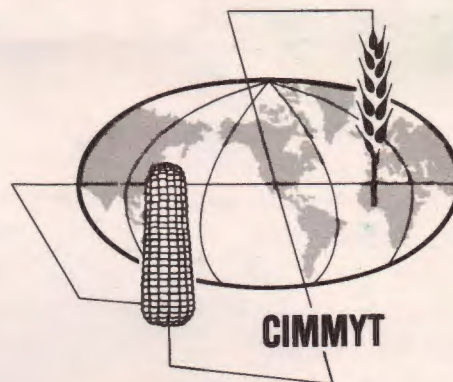


**PRELIMINARY SUMMARY OF THE
SECOND INTERNATIONAL ELITE SELECTION
YIELD TRIALS (1 and 2)**

A SPRING WHEAT YIELD NURSERY, 1970 - 1971



**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

PLEASE RETURN THE RESULTS OF YOUR
INTERNATIONAL NURSERY AS SOON AS
POSSIBLE AFTER HARVEST.

Preliminary Summary of the Second
International Elite Selection Yield Trials

Numbers 1 and 2

1970-1971

The International Screening Nursery (ISN) and the International Spring Wheat Yield Nursery (ISWYN) have given wheat breeders considerable insight into the worth of a vast array of germ plasm. The ISN allows the testing of a large number of new lines of relatively unknown character with specific accent on disease reactions. The ISWYN is intended to test varieties which possess desirable traits over a wide range of climatic and edaphic conditions. However, neither the ISN nor ISWYN offer breeders an opportunity to assess the performance of newly selected lines of outstanding potential with a minimum of delays. The Elite Selection Yield Trial (ESYT) is an attempt to fill this gap.

Selected cooperators were invited to participate in these new experiments. Two separate trials (indicated as 1 and 2) were prepared and shipped in the standard manner used for all of our international nurseries. Cooperators were offered suggestions on what might be recorded and asked to return the results as soon as possible.

Some of the results from this season's plantings have been returned. These have been compiled into a preliminary report which will be updated as more returns are received.

The yield data from reporting locations has been summarized as the mean of the 4 replications and is presented in Kg./Ha. All other reported measurements and reactions represent the value recorded in the first replication. This incomplete reporting is an effort to reduce delays. More lengthy analyses will be performed at a later date. Scales used were internationally familiar scales unless otherwise noted. Measurements other than metric are noted in the column headings.

Our thanks to the cooperators for a job well done.

T A B L E S

ESYT - 1

ELITE SELECTION YIELD TRIALS (ESYT) 1

1970-71

Var. No.	Name	Cross	Pedigree
1	Pitic	Yaktana 54 x N10B 26-1C	7064-1Y-1H-1R-2M
2	Bluebird # 4A (B)	Ciano "S" x Son 64-Kl. Rend./8156	23584-26Y-2M-3Y-1M-0Y
3		Ciano "S"-Noroeste 66	25111-17M-3T-6M-1Y-0M
4	Yecora "S"	Ciano "S" x Son 64-Kl. Rend./8156	23584-26Y-2M-1Y-0M-1Y-0M
5	Inia 66	LR64-Son 64	19008-83M-100Y-100M-100Y-100C
6	Yecora "S"		23584-26Y-2M-1Y-0M-11Y-0M
7		Inia "S"-Napó	22398-39M-1R-0Y-101M-0Y
8	Saric "S"	Ciano "S" x Son 64-Kl. Rend./8156	23584-26Y-2M-2Y-0M-301M
9		Ciano "S"-Siete Cerros	25322-6M-1R-205M-300Y-101M
10	Siete Cerros	(Frontana x Kenya 58-Newthatch/ N10B)Gb55	8156-1M-2R-4M
11		Bluebird-Ciano 67	26592-1T-16M-1Y-300M-0Y
12		Norteño 67 x Ciano-Son 64	27868-28Y-1M-0Y
13		NP 876-Pj 62 x Cno-Pj 62	27983-21Y-1M-0Y
14		Bluebird-Norteño 67	27100-278M-1Y-6M-0Y
15	Tobari 66	TzPP-Son 64A	19021-4M-3Y-102M-100Y-101-C

Var. No.	Name	Cross	Pedigree
16		Bluebird-Ciano 67	26592-1T-17M-0Y
17		Inia "S"-Siete Cerros	27175-1M-1Y-1M-0Y
18		Inia-Bluebird	26478-32Y-7M-1Y-1M-0Y
19		Bluebird-Inia	26591-1T-7M-0Y-301M-0Y
20	Yecora 70	Ciano "S" x Son 64-Kl.Rend/8156	23584-26Y-2M-1Y-0M
21	Yecora "S"	Ciano "S" x Son 64-Kl.Rend/8156	23584-26Y-2M-1Y-0M-86Y-0M
22	Bluebird 4A (R)	Ciano "S" x Son 64-Kl.Rend/8156	23584-26Y-2M-3Y-1M-0Y
23		Chris-Bluebird	26448-1Y-1M-2Y-1M-0Y
24		Ciano "S"-Gallo	27829-19Y-2M-0Y
25		LR 64 ² -Son 64	19865-58M-100Y-100M-100Y-100M

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 1

Location by Country: United States of America State: California Station: Davis (U. of Calif.) Elevation: +15m Latitude: 38° 32' N Longitude: 121° 45' W

Cooperators' Names: J.A. Rupert, C. O. Qualset and M. Kohli Date Planted: 28 Jan., 1971 Date Harvested: Not Stated

No. of Irrigations: 2 No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 83.2N 0 P 0 K

Comments: Fall rains delayed planting two full months beyond optimum date giving yields lower than normal. Severe stripe rust was present but no data were returned. Moderately heavy infestation of aphids noted.

Entry No.	Entry Name	Rank	Days to maturity	Height cm.	Yield Kg/Ha	Test wgt. Kg/Hl
22	Bb 4 A (R)	1	130	68	6285	80.3
02	Bb 4 A (B)	2	132	70	6198	81.2
10	7 Cerros	3	136	90	6146	78.0
13	NP876-Pj62 x Cno-Pj 62	4	134	87	6146	80.7
20	Yecora 70	5	132	65	6137	80.3
12	Nor67 x Cno-S64	6	132	87	6128	79.4
04	Yecora "S"	7	131	65	6120	81.2
07	Inia "S" - Napo 63	8	133	55	6050	79.4
08	Saric "S"	9	131	65	5903	80.7
24	Cno "S" - Gallo	10	134	85	5894	79.4
21	Yecora "S" (B)	11	130	65	5712	80.7
01	Pi 62	12	136	90	5642	71.7
05	Inia 66	13	130	90	5608	81.6
09	Cno "S" - 7 Cerros	14	131	80	5573	82.6
25	LR 64 (2) - S64	15	135	70	5495	78.0
06	Yecora "S"	16	130	65	5469	80.3
03	Cno "S" - No 66	17	133	78	5451	81.2
19	Bb - Inia	18	134	65	5451	79.8
23	Chris - Bb	19	133	80	5443	80.7
17	Inia "S" - 7 Cerros	20	132	90	5373	78.0
15	Tobari 66	21	135	92	5330	78.5
18	Inia - Bb	22	132	85	5269	80.7
14	Bb - Nor 67	23	133	90	5078	78.9
11	Bb - Cno 67	24	131	70	4375	80.7
16	Bb - Cno 67	25	130	60	4332	79.4

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 2

Location by Country: United States of America State: North Dakota Station: Casselton Elevation: +213m Latitude: 47° N Longitude: 97° W

Cooperators' Names: Dekalb AgResearch - Spring Wheat Research Date Planted: 22 April, 1971 Date Harvested: Not Stated

No. of Irrigations: 0 No. of Days with Rains: Not Stated Total Amount of Moisture: 188 mm. Total Amount Fertilizer in kg/ha: 0 N 0 P 0 K

Comments: Soil tested high fertility with N= 202, P= 50, K= 460 Lbs/A. at pH 7.4. Climate normal throughout season. Stem and leaf rusts were slow in developing. No insect or weed problems observed.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Yield Kg/Ha	P.g.t. (stem)	P.r. (leaf)	Test wgt. Kg/Hl.	1000 grain wgt.
24	Ciano "S" - Gallo	1	64	108	79	5824	TRR	60S	75.3	44.0
25	LR64 ² - Son 64	2	66	107	67	5819	TRR	0	75.9	40.0
01	Pitic 62	3	69	109	88	5649	90S	80S	89.5	32.0
13	NP876-Pj62 x Cno-Pj62	4	66	108	77	5614	TRMR	TRMR	79.2	46.0
15	Tobari 66	5	66	109	77	5445	TRR	0	76.6	59.5
02	Bluebird 4A (B)	6	64	101	61	5131	TRR	TRR	75.9	42.0
06	Yecora "S"	7	64	104	61	5102	TRR	TRR	75.9	42.0
04	Yecora "S"	8	64	102	59	5080	TRR	TRMS	76.6	38.0
22	Bluebird 4A (R)	9	64	102	60	4990	TRR	0	74.0	38.0
20	Yecora 70	10	64	103	60	4952	TRR	20S	74.6	38.0
21	Yecora "S" (B)	11	64	103	62	4890	0	TRR	74.6	41.0
07	Inia "S" - Napo 63	12	64	105	56	4777	TRR	TRR	73.4	34.0
08	Saric "S"	13	64	106	61	4720	0	30S	74.6	39.0
10	Siete Cerros	14	70	108	87	4698	TRR	50S	72.7	31.0
03	Ciano "S" - Noroeste 66	15	61	103	72	4540	20S	20S	76.6	42.0
19	Bluebird - Inia	16	64	101	60	4511	TRMR	0	75.3	38.0
05	Inia 66	17	61	101	76	4492	TRR	60S	77.9	42.0
09	Ciano "S" - Siete Cerros	18	63	106	75	4395	TRR	0	77.9	38.0
17	Inia "S" - Siete Cerros	19	63	107	78	4317	TRR	0	72.7	39.0
14	Bluebird - Norteño 67	20	63	103	74	4121	TRR	0	75.3	40.5
12	Norteño 67 x Ciano - Son 64	21	63	104	71	4070	TRR	20MR	75.9	42.0
23	Chris - Bluebird	22	65	106	75	3813	TRR	60S	75.9	37.0
11	Bluebird - Ciano 67	23	60	101	60	3189	TRR	0	77.9	42.0
16	Bluebird - Ciano 67	24	64	102	60	3088	TRR	TRR	75.3	32.0
18	Inia - Bluebird	25	60	103	68	2922	TRR	20MS	76.6	38.0

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 3

Location by Country: United States of America State: Colorado Station: Fort Collins (Cargill Inc.) Elevation: +1524m Latitude: 105° N Longitude: 41° W

Cooperators' Names: B. C. Curtis, D. R. Johnson, B. J. Roberts and H. A. Mann Date Planted: 26 March, 1971 Date Harvested: Not Stated

No. of Irrigations: 3 No. of Days with Rains: Not Stated Total Amount of Moisture: 559 mm. Total Amount Fertilizer in kg/ha: 112 N 0 P 0 K

Comments: Temperatures and precipitation were normal. Hail-storm during boot stage; damage not stated. Leaf rust development was normal and stem rust was poor. No broad leaf weed problems. A few grassy weeds were observed.

Entry No.	Entry Name	Rank	Days to flower	Yield Kg/Ha	P. r. (leaf)	Test wgt. Kg/HI
01	Pitic 62	1	86	5969	S	77.9
10	Siete Cerros	2	85	5336	S	81.7
13	NP 876 - Pj62 x Cno - Pj62	3	82	4799	R-MR	82.4
24	Ciano "S" - Gallo	4	82	4496	MR	82.4
25	LR64 ² - Son 64	5	86	4347	R-MR	80.0
15	Tobari 66	6	83	4117	R	81.7
04	Yecora "S"	7	81	3989	MR	80.4
07	Inia "S" - Napo 63	8	83	3861	R-MS	78.5
17	Inia "S" - Siete Cerros	9	83	3836	R	79.2
02	Bluebird 4A (B)	10	81	3786	MR R	80.0
03	Ciano "S" - Noroeste 66	11	81	3657	MR	80.0
09	Ciano "S" - Siete Cerros	12	81	3581	MR	80.4
12	Norteño 67 x Cno-Son64	13	82	3530	MS-S	78.5
21	Yecora "S" (B)	14	83	3530	MR-MS	80.0
08	Saric "S"	15	83	3507	R	78.5
20	Yecora 70	16	85	3504	MR-R	79.2
22	Bluebird 4A (R)	17	84	3403	R-MR	80.0
23	Chris - Bluebird	18	83	3226	S	80.0
06	Yecora "S"	19	83	3123	R	79.2
19	Bluebird - Inia	20	81	3023	R-MR	80.0
18	Inia - Bluebird	21	81	2819	MR-MS	78.5
05	Inia 66	22	82	2737	S	80.0
14	Bluebird - Norteño 67	23	83	2617	R	80.0
11	Bluebird - Ciano 67	24	80	2616	MR-MS	77.2
16	Bluebird - Ciano 67	25	81	2490	MR-R	77.9

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 4

Location by Country: United States of America State: Arizona Station: Yuma Elevation: +51m Latitude: 32° 40' N Longitude: 114°36'W

Cooperators Names: Northrup King and Co.

Date Planted: Dec. 21, 1970

Date Harvested:

No. of Irrigations: 6 No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 150 N 75 P₂O₅ 0 K₂O

Comments: Lodging and shattering scale 1-9, with 1= best and 9= worst. Volunteer alfalfa controlled with 2, 4-D. No other weed, pest or disease problems. Experiment planted about 4 weeks later than optimum. (Seed Recd. Dec. 15, 1970).

Entry No.	Entry Name	Rank	Days to flower	Height cm.	Lodging	Yield Kg/Ha	Shattering	Test wgt. Kg/Hl
21	Yecora "S" (B"	1	104	79	1	5989	2	77.1
01	Pitic 62	2	103	107	7	5953	1	75.6
25	LR64 ² - Son 64	3	99	76	1	5921	1	76.6
24	Ciano "S" - Gallo	4	100	89	2	5686	1	76.3
13	NP876-Pj62 x Ciano - Pj62	5	97	84	1	5665	1	79.2
22	Bluebird 4A (R)	6	103	76	1	5632	2	76.8
02	Bluebird 4A (B)	7	99	74	1	5613	1	78.2
04	Yecora "S"	8	100	71	1	5457	1	78.1
20	Yecora 70	9	96	69	1	5433	1	77.4
08	Saric "S"	10	100	71	1	5367	1	77.7
10	Siete Cerros	11	104	94	3	5348	1	76.7
06	Yecora "S"	12	101	69	1	5315	1	77.1
07	Inia "S" - Napo 63	13	102	66	1	5136	1	75.0
14	Bluebird - Norteño 67	14	98	91	1	4948	1	77.0
19	Bluebird - Inia	15	97	66	1	4881	1	77.7
09	Ciano "S" - Siete Cerros	16	98	74	1	4849	1	78.4
05	Inia 66	17	102	104	3	4845	7	77.0
03	Ciano "S" - Noroeste 66	18	99	84	1	4777	1	74.0
15	Tobari	19	102	89	1	4749	1	75.7
11	Bluebird - Ciano	20	94	71	1	4616	1	77.9
23	Chris - Bluebird	21	100	94	1	4254	4	77.5
16	Bluebird - Ciano	22	95	69	1	4036	1	75.7
12	Norteño 67 x Ciano - Son64	23	99	94	1	4034	1	77.1
17	Inia "S" - Siete Cerros	24	102	104	2	3527	7	73.2
18	Inia - Bluebird	25	98	91	1	3419	1	75.6

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 5

Location by Country: USSR Leningrad Station: N. I. Vavilov All Union Institute Elevation: +478m Latitude: 42°22'N Longitude: 69°19' E

Cooperators' Names: K. Budin Date Planted: 26 March, 1971 Date Harvested: June, 1971

No. of Irrigations: 2 No. of Days with Rains: Not Stated Total Amount of Moisture: 263.3 mm. Total Amount Fertilizer in kg/ha: 90 N 140 P 30 K

Comments: Weeds were controlled by hand. Fertilizers applied mostly as post emergence. General plant development was good.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Yield Kg/Ha	Test wgt. Kg/Hl	Helmintho-sporium %	1000 grain wgt.
12	Norteño 67 x Ciano-Son64	1	42	77	70	3218	81.5	75	34.0
20	Yecora 70	2	46	77	50	3171	76.6	50	27.6
04	Yecora "S"	3	46	77	48	3123	77.0	50	24.4
05	Inia 66	4	42	75	75	2936	81.5	75	30.6
14	Bluebird - Norteño 67	5	44	77	75	2638	80.4	75	35.8
03	Ciano "S" - Noroeste 66	6	42	77	65	2520	78.2	75	28.4
21	Yecora "S" (B)	7	43	72	65	2490	77.2	75	30.2
25	LR64 ² - Son 64	8	48	77	55	2460	75.6	75	27.6
02	Bluebird 4A (B)	9	46	77	50	2451	76.2	75	27.6
17	Inia "S" - Siete Cerros	10	45	77	67	2405	80.0	75	28.4
06	Yecora "S"	11	44	76	55	2329	77.3	50	28.8
24	Ciano "S" - Gallo	12	47	77	70	2311	77.8	75	28.0
22	Bluebird 4A (R)	13	48	77	60	2253	77.4	75	27.6
23	Chris - Bluebird	14	44	75	69	2173	79.7	75	27.6
19	Bluebird - Inia	15	41	75	50	2136	79.2	75	28.2
15	Tobari 66	16	45	79	75	2098	77.9	75	27.2
11	Bluebird - Ciano 67	17	44	77	66	2075	80.4	75	30.4
13	NP876-Pj62 x Cno - Pj62	18	46	79	65	2075	76.5	75	24.8
08	Saric "S"	19	48	77	59	2012	76.6	50	32.0
07	Inia "S" - Napo 63	20	46	77	44	1944	77.7	75	26.0
09	Ciano "S" - Siete Cerros	21	41	72	52	1910	71.2	75	30.0
16	Bluebird - Ciano 67	22	41	75	55	1791	76.5	75	24.4
18	Inia - Bluebird	23	42	77	65	1720	79.6	75	32.0
01	Pitic 62	24	52	79	75	1866	68.1	75	20.8
10	Siete Cerros	25							

Entry withheld from experiment

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 6

Location by Country: India State: Punjab Station: Ludhiana Elevation: +247m Latitude: 36° 56'N Longitude: 70° 52'E
 Cooperators' Names: S. C. Anand Date Planted: 24 Dec., 1970 Date Harvested: Not Stated
 No. of Irrigations: 6 No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 120N 60P₂O₅ 0K₂O
 Comments: Climate remained dry. There was little rainfall during February. Toward the end of season, it was warmer than usual. Severe leaf rust but no other problems. Scale F (Free), Trace (T), Light (L), and Heavy (H).

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Lodging %	Yield Kg/Ha	P. r. (leaf)
18	Inia - Bluebird	1	81	111	80	0	2880	L
10	Siete Cerros	2	90	118	76	0	2696	H
21	Yecora "S" (B")	3	85	114	60	0	2587	T
14	Bluebird - Norteño 67	4	82	112	76	0	2500	F
05	Inia 66	5	79	110	76	10	2489	F
09	Ciano "S" - Siete Cerros	6	87	117	68	0	2478	F
08	Saric "S"	7	85	114	60	30	2424	F
03	Ciano "S" - Noroeste 66	8	78	111	67	0	2402	T
06	Yecora "S"	9	83	117	64	10	2391	T
12	Norteño 67 x Ciano-Son64	10	82	118	82	20	2391	T
16	Bluebird - Ciano 67	11	77	110	60	0	2391	F
13	NP876-Pj62 x Cno v Pj62	12	82	120	66	0	2315	L
20	Yecora 70	13	82	112	63	10	2250	T
25	LR64 ² -Son64	14	82	114	65	0	2206	T
11	Bluebird - Ciano 67	15	79	113	68	0	2174	F
22	Bluebird 4A (R)	16	82	114	64	0	2152	T
24	Giano "S" - Gallo	17	86	114	78	0	2120	F
07	Inia "S" - Napo 63	18	87	113	64	10	2120	F
01	Pitic 62	19	89	114	83	0	2087	L
02	Bluebird 4A (B)	20	82	114	58	10	2087	T
23	Chris - Bluebird	21	85	114	86	0	1946	F
04	Yecora "S"	22	79	113	58	0	1902	F
19	Bluebird - Inia	23	78	116	58	0	1739	F
15	Tobari 66	24	83	118	82	0	1728	T
17	Inia "S" - Siete Cerros	25	86	116	89	10	1685	F

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 7

Location by Country: Morocco Station: Merchouch Elevation: +395m Latitude: 33° 33' N Longitude: 6° 42' W
 Cooperators' Names: A. Acosta Date Planted: 28 Dec., 1970 Date Harvested: Not Stated
 No. of Irrigations: None No. of Days with Rains: Not Stated Total Amount of Moisture: 700 mm. Total Amount Fertilizer in kg/ha: 150N 60P₂O₅ 60K₂O
 Comments: Sunshine less than average. Low temperatures during April through June. Excess rainfall. Good Septoria, leaf rust and stripe rust, Hessian fly, wheat stem maggot, wild oats and excess water were problems.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Yield Kg/Ha	Septoria spp %
17	Inia "S" - Siete Cerros	1	88	163	95	3961	20
24	Ciano "S" - Gallo	2	87	163	80	3651	20
02	Bluebird 4A (B)	3	88	140	75	3280	30
15	Tobari 66	4	85	141	85	3270	20
20	Yecora 70	5	88	141	70	3254	40
04	Yecora "S"	6	88	142	70	3246	50
14	Bluebird - Norteño 67	7	88	142	70	3217	25
22	Bluebird 4A (R)	8	88	-	75	3121	30
05	Inia 66	9	84	141	85	3119	25
06	Yecora "S"	10	88	143	75	3076	25
03	Ciano "S" - Noroeste 66	11	87	160	85	3056	30
21	Yecora "S" (B)	12	88	-	75	3007	50
18	Inia - Bluebird	13	86	143	85	2967	20
23	Chris - Bluebird	14	88	-	90	2956	35
07	Inia "S" - Napo 63	15	89	-	76	2944	25
10	Siete Cerros	16	-	-	100	2934	25
19	Bluebird - Inia	17	87	141	65	2886	30
01	Pitic 62	18	89	163	95	2857	25
08	Saric "S"	19	89	143	75	2811	25
12	Norteño 67 x Ciano-Son64	20	89	143	80	2743	30
13	NP876-Pj62 x Ciano-Pj62	21	87	160	80	2707	20
25	LR64 ² -Son64	22	87	141	75	2707	30
09	Ciano "S" - Siete Cerros	23	88	-	80	2705	25
16	Bluebird - Ciano 67	24	86	141	70	2500	40
11	Bluebird - Ciano 67	25	85	139	75	2150	50

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 8

Location by Country: Morocco Station: Cotonniere-Beni Mellal Elevation: +500 m Latitude: 32° 20' N Longitude: 6° 17' W
 Cooperators' Names: A. Acosta Date Planted: 30 Jan., 1971 Date Harvested: July, 1971
 No. of Irrigations: None No. of Days with Rains: Not Stated Total Amount of Moisture: 528 mm. Total Amount Fertilizer kg/ha: 170N 60P₂O₅ 60K₂O
 Comments: Rainfall fairly well distributed after planting. Short crop cycle due to high temperatures in late May and June. A little leaf and stem rust but heavy infestation of weeds and wild oats.

Entry No.	Entry Name	Rank	Days to flower	Height cm.	Yield Kg/Ha
18	Inia - Bluebird	1	75	80	3515
14	Bluebird - Norteño 67	2	77	95	3486
24	Ciano "S" - Gallo	3	78	90	3229
23	Chris - Bluebird	4	78	95	3206
21	Yecora "S" (B)	5	77	65	3179
08	Saric "S"	6	79	70	3162
11	Bluebird - Ciano 67	7	77	60	3154
05	Inia 66	8	75	85	3101
02	Bluebird 4A (B)	9	79	70	3084
13	NP876-Pj62 x Ciano-Pj62	10	77	80	3084
17	Inia "S" - Siete Cerros	11	79	95	3046
09	Ciano "S" - Siete Cerros	12	75	75	2983
22	Bluebird 4A (R)	13	76	65	2934
20	Yecora 70	14	76	65	2855
10	Siete Cerros	15	82	85	2770
06	Yecora "S"	16	77	65	2731
12	Norteño 67 x Ciano-Son64	17	77	90	2677
16	Bluebird - Ciano 67	18	75	65	2653
19	Bluebird - Inia	19	75	65	2584
07	Inia "S" - Napo 63	20	80	60	2492
04	Yecora "S"	21	76	60	2481
25	LR64 ² -Sonora 64	22	79	70	2435
01	Pitic 62	23	83	90	2404
03	Ciano "S" - Noroeste 66	24	75	80	2332
15	Tobari 66	25	77	90	2287

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 9

Location by Country: Tunisia Station: Manouhal (Tunis) Elevation: +10 m Latitude: 37° N Longitude: 10° E
 Cooperators' Names: Acpp and INRAT Date Planted: 24 Dec., 1970 Date Harvested: Not Stated
 No. of Irrigations: 8 No. of Days with Rains: Not Stated Total Amount of Moisture: 473 mm. Total Amount Fertilizer in kg/ha: 62N 31P 0K
 Comments: Irrigation helped disease development. Seasonal rains were late, but otherwise normal. Hot winds during April and May. Cereal leaf beetle was present but was not a serious problem. Septoria and mildew scales presumed to be 0 (good)-9 scale with severity noted as with rust scale.

Entry No.	Entry Name	Rank	Days to flower	Height cm.	Yield Kg/Ha	P. r. (leaf)	P. s. (stripe)	Septoria tritici
25	LR64 ² -Son 64	1	110	80	3773	0	TRR	0
02	Bluebird 4A (B)	2	109	80	3557	0	TRR	0
01	Pitic 62	3	112	100	3535	20S	10MS	3, S
21	Yecora "S" (B)	4	110	80	3499	0	5S	0
16	Bluebird - Ciano 67	5	110	70	3446	0	0	0
08	Saric "S"	6	110	80	3394	0	TRR	8, TRMR
09	Ciano "S" - Siete Cerros	7	109	-	3381	0	0	-
15	Tobari 66	8	108	90	3368	0	0	0
18	Inia - Bluebird	9	109	90	3359	0	5MS	8, TRR
06	Yecora "S"	10	109	-	3339	0	0	-
24	Ciano "S" - Gallo	11	110	90	3311	0	0	8, 5MS
05	Inia 66	12	108	95	3299	0	TRMR	8, S
04	Yecora "S"	13	109	75	3245	0	5MS	0
07	Inia "S" - Napo 63	14	110	70	3133	0	0	0
20	Yecora 70	15	110	75	3131	0	5MS	0
11	Bluebird - Ciano 67	16	109	75	3128	10R	0	0
13	NP876-Pj62 x Ciano-Pj62	17	108	95	3127	0	0	7MS
14	Bluebird - Norteño 67	18	110	-	3111	0	0	0
10	Siete Cerros	19	110	-	3083	80S	40S	-
23	Chris - Bluebird	20	110	90	3079	0	5S	8, TRR
03	Ciano "S" - Noroeste 66	21	109	85	3032	TRR	0	0
22	Bluebird 4A (R)	22	110	80	3004	0	0	0
19	Bluebird - Inia	23	110	75	2997	0	0	0
17	Inia "S" - Siete Cerros	24	111	105	2997	0	0	0
12	Norteño 67 x Ciano-Son64	25	109	90	2849	0	TRMS	0

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 10

Location by Country: Tunisia Station: Krib Elevation: Not Stated Latitude: Not Stated Longitude: Not Stated

Cooperators' Names: ACPP and INRAT Date Planted: 30 Dec., 1970 Date Harvested: Not Stated

No. of Irrigations: Not Stated No. of Days with Rains: Not Stated Total Amount of Moisture: 597 Total Amount Fertilizer in kg/ha: Not Stated

Comments: None

Entry No.	Entry Name	Rank	Days to flower	Yield Kg/Ha
17	Inia "S" - Siete Cerros	1	122	2693
04	Yecora "S"	2	122	2367
15	Tobari 66	3	121	2319
10	Siete Cerros	4	130	2317
16	Bluebird - Ciano 67	5	124	2271
21	Yecora "S" (B)	6	124	2251
11	Bluebird - Ciano 67	7	123	2246
18	Inia - Bluebird	8	121	2232
07	Inia "S" - Napo 63	9	127	2217
09	Ciano "S" - Siete Cerros	10	125	2187
20	Yecora 70	11	125	2157
01	Pitic 62	12	124	2152
25	LR64 ² -Son64	13	125	2103
22	Bluebird 4A (R)	14	123	2063
06	Yecora "S"	15	126	2036
12	Norteño 67 x Ciano-Son64	16	121	2003
14	Bluebird - Norteño 67	17	123	1957
08	Saric "S"	18	125	1942
13	NP876-Pj62 x Ciano-Pj62	19	119	1876
05	Inia 66	20	118	1868
24	Ciano "S" - Gallo	21	119	1834
03	Ciano "S" - Noroeste 66	22	123	1814
23	Chris - Bluebird	23	123	1809
02	Bluebird 4A (B)	24	124	1789
19	Bluebird - Inia	25	124	1720

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 11

Location by Country: Lebanon Station: Kfar Dane Bekaa Valley Elevation: +1100 m Latitude: 37° 80' N Longitude: 40° 80' E
 Cooperators' Names: G. Kingma and M.A. Antoun Date Planted: 6 Jan., 1971 Date Harvested: Not Stated
 No. of Irrigations: 1 No. of Days with Rains: Not Stated Total Amount of Moisture: 425 mm. Total Amount Fertilizer in kg/ha: 100N 60P₂O₅ 0K₂O
 Comments: Cool from January through March. Heavy rain in April. Dry in May and very dry in June. No disease, insect or pest problems.

Entry No.	Entry Name	Rank	Height	Yield Kg/Ha
10	Siete Cerros	1	E2 ⁻	2492
09	Ciano "S" - Siete Cerros	2	E1 ⁺	2392
19	Bluebird - Inia	3	E2 ⁺	2042
20	Yecora 70	4	E2 ⁺	1975
24	Ciano "S" - Gallo	5	E2 ⁻	1925
01	Pitic 62	6	E2 ⁻	1875
11	Bluebird - Ciano 67	7	E2 ⁺	1850
02	Bluebird 4A (B)	8	E3	1800
08	Saric "S"	9	E3 ⁻	1758
05	Inia 66	10	E2 ⁻	1717
04	Yecora "S"	11	E3	1692
06	Yecora "S"	12	E3 ⁻	1692
15	Tobari 66	13	E2	1692
16	Bluebird - Ciano 67	14	E2	1683
25	LR64 ² - Son64	15	E3 ⁻	1650
07	Inia "S" - Napo 63	16	E3 ⁺	1633
17	Inia "S" - Siete Cerros	17	E2 ⁻	1617
22	Bluebird 4A (R)	18	E3	1608
03	Ciano "S" - Noroeste 66	19	E2 ⁺	1575
21	Yecora "S" (B)	20	E3 ⁻	1522
12	Norteño 67 x Ciano-Son64	21	E2	1475
13	NP876-Pj62 x Ciano-Pj62	22	E2	1367
14	Bluebird-Norteño 67	23	E2	1317
23	Chris - Bluebird	24	E2	1258
18	Inia - Bluebird	25	E1 ⁺	883

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 12

Location by Country: Republic of South Africa Station: Rode Plaat Elevation: +1164m Latitude: 25° 35' S Longitude: 28° 21' E

Cooperators' Names: D. T. Rossoow, L. Robertson, W. Voigt and D. Malan. Date Planted: 27 May, 1971 Date Harvested: Not Stated

No. of Irrigations: Not Stated No. of Days with Rains: Not Stated Total Amount of Moisture: 780mm. Total Amount Fertilizer in kg/ha: 140N 23P 30K

Comments: Conditions were dry from planting to maturity and then excessive rains during harvest. Experiment escaped disease this year. Few insect or weed problems observed.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Lodging %	Yield Kg/Ha	Shattering %	Test wgt. Kg/Hl	1000 grain wgt.
02	Bluebird 4A (B)	1	117	161	70	20	7369	0	77.0	41.0
07	Inia "S" - Napo 63	2	125	160	65	0	6962	0	77.0	38.0
21	Yecora "S" (B)	3	119	160	70	20	6802	0	74.0	45.0
04	Yecora "S"	4	114	150	65	0	6771	0	75.0	38.0
08	Saric "S"	5	119	155	70	0	6729	5	70.0	40.0
22	Bluebird 4A (R)	6	119	155	70	40	6657	0	77.0	33.0
20	Yecora 70	7	117	160	75	0	6511	0	76.0	40.0
19	Bluebird - Inia	8	115	155	65	0	6431	0	79.0	40.0
14	Bluebird - Norteño 67	9	117	154	95	20	6299	0	78.0	41.0
25	LR64 ² - Sonora 64	10	116	155	75	0	6195	0	77.0	36.0
05	Inia 66	11	117	150	90	40	6099	0	80.0	40.0
23	Chris - Bluebird	12	118	155	85	0	5933	0	81.0	39.0
10	Siete Cerros	13	124	160	90	20	5919	0	78.0	37.0
24	Ciano "S" - Gallo	14	118	155	95	50	5752	0	75.0	41.0
03	Ciano "S" - Noroeste 66	15	116	150	80	0	5692	0	80.0	39.0
01	Pitic 62	16	120	155	80	60	5647	0	72.0	39.0
06	Yecora "S"	17	118	153	75	0	5519	0	75.0	41.0
09	Ciano "S" - Siete Cerros	18	118	155	70	15	5514	0	79.0	38.0
15	Tobari 66	19	116	154	85	60	5458	0	77.0	34.0
18	Inia - Bluebird	20	114	145	90	40	5355	20	79.0	40.0
17	Inia "S" - Siete Cerros	21	116	160	100	20	5348	0	78.0	41.0
13	NP876-Pj62 x Ciano - Pj62	22	116	154	90	70	5339	0	81.0	37.0
12	Norteño 67 x Ciano - Son64	23	115	150	90	60	5252	0	78.0	38.0
11	Bluebird - Ciano 67	24	112	145	70	0	4313	0	77.0	41.0
16	Bluebird - Ciano 67	25	113	150	70	0	4257	20	77.0	40.0

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 13

Location by Country: Mexico State: Mexico Station: Toluca Elevation: +2675m Latitude: 19° N Longitude: 100° W

Cooperators' Name: CIMMYT

Date Planted: 15 June, 1971

Date Harvested: 15 October, 1971

No. of Irrigations: Not Stated No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 80N 60P₂O₅ 0K₂O

Comments: No insect or weed problems. Rust development was slow. Height given in dwarf scale of E1 (tall) and E3 (most dwarfed) with superscripts indicating more dwarfed (+) or less (-).

Entry No.	Entry Name	Rank	Days to flower	Height	Lodging %	Yield Kg/Ha	P.g.t. (stem)	P.r. (leaf)
24	Ciano "S" - Gallo	1	71	E1 ⁺	10	6833	TR	5MR
20	Yecora 70	2	70	E2 ⁺	0	6667	5MR	5MR
03	Ciano "S" - Noroeste 66	3	67	E2 ⁻	0	6604	TMR	5MS
22	Bluebird 4A (R)	4	73	E2 ⁺	80	6542	TMR	5MR
05	Inia 66	5	66	E1	0	6521	TR	10MS
21	Yecora "S" (B)	6	70	E2 ⁺	5	6469	TR	10MR
08	Saric "S"	7	74	E2	100	6427	TMR	10MS
02	Bluebird 4A (B)	8	73	E2	100	6236	0	10MR
17	Inia "S" - Siete Cerros	9	71	E1 ⁺	100	6198	TR	10MR-MS
10	Siete Cerros	10	85	E1	0	6104	TR	10MS
06	Yecora "S"	11	73	E2 ⁺	0	6052	TR	20MS
09	Ciano "S" - Siete Cerros	12	70	E2 ⁻	0	6031	0	TMR
23	Chris - Bluebird	13	69	E1 ⁺	30	5864	TR	10MR
04	Yecora "S"	14	69	E3 ⁻	0	5708	TR	10MS
18	Inia - Bluebird	15	66	E2	0	5708	TR	10MR-MS
14	Bluebird - Norteño 67	16	69	E1 ⁺	0	5635	0	5MS
15	Tobari 66	17	71	E1 ⁺	100	5594	0	10MS
13	NP876-Pj62 x Ciano-Pj62	18	72	E1 ⁺	100	5573	TMS	10MS
19	Bluebird - Inia	19	70	E2 ⁺	0	5573	TMR	10MR
25	LR64 ² -Son64	20	75	E2	5	5375	0	5MR
12	Norteño 67 x Ciano-Son64	21	68	E2 ⁻	80	5146	0	5MS
16	Bluebird - Ciano 67	22	66	E2 ⁺	0	4198	5MR	5MS
11	Bluebird - Ciano 67	23	66	E2 ⁺	0	4010	0	10MR
07	Inia "S" - Napo 63	24	75	E3 ⁻	0	3906	TR	10MR
01	Pitic 62	25	88	E1 ⁻	100	1698	60S	10S

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 14

Location by Country: Mexico State: Sonora Station: CIANO (Obregon) Elevation: +40m Latitude: 27° 20'N Longitude: 109° 54' W
 Cooperators' Names: CIMMYT Date Planted: 8 Nov., 1970 Date Harvested: April, 1971
 No. of Irrigations: Not Stated No. of Days with Rains: None Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: Not Stated
 Comments: No pests, weeds or diseases reported. Season was considered normal.

Entry No.	Entry Name	Rank	Yield Kg/Ha	Test wgt. Kg/Hl	PK	Protein %	P/G	W	Seed Index	Mixogram	Mixing Time	Loaf Volume cc.
20	Yecora 70	1	10198	81.2	157	13.3	4.1	454	64.0	7	4.0	800
22	Bluebird 4A (R)	2	10104	-	114	13.7	-	-	68.0	7	3.5	225
06	Yecora "S"	3	10052	80.6	>159	12.5	5.7	421	55.0	7	4.2	950
21	Yecora "S" (B)	4	9906	80.7	>158	12.6	4.1	356	54.9	6	3.1	630
08	Saric "S"	5	9615	79.0	>168	13.8	3.5	417	70.0	7	4.0	250
02	Bluebird 4A (B)	6	9489	79.8	>159	13.3	4.5	533	67.6	7	3.5	930
07	Inia "S" - Napo 63	7	9323	79.2	118	12.1	1.6	118	48.0	6	2.6	200
03	Ciano "S" - Noroeste 6b	8	9208	82.8	157	13.7	3.0	376	56.3	5	2.2	955
19	Bluebird - Inia	9	9042	82.0	>154	13.0	3.7	402	55.7	7	3.4	245
25	LR64 ² -Son 64	10	8979	79.7	29	11.0	2.8	295	27.3	7	3.6	215
04	Yecora "S"	11	8781	80.9	>159	13.2	5.2	440	59.5	7	4.0	895
10	Siete Cerros	12	8604	81.3	81	13.2	5.7	347	50.0	7	2.3	745
01	Pitic 62	13	8458	71.0	44	8.7	6.4	161	27.7	4	1.4	695
05	Inia 66	14	8396	84.0	>147	13.1	3.0	408	74.5	7	3.3	845
14	Bluebird - Norteño 67	15	8365	81.5	146	13.8	2.9	419	57.4	6	3.2	215
24	Ciano "S" - Gallo	16	8271	80.4	>153	14.2	2.6	351	66.3	5	2.3	230
15	Tobari 66	17	8187	82.0	>164	13.7	4.1	513	59.8	7	3.2	880
18	Inia - Bluebird	18	7856	82.4	>153	13.2	2.3	377	55.8	6	3.2	210
17	Inia "S" - Siete Cerros	19	7854	80.4	>164	13.2	3.0	285	39.6	6	4.3	230
12	Norteño 67 x Ciano-Son64	20	7635	81.6	>157	13.5	3.2	395	59.0	7	3.5	235
23	Chris - Bluebird	21	7542	81.5	>153	13.2	3.4	259	35.7	1	2.0	265
09	Ciano "S" - Siete Cerros	22	7500	82.9	105	13.8	5.5	404	67.0	7	3.4	250
13	NP876-Pj62 x Ciano-Pj62	23	7448	84.3	145	13.8	3.5	417	61.7	7	3.1	255
11	Bluebird - Ciano 67	24	6562	81.8	>151	13.5	3.8	483	70.0	7	3.6	275
16	Bluebird - Ciano 67	25	6125	81.9	>153	13.9	2.7	405	64.9	7	2.6	225

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 1 (1970-71)

TABLE 15. Overall mean yields for the varieties of the Second International Elite Selection Yield Trial - 1 (1970-71) (14 Locations).

Entry No.	Entry Name	Rank	Yield Kg/Ha
20	Yecora 70	1	4442
02	Bluebird 4A (B)	2	4419
21	Yecora "S" (B)	3	4417
24	Ciano "S" - Gallo	4	4367
22	Bluebird 4A (R)	5	4339
04	Yecora "S"	6	4283
08	Saric "S"	7	4269
25	LR64 ² -Son 64	8	4248
10	Siete Cerros	9	4175
06	Yecora "S"	10	4159
17	Inia "S" - Siete Cerros	11	4110
05	Inia 66	12	4088
13	NP876-Pj62 x Ciano-Pj62	13	4081
03	Ciano "S" - Noroeste 66	14	4047
07	Inia "S" - Napo 63	15	4036
01	Pitic 62	16	3985
15	Tobari 66	17	3974
09	Ciano "S" - Siete Cerros	18	3963
14	Bluebird - Norteño 67	19	3949
19	Bluebird - Inia	20	3930
12	Norteño 67 x Ciano-Son64	21	3796
23	Chris - Bluebird	22	3750
18	Inia - Bluebird	23	3636
11	Bluebird - Ciano 67	24	3318
16	Bluebird - Ciano 67	25	3233

T A B L E S

ESYT - 2

ELITE SELECTION YIELD TRIALS (ESYT) 2

1970-71

Var. No.	Name	Cross	Pedigree
1	Yecora "S"	Ciano "S" x Son 64-Kl.Rend/8156	23584-26Y-2M-1Y-0M-89Y
2		Ciano "S"-Inia 66	25717-11Y-3M-1Y-0M
3	Bluebird 4A (R)	Ciano "S" x Son 64-Kl.Rend/8156	23584-26Y-2M-3Y-1M-0Y
4		Kalyan-Bluebird	26902-30M-1Y-1M-0Y
5		Ciano ² x Son 64-Kl.Rend.	26529-3T-7M-4Y-4M-0Y
6	Inia 66	LR 64-Son 64	19008-83M-100Y-100M-100Y
7	Bluebird (R)	Ciano "S" x Son 64-Kl.Rend/8156	23584-102M-103Y-100M-0Y
8		Bluebird-Ciano 67	26592-1T-16M-1Y-1M-0Y
9		Ciano "S"-Son 64	23582-50Y-3M-0Y
10		Inia 67-Cal (Inia "S"/Son64-Y50 _E xGto)	28647-67Y-1M-0Y
11	Yecora "S" (R)	Ciano "S" x Son 64-Kl.Rend/8156	23584-26Y-2M-1Y-0M (6-10Y)
12		Bluebird-Inia	26591-1T-7M-0Y
13		LR 64-Son 64 ² x Tob 66	27180-26M-4Y-3M-0Y
14	Saric 70	Ciano "S" x Son 64-K.Rend/8156	23584-26Y-2M-2Y-0Y
15		Cpo-Cno(Son 64 x TzPP-Y54/Cno)	25820-16Y-1M-1Y-1M-0Y
16		Inia-Bluebird	26478-32Y-9M-1Y-5M-0Y

Var. No.	Name	Cross	Pedigree
17	Penjamo 62	Frontana x Kenya 58-Newthatch/N10B	7078-1R-6M-1R-1M
18	Yecora "S" (R)	Ciano "S" x Son 64-Kl.Rend/8156	23584-26Y-2M-1Y-0M-302M
19		Jar "S"-Napó x Sharbati	28048-20Y-2M-0Y
20		Jar ² x Men-8156	26787-300Y-300M-302Y-301M-0Y
21	Tobari 66	TzPP-Son 64A	19021-4M-3Y-102M-100Y-101C
22		(Son 64-Y50 _E x Gto/Inia)(Cno "S"- Son 64)	28084-1Y-4M-0Y
23		Cal/Cno "S" x LR 64 ² -Son 64	27169-48M-1Y-1M-0Y
24	Bluebird # 4(R) Resel	Ciano "S" x Son 64-Kl.Rend/8156	23584-26Y-2M-3Y-2M-0Y-300M
25	Siete Cerros	(Frontana x Kenya 58-Newthatch/ N10B) Gb55	8156-1M-2R-4M

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 1

Location by Country: United States of America State: California Station: Davis (U. of Calif.) Elevation: +15m Latitude: 38° 32'N Longitude: 121° 45' W

Cooperators' Names: J. A. Rupert, C. O. Qualset and M. Kohli Date Planted: 28 Jan., 1971 Date Harvested: Not Stated

No. of Irrigations: 2 No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 83.2N 0P 0K

Comments: Fall rains delayed planting two full months beyond optimum date giving yields lower than normal. Severe stripe rust was present but no data were returned. Moderately heavy infestation of aphids noted.

Entry No.	Entry Name	Rank	Days to maturity	Height cm.	Yield Kg/Ha	Test wgt. Kg/Hl
07	Bluebird (R)	1	134	80	7335	79.0
18	Yecora "S" (R)	2	131	65	6840	80.8
11	Yecora "S" (R)	3	130	65	6675	80.8
01	Yecora "S"	4	130	68	6658	80.8
14	Saric 70	5	130	68	6484	79.9
10	Inia-Cal(Inia"S"/S64-Y50 _E xGto)	6	135	75	6354	80.3
25	Siete Cerros	7	138	85	6302	77.6
17	Penjamo 62	8	136	85	6293	79.0
06	Inia	9	132	85	6241	83.0
22	(S64-Y50 _E xGto/Inia)(Cno"S"-S64)	10	137	75	6215	79.9
24	Bluebird 4 (R) Resel	11	134	65	6172	79.9
13	LR64-S64 ² x Tob 66	12	135	80	6085	79.9
12	Bluebird - Inia	13	132	68	5955	81.2
15	Cpo-Cno(S64 x Tzpp-Y54/Cno)	14	132	80	5938	79.9
09	Ciano "S" - Son 64	15	133	75	5920	81.2
23	Cal/Cno "S"xLR64 ² -Son 64	16	134	80	5920	77.6
20	Jar ² x Men-8156	17	135	78	5842	78.0
02	Cno "S" - Inia 66	18	133	80	5812	80.8
04	Kalgan - Bluebird	19	135	60	5790	77.2
03	Bluebird 4A (B)	20	130	70	5793	80.8
16	Inia - Bluebird	21	133	80	5694	82.6
19	Jar"S"-Napo x Sharbati	22	132	80	5642	79.9
05	Cno ² xS64-Kl.Rend	23	131	70	5482	81.2
21	Tobari	24	137	85	5295	79.4
08	Bluebird - Ciano 67	25	131	65	5017	78.1

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 2

Location by Country: United States of America State: North Dakota Station: Casselton Elevation: 213m⁺ Latitude: 47° N Longitude: 97° W

Cooperators' Names: Dekalb AgResearch-Spring Wheat Research Date Planted: 22 April, 1971 Date Harvested: Not Stated

No. of Irrigations: 0 No. of Days with Rains: Not Stated Total Amount of Moisture: 188mm. Total Amount Fertilizer in kg/ha: 0N 0P 0K

Comments: Soil tested high fertility with N=202, P=50, K=460 Lbs/A. at pH 7.4. Climate normal throughout season. Stem and leaf rusts were slow in developing. No insect or weed problems observed.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Yield Kg/Ha	P.g.t. (stem)	P.r. (leaf)	Test wgt. Kg/Hl	1000 grain wgt.
24	Bluebird 4 (R) Resel	1	62	102	65	5673	TRR	20S	77.2	44.0
25	Siete Cerros	2	66	108	84	5622	TRR	60S	76.6	36.0
01	Yecora "S"	3	61	103	62	5604	TRR	30S	77.2	44.0
23	Cal/Cno"S" x LR64 ² -Son64	4	62	109	78	5475	0	Seg	75.3	44.0
04	Yecora "S" (R)	5	66	103	60	5445	0	TRR	77.2	37.0
17	Penjamo 62	6	63	101	81	5429	60S	20S	77.2	41.0
18	Yecora "S" (R)	7	61	103	61	5395	TRR	20S	77.9	43.0
10	Inia-Cal(Inia "S"/Son64-Y50 _E xGto)	8	61	106	70	5329	TRR	TRS	77.2	40.0
21	Tobari	9	63	108	81	5276	TRR	0	76.6	39.0
12	Bluebird - Inia	10	64	103	57	5245	TRR	TRR	77.9	39.0
02	Ciano "S" - Inia 66	11	60	104	73	5210	TRR	40S	77.2	40.0
11	Yecora "S" (R)	12	63	103	60	5209	TRR	TRS	76.6	41.0
22	(S64-Y50 _E xGto/Inia)(Cno"S"-S64)	13	63	103	69	5017	TRS	50S	77.2	37.0
13	LR64-S64 ² x Tob 66	14	64	104	70	5916	TRR	TRR	75.3	37.0
20	Jar ² x Men-8156	15	61	105	73	4876	TRR	30S	76.6	45.0
14	Saric 70	16	65	104	61	4831	TRR	0	76.6	43.0
06	Inia	17	61	102	71	4773	TRR	70S	77.9	43.0
03	Bluebird 4A (R)	18	65	103	59	4741	0	TRMS	75.3	38.0
15	Cpo-Cno(S64 x Tzpp-Y54/Cno)	19	61	107	71	4630	20S	TRS	75.9	40.0
05	Cno ² x Son64-Kl. Rend.	20	61	103	62	4217	TRR	TRS	77.2	41.0
19	Jar"S"-Napo x Sharbati	21	60	105	74	4191	TRR	50S	73.4	57.0
07	Bluebird (R)	22	61	105	76	4130	TRR	20S	75.3	37.0
09	Ciano "S" - Sonora 64	23	60	102	65	4098	TRR	TRMS	77.9	38.0
08	Bluebird - Ciano	24	61	103	55	3753	TRR	20S	74.6	41.0
16	Inia - Bluebird	25	61	106	72	2990	20MR	30S	78.5	39.0

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 3

Location by Country: United States of America State: Colorado Station: Fort Collins (Cargill Inc.) Elevation: +1524m Latitude:105°N Longitude:41°W

Cooperators' Names: B. C. Curtis, D. R. Johnson, B. J. Roberts and H. A. Mann Date Planted: 26 March, 1971 Date Harvested: Not Stated

No. of Irrigations: 3 No. of Days with Rains: Not Stated Total Amount of Moisture: 559mm. Total Amount Fertilizer in kg/ha: 112N 0P 0K

Comments: Temperatures and precipitation were normal. Hail-storm during boot stage. Damage not stated. Leaf rust development was normal and stem rust was poor. No broad leaf weed problems. A few grassy weeds were observed.

Entry No.	Entry Name	Rank	Days to flower	Yield Kg/Ha	P. r. (leaf)	Test wgt. Kg/Hl
25	Siete Cerros	1	87	5030	S	81.7
22	(Son64-Y50 _E xGto/Inia)(Cno"S"-S64)	2	83	4471	R-MS	81.7
17	Penjamo 62	3	84	4394	S	80.6
04	Kalyan-Bluebird	4	86	4269	R	80.4
23	Cal/Cno"S"xLR64 ² -Son64	5	86	4039	R	80.6
21	Tobari	6	84	3963	R	81.7
07	Bluebird (R)	7	83	3864	MR-S	80.4
13	LR64-S64 ² xTobari 66	8	84	3861	R	80.4
15	Cpo-Cno(Son64xTzpp-Y54/Cno)	9	84	3810	R	80.4
18	Yecora "S" (R)	10	82	3733	R	80.4
14	Saric 70	11	83	3709	R	79.2
09	Ciano "S" - Sonora 64	12	84	3624	MR	80.4
24	Bluebird 4(R) Resel	13	84	3607	R-MR	80.6
10	Inia-Cal(Inia"S"/Son64-Y50 _E xGto)	14	84	3531	R	79.2
11	Yecora "S" (R)	15	83	3506	R	78.5
03	Bluebird 4A (R)	16	84	3454	R	77.9
12	Bluebird - Inia	17	83	3454	R-S	79.2
01	Yecora "S"	18	84	3377	R	78.5
20	Jar ² x Men-8156	19	85	3251	R	80.6
16	Inia - Bluebird	20	83	3250	MR	80.6
05	Cno ² x Son64 - K. Rend.	21	82	3221	MR	79.2
02	Ciano "S" - Inia 66	22	82	3150	S	77.9
19	Jar "S" - Napo x Sharbati	23	83	3099	S	79.2
06	Inia	24	83	2591	S	80.6
08	Bluebird - Ciano	25	81	2413	R	77.2

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 4

Location by Country: United States of America State: Arizona Station: Yuma Elevation: + 51m Latitude: 32°40'N Longitude: 114°36'W

Cooperators' Names: Northrup King and Co. Date Planted: 21 Dec., 1970 Date Harvested:

No. of Irrigations: 6 No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 150N 75P₂O₅ 0K₂O

Comments: Volunteer alfalfa controlled with 24-D. No other weed, pest or disease problems. Experiment planted about 4 weeks later than optimum. (Seed received Dec. 15, 1970). Lodging and shattering scales 1-9 (1 best).

Entry No.	Entry Name	Rank	Days to flower	Height cm.	Lodging	Yield Kg/Ha	Test wgt. Kg/Hl	Shattering
25	Siete Cerros	1	104	84	1	6421	76.6	1
20	Jar ² x Men-8156	2	98	86	1	6142	77.4	1
18	Yecora "S" (R)	3	98	69	1	6026	78.8	2
03	Bluebird 4A (R)	4	100	81	1	5646	78.2	1
13	LR64-Son64 ² x Tob 66	5	100	91	1	5646	77.6	1
10	Inia - Cal(Inia"S"/Son64-Y50 _E xGto)	6	99	86	1	5608	78.6	1
14	Saric 70	7	100	71	1	5538	77.6	1
23	Cal/Cno"S" x LR64 ² -Son64	8	101	91	1	5537	78.1	1
11	Yecora "S" (R)	9	100	71	1	5513	78.0	1
04	Kalyan-Bluebird	10	99	69	1	5465	76.4	1
24	Bluebird 4(R) - Resel	11	100	78	1	5349	78.6	1
12	Bluebird - Inia	12	98	69	1	5342	98.6	2
22	(S64-Y50 _E xGto/Inia)(Cno"S"-S64)	13	102	91	2	5335	79.2	1
01	Yecora "S"	14	99	69	1	5192	79.0	1
02	Ciano "S" - Inia 66	15	97	89	2	5137	79.2	3
21	Tobari	16	101	94	2	5058	77.2	1
05	Ciano ² x Son64-Kl. Rend.	17	96	78	1	4953	78.6	2
09	Ciano "S" - Son 64	18	96	74	1	4850	78.4	1
07	Bluebird (R)	19	97	86	2	4682	77.6	3
17	Penjamo 62	20	100	104	3	4654	76.8	2
15	Cpo-Cno(Son64xTzpp-Y54/Cno)	21	95	86	1	4601	75.9	1
06	Inia	22	94	91	1	4323	79.7	6
19	Jar "S" - Napo x Sharbati	23	95	78	3	4159	77.7	5
08	Bluebird - Ciano	24	95	74	1	4119	78.1	1
16	Inia - Bluebird	25	98	91	1	3409	77.5	4

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 5

Location by Country: USSR Leningrad Station: N.I. Vavilov All Union Institute Elevation: + 478m. Latitude: 42°22'N Longitude: 69°19'E
 Cooperators' Names: K. Budin Date Planted: 26 March, 1971 Date Harvested: June, 1971
 No. of Irrigations: 2 No. of Days with Rains: Not Stated Total Amount of Moisture: 263.3 mm. Total Amount Fertilizer in kg/ha: 90N 140P 30K
 Comments: Weeds were controlled by hand. Fertilizers applied mostly as post emergence. General plant development was good.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Yield Kg/Ha	Test wgt. Kg/Hl	Helminthosporium %	1000 grain wgt.
03	Bluebird 4A (R)	1	46	79	55	2460	77.0	75	27.6
13	LR64-Son64 ² x Tob 66	2	44	77	77	2428	78.5	75	25.6
11	Yecora "S" (R)	3	46	77	54	2263	76.4	50	30.0
01	Yecora "S"	4	45	77	60	2248	75.4	75	27.6
10	Inia-Cal(Inia"S"/Son64-Y50 _E xGto)	5	43	74	60	2173	80.4	75	28.0
17	Penjamo 62	6	48	77	75	2133	77.0	75	25.2
23	Cal/Cno "S" x LR64 ² - Son64	7	44	77	70	2103	82.6	75	27.2
05	Cno ² x Son64 - Kl. Rend.	8	44	77	60	1953	77.5	75	26.0
02	Ciano "S" - Inia	9	38	75	64	1923	79.7	75	28.4
15	Cpo-Cno(Son64xTzpp-Y54/Cno)	10	42	75	68	1922	82.0	75	24.8
09	Ciano "S" - Son 64	11	43	74	54	1890	74.6	75	24.8
18	Yecora "S" (R)	12	41	75	55	1879	77.0	50	23.0
07	Bluebird (R)	13	45	78	72	1875	80.8	75	25.2
06	Inia	14	41	74	74	1853	81.1	75	31.2
24	Bluebird 4(R) - Resel	15	46	77	57	1848	75.0	75	24.0
14	Saric 70	16	48	79	50	1815	73.2	50	24.4
19	Jar "S" - Napo x Sharbati	17	42	75	73	1800	79.0	75	25.2
21	Tobari	18	48	79	68	1778	77.9	75	28.0
22	(Son64-Y50 _E xGto/Inia)(Cno"S"-Son64)	19	44	75	66	1707	78.5	75	23.2
20	Jar ² x Men-8156	20	43	75	65	1662	79.6	75	28.0
12	Bluebird - Inia	21	48	79	44	1660	84.2	75	26.0
16	Inia - Bluebird	22	44	75	64	1547	80.1	75	23.6
08	Bluebird - Ciano	23	45	75	53	1458	77.2	75	23.0
04	Kalyan - Bluebird	24	46	77	45	1407	73.1	75	24.0
25	Siete Cerros	25	50	77	68	867	88.0	75	24.4

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 6

Location by Country: Morocco Station: Merchouch Elevation: +395m Latitude: 33°33'N Longitude: 6°42' W
 Cooperators' Names: A. Acosta Date Planted: 28 Dec., 1970 Date Harvested: Not Stated
 No. of Irrigations: None No. of Days with Rains: Not Stated Total Amount of Moisture: 700mm. Total Amount Fertilizer in kg/ha: 150N 60P₂O₅ 60K₂O.
 Comments: Less sunshine and lower temperatures than normal. Excessive rainfall during last of crop cycle. Hessian fly, wheat stem maggot, wild oats and excessive water were problems.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Yield Kg/Ha	Septoria spp. %
24	Bluebird 4 (R) - Resel	1	89	160	70	3775	30
13	LR64-Son64 ² x Tob 66	2	89	165	90	3722	20
06	Inia	3	87	138	85	3662	20
10	Inia-Cal(Inia"S"/Son64-Y50 _E xGto)	4	89	163	85	3559	25
25	Siete Cerros	5	89	163	100	3365	35
01	Yecora "S"	6	89	141	65	3312	25
07	Bluebird (R)	7	89	163	85	3287	20
23	Cal/Cno"S" x LR64 ² -Son64	8	88	163	100	3239	35
15	Cpo-Cno(Son64xTzpp-Y54/Cno)	9	88	160	80	3205	25
14	Saric 70	10	88	142	75	3178	30
18	Yecora "S" (R)	11	88	141	70	3111	35
03	Bluebird 4A (R)	12	89	143	70	3070	50
21	Tobari	13	87	141	95	3061	15
16	Inia - Bluebird	14	89	141	70	3043	25
22	(Son64-Y50 _E xGto/Inia)(Cno"S"-Son64)	15	89	163	90	3021	25
05	Cno ² x Son64 - Kl. Rend.	16	88	138	70	2969	20
11	Yecora "S" (R)	17	89	141	75	2933	30
04	Kalyan - Bluebird	18	88	142	70	2900	30
02	Ciano "S" - Inia 66	19	88	139	75	2852	50
20	Jar ² x Men-8156	20	88	140	75	2762	30
19	Jar "S" - Napo x Sharbati	21	81	140	65	2735	25
12	Bluebird - Inia	22	88	141	65	2719	30
17	Penjamo 62	23	89	163	90	2511	15
09	Ciano "S" - Son 64	24	89	163	70	2386	30
08	Bluebird - Ciano	25	88	139	70	2357	20

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 7

Location by Country: Morocco Station: Cotonniere-Benimellal Elevation: + 500 m Latitude: 32°20' N Longitude: 6° 17' W
 Cooperators' Names: A. Acosta Date Planted: 30 Jan., 1971 Date Harvested: July, 1971
 No. of Irrigations: None No. of Days with Rains: Not Stated Total Amount of Moisture: 371.2mm. Total Amount Fertilizer in kg/ha: 170N 60P₂O₅ 60K₂O
 Comments: Rainfall was enough and fairly well distributed. Short crop cycle due to high temperatures in late May and June. Little leaf and stem rusts.
 Wild oats were heavy and could not be controlled by hand until late in season.

Entry No.	Entry Name	Rank	Days to flower	Height cm.	Yield Kg/Ha
10	Inia-Cal(Inia"S"/Son64-Y50 _E xGto)	1	77	80	3943
24	Bluebird 4 (R) - Resel	2	81	65	3839
07	Bluebird (R)	3	78	75	3765
02	Ciano "S" - Inia	4	75	85	3736
15	Cpo-Cno(Son64xTzpp-Y54/Cno)	5	77	80	3696
06	Inia	6	74	90	3645
23	Cal/Cno"S" x LR64 ² -Son64	7	81	90	3616
18	Yecora "S" (R)	8	78	65	3537
16	Inia - Bluebird	9	78	85	3532
01	Yecora "S"	10	75	70	3511
08	Bluebird - Ciano	11	79	60	3487
03	Bluebird 4A (R)	12	80	65	3418
05	Ciano ² x Son64 - Kl. Rend.	13	76	70	3342
14	Saric 70	14	81	65	3316
11	Yecora "S" (R)	15	79	60	3294
25	Siete Cerros	16	82	85	3285
19	Jar "S" - Napo x Sharbati	17	74	85	3251
09	Ciano "S" - Son 64	18	77	75	3220
13	LR64-Son64 ² x Tob 66	19	82	80	3210
20	Jar ² x Men - 8156	20	77	85	3172
22	(Son64-Y50 _E xGto/Inia)(Cno"S"-Son64)	21	81	70	3091
12	Bluebird - Inia	22	79	65	3068
04	Kalyan - Bluebird	23	80	60	3011
17	Penjamo 62	24	79	90	2815
21	Tobari	25	79	95	2807

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 8

Location by Country: Tunisia Station: Manouhal (Tunis) Elevation: +10m Latitude: 37° N Longitude: 10° E
 Cooperators' Names: ACPD and INRAT Date Planted: 24 Dec., 1970 Date Harvested: Not Stated
 No. of Irrigations: 8 No. of Days with Rains: Not Stated Total Amount of Moisture: 493 mm. Total Amount Fertilizer in kg/ha: 62N 31P 0K

Comments: Irrigation helped disease development. Seasonal rains were late, but weather otherwise normal. Hot winds came during April and May. Cereal leaf beetle was present but was not a serious problem. Septoria and mildew scales presumed to be 0(good)-9 scale with severity noted as with rust scale.

Entry No.	Entry Name	Rank	Days to flower	Height cm.	Yield Kg/Ha	P. r. (leaf)	P. s. (stripe)	Septoria tritici	Powdery mildew
10	Inia-Cal(Inia"S"/Son64-Y50 _E /Gto)	1	109	90	3486	0	30S	7S	0
13	LR64-Son64 ² x Tob 66	2	109	70	3445	0	TR	8R	0
11	Yecora "S" (R)	3	109	75	3339	0	5MS	0	8MS
22	(Son64-Y50 _E Gto/Inia Cno"S"-Son64)	4	109	85	3308	0	20S	0	0/S
06	Inia	5	109	100	3243	0	TR	0	9S
03	Bluebird 4A (R)	6	109	80	3164	0	0	0	0
04	Kalyan - Bluebird	7	109	70	3158	0	5MS	0	0
19	Jar"S" - Napo. - Sharbati	8	109	90	3134	0	TR	0	9S
14	Saric 70	9	109	75	3124	0	0	0	0
08	Bluebird - Ciano	10	109	75	3113	0	10MR	0	0/S
25	Siete Cerros	11	109	105	3078	60S	30S	8S	0
16	Inia - Bluebird	12	109	90	3049	0	5S	0	8S
18	Yecora "S" (R)	13	109	75	3045	0	5MS	0	0
23	Cal/Cno "S" x LR64 ² - Son64	14	109	95	3045	0	20S	5S	0
24	Bluebird 4(R) - Resel	15	109	75	3039	0	TR-S	0	8MS
20	Jar ² x Men - 81 6	16	109	90	3028	0	TR	8S	0
15	Cpo-Cno(Son64xTzpp-Y54/Cno)	17	109	90	3025	0	0	0	7MR
21	Tobari	18	109	90	2996	0	TR	0	0
01	Ye cora "S"	19	109	80	2974	0	0	0	9S
02	Ciano "S" - Inia	20	109	90	2966	0	TMR	0	5S
09	Ciano "S" - Son64	21	109	80	2963	0	5MS	0	0/S
17	Penjamo 62	22	109	95	2924	TMR	10MS	0	0/S
07	Bluebird (R)	23	109	95	2828	5MS	0	0	0/S
05	Ciano ² x Son64- Kl. Rend.	24	109	85	2763	0	TMR	0	0
12	Bluebird - Inia	25	109	75	2434	0	0	7S	0

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 9

Location by Country: Tunisia Station: Krib Elevation: Not Stated Latitude: Not Stated Longitude: Not Stated
 Cooperators' Names: ACPP and INRAT Date Planted: 30 Dec., 1970 Date Harvested: Not Stated
 No. of Irrigations: Not Stated No. of Days with Rains: Not Stated Total Amount of Moisture: 597 mm. Total Amount Fertilizer in kg/ha: Not Stated
 Comments: None

Entry No.	Entry Name	Rank	Days to flower	Yield Kg/Ha
16	Inia - Bluebird	1	125	2661
17	Penjamo 62	2	121	2645
10	Inia-Cal(Inia"S"/Son64-Y50 _E Gto)	3	125	2407
03	Bluebird 4A ₂ (R)	4	127	2370
13	LR64-Son64 ² x Tob 66	5	127	2364
18	Yecora "S" (R)	6	124	2356
25	Siete Cerros	7	130	2337
04	Kalyan - Bluebird	8	128	2270
20	Jar ² x Men - 81 6	9	123	2219
01	Yecora "S"	10	127	2199
19	Jar"S" - Napo x Sharbati	11	123	2191
23	Cal/Cno"S" x LR64 ² -Son64	12	123	2187
02	Ciano"S" - Inia 66	13	123	2180
11	Yecora "S" (R)	14	127	2146
22	(Son64-Y50 _E xGto/Inia)(Cno"S"-Son64)	15	125	2137
09	Ciano "S" - Son64	16	123	2102
15	Cpo-Cno(Son64xTzpp-Y50/Cno)	17	127	2074
14	Saric 70	18	126	2053
06	Inia	19	120	2035
08	Bluebird - Ciano	20	125	2034
05	Ciano ² x Son64-Kl. Rend.	21	127	1989
07	Bluebird (R)	22	126	1967
24	Bluebird 4(R) - Resel	23	126	1877
12	Bluebird - Inia	24	126	1742
21	Tobari	25	122	1705

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 10

Location by Country: Lebanon Station: Kfardane Bekaa Valley Elevation: + 1100 m. Latitude: 37°48'N Longitude: 40° 0' E

Cooperators' Names: G. Kingma and M. A. Antoun Date Planted: 10 Jan., 1971 Date Harvested: Not Stated

No. of Irrigations: 1 No. of Days with Rains: Not Stated Total Amount of Moisture: 425mm. Total Amount Fertilizer in kg/ha: 100N 60P₂O₅ 0K₂O

Comments: Conditions cool in Jan., Feb., and March. Heavy rains in April. May and June dry and hot. No disease development during experiment. No weed or pest problems observed. Height scale of E1(tallest) to E3(shortest) with superscripts (+) for more dwarfed or (-) less.

Entry No.	Entry Name	Rank	Height	Yield Kg/Ha
15	Cpo-Cno(Son64xTzpp-Y54/Cno)	1	E2 ⁻	1883
12	Bluebird - Inia	2	E3 ⁻	1825
04	Kalyan - Bluebird	3	E3 ⁻	1812
22	(Son64-Y50 _E xGto/Inia) (Cno"S"-Son64)	4	E2	1800
24	Bluebird 4(R) Resel	5	E2 ⁺	1800
02	Ciano "S" - Inia	6	E1 ⁺	1775
13	LR64-Son64 ² x Tob 66	7	E2	1742
11	Yecora "S" (R)	8	E2 ⁺	1733
14	Saric 70	9	E2 ⁺	1708
05	Cno ² x Son64 - Kl. Rend.	10	E2	1704
19	Jar "S" - Napo x Sharbati	11	E1 ⁺	1700
25	Siete Cerros	12	E2 ⁻	1683
20	Jar ² x Men - 8156	13	E2 ⁻	1667
03	Bluebird 4A (R)	14	E2 ⁺	1575
17	Penjamo 62	15	E1 ⁺	1562
18	Yecora "S" (R)	16	E2 ⁺	1550
01	Yecora "S"	17	E3 ⁻	1508
07	Bluebird (R)	18	E2 ⁻	1504
09	Ciano "S" - Son64	19	E2	1483
10	Inia-Cal(Inia"S"/Son64-Y50 _E x Gto)	20	E2	1425
23	Cal/Cno "S" x LR64 ² - Son64	21	E2	1392
06	Inia	22	E1 ⁺	1383
21	Tobari	23	E2 ⁻	1361
08	Bluebird - Ciano	24	E2	1292
16	Inia - Bluebird	25	E2 ⁻	1083

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 11

Location by Country: Iran Station: Gorgan Experiment Station Elevation: + 120m. Latitude: 36°51' N Longitude: 54°28' E

Cooperators' Names: Behrooy-Sadri and M. A. Vahabian Date Planted: 25 Dec., 1970 Date Harvested: Not Stated

No. of Irrigations: 2 No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 115N 11P 0K

Comments: Rainfall less than expected and season was very hot. Disease development was slow. No weed or pest problems observed.

Entry No.	Entry Name	Rank	Yield Kg/Ha	P. g. t. (stem)	P. r. (leaf)	P. s. (stripe)*	Mildew %
14	Saric 70	1	5242	0	0	10S	50
20	Jar ² x Men-8156	2	4925	0	0	0	0
19	Jar''S'' - Napo x Sharbati	3	4792	0	0	0	75
25	Siete Cerros	4	4758	10S	10MS-S	0	10
16	Inia - Bluebird	5	4655	0	0	0	100
01	Yecora ''S''	6	4642	0	0	25S	50
11	Yecora ''S'' (R)	7	4642	5S	0	10S	25
23	Cal/Cno ''S'' x LR64 ² -Son64	8	4617	0	5S	0	75
02	Ciano ''S'' - Inia 66	9	4587	0	0	0	75
24	Bluebird 4(R) - Resel	10	4483	0	0	5S	50
22	(Son64-Y50 _E x Gto/Inia)(Cno''S''-Son64)	11	4467	0	0	0	75
05	Ciano ² x Son64 - Kl. Rend.	12	4442	0	5MS	0	50
17	Penjamo	13	4317	0	10S	0	10
03	Bluebird 4A (R)	14	4258	-	5MS	10S	25
12	Bluebird - Inia	15	4250	0	0	0	75
06	Inia	16	4225	0	0	0	100
07	Bluebird (R)	17	4100	0	0	10S	75
08	Bluebird - Ciano	18	4083	0	0	0	50
04	Kalyan - Bluebird	19	4067	0	5S	75S	25
21	Tobari	20	4017	0	0	0	25
13	LR64-Son64 ² x Tob 66	21	4008	0	0	5S	5
15	Cpo-Cno(Son64 x Tzpp - Y54/Cno)	22	3850	0	0	0	0
10	Inia - Cal(Inia''S''/Son64-Y50 _E x Gto)	23	3825	0	0	20S	100
18	Yecora ''S'' (R)	24	3775	0	0	20S	25
09	Ciano ''S'' - Son64	25	3675	0	0	0	50

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 12

Location by Country: India State: Rajasthan Station: Durga Pura(Jaipur) Elevation:+ 390m. Latitude:26°51'N Longitude:75°47'E
 Cooperators' Names: S. M. Gandhi Date Planted: 12 Dec. , 1970 Date Harvested: Not Stated
 No. of Irrigations: 8 No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 134N 67P₂O₅ 34K₂O
 Comments: Weather normal until hot winds started in March. No disease, weed or pest problems. Experiment planted 6 weeks late due to late receipt of seed.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height. cm.	Yield Kg/Ha	1000 grain wgt.
19	Jar''S'' - Napo x Sharbati	1	68	99	87	1582	
06	Inia	2	62	101	83	1365	22.0
02	Ciano''S'' - Inia 66	3	68	101	82	1303	23.0
16	Inia -	4	75	99	79	1231	25.0
20	Jar ² x Men-8156	5	80	101	62	1181	27.0
17	Penjamo 62	6	70	99	82	1096	22.0
15	Cpo-Cno(Son64xTzpp-Y54/Cno)	7	57	99	68	1087	20.0
09	Ciano ''S'' - Son64	8	62	99	71	1061	18.0
12	Bluebird - Inia	9	65	101	59	1046	23.0
05	Ciano ² x Son64 - Kl. Rend.	10	65	101	61	1032	20.0
07	Bluebird (R)	11	68	103	62	1006	18.0
04	Kalyan - Bluebird	12	70	99	46	956	18.0
10	Inia-Cal(Inia''S''/Son64-Y50 _E x Gto)	13	75	101	67	882	16.0
08	Bluebird - Ciano	14	68	99	65	860	21.0
11	Yecora ''S'' (R)	15	78	101	52	857	19.0
21	Tobari	16	70	101	75	828	19.0
22	(Son64-Y50 _E x Gto/Inia)(Cno''S''-Son64)	17	75	99	66	802	16.0
25	Siete Cerros	18	75	107	69	797	19.0
13	LR64-Son64 ² x Tob 66	19	75	107	66	787	22.0
23	Cal/Cno''S'' x LR64 ² -Son64	20	72	107	71	770	29.0
24	Bluebird 4 (R) - Resel	21	80	99	55	755	18.0
03	Bluebird 4 A(R)	22	75	101	52	605	15.0
14	Saric 70	23	80	103	49	597	24.0
01	Yecora ''S''	24	75	99	59	443	20.0
18	Yecora ''S'' (R)	25	75	103	62	387	21.0

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 13

Location by Country: India State: Uttar Pradesh Station: Pantnagar Elevation: + 244m. Latitude: 29°N Longitude: 79°30' E

Cooperators' Names: Dr. J. P. Srivastava Date Planted: 29 Dec., 1970 Date Harvested:

No. of Irrigations: 4 No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 134N 60P₂O₅ 40K₂O

Comments: Conditions cold until January. No insect or weed problems. Crop growth reported good.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Lodging %	Yield Kg/Ha	1000 grain wgt.
16	Inia - Bluebird	1	93	115	86	70	4223	30.7
02	Ciano "S" - Inia 66	2	82	117	94	70	4206	29.8
06	Inia	3	86	120	91	85	4082	32.4
23	Cal/Cno "S" x LR64 ² - Son 64	4	94	121	91	95	4000	32.0
07	Bluebird (R)	5	95	120	92	85	3973	24.8
05	Cno ² x Son64 - Kl. Rend.	6	83	114	77	40	3913	28.5
10	Inia 67-Cal(Inia"S"/Son64-Y50 _E x Gto)	7	91	117	84	60	3902	27.0
18	Yecora "S" (R)	8	91	114	67	90	3826	26.2
08	Bluebird - Ciano	9	91	114	70	30	3772	31.9
13	LR64-Son64 ² x Tob 66	10	93	120	90	20	3533	26.0
17	Penjamo 52	11	93	116	90	95	3533	30.0
12	Bluebird - Inia	12	87	114	75	70	3386	26.0
15	Cpo-Cno(Son64 x Tzpp -Y54/Cno)	13	86	114	86	40	3424	29.7
03	Bluebird 4A (R)	14	98	116	83	75	3364	27.8
21	Tobari	15	81	115	93	95	3364	27.9
24	Bluebird 4 (R) Resel	16	97	115	75	80	3359	30.3
19	Jar"S" - Napo x Sharbati	17	80	117	85	95	3353	24.3
14	Saric 70	18	93	114	85	95	3321	28.0
22	(Son64-Y50 _E xGto/Inia)(Cno"S"-Son64)	19	95	120	86	95	3239	26.6
01	Yecora "S"	20	91	115	68	75	3196	28.5
11	Yecora "S" (R)	21	93	115	84	95	3125	30.0
04	Kalyan - Bluebird	22	96	115	75	95	3119	22.6
09	Ciano "S" - Son 64	23	89	114	82	80	3071	25.0
20	Jar ² x Men - 8156	24	84	115	72	70	2875	36.6
25	Siete Cerros	25	100	123	90	90	2424	25.7

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 14

Location by Country: India State: Uttar Pradesh Station: Kanpur Elevation: + 124 m. Latitude: 26°30' Longitude: 80°30'

Cooperators' Names: Economic Botanist and Wheat Breeder, IAS, Kanpur Date Planted: 29 Dec., 1970 Date Harvested: Not Stated

No. of Irrigations: 2 No. of Days with Rains: Not Stated Total Amount of Moisture: Total Amount Fertilizer in kg/ha: 130N 67P₂O₅ 40K₂O

Comments: Climate was considered satisfactory. Dry weather caused poor disease development. No insect or pest problems.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Yield Kg/Ha	1000 grain wgt.
18	Yecora "S" (R)	1	72	107	52	2378	31.1
10	Inia-Cal(Inia"S"/Son64-Y50 _E x Gto)	2	78	107	73	2310	30.6
16	Inia - Bluebird	3	74	109	74	2242	33.0
02	Ciano"S" - Inia 66	4	74	111	64	2174	30.9
05	Ciano ² x Son64-Kl. Rend.	5	72	107	53	2174	33.5
23	Cal/Cno "S" x LR64 ² - Son64	6	75	111	73	2174	34.7
03	Bluebird 4A (R)	7	80	109	56	2106	29.7
07	Bluebird (R)	8	74	109	72	2106	29.7
11	Yecora "S" (R)	9	71	107	49	2106	32.8
25	Siete Cerros	10	79	111	74	2106	28.4
01	Yecora "S"	11	74	107	50	2038	31.6
08	Bluebird - Ciano	12	68	107	56	2038	31.5
06	Inia	13	71	107	74	1970	33.2
17	Penjamo 62	14	77	111	75	1970	32.0
22	(Son64-Y50 _E x Gto/Inia)(Cno"S"-Son64)	15	78	111	62	1970	27.0
13	LR64-Son64 ² x Tob 66	16	79	111	57	1902	26.8
24	Bluebird 4 (R) - Resel	17	76	108	66	1902	33.6
09	Ciano "S" - Son 64	18	72	111	62	1834	28.6
14	Saric 70	19	78	111	46	1834	29.0
15	Cpo-Cno(Son64xTzpp-Y54/Ciano)	20	72	107	58	1834	29.8
19	Jar"S" - Napo x Sharbati	21	69	109	68	1834	30.0
04	Kalyan - Bluebird	22	73	109	45	1766	24.2
12	Bluebird - Inia	23	72	109	50	1766	31.6
20	Jar ² x Men - 8156	24	69	107	64	1698	35.6
21	Tobari	25	72	107	76	1630	28.5

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 15

Location by Country: Republic of South Africa Station: Rodeplaat Elevation: + 1164m. Latitude: 25°35' S Longitude: 28° 21' E
 Cooperators' Names: D. T. Rossouw, D. Malan, L. Robertson and W. Voigt Date Planted: 27 May, 1971 Date Harvested: Not Stated
 No. of Irrigations: Not Stated No. of Days with Rains: Not Stated Total Amount of Moisture: 780mm. Total Amount Fertilizer in kg/ha: 140N 23P 30K
 Comments: Conditions were dry from planting to maturity and then excessive rains during harvest. Experiment escaped disease this year. Few insect or weed problems observed.

Entry No.	Entry Name	Rank	Days to flower	Days to maturity	Height cm.	Lodging %	Yield Kg/Ha	Test wgt. Kg/Hl	1000 grain wgt.	Shattering %
18	Yecora "S" (R)	1	118	160	70	50	6983	74.5	43.0	0
11	Yecora "S" (R)	2	119	155	70	0	6833	76.0	38.0	0
01	Yecora "S"	3	117	155	70	10	6684	75.0	48.0	0
23	Cal/Cno"S" x LR64 ² - Son64	4	119	165	95	50	6607	74.5	41.0	0
24	Bluebird 4 (R) Resel	5	119	155	70	20	6404	75.5	36.0	5
03	Bluebird 4A (R)	6	119	160	70	25	6350	75.5	44.0	0
04	Kalyan - Bluebird	7	117	165	60	0	6293	72.0	39.0	0
06	Inia	8	113	150	95	25	6135	77.5	40.0	0
22	(Son64-Y50 _E x Gto/Inia)(Cno"S"-Son64)	9	122	155	90	30	6135	86.0	39.0	0
13	LR64-Son64 ² x Tob 66	10	123	160	95	10	6100	79.5	40.0	0
16	Inia - Bluebird	11	117	150	90	5	6037	78.0	40.0	5
12	Bluebird - Inia	12	115	160	70	5	5865	77.5	40.0	0
07	Bluebird (R)	13	119	155	80	20	5824	77.5	36.0	0
17	Penjamo 62	14	119	155	95	70	5811	75.0	41.0	0
10	Inia-Cal(Inia"S"/Son64-Y50 _E x Gto)	15	119	160	85	60	5788	77.0	34.0	0
02	Ciano"S" - Inia 66	16	115	155	75	25	5785	77.0	40.0	0
20	Jar ² x Men - 8156	17	118	155	80	40	5776	76.0	40.0	0
21	Tobari	18	119	160	90	50	5574	77.5	39.0	0
09	Ciano "S" - Son 64	19	117	155	75	40	5560	77.5	35.0	0
14	Saric 70	20	122	160	65	10	5433	74.0	47.0	0
15	Cpo-Cno (Son64 x Tzpp - Y50/Cno)	21	112	160	80	10	5407	75.0	39.0	0
05	Cno ² x Son64 - Kl. Rend.	22	114	155	65	0	5397	76.0	41.0	5
25	Siete Cerros	23	127	165	80	25	5298	72.0	36.0	0
08	Bluebird - Ciano	24	112	150	70	25	5210	75.0	41.0	10
19	Jar"S" - Napo x Sharbati	25	112	155	80	50	5037	76.0	38.0	0

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 16

Location by Country: Mexico State: Mexico Station: Toluca Elevation: + 2675m. Latitude: 19° N Longitude: 100° W

Cooperators' Names: CIMMYT Date Planted: 15 June, 1971 Date Harvested: 15 Oct., 1971

No. of Irrigations: Not Stated No. of Days with Rains: Not Stated Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: 80N 60P₂O₅ K₂O

Comments: No insect or weed problems. Rust development was slow. Height given in dwarf scale of E1 (tall) and E3 (most dwarfed) with superscripts indicating more dwarfed (+) or less (-).

Entry No.	Entry Name	Rank	Days to flower	Height	Lodging %	Yield Kg/Ha	P. g. t. (stem)	P. r. (leaf)
02	Ciano "S" - Inia 66	1	67	E2 ⁻	0	7844	5MR	10MS
06	Inia	2	67	E1 ⁺	0	7739	5MR	5S
11	Yecora "S" (R)	3	70	E2 ⁺	0	7469	TR	10MR
01	Yecora "S"	4	70	E2	0	7223	TR	5MR
03	Bluebird 4A (R)	5	73	E2	0	7146	TR	10MS
15	Cpo-Cno(Son64 x Tzpp - Y54/Cno)	6	67	E1 ⁺	0	7094	TR	TMR
18	Yecora "S" (R)	7	70	E2	0	7094	5MR	10MS
24	Bluebird 4(R) - Resel	8	74	E2	0	7042	5R	10MR
13	LR64-Son64 ² x Tob 66	9	73	E1 ⁺	0	6865	0	TMR
10	Inia-Cal(Inia "S"/Son64-Y50 _E x Gto)	10	69	E2 ⁻	0	6614	TR	20MS
14	Saric 70	11	76	E2	0	6594	TMR	10MR
21	Tobari	12	73	E1 ⁺	5	6562	TR	10MR-MS
16	Inia - Bluebird	13	71	E2 ⁻	0	6219	TMR	10MS
23	Cal/Cno"S" x LR64 ² - Son64	14	73	E2 ⁻	0	6208	0	TMR
25	Siete Cerros	15	77	E1 ⁺	20	6146	TR	5MS
04	Kalyan - Bluebird	16	75	E3 ⁻	0	6125	0	TMR
17	Penjamo 62	17	75	E1	100	6094	5S	10MR
07	Bluebird (R)	18	70	E2 ⁻	5	6073	TR	TMR
20	Jar ² x Men-8156	19	71	E2 ⁻	0	5948	TR	5MR
22	(Son64-Y50 _E x Gto/Inia)(Cno"S"-Son64)	20	75	E2 ⁻	0	5885	TR	5MR
12	Bluebird - Inia	21	69	E2 ⁺	0	5792	TR	5MS
09	Ciano "S" - Son64	22	68	E2	0	5719	TMR	10S
05	Ciano ² x Son64 - Kl. Rend.	23	69	E2	0	5708	TR	5MR-MS
08	Bluebird - Ciano 67	24	67	E2 ⁺	0	5073	TR	TMR
19	Jar"S" - Napo x Sharbati	25	71	E2 ⁻	0	4698	TR	10MR

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 17

Location by Country: Mexico State: Sonora Station : CIANO (Obregon) Elevation: + 40 m. Latitude: 27°20' N Longitude: 109° 54' W

Cooperators' Names: CIMMYT Date Planted: 8 Nov., 1970 Date Harvested: April, 1971

No. of Irrigations: Not Stated No. of Days with Rains: None Total Amount of Moisture: Not Stated Total Amount Fertilizer in kg/ha: Not Stated

Comments: No pests, weeds or diseases reported. Season was considered normal.

Entry No.	Entry Name	Rank	Yield Kg/Ha	Test wgt. Kg/Hl	PK	Protein %	P/G	W	Seed Index	Mixogram	Mixing Time	Loaf Volume c. c.
18	Yecora "S" (R)	1	10135	80.5	>153	13.5	5.0	565	67.6	7	4.0	250
24	Bluebird 4 (R) - Resel	2	10094	81.1	>156	15.4	4.8	538	64.0	7	3.5	250
01	Yecora "S"	3	10052	81.0	>160	13.1	4.7	375	52.9	7	4.3	880
11	Yecora "S" (R)	4	9750	80.7	>161	13.1	5.3	382	60.0	7	4.2	905
02	Ciano "S" - Inia 66	5	9479	83.0	93	13.4	2.8	300	56.6	7	3.0	920
12	Bluebird - Inia	6	9333	81.8	155	12.9	3.7	357	57.7	7	3.4	840
10	Inia-Cal(Inia"S"/Son64-Y50 _E x Gto)	7	9250	81.7	>156	13.5	3.6	464	57.0	7	3.2	230
04	Kalyan - Bluebird	8	9239	81.2	>162	11.8	3.6	316	52.0	6	3.4	200
13	LR64-Son64 ² - Tob 66	9	9094	81.4	>162	13.4	2.7	354	45.6	7	3.4	250
03	Bluebird 4A (R)	10	8937	-	114	13.7	-	-	68.0	7	3.5	225
25	Siete Cerros	11	8885	-	-	-	-	635	-	-	-	-
14	Saric 70	12	8844	79.1	>152	13.5	4.1	337	64.2	7	4.2	870
20	Jar ² x Men - 8156	13	8656	80.0	>165	14.1	5.0	495	61.4	6	3.2	240
07	Bluebird (R)	14	8604	81.5	141	13.2	2.8	278	51.0	6	3.3	895
06	Inia	15	8562	-	-	-	-	630	-	-	-	-
21	Tobari	16	8333	-	-	-	-	640	-	-	-	-
22	(Son64-Y50 _E x Gto/Inia)(Cno"S"-Son64)	17	8302	80.7	>159	14.3	3.6	599	58.0	7	4.0	230
15	Cpo-Cno(Son64 x Tzpp-Y54/Cno)	18	8229	81.8	65	13.0	2.0	281	47.6	5	2.2	240
23	Cal/Cno"S" x LR64 ² - Son64	19	7844	79.5	>151	14.2	3.5	389	58.0	7	3.6	255
16	Inia - Bluebird	20	7687	83.1	>159	12.9	2.6	368	59.3	6	3.0	235
17	Penjamo 62	21	7556	81.2	43	9.6	4.0	165	25.6	3	1.2	800
19	Jar"S" - Napo x Sharbati	22	5331	81.6	>167	15.1	4.0	664	70.8	7	3.5	215
09	Ciano "S" - Son64	23	7427	82.0	156	13.6	3.7	423	55.4	7	4.0	845
05	Cnc ² x Son64 - Kl. Rend.	24	6385	82.6	>171	13.5	2.7	433	55.1	7	3.0	240
08	Bluebird - Ciano	25	6187	81.3	>161	13.7	3.0	478	61.4	7	4.0	250

SECOND INTERNATIONAL ELITE SELECTION YIELD TRIAL 2 (1970-71)

TABLE 18. Overall mean yields for the varieties of the Second International Elite Selection Yield Trial - 2 (1970-71) (17 Locations).

Entry No.	Entry Name	Rank	Yield Kg/Ha
18	Yecora "S" (R)	1	4238
11	Yecora "S" (R)	2	4200
24	Bluebird 4 (R) Resel	3	4178
01	Yecora "S"	4	4174
10	Inia-Cal(Inia"S"/Son64-Y50 _E x Gto)	5	4140
02	Ciano "S" - Inia 66	6	4123
13	LR 64 - Son64 ² x Tob 66	7	4100
23	Cal/Cno"S" x LR64 ² - Son64	8	4045
03	Bluebird 4A (R)	9	4026
25	Siete Cerros	10	4024
06	Inia	11	3990
14	Saric 70	12	3978
04	Kalyan - Bluebird	13	3947
07	Bluebird (R)	14	3937
22	(Son64-Y50 _E x Gto/Inia)(Cno"S"-Son64)	15	3929
17	Penjamo 62	16	3873
15	Cpo-Cno(Son64 x Tzpp-Y54/Cno)	17	3865
20	Jar ² x Men - 8156	18	3864
12	Bluebird - Inia	19	3824
21	Tobari	20	3742
16	Inia - Bluebird	21	3680
05	Cno ² x Son64 - Kl. Rend.	22	3626
09	Ciano "S" - Son64	23	3581
19	Jar "S" - Napo x Sharbati	24	3572
08	Bluebird - Ciano	25	3310

