10	MINIVET "S"	MEXICO	2511	76	40S
1	VULTURE "S"	MEXICO	2466	68	10S
30	MYNA "S"	MEXICO	1916	79	20S

GRAND MEAN	3191.7	78.5	10.4
STANDARD ERROR OF GRAND MEAN	52.9	0.1	
COEFFICIENT OF VARIATION AS PC	15.7	1.8	
LSD VARIETY MEANS 5 PC	820.3	2.3	

CORRELATIONS

YIELD KG/HA		
TEST WT	0.31	
STRP RT.L	-0.36	-0.44

1TH ESWYT

TABLE 2 AFRICA

RHODESIA

SALISBURY

GWEBI

C.J.J.BADENHORST ET AL

LATITUDE 017 48'S

DATE PLANTED 5/13/80

LONGITUDE 031 15'E

DATE HARVESTED 11/ 3/80

ELEVATION 1486 M.ABOVE S.L.

AMOUNT OF MOISTURE 70 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE.
NO WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.
HAND WEEDING. LOCAL CHECK: GWEBI

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
12	THRUSH "S"	MEXICO	7910	84	134	108
9	DRONGO "S"	MEXICO	7807	78	131	105
3	NACAZARI 76	MEXICO	7777	79	129	100
21	VEERY "S"	MEXICO	7703	88	131	110
28	CAR422-ANAHUAC	MEXICO	7510	89	135	102
20	VEERY "S"	MEXICO	7333	89	133	112
8	DOVE "S"	MEXICO	7244	86	134	108
29	MYNA "S"	MEXICO	7192	81	133	108
4	VEERY "S"	MEXICO	7170	82	129	75
23	PAVON 76	MEXICO	7036	80	131	108
10	MINIVET "S"	MEXICO	6977	76	130	110
15	SUNBIRD "S"	MEXICO	6888	91	136	105
17	JUNCO "S"	MEXICO	6777	76	129	112
25	BUCK BUCK "S"	MEXICO	6696	82	133	102
1	VULTURE "S"	MEXICO	6533	86	138	82
30	MYNA "S"	MEXICO	6459	91	141	98
11	JUP 73-2P"S" X COC75	MEXICO	6429	88	133	105
14	SUNBIRD "S"	MEXICO	6340	83	134	103
7	WARBLER "S"	MEXICO	6310	77	130	120
5	PEWEE "S"	MEXICO	6310	76	130	85
13	YAVAROS C 79 (DURUM)	MEXICO	6022	75	132	102
22	BUCK BUCK "S"	MEXICO	5999	76	130	117
19	LOCAL CHECK		5955	72	129	83
2	TOWHEE "S"	MEXICO	5866	84	133	112
18	SWIFT "S"	MEXICO	5777	84	130	115
27	GROUSE "S"	MEXICO	5407	90	137	118
26	BUTEO "S"	MEXICO	5348	78	131	117
6	PEWEE "S"	MEXICO	5229	81	133	85
24	BUCK BUCK "S"	MEXICO	5177	81	132	103
16	KOEL "S"	MEXICO	4992	85	133	105

GRAND MEAN 6539.1 82.3 132.5 103.8
STANDARD ERROR OF GRAND MEAN 118.7 0.6
COEFFICIENT OF VARIATION AS PC 17.2 5.4
LSD VARIETY MEANS 5 PC 1840.3 9.2

CORRELATIONS

YIELD KG/HA
FLOW DAYS 0.14
MAT DAYS -0.06 0.76
PLNT HT -0.02 0.11 -0.04

1TH ESWYT

TABLE 3 ASIA

BANGLADESH

JOYDEBPUR

JOYDEBPUR

CEREAL STAFF

LATITUDE 023 46'N

DATE PLANTED 11/21/79

NITROGEN APPLIED

LONGITUDE 090 23'E

DATE HARVESTED 4/12/80

PHOSPHORUS APPLIED

ELEVATION 8 M. ABOVE S.L.

AMOUNT OF MOISTURE 484 MM

POTASSIUM APPLIED

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

SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.

WEATHER NORMAL. LOCAL CHECK JUPATECO.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	HELM
21	VEERY "S"	MEXICO	3441	80	120	89	44
2	TOWHEE "S"	MEXICO	3377	58	115	91	56
22	BUCK BUCK "S"	MEXICO	3340	56	109	82	56
23	PAVON 76	MEXICO	3333	69	116	93	56
24	BUCK BUCK "S"	MEXICO	3273	62	114	89	56
3	NACOZARI 76	MEXICO	3205	57	108	78	56
29	MYNA "S"	MEXICO	3185	61	114	85	56
27	GROUSE "S"	MEXICO	3130	70	117	95	56
15	SUNBIRD "S"	MEXICO	3107	78	120	90	56
8	DOVE "S"	MEXICO	3102	72	116	90	56
20	VEERY "S"	MEXICO	3038	79	119	90	44
4	VEERY "S"	MEXICO	3006	56	113	60	56
12	THRUSH "S"	MEXICO	3004	63	114	86	56
10	MINIVET "S"	MEXICO	2954	61	108	83	56
14	SUNBIRD "S"	MEXICO	2909	78	120	91	63
17	JUNCO "S"	MEXICO	2873	73	118	94	60
16	KOEL "S"	MEXICO	2824	64	115	85	52
19	LOCAL CHECK		2797	61	113	89	44
11	JUP 73-2P"S" X COC75	MEXICO	2754	81	120	93	60
18	SWIFT "S"	MEXICO	2649	74	118	96	56
25	BUCK BUCK "S"	MEXICO	2640	64	114	86	56
9	DRONGO "S"	MEXICO	2623	66	116	82	44
7	WARBLER "S"	MEXICO	2583	68	118	89	56
1	VULTURE "S"	MEXICO	2580	59	111	62	56
13	YAVAROS C 79 (DURUM)	MEXICO	2375	82	121	89	44
28	CAR422-ANAHUAC	MEXICO	2359	80	119	83	56
26	BUTEO "S"	MEXICO	2335	59	112	89	56
6	PEWEE "S"	MEXICO	2281	57	114	71	60
5	PEWEE "S"	MEXICO	1953	58	114	65	56
30	MYNA "S"	MEXICO	1670	74	118	86	41

GRAND MEAN 2823.4 67.3 115.4 85.0 54.0
 STANDARD ERROR OF GRAND MEAN 39.9
 COEFFICIENT OF VARIATION AS PC 13.4
 LSD VARIETY MEANS 5 PC 618.5

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	HELM
	-0.07			
	-0.14	0.90		
	0.30	0.58	0.51	
	0.20	-0.25	-0.21	-0.08

1TH ESWYT

TABLE 4 ASIA

INDIA

UTTAR PRADESH

PANTNAGAR

CEREALS STAFF

LATITUDE 029 00'N

DATE PLANTED 12/22/79

NITROGEN APPLIED

LONGITUDE 079 00'E

DATE HARVESTED 5/10/80

PHOSPHORUS APPLIED

ELEVATION 0243 M.ABOVE S.L.

AMOUNT OF MOISTURE -- MM

POTASSIUM APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. WEATHER NORMAL. CHEMICAL CONTROL OF WEEDS.
 HAND WEEDING. LOCAL CHECK: UP 115

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	LEAF RUST	PLNT HT	1000 G.W.
21	VEERY "S"	MEXICO	4493	86	0	82	36
23	PAVON 76	MEXICO	4420	84	0	88	33
17	JUNCO "S"	MEXICO	3913	82	0	85	34
24	BUCK BUCK "S"	MEXICO	3913	87	80S	83	35
25	BUCK BUCK "S"	MEXICO	3913	85	60S	72	25
11	JUP 73-2P"S" X COC75	MEXICO	3841	89	40S	80	34
20	VEERY "S"	MEXICO	3768	86	0	79	31
15	SUNBIRD "S"	MEXICO	3681	86	0	75	41
16	KOEL "S"	MEXICO	3623	86	0	84	33
22	BUCK BUCK "S"	MEXICO	3623	82	40S	84	33
18	SWIFT "S"	MEXICO	3551	85	40S	84	42
19	LOCAL CHECK		3551	81	60S	86	31
9	DRONGO "S"	MEXICO	3536	83	5S	78	40
4	VEERY "S"	MEXICO	3406	87	0	55	32
13	YAVAROS C 79 (DURUM)	MEXICO	3333	87	10MS	71	49
3	NACUZARI 76	MEXICO	3333	85	80S	79	35
2	TOWHEE "S"	MEXICO	3333	84	TS	82	25
27	GROUSE "S"	MEXICO	3319	86	TR	90	31
30	MYNA "S"	MEXICO	3174	88	5X	77	32
29	MYNA "S"	MEXICO	3160	83	TMS	85	31
28	CAR422-ANAHUAC	MEXICO	3073	89	TX	73	29
26	BUTEO "S"	MEXICO	3044	81	0	90	40
12	THRUSH "S"	MEXICO	3029	85	5X	81	31
14	SUNBIRD "S"	MEXICO	2928	83	0	78	43
6	PEWEE "S"	MEXICO	2870	85	20S	69	39
8	DOVE "S"	MEXICO	2826	89	20S	79	28
10	MINIVET "S"	MEXICO	2739	83	0	79	27
7	WARBLER "S"	MEXICO	2536	87	40S	78	35
1	VULTURE "S"	MEXICO	2391	88	0	62	35
5	PEWEE "S"	MEXICO	2217	85	5S	66	38

GRAND MEAN 3351.3 85.2 16.9 78.5 34.0
 STANDARD ERROR OF GRAND MEAN 69.1
 COEFFICIENT OF VARIATION AS PC 19.6
 LSD VARIETY MEANS 5 PC 1072.1

CORRELATIONS

YIELD KG/HA	FLOW DAYS	LEAF RUST	PLNT HT	1000 G.W.
		-0.11		
		0.17	0.01	
		0.41	-0.46	0.11
		-0.05	-0.07	-0.06
				-0.11

17N ESWYT

TABLE 5 ASIA

NEPAL

CHITWAN

RAMPUR

CEREALS STAFF

LATITUDE 027 37'N

DATE PLANTED 12/ 3/79

LONGITUDE 84 24'E

DATE HARVESTED --/--/--

ELEVATION 228 M. ABOVE S.L.

AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

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

WEATHER NOT REPORTED. SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE.

NO WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.

LOCAL CHECK: RR21

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	1000 G.W.
3	NACOZARI 76	MEXICO	3620	74	114	0-60S	41
22	BUCK BUCK "S"	MEXICO	3467	74	115	0-10MS	40
25	BUCK BUCK "S"	MEXICO	3387	76	119	TMS	38
17	JUNCO "S"	MEXICO	3307	80	118	0	39
9	DRONGO "S"	MEXICO	3271	73	116	0	41
24	BUCK BUCK "S"	MEXICO	3243	75	117	20MS	41
12	THRUSH "S"	MEXICO	3240	78	120	0	41
27	GROUSE "S"	MEXICO	3230	81	120	0	41
26	BUTEO "S"	MEXICO	3100	67	112	0	44
18	SWIFT "S"	MEXICO	3090	81	120	0	38
29	MYNA "S"	MEXICO	3077	78	120	0	40
23	PAVON 76	MEXICO	2927	78	117	0	37
2	TOWHEE "S"	MEXICO	2877	77	121	0	34
10	MINIVET "S"	MEXICO	2877	72	113	0	40
11	JUP 73-ZP"S" X COC75	MEXICO	2820	85	121	0	40
28	CAR422-ANAHUAC	MEXICO	2783	82	119	0	43
8	DOVE "S"	MEXICO	2773	84	121	0	34
4	VEERY "S"	MEXICO	2720	75	114	0	42
1	VULTURE "S"	MEXICO	2707	75	118	TR	42
15	SUNBIRD "S"	MEXICO	2707	83	121	0	48
20	VEERY "S"	MEXICO	2700	86	121	0	28
19	LOCAL CHECK		2693	65	113	80S	54
14	SUNBIRD "S"	MEXICO	2630	84	121	0	48
21	VEERY "S"	MEXICO	2547	88	122	0	29
7	WARBLER "S"	MEXICO	2250	77	121	0	45
16	KOEL "S"	MEXICO	2187	77	122	0	53
30	MYNA "S"	MEXICO	2104	84	121	TR	41
13	YAVAROS C 79 (DURUM)	MEXICO	2013	81	122	0	50
5	PEWEE "S"	MEXICO	1730	74	120	TMS	54
6	PEWEE "S"	MEXICO	1340	75	121	0	49

GRAND MEAN	2780.5	78.0	118.7	4.4	41.8
STANDARD ERROR OF GRAND MEAN	33.3				
COEFFICIENT OF VARIATION AS PC	11.4				
LSD VARIETY MEANS 5 PC	516.7				

CORRELATIONS

YIELD KG/HA					
FLOW DAYS	-0.14				
MAT DAYS	-0.48	0.78			
LEAF RUST	0.12	-0.51	-0.46		
1000 G.W.	-0.47	-0.45	-0.08	0.32	

LYALLPUR

N. I. A. B.

LATITUDE 031 30'N

LONGITUDE 073 10'E

ELEVATION 0213 M. ABOVE S. L.

DATE PLANTED 11/19/79

DATE HARVESTED 4/20/80

AMOUNT OF MOISTURE 92 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

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

MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. MODERATE WEED PROBLEM.

HAND WEEDING. LOCAL CHECK: W.L-711

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	PLNT HT	LODG %
3	NACUZARI 76	MEXICO	5533	98	144	10MS-S	25MS-S	105	0
28	CAR422-ANAHUAC	MEXICO	5488	105	148	0	0	101	50
19	LOCAL CHECK		5288	105	149	10MS-S	0	111	100
4	VEERY "S"	MEXICO	5111	99	141	0	0	69	0
21	VEERY "S"	MEXICO	5066	108	148	0	0	104	50
29	MYNA "S"	MEXICO	4933	105	149	10MS	0	104	50
2	TOWHEE "S"	MEXICO	4888	103	148	0	0	111	0
16	KOEL "S"	MEXICO	4866	109	152	0	0	104	0
20	VEERY "S"	MEXICO	4844	107	148	0	0	104	100
22	BUCK BUCK "S"	MEXICO	4800	99	148	65S	0	114	50
23	PAVON 76	MEXICO	4777	105	148	40MS-S	0	105	50
17	JUNCO "S"	MEXICO	4733	105	147	10MR	0	105	50
7	WARBLER "S"	MEXICO	4666	106	148	25MS	40MS-S	109	50
27	GROUSE "S"	MEXICO	4622	109	149	25MS	0	113	100
9	DRONGO "S"	MEXICO	4555	98	147	10MR	0	107	50
8	DOVE "S"	MEXICO	4511	108	149	0	10MS-S	109	0
13	YAVAROS C 79 (DURUM)	MEXICO	4511	109	148	10MR	10MR	94	50
5	PEWEE "S"	MEXICO	4466	96	148	0	0	84	0
18	SWIFT "S"	MEXICO	4333	104	150	0	0	110	50
6	PEWEE "S"	MEXICO	4311	98	148	0	0	84	0
15	SUNBIRD "S"	MEXICO	4288	110	153	0	0	95	50
1	VULTURE "S"	MEXICO	4288	99	148	25MS-S	0	76	0
30	MYNA "S"	MEXICO	4222	106	154	5R	0	94	0
14	SUNBIRD "S"	MEXICO	4200	110	153	0	0	97	50
26	BUTEO "S"	MEXICO	4177	96	147	10MS-S	0	108	50
12	THRUSH "S"	MEXICO	4066	108	152	10MS	0	111	50
10	MINIVET "S"	MEXICO	4022	98	142	65S	0	98	0
25	BUCK BUCK "S"	MEXICO	3666	104	154	65S	0	102	50
11	JUP 73-ZP"S" X COC75	MEXICO	3577	107	149	65S	0	104	0
24	BUCK BUCK "S"	MEXICO	3466	103	154	100S	0	101	0

GRAND MEAN 4542.5 103.9 148.8 17.1 2.4 101.1 35.0
 STANDARD ERROR OF GRAND MEAN 43.9
 COEFFICIENT OF VARIATION AS PC 9.2
 LSD VARIETY MEANS 5 PC 680.2

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	PLNT HT	LODG %
		-0.02				
		-0.47	0.56			
		-0.56	-0.17	0.12		
		0.23	-0.00	-0.20	-0.05	
		0.08	-0.33	0.23	0.13	0.17
		0.25	0.38	0.13	-0.16	-0.07
						0.48

1TH ESWYT TABLE 7 EUROPE SPAIN CADIZ

JEREZ

LATITUDE 36 43'N DATE PLANTED 12/ 4/79 NITROGEN APPLIED
LONGITUDE 6 06'W DATE HARVESTED 6/28/80 PHOSPHORUS APPLIED
ELEVATION 21 M.ABOVE S.L. AMOUNT OF MOISTURE 454 MM POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
HAND WEEDING. LOCAL CHECK:

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
21	VEERY "S"	MEXICO	10700	104	142	93	38
3	NACCOZARI 76	MEXICO	10473	104	143	100	38
20	VEERY "S"	MEXICO	9790	105	142	95	39
23	PAVON 76	MEXICO	9510	103	143	95	38
19	LOCAL CHECK		9183	100	142	125	49
12	THRUSH "S"	MEXICO	9100	107	146	100	38
5	PEWEE "S"	MEXICO	9063	102	142	75	40
10	MINIVET "S"	MEXICO	9057	100	141	95	41
28	CAR422-ANAHUAC	MEXICO	9020	107	146	88	37
9	DRONGO "S"	MEXICO	8997	102	142	103	39
13	YAVAROS C 79 (DURUM)	MEXICO	8917	104	145	88	53
8	DOVE "S"	MEXICO	8877	104	142	95	40
22	BUCK BUCK "S"	MEXICO	8867	105	145	100	38
17	JUNCO "S"	MEXICO	8830	100	142	100	42
2	TOWHEE "S"	MEXICO	8813	104	147	100	34
15	SUNBIRD "S"	MEXICO	8803	105	145	90	45
4	VEERY "S"	MEXICO	8787	104	142	60	39
6	PEWEE "S"	MEXICO	8750	103	142	75	35
11	JUP 73-ZP"S" X COC75	MEXICO	8717	107	146	90	42
27	GROUSE "S"	MEXICO	8707	107	147	103	37
25	BUCK BUCK "S"	MEXICO	8667	104	145	90	33
29	MYNA "S"	MEXICO	8640	105	146	98	41
7	WARBLER "S"	MEXICO	8600	105	147	100	44
14	SUNBIRD "S"	MEXICO	8557	105	145	88	46
18	SWIFT "S"	MEXICO	8303	104	142	105	38
30	MYNA "S"	MEXICO	7997	104	145	78	44
24	BUCK BUCK "S"	MEXICO	7947	104	145	88	34
16	KOEL "S"	MEXICO	7900	105	145	90	43
26	BUTEO "S"	MEXICO	7723	99	140	100	39
1	VULTURE "S"	MEXICO	7603	105	142	75	36

GRAND MEAN 8829.9 103.6 143.8 93.1 40.0
STANDARD ERROR OF GRAND MEAN 99.7 0.9
COEFFICIENT OF VARIATION AS PC 10.7 7.2
LSD VARIETY MEANS 5 PC 1545.5 13.8

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	0.01			
MAT	DAYS	-0.15	0.74		
PLNT	HT	0.21	-0.18	0.13	
1000	G.W.	-0.01	-0.15	0.05	0.15

1TH ESWYT

TABLE 8 EUROPE

SPAIN

SEVILLA

LA RINCONADA

I.N.I.A.

LATITUDE 037 30'W DATE PLANTED 12/18/79 NITROGEN APPLIED
 LONGITUDE 005 57'W DATE HARVESTED 6/10/80 PHOSPHORUS APPLIED
 ELEVATION 20 M.ABOVE S.L. AMOUNT OF MOISTURE 153 MM POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD. SLIGHT DISEASE INCIDENCE.
 SLIGHT INSECT DAMAGE. NO WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.
 HAND WEEDING. LOCAL CHECK: YECORA
 DRIER THAN NORMAL. SPRING HOTTER THAN NORMAL

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	SHTR %	1000 G.W.	POWD %	SEPT TRIT
20	VEERY "S"	MEXICO	6957	80	111	155	80	2	0	40	18	0
13	YAVAROS C 79 (DURUM)	MEXICO	6900	80	116	156	73	2	0	52	63	0
21	VEERY "S"	MEXICO	6628	80	112	153	82	0	0	38	29	15
28	CAR422-ANAHUAC	MEXICO	6455	76	110	154	77	0	0	38	59	22
23	PAVON 76	MEXICO	6077	79	111	156	83	2	1	36	74	33
11	JUP 73-ZP"S" X COC75	MEXICO	5909	77	113	155	80	2	0	40	60	22
26	BUTEO "S"	MEXICO	5906	79	111	154	93	10	1	43	44	0
27	GROUSE "S"	MEXICO	5899	78	119	157	83	3	0	36	74	11
3	NACAZARI 76	MEXICO	5865	79	110	154	80	3	0	39	89	52
19	LOCAL CHECK	MEXICO	5808	77	110	151	72	0	0	41	85	33
7	WARBLER "S"	MEXICO	5781	78	111	155	87	3	0	42	63	18
4	VEERY "S"	MEXICO	5773	76	109	150	55	0	0	37	33	52
17	JUNCO "S"	MEXICO	5756	78	110	154	92	7	5	42	44	0
24	BUCK BUCK "S"	MEXICO	5751	77	111	155	78	2	10	35	41	7
14	SUNBIRD "S"	MEXICO	5709	77	116	155	75	0	0	45	18	11
8	DOVE "S"	MEXICO	5420	78	114	154	80	2	0	38	74	4
6	PEWEE "S"	MEXICO	5398	75	110	154	65	0	0	38	56	59
25	BUCK BUCK "S"	MEXICO	5391	76	112	156	75	2	1	36	52	26
22	BUCK BUCK "S"	MEXICO	5386	78	111	156	87	2	1	35	60	4
15	SUNBIRD "S"	MEXICO	5356	77	115	156	80	0	1	42	15	0
2	TOWHEE "S"	MEXICO	5327	77	111	154	83	5	5	34	48	0
5	PEWEE "S"	MEXICO	5283	74	110	153	68	0	0	38	48	48
10	MINIVET "S"	MEXICO	5134	80	110	153	87	3	5	41	82	11
1	VULTURE "S"	MEXICO	5092	72	114	157	63	0	0	34	63	0
29	MYNA "S"	MEXICO	5046	78	113	155	77	2	1	38	63	4
9	DRONGO "S"	MEXICO	5038	79	112	155	87	5	0	38	48	4
18	SWIFT "S"	MEXICO	4597	78	112	154	88	7	10	37	56	0
12	THRUSH "S"	MEXICO	4519	76	113	156	83	0	1	38	52	15
16	KOEL "S"	MEXICO	4438	74	114	155	78	2	10	38	71	4
30	MYNA "S"	MEXICO	3831	74	113	156	70	0	0	37	74	15

GRAND MEAN	5547.8	77.3	112.0	154.5	78.7	2.1	1.7	38.9	55.3	15.6
STANDARD ERROR OF GRAND MEAN	57.2	0.1						0.2		
COEFFICIENT OF VARIATION AS PC	9.8	1.7						4.9		
LSD VARIETY MEANS 5 PC	886.9	2.2						3.1		

CORRELATIONS

YIELD KG/HA												
TEST WT	0.54											
FLOW DAYS	-0.07	-0.04										
MAT DAYS	-0.15	-0.10	0.63									
PLNT HT	0.05	0.61	0.02	0.23								
LODG %	-0.00	0.43	-0.12	0.00	0.72							
SHTR %	-0.34	-0.04	-0.10	-0.04	0.30	0.39						
1000 G.W.	0.40	0.39	0.22	-0.06	0.12	0.11	-0.20					
POWD %	-0.26	-0.06	-0.03	0.04	0.03	0.04	0.02	-0.14				
SEPT TRIT	0.08	-0.23	-0.46	-0.45	-0.54	-0.41	-0.35	-0.14	0.21			

1TH ESWYT

TABLE 9

EUROPE

TURKEY

IZMIR

EGE RARI

LATITUDE	38 00'N	DATE PLANTED	---/---/---	NITROGEN	APPLIED
LONGITUDE	27 00'E	DATE HARVESTED	---/---/---	PHOSPHORUS	APPLIED
ELEVATION	10 M.ABOVE S.L.	AMOUNT OF MOISTURE	650 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. WEATHER NOT REPORTED. CHEMICAL CONTROL OF WEEDS.
 LOCAL CHECK: CUMHURİYET-75

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA
17	JUNCO "S"	MEXICO	6555
28	CAR422-ANAHUAC	MEXICO	6424
2	TOWHEE "S"	MEXICO	6269
15	SUNBIRD "S"	MEXICO	6208
16	KOEL "S"	MEXICO	5989
4	VEERY "S"	MEXICO	5971
21	VEERY "S"	MEXICO	5853
5	PEWEE "S"	MEXICO	5771
20	VEERY "S"	MEXICO	5749
26	BUTEO "S"	MEXICO	5693
18	SWIFT "S"	MEXICO	5685
30	MYNA "S"	MEXICO	5667
3	NACAZARI 76	MEXICO	5613
7	WARBLER "S"	MEXICO	5549
8	DOVE "S"	MEXICO	5525
19	LOCAL CHECK		5389
24	BUCK BUCK "S"	MEXICO	5379
22	BUCK BUCK "S"	MEXICO	5296
25	BUCK BUCK "S"	MEXICO	5291
29	MYNA "S"	MEXICO	5157
9	DRONGO "S"	MEXICO	5032
1	VULTURE "S"	MEXICO	5000
23	PAVON 76	MEXICO	4960
27	GROUSE "S"	MEXICO	4915
6	PEWEE "S"	MEXICO	4811
13	YAVAROS C 79 (DURUM)	MEXICO	4760
14	SUNBIRD "S"	MEXICO	4589
10	MINIVET "S"	MEXICO	4555
11	JUP 73-ZP"S" X COC75	MEXICO	4472
12	THRUSH "S"	MEXICO	3619

GRAND MEAN	5391.6
STANDARD ERROR OF GRAND MEAN	146.5
COEFFICIENT OF VARIATION AS PC	25.8
LSD VARIETY MEANS 5 PC	2271.4

1TH ESWYT

TABLE 10

MIDDLE EAST

ISRAEL

R.D.SDE-GAT

MIVHOR FARM

HAZERA SEEDS LTD.

LATITUDE 031 37'N

DATE PLANTED 11/12/79

NITROGEN APPLIED

LONGITUDE 034 47'E

DATE HARVESTED 5/29/80

PHOSPHORUS --

ELEVATION 0120 M.ABOVE S.L.

AMOUNT OF MOISTURE 623 MM

POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD. SLIGHT DISEASE INCIDENCE.

NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.

CHEMICAL CONTROL OF WEEDS. DRY SPRING, NO EFFECTIVE RAINS AFTER MARCH 2

LOCAL CHECK: SHAFIR= HAZERA 895

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.	SEPT TRIT
20	VEERY "S"	MEXICO	7245	82	113	117	35	67
13	YAVAROS C 79 (DURUM)	MEXICO	7106	83	106	105	52	0
21	VEERY "S"	MEXICO	7106	82	113	115	32	59
4	VEERY "S"	MEXICO	6820	81	107	77	39	89
3	NACCOZARI 76	MEXICO	6737	82	105	117	37	89
15	SUNBIRD "S"	MEXICO	6699	82	111	110	46	41
29	MYNA "S"	MEXICO	6661	83	110	118	38	89
28	CAR422-ANAHUAC	MEXICO	6477	80	112	112	35	82
30	MYNA "S"	MEXICO	6414	82	114	100	39	89
5	PEWEE "S"	MEXICO	6382	80	103	92	39	89
23	PAVON 76	MEXICO	6280	82	107	117	34	82
11	JUP 73-ZP"S" X COC75	MEXICO	6255	82	113	108	32	89
19	LOCAL CHECK		6242	78	96	80	36	89
14	SUNBIRD "S"	MEXICO	5982	82	111	112	45	30
9	DRONGO "S"	MEXICO	5950	83	103	120	38	82
17	JUNCO "S"	MEXICO	5937	81	105	122	40	74
10	MINIVET "S"	MEXICO	5937	84	103	113	43	82
12	THRUSH "S"	MEXICO	5817	80	111	115	35	89
24	BUCK BUCK "S"	MEXICO	5798	81	106	115	36	89
8	DOVE "S"	MEXICO	5683	79	113	117	34	63
2	TOWHEE "S"	MEXICO	5677	81	110	127	31	71
1	VULTURE "S"	MEXICO	5671	77	109	92	35	89
6	PEWEE "S"	MEXICO	5601	79	106	92	36	89
25	BUCK BUCK "S"	MEXICO	5410	82	106	115	37	89
16	KOEL "S"	MEXICQ	5359	82	109	115	38	74
7	WARBLER "S"	MEXICO	4985	80	106	135	40	74
18	SWIFT "S"	MEXICO	4788	83	113	123	36	74
27	GROUSE "S"	MEXICO	4769	81	112	122	29	78
22	BUCK BUCK "S"	MEXICO	4629	82	104	120	36	85
26	BUTEO "S"	MEXICO	4540	81	97	118	43	89

GRAND MEAN	5965.2	81.2	107.8	111.3	37.5	75.8
STANDARD ERROR OF GRAND MEAN	38.9	0.0			0.2	
COEFFICIENT OF VARIATION AS PC	6.2	0.7			4.1	
LSD VARIETY MEANS 5 PC	603.3	1.0			2.5	

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.	SEPT TRIT
	0.17				
	0.22	0.15			
	-0.37	0.43	0.23		
	0.19	0.32	-0.32	-0.13	
	-0.30	-0.29	-0.23	-0.14	-0.59

1TH ESWYT

TABLE 11

MIDDLE EAST

SYRIA

ALEPPO

ICARDA

J. P. SIRIVASTAVA

LATITUDE 36 09'N

LONGITUDE 36 04'E

ELEVATION 300 M. ABOVE S.L.

DATE PLANTED 11/23/79

DATE HARVESTED --/--/--

AMOUNT OF MOISTURE 437 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE.
SLIGHT WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.
HAND WEEDING. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS
21	VEERY "S"	MEXICO	5963	147	224
29	MYNA "S"	MEXICO	5655	151	227
14	SUNBIRD "S"	MEXICO	5581	151	226
20	VEERY "S"	MEXICO	5439	148	225
2	TOWHEE "S"	MEXICO	5402	150	226
23	PAVON 76	MEXICO	5328	150	226
18	SWIFT "S"	MEXICO	5192	147	225
15	SUNBIRD "S"	MEXICO	5173	151	226
8	DOVE "S"	MEXICO	5142	152	226
13	YAVAROS C 79 (DURUM)	MEXICO	5132	150	227
28	CAR422-ANAHUAC	MEXICO	5118	153	226
30	MYNA "S"	MEXICO	4994	149	226
3	NACCOZARI 76	MEXICO	4976	149	225
12	THRUSH "S"	MEXICO	4889	152	227
7	WARBLER "S"	MEXICO	4889	152	226
11	JUP 73-2P"S" X COC75	MEXICO	4846	152	226
27	GROUSE "S"	MEXICO	4828	150	225
4	VEERY "S"	MEXICO	4735	148	224
9	DRONGO "S"	MEXICO	4723	148	256
16	KOEL "S"	MEXICO	4537	152	227
19	LOCAL CHECK		4525	152	225
6	PEWEE "S"	MEXICO	4494	149	226
22	BUCK BUCK "S"	MEXICO	4445	152	226
26	BUTEO "S"	MEXICO	4371	144	224
24	BUCK BUCK "S"	MEXICO	4260	152	227
25	BUCK BUCK "S"	MEXICO	4253	152	-
10	MINIVET "S"	MEXICO	4031	147	225
1	VULTURE "S"	MEXICO	3852	152	228
5	PEWEE "S"	MEXICO	3852	149	227
17	JUNCO "S"	MEXICO	3284	146	225

GRAND MEAN 4797.0 149.9 226.4
STANDARD ERROR OF GRAND MEAN 54.2
COEFFICIENT OF VARIATION AS PC 10.7
LSD VARIETY MEANS 5 PC 841.5

CORRELATIONS

YIELD KG/HA
FLOW DAYS 0.11
MAT DAYS -0.05 -0.04

CIANO (2ND DATE)

CIMMYT

LATITUDE 027 20'N DATE PLANTED 12/ 1/80

LONGITUDE 109 54'W DATE HARVESTED 5/ 2/81

ELEVATION 0038 M.ABOVE S.L. AMOUNT OF MOISTURE 135 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

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

MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.

NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS.

CHEMICAL CONTROL OF INSECTS. LOCAL CHECK: NACCOZARI 76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT
20	VEERY "S"	MEXICO	6069	82	128	TMR	93
24	BUCK BUCK "S"	MEXICO	5906	74	128	10MS	93
3	NACCOZARI 76	MEXICO	5840	78	120	50S-MS	90
19	LOCAL CHECK		5829	71	122	40S	90
4	VEERY "S"	MEXICO	5685	75	120	5MR	62
28	CAR422-ANAHUAC	MEXICO	5654	80	127	TMS	90
6	PEWEE "S"	MEXICO	5579	71	125	TR	72
25	BUCK BUCK "S"	MEXICO	5533	74	128	5MS	90
13	YAVAROS C 79 (DURUM)	MEXICO	5506	78	128	TR	90
1	VULTURE "S"	MEXICO	5375	77	126	5S	67
30	MYNA "S"	MEXICO	5375	79	132	5S	90
7	WARBLER "S"	MEXICO	5165	79	128	TMS	98
29	MYNA "S"	MEXICO	5073	76	130	TR	92
12	THRUSH "S"	MEXICO	5019	77	128	5R-MR	98
11	JUP 73-2P"S" X COC75	MEXICO	4967	88	131	10MS-S	90
5	PEWEE "S"	MEXICO	4935	69	120	TMS	70
9	DRONGO "S"	MEXICO	4788	72	124	5S	95
8	DOVE "S"	MEXICO	4760	82	129	TMS	97
23	PAVON 76	MEXICO	4750	77	127	TMS	95
22	BUCK BUCK "S"	MEXICO	4608	70	127	5MS	93
15	SUNBIRD "S"	MEXICO	4527	82	130	TR	85
21	VEERY "S"	MEXICO	4425	83	128	TMR	88
18	SWIFT "S"	MEXICO	4335	78	127	5-30MS-S	100
17	JUNCO "S"	MEXICO	4329	74	122	TR-MR	93
16	KOEL "S"	MEXICO	4096	75	126	TR	88
26	BUTEO "S"	MEXICO	4092	70	120	TR	95
14	SUNBIRD "S"	MEXICO	4088	83	132	TR	85
27	GROUSE "S"	MEXICO	4006	79	128	5MS	100
10	MINIVET "S"	MEXICO	3802	71	117	10MR-MS	88
2	TOWHEE "S"	MEXICO	3735	78	128	TMS	98

GRAND MEAN	4928.4	76.5	126.2	5.7	89.2
STANDARD ERROR OF GRAND MEAN	65.1				0.3
COEFFICIENT OF VARIATION AS PC	12.5				3.2
LSD VARIETY MEANS 5 PC	1010.0				4.7

CORRELATIONS

YIELD KG/HA					
FLOW DAYS	-0.00				
MAT DAYS	0.02	0.67			
LEAF RUST	0.38	-0.10	-0.29		
PLNT HT	-0.30	0.21	0.32	0.09	

DAVIS (UNIV. CALIF.)

C.O.QUALSET ET AL

LATITUDE 038 32'N

DATE PLANTED 11/13/79

NITROGEN APPLIED

LONGITUDE 121 46'W

DATE HARVESTED 6/25/80

PHOSPHORUS --

ELEVATION 0018 M.ABOVE S.L.

AMOUNT OF MOISTURE 576 MM

POTASSIUM --

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

SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE.

SLIGHT WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.

CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: ANZA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	SHTR %	1000 G.W.	SEPT TRIT
3	NACOZARI 76	MEXICO	7594	62	143	184	99	0	55	41
19	LOCAL CHECK		7577	62	146	188	89	0	40	33
23	PAVON 76	MEXICO	7477	65	144	188	96	5	42	11
8	DOVE "S"	MEXICO	7388	63	148	184	95	0	62	11
29	MYNA "S"	MEXICO	7277	62	146	188	98	0	43	15
1	VULTURE "S"	MEXICO	7099	60	148	186	74	0	58	37
30	MYNA "S"	MEXICO	6949	61	148	188	84	0	47	7
13	YAVAROS C 79 (DURUM)	MEXICO	6772	64	148	190	89	0	64	0
5	PEWEE "S"	MEXICO	6672	61	143	186	80	0	64	18
11	JUP 73-2P"S" X COC75	MEXICO	6649	63	146	184	93	0	46	15
28	CAR422-ANAHUAC	MEXICO	6594	61	144	184	90	0	44	52
2	TOWHEE "S"	MEXICO	6577	62	146	186	104	5	49	4
20	VEERY "S"	MEXICO	6572	62	141	182	89	0	42	40
17	JUNCO "S"	MEXICO	6394	61	137	186	99	5	46	4
12	THRUSH "S"	MEXICO	6288	61	148	188	96	0	41	26
9	DRONGO "S"	MEXICO	6260	63	140	184	96	0	55	15
21	VEERY "S"	MEXICO	6210	63	141	184	90	0	40	15
7	WARBLER "S"	MEXICO	6072	62	146	188	110	5	64	33
4	VEERY "S"	MEXICO	5883	62	140	178	65	0	58	89
24	BUCK BUCK "S"	MEXICO	5866	62	144	188	95	5	42	22
27	GROUSE "S"	MEXICO	5822	62	147	186	100	1	42	15
6	PEWEE "S"	MEXICO	5788	61	143	186	76	0	60	37
16	KOEL "S"	MEXICO	5755	60	148	190	97	5	48	11
10	MINIVET "S"	MEXICO	5699	64	139	180	92	1	52	59
25	BUCK BUCK "S"	MEXICO	5699	61	142	186	96	10	43	29
18	SWIFT "S"	MEXICO	5527	62	147	186	102	5	40	0
14	SUNBIRD "S"	MEXICO	5333	60	142	188	87	0	54	22
26	BUTEO "S"	MEXICO	5188	62	136	180	99	1	48	11
22	BUCK BUCK "S"	MEXICO	5000	63	141	186	104	5	43	7
15	SUNBIRD "S"	MEXICO	3555	61	146	188	80	0	48	15

GRAND MEAN 6251.2 61.9 143.9 185.7 92.2 1.8 49.1 23.1
 STANDARD ERROR OF GRAND MEAN 0.2
 COEFFICIENT OF VARIATION AS PC 2.6
 LSD VARIETY MEANS 5 PC 3.9

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	SHTR %	1000 G.W.	SEPT TRIT
0.23							
0.27	-0.14						
0.07	-0.23	0.64					
0.03	0.28	0.02	0.23				
-0.21	0.01	-0.08	0.25	0.53			
0.10	-0.04	0.05	-0.08	-0.33	-0.27		
0.03	-0.10	-0.27	-0.58	-0.51	-0.26	0.20	

1TH ESWYT

TABLE 14 NORTH AMERICA

U.S.A.

MONTANA

BOZEMAN

H.MCNEAL ET AL

LATITUDE 045 00'N

DATE PLANTED 4/29/80

NITROGEN --

LONGITUDE 111 00'W

DATE HARVESTED --/--/--

PHOSPHORUS --

ELEVATION 1463 M.ABOVE S.L.

AMOUNT OF MOISTURE 11 MM

POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
 NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE.
 MODERATE WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.
 HAND WEEDING. LOCAL CHECK: NEWANA, CI17430

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT
20	VEERY "S"	MEXICO	8138	78	82
8	DOVE "S"	MEXICO	8043	80	91
28	CAR422-ANAHUAC	MEXICO	7877	77	82
15	SUNBIRD "S"	MEXICO	7709	78	81
23	PAVON 76	MEXICO	7689	81	90
21	VEERY "S"	MEXICO	7682	80	85
29	MYNA "S"	MEXICO	7676	79	82
25	BUCK BUCK "S"	MEXICO	7577	78	84
13	YAVAROS C 79 (DURUM)	MEXICO	7368	82	73
17	JUNCO "S"	MEXICO	7359	78	84
14	SUNBIRD "S"	MEXICO	7350	78	80
2	TOWHEE "S"	MEXICO	7303	80	86
16	KOEL "S"	MEXICO	7292	79	78
3	NACCOZARI 76	MEXICO	7247	78	86
10	MINIVET "S"	MEXICO	7200	82	84
30	MYNA "S"	MEXICO	7196	79	73
12	THRUSH "S"	MEXICO	7070	79	87
24	BUCK BUCK "S"	MEXICO	7045	79	86
4	VEERY "S"	MEXICO	7023	82	55
26	BUTEO "S"	MEXICO	7009	78	90
27	GROUSE "S"	MEXICO	6850	81	97
1	VULTURE "S"	MEXICO	6848	78	61
9	DRONGO "S"	MEXICO	6819	81	82
7	WARBLER "S"	MEXICO	6810	78	91
5	PEWEE "S"	MEXICO	6619	81	66
19	LOCAL CHECK		6579	79	85
6	PEWEE "S"	MEXICO	6568	80	65
22	BUCK BUCK "S"	MEXICO	6518	76	89
11	JUP 73-ZP"S" X COC75	MEXICO	6417	81	78
18	SWIFT "S"	MEXICO	6390	78	91

GRAND MEAN	7175.7	79.2	81.4
STANDARD ERROR OF GRAND MEAN	59.7		0.3
COEFFICIENT OF VARIATION AS PC	7.9		3.0
LS D VARIETY MEANS 5 PC	925.6		3.9

CORRELATIONS

YIELD KG/HA		
TEST WT	-0.10	
PLNT HT	0.16	-0.30

PALMERSTON NORTH

H.M.MCEWAN

LATITUDE 040 23'S

DATE PLANTED 10/23/79

NITROGEN --

LONGITUDE 175 37'E

DATE HARVESTED 3/13/80

PHOSPHORUS --

ELEVATION 0015 M.ABOVE S.L.

AMOUNT OF MOISTURE -- MM

POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.
 CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: KARAM9
 ABNORMAL WEATHER CAUSED SPROUTING AND SHATTERING

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT	SHTR %
21	VEERY "S"	MEXICO	6691	64	82	0
20	VEERY "S"	MEXICO	6613	64	80	2
19	LOCAL CHECK		6268	60	68	2
14	SUNBIRD "S"	MEXICO	5968	66	78	0
15	SUNBIRD "S"	MEXICO	5773	65	78	0
28	CAR422-ANAHUAC	MEXICO	5599	64	80	3
17	JUNCO "S"	MEXICO	5541	60	83	5
8	DOVE "S"	MEXICO	5263	64	88	5
12	THRUSH "S"	MEXICO	5233	60	78	2
26	BUTEO "S"	MEXICO	5126	58	80	5
30	MYNA "S"	MEXICO	4904	62	78	0
1	VULTURE "S"	MEXICO	4829	57	53	0
5	PEWEE "S"	MEXICO	4757	56	58	3
24	BUCK BUCK "S"	MEXICO	4738	59	77	7
27	GROUSE "S"	MEXICO	4638	60	77	8
3	NACUZARI 76	MEXICO	4541	57	80	3
6	PEWEE "S"	MEXICO	4502	57	60	2
4	VEERY "S"	MEXICO	4462	57	55	0
11	JUP 73-ZP"S" X COC75	MEXICO	4439	61	73	5
18	SWIFT "S"	MEXICO	4427	61	83	5
13	YAVAROS C 79 (DURUM)	MEXICO	4302	57	70	0
9	DRONGO "S"	MEXICO	4297	55	78	5
10	MINIVET "S"	MEXICO	4006	58	72	5
25	BUCK BUCK "S"	MEXICO	4004	59	75	13
22	BUCK BUCK "S"	MEXICO	3950	58	78	17
2	TOWHEE "S"	MEXICO	3871	58	87	30
29	MYNA "S"	MEXICO	3482	58	78	0
23	PAVON 76	MEXICO	3130	61	88	50
16	KOEL "S"	MEXICO	2631	58	72	23
7	WARBLER "S"	MEXICO	2141	58	85	50

GRAND MEAN	4670.8	59.7	75.8	8.3
STANDARD ERROR OF GRAND MEAN	77.1	0.1	0.4	
COEFFICIENT OF VARIATION AS PC	15.7	1.7	5.0	
LSD VARIETY MEANS 5 PC	1196.4	1.7	6.2	

CORRELATIONS

YIELD KG/HA				
FLOW DAYS	0.59			
PLNT HT	-0.03	0.46		
SHTR %	-0.69	-0.15	0.41	

1TH ESWYT TABLE 16 SOUTH AMERICA CHILE SANTIAGO

LA PLATINA
J. RAMIREZ

LATITUDE 033 27'S DATE PLANTED 8/ 9/80 NITROGEN --
LONGITUDE 070 38'W DATE HARVESTED --/--/-- PHOSPHORUS --
ELEVATION 0629 M.ABOVE S.L. AMOUNT OF MOISTURE 86 MM POTASSIUM --

NEGLEGIBLE INSECT DAMAGE.
NO WEED PROBLEM.
NEGLEGIBLE BIRD DAMAGE.
LOCAL CHECK: CC-INIA/TOB"S"-8156

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	STRP RT.L	LEAF RUST	STEM RUST	PLNT HT	BYDV
22	BUCK BUCK "S"	MEXICO	8424	83	83	0	0	10S	105	20
13	YAVAROS C 79 (DURUM)	MEXICO	7883	82	83	0	0	5S	80	23
21	VEERY "S"	MEXICO	7695	83	89	0	0	0	95	20
3	NACCOZARI 76	MEXICO	7667	82	85	0	30S	5S	95	40
19	LOCAL CHECK		7640	84	85	0	30MS	10S	90	20
20	VEERY "S"	MEXICO	7410	82	88	0	10S	TS	90	23
24	BUCK BUCK "S"	MEXICO	7327	81	87	0	0	40S	90	37
5	PEWEE "S"	MEXICO	7271	81	85	TR	0	TS	70	43
4	VEERY "S"	MEXICO	7042	81	90	0	0	TR	60	30
23	PAVON 76	MEXICO	7035	82	91	0	0	20S	100	20
7	WARBLER "S"	MEXICO	6931	81	89	0	30S	TR	105	27
25	BUCK BUCK "S"	MEXICO	6910	82	90	TR	0	40S	90	43
6	PEWEE "S"	MEXICO	6813	80	85	0	0	0	70	47
15	SUNBIRD "S"	MEXICO	6723	80	92	0	0	5S	90	63
17	JUNCO "S"	MEXICO	6688	81	83	0	0	5S	95	43
18	SWIFT "S"	MEXICO	6626	83	86	0	TS	5S	100	77
28	CAR422-ANAHUAC	MEXICO	6542	80	88	0	TR	20S	90	47
26	BUTEO "S"	MEXICO	6507	81	88	0	TR	5S	110	50
29	MYNA "S"	MEXICO	6403	82	87	TR	5S	50S	90	47
9	DRONGO "S"	MEXICO	6362	83	85	0	0	10S	95	40
16	KOEL "S"	MEXICO	6334	80	90	0	0	5S	90	53
11	JUP 73-ZP"S" X COC75	MEXICO	6320	82	89	0	0	20S	90	43
1	VULTURE "S"	MEXICO	6320	76	88	0	TS	20S	60	33
30	MYNA "S"	MEXICO	6251	80	87	0	TS	10S	85	40
2	TOWHEE "S"	MEXICO	6202	81	88	0	0	20MS	105	67
8	DOVE "S"	MEXICO	6174	78	95	0	0	TS	90	43
14	SUNBIRD "S"	MEXICO	6042	81	93	0	0	10S	90	67
27	GROUSE "S"	MEXICO	5959	82	90	0	0	20S	100	63
12	THRUSH "S"	MEXICO	5619	79	89	0	0	60S	105	63
10	MINIVET "S"	MEXICO	5431	84	85	0	0	TS	90	60

GRAND MEAN 6751.7 81.2 87.8 0.0 3.4 13.2 90.5 43.1
STANDARD ERROR OF GRAND MEAN 65.6
COEFFICIENT OF VARIATION AS PC 9.2
LSD VARIETY MEANS 5 PC 1017.8

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	STRP RT.L	LEAF RUST	STEM RUST	PLNT HT	BYDV
	0.35						
	-0.41	-0.42					
	0.00	-0.01	0.00				
	0.34	0.21	-0.16	0.00			
	-0.26	-0.15	0.11	0.00	-0.17		
	-0.07	0.38	0.05	0.00	0.17	0.18	
	-0.72	-0.15	0.23	0.00	-0.32	0.18	0.21

1TH ESWYT

TABLE 17

SOUTH AMERICA

PERU

LIMA

LA MOLINA
C. LLOSA

LATITUDE 012 05'S

LONGITUDE 076 57'W

ELEVATION 0251 M. ABOVE S.L.

DATE PLANTED

DATE HARVESTED

AMOUNT OF MOISTURE

--/--/--

--/--/--

-- MM

NITROGEN

PHOSPHORUS

POTASSIUM

APPLIED

APPLIED

--

SOIL DRY AT SOWING. GERMINATION GOOD.
SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE.
SERIOUS WEED PROBLEM. MODERATE BIRD DAMAGE.
LOCAL CHECK NAME NOT REPORTED.
THIS SITE NOT INCLUDED IN SUMMARIES

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT
20	VEERY "S"	MEXICO	1183	79	84	152	TR	95
24	BUCK BUCK "S"	MEXICO	1135	78	70	140	0	90
28	CAR422-ANAHUAC	MEXICO	1127	78	82	146	0	85
21	VEERY "S"	MEXICO	1122	80	83	152	5S	90
14	SUNBIRD "S"	MEXICO	1087	79	82	146	0	90
17	JUNCO "S"	MEXICO	1068	79	79	146	0	100
11	JUP 73-ZP"S" X COC75	MEXICO	1055	80	85	146	0	90
25	BUCK BUCK "S"	MEXICO	1050	78	70	146	TR	90
23	PAVON 76	MEXICO	1025	81	76	152	0	90
8	DOVE "S"	MEXICO	992	77	86	146	0	105
7	WARBLER "S"	MEXICO	987	77	73	146	0	100
3	NACUZARI 76	MEXICO	977	78	68	140	0	90
19	LOCAL CHECK		933	80	86	146	5S	105
9	DRONGO "S"	MEXICO	908	80	66	146	0	95
2	TOWHEE "S"	MEXICO	902	79	68	134	0	100
15	SUNBIRD "S"	MEXICO	900	78	82	152	0	90
10	MINIVET "S"	MEXICO	895	81	68	140	0	90
5	PEWEE "S"	MEXICO	895	77	65	140	0	70
16	KOEL "S"	MEXICO	883	78	72	146	0	95
6	PEWEE "S"	MEXICO	882	76	70	140	0	70
26	BUTEO "S"	MEXICO	863	77	70	146	0	95
29	MYNA "S"	MEXICO	853	79	70	152	0	95
22	BUCK BUCK "S"	MEXICO	818	79	65	140	5S	95
1	VULTURE "S"	MEXICO	805	76	71	140	0	60
4	VEERY "S"	MEXICO	803	78	67	134	0	55
13	YAVAROS C 79 (DURUM)	MEXICO	803	80	82	146	0	85
12	THRUSH "S"	MEXICO	768	77	72	146	0	90
18	SWIFT "S"	MEXICO	757	79	84	146	5S	95
27	GROUSE "S"	MEXICO	752	80	74	152	0	95
30	MYNA "S"	MEXICO	565	78	80	152	0	90

GRAND MEAN 926.4 78.5 75.0 145.2 0.7 89.5
STANDARD ERROR OF GRAND MEAN 13.0
COEFFICIENT OF VARIATION AS FC 13.3
LSD VARIETY MEANS 5 PC 200.9

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT
	0.15				
	0.27	0.24			
	0.08	0.29	0.58		
	-0.05	0.28	0.25	0.06	
	0.21	0.38	0.35	0.44	0.23



