

41825



CENTRO DE DOCUMENTACION

Selection for yield in early generations by total weight harvest index and yield/day

The improvement for yield has been classified by Donald T. Jones in three categories:

- a. Improvement by defects elimination
- b. Improvement of yield by crossing and selection for yield per se using some sort of methodology for isolation of environmental and genetical effects.
- c. By building a model or ideotype that the breeder envisages as more productive in a given environment.

Probably almost any breeder selecting for yield has one or several ideotypes in mind when selecting. One troublesome part of the selection process is to visualize the plants that are likely to make higher yielding plant communities once perpetuated. The complex direct relationships in a heterogeneous, newly or advanced population obscure the behavior of an individual plant, so that not different plants differ in their characteristics. Although some less empirical selection is likely to be necessary in the future, it may be helpful to measure the components of economic yield (total yield) and two types of processes close to the yield, that is, water status of the matter and the degree of partitioning of assimilates toward seeds etc.

Since there are several major genes that modulate both types of plant response and many genes with small effects, the most practical approach is to integrate the combined effects of several (or many) genes into one

or a few selection criteria. Such criteria should be:

- i) Easy to use in a breeding program.
- ii) Compatible with the different breeding methods.
- iii) Compatible with different objectives for different breeding systems.
- iv) Flexible for using several different selection criteria.

In order to follow the above mentioned restriction it was selected the methodology of selecting in early generations by the following selection criteria:

1. Accumulation of total dry matter (Total Weight)
2. Efficiency of partitioning (Harvest Index)
3. Efficiency of yield (Seed Yield/Day)

MATERIALS AND METHODS

Six segregating populations were planted at CIAT-Palmira. The populations are described in Table 1. In F_2 and F_3 generations, individual plant selection was practiced by visual inspection. The individual plant total weight, harvest index and number of days to maturity was recorded for each selected plant. The seed yield/doy was calculated for each plant. In the F_4 generation yield was measured from single row plots 2.5 m long. One replication was planted in rows 60 cm apart and another replication was planted in rows 40 cm apart.

Also in the F_2 generation 60 individual plants were randomly harvested after the individual selections were made. This plants generated progenies that were harvested as balanced composites (one pod from each plant) during the F_3 generation.

Table 1. Description of six segregating populations where selection was done at CIAT-Palmira.

Cross	Parents	Seed Color
12362	A 429 x XAN 112	Cream x Black
12390	A 429 x G 17847	Cream x Black
12351	A 429 x G 37	Cream x Black
12420	DOR 41 x Aguas Calientes 52	Black x Black
12440	A 429 x G 2959	Cream x Black
12207	A 429 x DOR 44	Cream x Black

RESULTS AND DISCUSSION

The comparison of results can be made using the means of seed yield of F_4 progenies derived from F_2 or F_3 individual selections grouped by different selection criteria. Also a comparison will be made with the remaining visually selected but non-outstanding selections.

The comparison with the original variability in each F_2 population is made with the group of random, harvested plants (and progenies). All these comparisons are presented in Tables 2 to 10. Tables 2 to 7 present the yields of the F_4 progenies grouped by the selection criteria applied to the F_2 parent plants. Tables 8 to 10 present the same information for the F_4 progenies grouped by the selection criteria applied to F_3 individual selections.

The examination of the data of seed yield of the F_4 progenies grouped by F_2 selection criteria indicate:

1. The mean yield is higher in all six crosses in one or several of the F_4 groups of selection criteria, compared to the randomly selected progenies or to the visually selected progenies. In 5 out of 6 crosses, the mean yield of one or some of the selection groups is higher than the yield of both parents. Two exceptions are noted, when good yielders are parents (305-44 and 305-41).
2. Within each of the selection groups the variability of yield is smaller. The range for the different selection groups is smaller than that of the average of the parents (except 305-41) and is smaller than that of the parents.
3. The selection criteria seem to be especially effective for eliminating the poor yielders since the lower limit of the range of values as indicated by the minimum yield is substantially higher in the selection groups than in the randomly selected group or in

visual selection group. This fact has important implications in a breeding program when a recurrent selection scheme is used (as is the case in many breeding situations) to accumulate favorable genes.

4. The selection for yield/day seems to be a good choice. The F_2 selections by this criteria tend to be also selected by the other two criteria (harvest index and total weight) indicating that the combination of a high value of total weight and high harvest index produces a high value of yield/day. For selection for yield/day, the only needs to measure the seed yield and the time of harvest.
5. The selection in the F_3 generation does not seem more alternative than the selection in F_2 generation (see Tables 8 to 10).

LITERATURE CITED

1. Wallace, D. 1973. Commentary upon plant architecture and physiological efficiency in the field bean. In: Potential of field beans and other food legumes in Latin America. Serie. Seminar 28. Centro Internacional de Agricultura Tropical, CIAT. Cali, Colombia. pp 207-294.
2. Evans, L.T. 1981. Physiological aspects of nodular development. In: Nodule development in plant legumes. Ed. by J. H. Garfield. Sponson J.N. East-West Ed. Wiley Press. New York. 668p.
3. Donald, C.M. 1982. The breeding of crop legumes. In: *...* 17:385-400.

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PN/pzm

Cuadro 2.

Average seed yield (gms/plot) in F_4 progenies from F_2 individual selections made by different selection criteria

CROSS 12362

A 429 x XAN 112

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	20	266	396	133	70.6
2. Total weight	10	312	442	240	72.4
3. Yield/Day	3	283	315	263	28.2
4. Visual Selection	62	270	413	98	62.8
1 + 2	-	-	-	-	-
1 + 3	-	-	-	-	-
2 + 3	13	287	358	211	48.4
1 + 2 + 3	-	-	-	-	-
Random (F_2)	55	258	416	61	70.3
A 429		268			
XAN 112		256			

Cuadro 3.

Average seed yield (gms/plot) in F₄ progenies selected by
different selection criteria in F₂ generation
as individual plant selections

CROSS 12390

A 429 x CHICHICASTE

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	8	238	358	169	54.5
2. Total weight	1	371	371	371	-
3. Yield/Day	-	-	-	-	-
4. Visual Selection	20	248	312	156	45.6
1 + 2	1	292	292	292	-
1 + 3	-	-	-	-	-
2 + 3	4	319	399	255	68.8
1 + 2 + 3	4	291	365	258	49.7
Random (F ₂)	58	234	416	16	73.6
A 429		268			
Chichicaste		253			

Cuadro 4.

Average seed yield (gms/plot) in F_4 progenies from F_2 individual selections made by different criteria

CROSS 12391

A 429 x PATA DE ZOPE

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	16	258	352	154	53.3
2. Total weight	9	286	346	184	52.1
3. Yield/Day	-	-	-	-	-
4. Visual Selection	23	269	365	146	47.2
1 + 2	-	-	-	-	-
1 + 3	2	258	275	241	-
2 + 3	4	317	352	263	42.2
1 + 2 + 3	-	-	-	-	-
Random (F_2)	54	264	563	81	74.1
A 429		268			
Pata de Zope		259			

Cuadro 5.

Average seed yield (gms/plot) in F_4 progenies from F_2 individual selections made by different selection criteria

CROSS 12420

DOR 41 x AGUAS CALIENTES 92

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	3	250	275	233	22.0
2. Total weight	-	-	-	-	-
3. Yield/Day	-	-	-	-	-
4. Visual Selection	10	247	331	158	52.7
1 + 2	-	-	-	-	-
1 + 3	1	247	247	247	-
2 + 3	1	221	221	221	-
1 + 2 + 3	2	292	308	276	-
Random (F_2)	56	245	399	146	49.8
DOR 41		399			
Aguas Calientes 92		201			

Cuadro 6.

Average seed yield (gms/plot) in F_4 progenies from F_2 individual selections made by different selection criteria

CROSS 12440 A 429 x PECHO AMARILLO

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	21	253	329	174	43.3
2. Total weight	9	253	339	170	56.5
3. Yield/Day	-	-	-	-	-
4. Visual Selection	128	263	376	136	44.6
1 + 2	-	-	-	-	-
1 + 3	-	-	-	-	-
2 + 3	9	282	383	179	63.5
1 + 2 + 3	-	-	-	-	-
Random (F_2)	55	257	386	124	51.8
A 429		268			
Pecho Amarillo		285			

Cuadro 7.

Average seed yield (gms/plot) in F_4 progenies from F_2 individual selections made by different selection criteria

CROSS 12209

A 429 x DOR 44

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	22	237	331	160	49.2
2. Total weight	-	-	-	-	-
3. Yield/Day	10	263	350	193	45.8
4. Visual Selection	63	262	366	150	41.9
1 + 2	-	-	-	-	-
1 + 3	-	-	-	-	-
2 + 3	5	273	295	238	-
1 + 2 + 3	1	326	326	326	-
Random (F_2)	56	254	391	160	50.0
A 429		268			
DOR 44		355			

Cuadro 8.

Average seed yield (gms/plot) in F_4 progenies from F_3 individual selections made by different selection criteria

CROSS 12362

A 429 x XAN 112

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	15	264	394	126	62.3
2. Total weight	2	287	290	283	-
3. Yield/Day	4	243	271	187	37.7
4. Visual Selection	73	276	442	98	63.5
1 + 2	-	-	-	-	-
1 + 3	2	350	391	310	-
2 + 3	9	314	413	255	50.4
1 + 2 + 3	3	203	276	126	74.8
Random (F_2)	55	258	416	61	70.3
A 429		268			
XAN 112		256			

Cuadro 9.

Average seed yield (gms/plot) in F_4 progenies from F_3 individual selections made by different selection criteria

CROS 12390

A 429 x CHICHICASTE

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	10	287	371	234	42.0
2. Total weight	2	216	219	212	-
3. Yield/Day	-	-	-	-	-
4. Visual Selection	20	251	399	156	62.4
1 + 2	-	-	-	-	-
1 + 3	2	241	258	224	-
2 + 3	4	287	365	213	64.7
1 + 2 + 3	-	-	-	-	-
Random (F_2)	58	234	416	16	73.6
A 429		268			
Chichicaste		253			

Cuadro 10.

Average seed yield (gms/plot) in F₄ progenies from F₃ individual selections made by different selection criteria

CROSS 12391

A 429 x PATA DE ZOPE

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	9	279	307	245	19.3
2. Total weight	4	306	349	235	49.2
3. Yield/Day	-	-	-	-	-
4. Visual Selection	35	270	365	146	54.9
1 + 2	-	-	-	-	-
1 + 3	1	263	263	263	-
2 + 3	2	228	297	159	-
1 + 2 + 3	3	261	282	241	-
Random (F ₂)	54	264	563	81	74.1
A 429		268			
Pata de Zope		259			

Cuadro 11.

Average seed yield (gms/plot) in F_4 progenies from F_3 individual selections made by different selection criteria

CROSS 12420

DOR 41 x AGUAS CALIENTES 92

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	3	262	300	235	33.7
2. Total weight	-	-	-	-	-
3. Yield/Day	-	-	-	-	-
4. Visual Selection	8	248	331	158	55.4
1 + 2	1	248	248	248	-
1 + 3	1	221	221	221	-
2 + 3	3	264	308	209	50.4
1 + 2 + 3	1	240	240	240	-
Random (F_2)	56	245	399	146	49.8
DOR 41		399			
Aguas Calientes 92		201			

Cuadro 12.

Average seed yield (gms/plot) in F_4 progenies from F_3 individual selections made by different selection criteria

CROSS 12440

A 429 x PECHO AMARILLO

Selection Criteria	No of Sels.	Mean Yield	Max. Yield	Min. Yield	Std. Dev.
1. Harvest Index	26	256	367	170	48.3
2. Total weight	4	246	294	211	40.0
3. Yield/Day	1	254	254	254	-
4. Visual Selection	127	261	376	136	45.6
1 + 2	-	-	-	-	-
1 + 3	1	308	308	308	-
2 + 3	6	313	383	274	40.7
1 + 2 + 3	2	272	277	267	-
Random (F_2)	55	257	386	124	51.8
A 429		268			
Pecho Amarillo		285			

Cuadro 13.

Average seed yield (gms/plot) in F_4 progenies from F_3 individual selections made by different selection criteria

CROSS 12209

A 429 x DOR 44

Selection Criteria	No of Sels.	Mean Yield	Max: Yield	Min. Yield	Std. Dev.
1. Harvest Index	11	245	296	181	39.8
2. Total weight	1	198	198	198	-
3. Yield/Day	2	243	261	225	-
4. Visual Selection	79	258	336	150	42.5
1 + 2	-	-	-	-	-
1 + 3	-	-	-	-	-
2 + 3	-	-	-	-	-
1 + 2 + 3	1	202	202	202	-
Random (F_2)	56	254	391	160	50.0
A 429		268			
DOR 44		355			

Data file **V1785**
 Title: Vivero de seleccion para rend85

Function: PRLIST
 Data case no. 1 to 821
 Without selection

- 0 5 Numero de cruza
- 1 -20 Progenitores
- 2 3 F2:1=IC;2=IC+W;3=IC+W+W/dia;4=sol;5=ab;6=1+2;7=1+3;8=1+4;9=1+5;10=1+6
- 3 -10 Identificacion de la seleccion
- 4 3 Peso total por planta F2 gms x 10
- 5 2 Indice de cosecha %
- 6 2 Dias a madurez fisiologica F2
- 7 3 Peso total por dia F2 gms/dia x 100
- 8 2 Rendimiento por dia F2 gms/dia x 100
- 9 3 Peso total F3 gms x 10
- 10 3 Peso semilla F3 gms x 10
- 11 2 Indice de cosecha F3 %
- 12 2 Dias a madurez fisiologica F3
- 13 3 Peso total por dia F3 gms/dia x 100
- 14 2 Rendimiento por dia F3 gms/dia x 100
- 15 1 F2:1=IC;2=IC+W;3=IC+W+W/dia;4=sol;5=ab;6=1+2;7=1+3;8=1+4;9=1+5;10=1+6
- 16 3 Numero de entrada
- 17 3 Numero de entrada ex-v1236240
- 18 4 Peso de semilla por parcela corregido gmsx10

CAS	0	0 0	0 0 0 0	0 0 0	1 1 1	1 1 1	1 1 1	1 1 1
NUM.	0	1 2	3 4 5 6	7 8 9	0 1 2	3 4 5	6 7 8	

12362	4 1-1	508 61 70	73 44 237	156 57 76	31 18 4	1	1	2670
12362	4 1-2	508 61 70	73 44 149	59 66 76	20 13 1	2	2	2613
12362	4 2-1	248 61 68	36 22 156	167 57 77	14 14 4	3	3	1802
12362	4 2-2	248 61 68	36 22 115	69 60 77	15 9 4	4	4	2032
12362	4 3-1	394 60 76	52 31 174	83 61 76	18 11 4	5	5	1611
12362	4 4-1	257 58 75	34 26 236	193 65 79	41 25 5	6	6	1874
12362	4 4-2	257 58 75	34 26 254	166 65 76	32 22 5	7	7	2134
12362	1 5-1	332 66 74	45 30 191	121 65 76	25 16 4	8	8	2185
12362	4 6-1	328 59 84	39 25 292	195 66 71	41 27 1	9	9	2713
12362	4 6-2	328 59 84	39 25 151	127 70 75	24 17 1	10	10	2135
12362	4 9-1	328 59 84	39 25 287	201 71 74	28 27 1	11	11	2731
12362	8 7-1	607 63 74	52 32 126	81 64 71	16 11 4	12	12	2551
12362	8 7-2	607 63 74	52 32 161	104 64 75	21 14 4	13	13	2105
12362	2 8-1	635 62 80	79 48 250	159 67 71	28 21 4	14	14	2635
12362	2 8-2	635 62 80	79 48 181	91 67 75	21 15 4	15	15	2716
12362	2 8-3	635 62 80	79 48 149	131 67 75	23 15 1	16	16	2416
12362	4 9-1	366 59 66	46 27 158	99 62 78	20 13 4	17	17	
12362	1 10-1	327 66 75	44 29 145	59 47 71	20 16 4	18	18	2774
12362	1 10-2	327 66 75	44 29 307	259 67 76	54 34 9	19	19	2581
12362	1 10-3	327 66 75	44 29 200	125 62 77	28 16 4	20	20	2598
12362	4 11-1	371 56 80	46 26 198	122 61 72	28 17 4	21	21	2611
12362	4 11-2	371 56 80	46 26 155	97 62 75	21 13 4	22	22	3524
12362	4 11-3	371 56 80	46 26 142	88 61 75	19 12 4	23	23	2432
12362	4 12-1	546 67 94	65 44 245	154 62 77	32 20 4	24	24	1730
12362	4 13-1	363 56 77	47 26 321	201 62 75	40 27 2	25	25	2516
12362	1 15-1	345 67 70	49 33 296	200 67 72	41 25 7	26	26	2100
12362	1 15-2	345 67 70	49 33 155	101 65 73	21 14 1	27	27	2911
12362	1 15-3	345 67 70	49 33 165	118 71 74	22 16 1	28	28	3241
12362	1 16-1	337 66 74	46 30 225	140 62 71	32 20 4	29	29	1531
12362	1 16-2	337 66 74	46 30 210	127 62 75	28 17 4	30	30	3327

30	12362	4 16-1	307 66 77	70 49	243 127 69 70	23 11 4	31	31 3677
31	12362	1 16-3	337 66 74	46 30	271 163 60 76	36 21 4	31	31 3677
32	12362	4 17-1	363 60 72	50 30	115 72 62 71	16 10 4	32	32 1954
33	12362	4 18-1	491 63 70	70 44	243 152 62 69	35 22 4	33	33 3254
34	12362	4 18-2	491 63 70	70 44	196 127 64 71	28 18 4	34	34 2359
35	12362	4 18-3	491 63 70	70 44	328 216 66 76	43 29 9	35	35 2760
36	12362	8 19-1	640 64 82	78 50	293 197 67 78	39 24 4	36	36 3026
37	12362	8 19-1	640 64 82	78 50	227 133 66 77	29 17 4	37	37 2586
38	12362	8 20-2	671 64 82	106 68	177 105 69 77	27 14 4	38	38 3161
39	12362	4 21-1	502 62 72	70 43	325 204 62 71	46 23 9	39	39 2852
40	12362	4 21-2	502 62 72	70 43	115 65 67 75	15 9 4	40	40 2346
41	12362	1 23-1	557 66 76	73 48	171 77 68 68	19 11 4	41	41 2101
42	12362	1 23-2	557 66 76	73 48	114 67 65 77	13 15 4	42	42 2588
43	12362	1 23-3	557 66 76	73 48	173 122 68 77	23 11 4	43	43 2476
44	12362	3 24-1	519 65 72	78 51	297 188 60 69	41 27 3	44	44 2707
45	12362	3 24-2	519 65 72	78 51	233 131 61 72	29 14 4	45	45 2117
46	12362	3 24-3	519 65 72	78 51	154 109 60 70	23 14 4	46	46 2155
47	12362	4 25-1	576 61 75	48 27	221 175 68 74	31 18 4	48	48 2092
48	12362	1 26-1	527 65 72	48 21	145 73 64 71	21 11 4	47	47 2161
49	12362	1 26-2	527 65 72	48 21	227 128 67 76	31 7 9	48	48 2171
50	12362	4 27-1	511 64 71	41 17	131 67 66 75	11 17 4	49	49 2151
51	12362	4 27-2	511 64 71	41 17	225 131 67 76	31 7 9	50	50 2217
52	12362	4 24-1	519 67 77	77 52	107 63 69 74	13 15 4	51	51 2287
53	12362	4 24-2	519 67 77	77 52	231 129 67 76	31 29 1	52	52 2101
54	12362	4 25-1	542 58 72	74 21	410 244 69 77	51 31 1	53	53 2299
55	12362	4 25-2	542 58 72	74 21	227 125 67 77	31 22 4	54	54 2117
56	12362	1 26-1	411 61 75	50 26	118 71 61 73	11 11 4	55	55 2111
57	12362	1 26-2	411 61 75	50 26	169 122 67 75	23 17 4	56	56 2161
58	12362	4 27-1	332 63 74	49 30	53 41 49 60	11 7 4	57	57 2124
59	12362	2 28-1	653 60 84	79 47	427 222 67 76	43 23 2	58	58 2326
60	12362	2 28-2	653 60 84	79 47	187 123 62 75	23 16 4	59	59 2178
61	12362	2 28-3	653 60 84	79 47	287 170 66 76	37 21 4	60	60 2416
62	12362	8 29-1	607 65 71	85 55	239 158 64 76	31 26 4	61	61 2737
63	12362	4 30-1	468 65 79	59 37	211 191 61 72	40 25 1	64	64 2571
64	12362	4 30-2	468 65 79	59 37	261 161 61 72	34 21 4	65	65 2492
65	12362	4 30-3	468 65 79	59 37	186 121 65 77	24 16 1	66	66 2114
66	12362	4 31-1	397 63 75	52 33	73 41 57 70	13 8 9	67	67 2176
67	12362	4 32-1	312 60 87	79 25	161 98 62 69	24 14 4	68	68 2428
68	12362	4 32-2	312 60 87	79 25	237 131 62 73	33 17 4	69	69 2796
69	12362	4 32-3	312 60 87	79 25	225 121 62 73	33 16 4	70	70 2221
70	12362	4 34-1	341 61 76	45 29	127 112 60 69	27 10 4	71	71 2114
71	12362	1 34-2	341 61 76	45 29	153 111 62 73	33 14 4	72	72 2171
72	12362	4 35-1	448 61 84	67 26	261 157 63 73	39 25 1	73	73 2111
73	12362	4 35-2	448 61 84	67 26	127 70 61 71	13 11 4	74	74 2171
74	12362	4 35-3	448 61 84	67 26	224 128 61 71	31 23 4	75	75 2112
75	12362	1 36-1	411 55 75	41 21	127 68 64 74	11 11 4	76	76 2122
76	12362	4 37-1	312 61 81	61 21	121 61 66 71	11 11 4	77	77 2111
77	12362	4 37-2	312 61 81	61 21	221 121 61 71	31 17 4	78	78 2211
78	12362	1 38-1	312 61 81	61 21	121 61 66 71	11 11 4	79	79 2211
79	12362	2 38-1	312 61 81	61 21	121 61 66 71	11 11 4	80	80 2211
80	12362	2 38-2	312 61 81	61 21	121 61 66 71	11 11 4	81	81 2211
81	12362	1 39-1	312 61 81	61 21	121 61 66 71	11 11 4	82	82 2211
82	12362	1 39-2	312 61 81	61 21	121 61 66 71	11 11 4	83	83 2211
83	12362	1 39-3	312 61 81	61 21	121 61 66 71	11 11 4	84	84 2211
84	12362	1 39-4	312 61 81	61 21	121 61 66 71	11 11 4	85	85 2211
85	12362	1 39-5	312 61 81	61 21	121 61 66 71	11 11 4	86	86 2211
86	12362	4 40-1	411 61 75	41 21	127 68 64 74	11 11 4	87	87 2124
87	12362	4 40-2	411 61 75	41 21	114 74 64 76	13 10 4	88	88 2127
88	12362	8 50-1	728 64 78	87 57	241 145 67 71	34 26 4	89	89 2216
89	12362	8 50-2	728 64 78	87 57	218 123 67 71	31 19 4	90	90 2287
90	12362	4 51-1	372 65 74	51 23	262 126 67 72	35 19 4	91	91 2176
91	12362	4 52-2	372 65 74	51 23	223 121 67 73	31 16 9	92	92 2117
92	12362	4 53-3	372 65 74	51 23	267 127 67 73	34 21 4	93	93 2217
93	12362	8 55-1	897 64 84	107 69	121 75 66 77	19 10 4	94	94 2751
94	12362	8 55-2	897 64 84	107 69	129 71 69 77	19 9 4	95	95 2111
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750 12209	4 47-1	276 59 82	34 20 148	95 64 70	21 14 4	94 94 2712
757 12209	4 47-2	276 59 82	34 20 130	75 58 70	19 11 4	95 95 2846
758 12209	1 49-1	151 65 82	18 12 266	162 61 76	35 21 4	96 96 2622
759 12209	1 49-2	151 65 82	18 12 114	61 54 73	16 8 4	97 97 2724
760 12209	4 50-1	271 62 82	33 20 178	101 57 72	25 14 4	98 98 3255
761 12209	4 50-2	271 62 82	33 20 324	207 64 72	45 29 4	99 99 3363
762 12209	4 50-3	271 62 82	33 20 149	82 59 72	19 11 4	100 100 3363
763 12209	4 51-1	252 61 77	33 20 224	140 63 74	30 19 4	101 101 2949
764 12209	4 51-2	252 61 77	33 20 353	225 64 80	44 28 4	102 102 2949
765 12209	5 52-cb	235 58			5 107	103 2477
766 12209	5 53-cb	235 58			5 104	104 2189
767 12209	5 54-cb	232 54			5 115	105 2752
768 12209	5 55-cb	197 41			5 106	106 2207
769 12209	5 56-cb	179 56			5 107	107 2113
770 12209	5 57-cb	265 59			5 108	108 2181
771 12209	5 58-cb	242 62			5 109	109 2147
772 12209	5 59-cb	225 61			5 110	110 2287
773 12209	5 60-cb	351 60			5 111	111 2962
774 12209	5 61-cb	427 59			5 112	112 2181
775 12209	5 62-cb	377 67			5 113	113 2181
776 12209	5 63-cb	278 58			5 114	114 2944
777 12209	5 64-cb	177 67			5 115	115 2901
778 12209	5 65-cb	316 51			5 116	116 2302
779 12209	5 66-cb	427 52			5 117	117 2941
780 12209	5 67-cb	277 59			5 118	118 2287
781 12209	5 68-cb	124 59			5 119	119 2282
782 12209	5 69-cb	443 57			5 120	120 2732
783 12209	5 70-cb	396 48			5 121	121 2046
784 12209	5 71-cb	532 41			5 122	122 2687
785 12209	5 72-cb	190 53			5 123	123 2598
786 12209	5 73-cb	265 57			5 124	124 2371
787 12209	5 74-cb	138 57			5 125	125 3217
788 12209	5 75-cb	472 52			5 126	126 2462
789 12209	5 76-cb	431 59			5 127	127 2571
790 12209	5 77-cb	299 55			5 128	128 3217
791 12209	5 78-cb	178 54			5 129	129 2007
792 12209	5 79-cb	360 50			5 130	130 2321
793 12209	5 80-cb	67 41			5 131	131 2888
794 12209	5 81-cb	518 60			5 132	132 2941
795 12209	5 82-cb	346 58			5 133	133 2289
796 12209	5 83-cb	193 61			5 134	134 2287
797 12209	5 84-cb	228 57			5 135	135 2117
798 12209	5 85-cb	215 61			5 136	136 2287
799 12209	5 86-cb	297 56			5 137	137 2210
800 12209	5 87-cb	216 51			5 138	138 2101
801 12209	5 88-cb	487 55			5 139	139 2107
802 12209	5 89-cb	144 58			5 140	140 2101
803 12209	5 90-cb	392 46			5 141	141 2282
804 12209	5 91-cb	411 52			5 142	142 2942
805 12209	5 92-cb	226 60			5 143	143 2178
806 12209	5 93-cb	274 56			5 144	144 2176
807 12209	5 94-cb	418 52			5 145	145 2171
808 12209	5 95-cb	270 61			5 146	146 2171
809 12209	5 96-cb	224 55			5 147	147 2144
810 12209	5 97-cb	142 58			5 148	148 2141
811 12209	5 102-cb	268 61			5 157	157 2513
812 12209	5 103-cb	354 58			5 158	158 2140
813 12209	5 104-cb	145 45			5 159	159 2347
814 12209	5 105-cb	214 66			5 160	160 2187
815 12209	5 106-cb	435 54			5 161	161 2171
816 12209	5 107-cb	120 57			5 162	162 2950
817 12209	5 108-cb	153 64			5 163	163 3075
818 12209	5 109-cb	318 55			5 164	164 2171
819 12209	5 110-cb	402 59			5 165	165 2689
820 12209	5 111-cb	189 61			5 166	166 3169

Data file EFB241
Title: Estudio de fotoperiodo 3 cultivares Palcira II et al

Function: FRLIST
Data case no. 721 to 912
Without selection

0 4 Numero de parcelas
1 1 Numero de tratamientos
2 2 Dias a floracion
3 1 Lectura de escala
4 2 Dias a madurez
5 2 Mudo de primera y segunda cosecha
6 2 Longitud de vaina por planta
7 2 Numero de vainas por planta
8 2 Numero de semillas por vaina
9 2 Numero de semillas
10 2 Numero de semillas por planta
11 2 Numero de semillas por planta
12 3 Peso total por planta (grain + straw)
13 2 Peso de semillas por planta (grain)
14 2 Numero de semillas por planta
15 2 Numero de semillas por planta
16 2 Numero de semillas por planta
17 2 Contenido de humedad
18 4 Rendimiento hasta cosecha
19 1 Bloque (repetition)
20 1 Fotoperiodo
21 1 Clase de soporte
22 2 Numero de semillas en 15 vainas
23 2 Peso de semilla de 15 vainas en gramos x 10
24 2 Peso de semilla en centigramos
25 2 Numero de semillas por vaina x 10
26 2 Duracion del llenado de vainas
27 2 Rendimiento por dia (kg ha-1 dia-1)

783	3207	6	40	5	85	8	32	16	20	5	9	15	89	53	59	78	347	8	809	2	2	1	84	138	16	56	45	9
784	3208	3	40	2	89	7	46	10	14	4	9	17	152	95	62	90	1437	15	2835	2	2	1	86	160	19	57	40	35
785	3301	2	46	2	85	8	48	6	17	4	7	11	121	74	61	81	1299	9	2729	3	2	1	97	218	22	64	39	32
786	3302	8	45	4	82	9	53	12	13	7	7	11	85	51	60	84	858	17	1659	3	2	1	80	170	21	53	37	20
787	3303	5	42	3	82	8	54	15	15	4	9	14	144	92	63	91	1197	18	2322	3	2	1	90	212	23	60	40	22
788	3304	3	42	3	82	7	48	8	15	4	7	12	99	62	62	87	1104	17	2126	3	2	1	97	210	21	64	40	25
789	3305	1	43	4	76	9	57	20	15	6	11	18	127	71	55	87	838	16	1393	3	2	1	97	201	20	64	33	18
790	3306	6	39	5	85	9	40	35	16	6	9	14	75	39	52	88	408	9	893	3	2	1	79	127	16	52	46	18
791	3307	4	42	3	82	8	61	20	15	5	7	11	103	62	60	82	1925	19	1939	3	2	1	93	209	22	62	40	23
792	3308	7	41	3	89	9	48	16	15	6	7	13	149	90	60	92	1072	15	2169	3	2	1	101	221	21	67	48	24
793	4101	7	40	1	86	7	66	18	21	4	11	15	108	69	63	90	1186	15	2324	1	2	1	101	148	14	67	48	27
794	4102	6	42	1	89	10	59	54	27	16	12	21	134	64	47	93	469	9	1059	1	2	1	101	170	12	67	47	11
795	4103	1	43	1	88	8	59	9	24	6	11	20	188	119	63	91	1487	15	2375	1	2	1	96	167	19	67	45	13
796	4104	4	42	1	86	8	62	16	19	6	10	16	182	119	63	87	1458	14	2490	1	2	1	117	180	14	67	44	16
797	4105	6	43	3	82	10	58	15	13	6	12	21	158	101	63	93	1033	13	2102	1	2	1	75	167	20	62	37	26
798	4106	2	46	3	85	9	49	14	19	5	10	18	174	101	58	90	1501	14	2009	1	2	1	101	134	11	67	39	15
799	4107	3	42	3	82	7	43	5	13	4	6	10	94	60	63	89	1157	15	2058	1	2	1	84	160	17	58	40	27
800	4108	5	40	3	82	7	43	7	16	3	6	10	78	57	53	12	1290	10	2636	1	2	1	85	112	17	50	40	11
801	4201	2	46	2	87	9	54	7	18	4	6	12	131	79	60	94	1352	15	2594	2	2	1	87	195	17	64	41	19
802	4202	7	41	1	88	9	55	16	24	5	11	19	131	104	58		1558	15	2551	1	2	1	102	119	19	63	47	11
803	4203	5	43	1	84	7	52	8	14	7	7	13	118	72	64	96	1055	10	2518	1	2	1	84	176	17	61	41	16
804	4204	1	45	1	85	8	55	7	24	5	9	14	153	89	68	92	1175	16	2418	1	2	1	75	196	18	61	41	16
805	4205	8	45	1	82	9	57	18	14	9	11	20	171	107	62	77	923	4	1908	2	2	1	88	171	17	67	37	23
806	4206	4	43	1	86	9	73	16	21	6	11	19	172	120	67	91	1616	14	2194	1	2	1	78	177	17	64	42	16
807	4207	6	42	1	88	12	44	23	25	6	12	19	132	78	59	87	877	15	1713	1	2	1	82	122	16	61	41	16
808	4208	3	43	1	82	9	51	12	13	6	10	17	107	63	55	91	1166	15	2025	1	2	1	104	104	11	67	37	17
809	4301	2	46	1	87	9	56	8	17	4	7	14	140	91	57	90	1474	15	2525	1	2	1	105	121	11	67	41	17
810	4302	3	43	1	81	8	46	12	16	5	8	14	116	66	56	83	1040	14	2037	3	2	1	89	177	19	65	38	25
811	4303	7	41	1	88	9	55	13	20	6	10	16	156	101	60	88	1150	15	2378	3	2	1	108	128	11	67	47	16
812	4304	5	42	1	84	9	56	10	17	3	7	11	111	67	60	94	1136	16	2150	3	2	1	87	171	11	62	42	16
813	4305	8	45	1	83	7	63	12	13	6	10	15	123	73	59	92	1189	14	2362	3	2	1	80	147	13	58	38	21
814	4306	6	42	1	70	11	46	37	28	8	16	28	187	188	57	55	342	8	1692	3	2	1	84	137	16	62	48	11
815	4307	1	43	1	88	10	61	12	25	9	12	23	218	143	64	91	1716	19	3120	3	2	1	107	264	24	71	45	16
816	4308	4	41	1	85	9	64	16	16	6	9	15	180	99	61	90	1717	14	2453	3	2	1	107	173	11	68	44	11
817	5101	6	39	5	81	8	57	25	16	6	8	11	84	75	56	98	876	17	1302	1	3	1	85	136	18	57	42	16
818	5102	1	42	5	81	8	53	17	15	5	9	15	100	66	64	94	545	15	1894	1	3	1	106	233	21	70	39	20
819	5103	3	42	4	82	7	55	14	15	4	9	14	106	65	60	97	1084	14	2140	1	3	1	97	136	20	61	46	14
820	5104	2	44	2	82	7	54	6	15	4	6	11	118	74	62	90	1107	16	2130	1	3	1	92	162	11	61	38	17
821	5105	8	43	2	75	9	60	19	13	9	12	16	101	61	57	93	776	14	1551	1	3	1	84	177	18	61	32	14
822	5106	7	41	3	81	8	56	13	16	6	8	10	109	63	58	99	1082	15	2179	1	3	1	82	123	11	63	40	16
823	5107	5	42	3	80	7	53	8	15	4	6	11	81	47	53	90	1070	15	2081	1	3	1	84	174	11	61	41	12
824	5108	4	41	4	81	7	70	42	14	4	7	10	97	62	63	95	914	15	1835	1	3	1	81	122	11	61	41	12
825	5201	4	41	3	76	7	45	16	14	4	11	16	117	74	67	79	561	14	1835	1	3	1	87	112	11	61	38	16
826	5202	3	41	2	75	8	52	17	14	3	10	17	127	75	58	86	1008	15	2421	1	3	1	87	166	11	62	38	16
827	5203	6	42	5	85	7	49	33	15	6	11	16	37	50	57	84	437	8	184	1	3	1	87	147	16	64	40	11
828	5204	1	40	4	81	11	59	23	20	7	11	23	140	66	61	89	1040	13	2494	2	3	1	81	177	11	63	38	16
829	5205	5	40	3	82	7	54	7	14	3	5	9	90	51	56	95	1087	15	2111	1	3	1	84	188	11	63	38	16
830	5206	7	41	3	77	9	57	18	16	5	8	13	130	63	63	85	1131	15	2371	1	3	1	105	127	11	61	38	16
831	5207	6	43	5	75	8	44	10	11	6	7	11	74	49	66	67	854	14	1711	1	3	1	77	182	19	61	32	10
832	5208	2	44	3	79	7	49	9	15	4	6	11	132	60	58	85	1376	14	1850	1	3	1	81	182	11	62	35	11
833	5301	4	41	5	78	9	52	14	13	5	6	10	70	59	54	93	1430	14	1650	1	3	1	80	187	13	63	38	16
834	5302	1	43	4	79	8	57	16	17	5	11	21	159	103	64	83	547	16	1566	3	3	1	81	184	11	61	38	16
835	5303	2	44	3	79	6	51	17	17	6	9	17	157	74	69	81	1145	16	1851	3	3	1	87	182	11	63	38	16
836	5304	3	43	4	76	8	48	11	17	5	8	14	91	56	63	91	1007	13	2178	3	3	1	87	174	13	66	37	17
837	5305	6	41	5	80	6	50	20	16	4	8	12	78	45	67	85	779	21	1420	1	3	1	80	172	11	61	42	17
838	5306	5	43	3	81	8	50	9	13	5	6	11	111	66	59	86	1045	14	2442	3	3	1	75	191	11	62	35	11
839	5307	7	42	3	81	6	45	8	13	3	7	10	105	64	62	77	1266	15	2480	3	3	1	110	176	11	63	39	16
840	5308	3	43	2	84	6	45	17	14	5	9	16	104	60	59	75	1291	15	2535	3	3	1	101	184	11	67	41	11
841	6101	6	41	1	90	10	57	44	24	13	16	20	239	143	62	76	1314	8	2870	1	3	2	75	188	16	62	39	11
842	6102	2	43	3	82	7	54	11	15	4	9</																	

21	29	38	2	66	71	193	334	181	119	517	76	147	59	89	58	4	20	57	58	41	2	65	96	233	381	193	129	677
22	30	39	2	61	74	154	272	201	123	393	74	189	67	111	61	3	17	65	57	45	2	73	77	159	212	158	96	490
23	31	42	1	73	123	201	361	175	104	437	76	181	63	112	61	3	21	61	71	44	1	82	156	208	237	129	79	471
24	32	40	2	69	73	172	287	159	90	491	76	152	71	91	59	4	19	70	47	42	2	75	95	168	228	151	85	508
25	34	39	2	65	78	193	265	259	139	538	76	248	71	159	64	3	20	67	53	41	2	81	91	210	203	200	101	610
26	35	39	2	65	74	170	169	175	95	565	77	173	73	98	57	4	21	63	43	41	2	75	91	167	184	129	72	569
27	36	38	2	72	73	183	233	218	143	440	76	238	122	136	57	5	24	64	44	40	2	78	92	167	158	157	83	501
28	37	28	2	37	51	142	50	153	75	534	61	135	40	66	63	3	18	49	21	45	3	127	120	261	139	155	39	579
29	39	38	2	64	76	150	149	167	92	507	72	146	70	89	59	4	20	65	46	39	2	57	87	135	155	151	83	524
30	40	38	1	59	71	174	310	227	122	475	79	194	75	107	55	4	18	60	64	39	1	62	107	173	309	135	107	378
31	41	38	2	61	74	155	238	209	116	540	75	200	98	103	60	4	19	65	47	38	1	60	77	167	151	170	98	499
32	42	40	2	62	69	160	204	182	117	545	81	166	97	94	56	5	18	61	42	41	2	74	80	194	163	138	110	577
33	43	39	2	70	71	183	205	183	109	542	77	203	113	112	55	5	20	69	47	39	2	77	85	189	179	151	99	590
34	44	37	1	74	77	175	295	216	128	453	70	195	83	115	61	4	20	65	47	39	1	75	89	177	215	155	101	548
35	45	39	2	65	76	171	302	232	143	511	77	207	92	117	56	4	19	59	47	40	2	71	85	170	270	166	107	565
36	46	38	3	66	71	163	110	167	102	517	72	167	79	100	59	4	22	61	43	56	3	107	178	211	280	191	95	519
37	47	39	1	63	73	170	237	193	116	421	76	169	66	100	60	5	20	60	41	40	1	83	69	167	233	159	121	447
38	48	37	1	53	51	139	155	215	135	475	74	157	104	91	58	7	16	63	31	39	2	59	60	161	153	126	100	539
39	49	38	2	67	71	157	109	168	99	579	73	166	79	97	58	4	21	62	39	36	3	106	168	211	337	237	150	583
40	50	37	2	67	68	145	188	187	107	557	68	154	51	92	60	3	17	61	39	37	2	66	75	145	174	161	80	611
41	51	37	2	67	71	143	157	155	87	519	69	125	55	78	62	3	19	56	39	39	1	59	75	138	157	121	73	526
42	52	37	2	65	71	148	147	173	91	610	68	140	52	80	56	7	17	62	57	38	1	64	71	167	156	150	50	651
43	53	37	2	61	66	141	176	175	102	577	69	130	65	78	58	4	18	59	37	38	1	57	67	145	167	134	75	640
44	54	37	1	61	70	147	194	207	132	538	68	147	68	80	56	5	16	57	41	37	2	68	74	172	197	157	115	578
45	55	35	1	43	71	159	296	245	159	491	71	181	61	115	59	3	21	52	59	37	1	44	67	163	271	181	119	576
46	56	39	2	67	72	161	243	191	151	457	75	180	67	95	65	3	19	58	43	41	2	73	112	174	210	170	93	473
47	57	38	2	61	70	97	154	156	100	421	69	125	46	61	55	4	16	61	33	38	1	57	77	152	132	151	107	501
48	58	37	2	69	66	105	147	182	109	435	70	125	49	76	61	3	20	55	70	58	2	74	146	161	190	52	34	546
49	60	36	1	51	73	141	177	159	95	482	66	121	70	62	52	6	16	56	47	35	2	92	119	165	416	160	77	591
50	61	39	2	59	73	145	170	145	63	526	71	136	61	77	59	4	22	51	45	66	3	104	120	182	308	132	30	562
51	63	37	1	61	73	136	240	179	115	552	63	143	58	84	58	4	16	65	55	37	1	52	73	136	213	152	101	533
52	65	39	2	54	80	150	159	163	91	515	75	162	91	98	59	6	21	59	48	41	2	62	60	156	151	170	75	551
53	66	31	2	67	64	71	99	109	74	311	66	120	70	68	56	6	28	37	67	31	2	72	63	75	125	118	75	369
54	67	30	1	41	51	139	85	161	91	450	62	119	64	72	60	4	17	54	30	30	1	41	43	131	60	136	71	575
55	68	34	2	50	67	208	295	199	131	517	68	137	55	76	57	4	18	52	49	38	2	59	80	226	421	289	165	538
56	69	34	1	45	70	184	229	166	118	658	68	151	47	93	60	3	22	54	45	35	2	60	77	186	275	184	106	715
57	75	38	2	56	76	160	261	215	135	465	75	175	75	198	61	4	21	57	54	46	2	67	102	132	216	182	102	367
58	76	3	2	71	73	155	169	195	99	557	70	175	60	135	59	3	23	60	49	62	2	121	132	180	432	172	66	468
59	77	38	2	69	81	157	218	189	105	457	72	121	69	89	58	4	17	63	66	79	2	66	60	165	212	135	78	490
60	78	39	2	61	86	166	190	122	80	567	74	135	30	71	52	5	21	68	40	40	2	59	85	160	165	233	91	521
61	79	37	2	51	69	161	162	182	101	463	74	161	78	99	61	3	19	65	42	38	1	59	71	167	139	139	94	536
62	80	34	2	45	64	182	137	182	104	437	77	155	85	102	56	5	21	65	35	56	3	109	108	217	215	111	65	559

Data file: 012300p1 2500
 Title: est fotos. 30 gen Fair 11x10

Function: PDLIST
 Data case no. : 10 22
 Without selection

- 28 2 Dias a madurez fisiologica 18 h
- 29 4 Peso total de 5 plantas gms 18 h
- 30 3 Peso de raiz de 5 plantas gms 18 h
- 31 3 Peso de semilla de 5 plantas gms 18 h
- 32 2 Indice de cosecha 18 h
- 33 2 Relacion raiz parte aerea porcentaje 18 h
- 34 2 Peso de 100 semillas gms 18 h
- 35 2 Semillas por vaina 18 h
- 36 3 Ramas por planta 18 h
- 37 2 Diferencia en dias a floracion
- 38 2 Diferencia en tamaño de raíz 18 dias
- 39 2 Diferencia en posición primera flor
- 40 3 Diferencia en posición de floración por planta
- 41 3 Diferencia en no. de frutos por planta
- 42 4 Diferencia en no. de vainas por planta
- 43 4 Diferencia en no. de semillas por planta
- 44 4 Diferencia en no. de racimos por planta
- 45 4 Diferencia en longitud del tallo
- 46 3 Diferencia en diámetro del tallo
- 47 3 Diferencia en peso total 5 pl
- 48 3 Diferencia en peso de raíz 5 pl
- 49 4 Diferencia en peso de semilla 5 pl
- 50 2 Diferencia en índice de cosecha
- 51 2 Diferencia en relación raíz parte aérea
- 52 3 Diferencia en peso de 100 semillas 5 pl
- 53 3 Diferencia en semillas por vaina
- 54 3 Diferencia en ramas por planta
- 55 2 Diferencia en vainas por racimo 18 h

CAS	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5		
NUM.	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	
1 68	88	66	45	51	8	16	49	45	1	0	19	3	5	-27	-34	-20	-1	0	-35	4	-20	-1	0	-2	-2	-3	-1
2 75	146	91	30	55	6	20	52	67	1	0	5	28	-15	5	-178	-7	29	1	-25	7	-19	-1	1	0	1	12	-13
3 90	97	98	36	37	11	18	54	67	18	1	56	100	2	64	-62	-29	92	15	-35	14	-52	0	0	-4	-1	15	-1
4 75	143	70	78	52	5	14	62	69	1	0	-1	27	15	48	-11	-5	62	0	-13	-3	-20	-9	1	-1	1	14	0
5 73	162	76	89	55	4	17	64	51	0	0	3	4	7	16	15	11	9	-3	0	10	-9	-5	1	-2	3	10	-1
6 69	120	46	67	55	3	22	46	88	0	0	11	6	10	-5	-17	-7	74	0	-6	-1	-7	-3	0	-1	-1	9	-1

7 74	155	83	88	58	5	16	67	51	2	0	-1	12	-10	-15	-26	-23	12	-3	-58	-12	-39	-1	1	-5	-1	8	1
8 99	273	90	98	35	3	21	30	180	25	-1	40	94	-144	77	77	26	97	15	4	0	-8	-3	112	-3			
9 90	115	91	45	39	8	22	35	216	20	0	28	44	43	269	-45	34	-13	23	-20	18	-23	3	1	4	125	-7	
10 88	215	70	94	44	3	16	57	95	9	0	42	71	81	75	82	39	17	20	87	24	20	0	-2	4	24	0	
11 74	70	47	28	40	7	14	27	77	3	0	13	23	8	85	1	-10	-59	-1	-153	-46	-105	3	-5	-33	22	1	
12 77	155	72	83	52	5	16	57	72	2	0	194	16	-20	4	-83	-44	16	2	-113	-30	-75	-6	1	-4	0	26	-1
13 68	132	40	82	62	3	19	51	49	0	0	-1	-6	3	-13	5	1	27	-1	8	10	3	-1	1	-1	1	0	0
14 72	139	62	78	55	4	20	56	50	1	0	-3	24	1	50	-6	0	3	-1	-15	-8	-16	-5	0	-2	0	6	-1
15 70	157	60	65	43	4	17	53	69	1	1	-4	16	42	180	24	23	36	-1	29	14	-14	1	-4	-2	74	-2	
16 61	78	37	45	57	5	26	39	52	1	0	3	-6	1	9	7	-4	34	-1	-18	-5	-19	0	-9	-2	3	2	
17 69	118	37	68	57	3	19	50	47	2	0	20	16	-8	-108	-75	-51	-20	-2	-101	-29	-63	-2	0	-2	-3	-5	0
18 68	150	61	84	56	3	21	64	35	-1	0	5	1	-1	-23	-49	-21	10	-2	-57	-10	-38	-1	0	0	4	-1	-2
19 91	499	135	67	33	7	13	40	178	21	0	46	89	57	431	91	37	26	34	90	50	5	0	-5	-10	92	2	
20 88	188	95	70	44	6	15	61	92	7	0	11	48	37	136	56	23	10	17	6	20	-21	1	-7	-2	51	-1	
21 77	148	62	79	53	4	17	55	87	3	0	-1	25	40	47	12	10	160	1	-1	3	-10	-5	0	-3	-4	25	-1
22 74	125	75	68	54	6	18	51	44	7	0	12	3	4	-60	-43	-27	97	0	-55	-5	-43	-7	0	3	-14	-10	0
23 75	118	50	64	54	4	16	66	58	2	0	9	33	7	-124	-46	-25	34	-1	-63	-10	-48	-7	1	-5	5	-10	-1
24 75	159	72	93	58	4	20	72	65	1	0	8	22	-4	21	-7	-5	17	-1	7	1	2	-1	0	1	0	15	1
25 74	196	72	110	55	5	17	58	53	1	0	16	10	17	-62	-59	-38	72	-1	-52	1	-47	-9	0	-3	-7	1	1
26 77	139	83	70	48	5	18	68	54	2	0	10	17	-1	13	-46	-27	4	0	-24	10	-23	-9	0	0	5	11	1
27 74	158	86	81	50	5	18	65	47	1	0	5	21	-16	-75	-61	-50	61	-2	-50	-26	-55	-7	0	-5	-1	1	0
28 79	139	76	52	36	6	17	53	39	17	1	50	55	119	69	1	14	45	18	24	14	-14	0	1	-1	4	12	-1
29 71	118	63	61	50	5	16	51	52	1	0	-7	11	5	8	-15	-9	17	-1	-30	-7	-27	-7	1	-4	-4	7	0
30 78	152	77	80	52	5	17	61	65	1	0	4	36	-1	-1	-42	-13	-27	0	-41	2	-27	-7	1	-1	1	1	-2
31 75	142	75	84	55	5	16	65	57	0	-1	-1	3	5	-57	-37	-18	-41	0	-58	-17	-26	-1	1	-5	0	8	-1
32 75	169	95	86	48	6	18	60	52	1	0	10	11	4	-41	16	-7	21	13	3	-2	-8	-9	0	-2	1	11	1
33 77	149	80	75	50	5	15	71	49	0	0	7	14	-24	-26	4	-9	48	0	-34	-22	-37	-5	1	-5	2	6	1
34 73	121	45	66	55	3	17	55	47	2	0	1	12	2	-84	-61	-27	-5	3	-74	-28	-53	-6	-1	-3	-10	1	0
35 74	122	66	66	54	5	18	55	41	1	0	6	9	-1	-32	-64	-34	-6	-3	-85	-25	-51	-1	1	-1	-4	14	-1
36 88	193	118	91	44	7	17	63	74	18	0	41	107	48	170	24	-7	-8	16	26	39	-9	0	-5	2	21	0	
37 75	125	72	69	53	6	17	57	50	1	0	20	16	-3	-4	-29	-15	16	-1	-39	-14	-31	-7	1	-3	-3	4	-1
38 74	116	66	61	52	6	14	56	38	2	1	6	7	2	29	-29	-35	67	0	-41	-38	-30	-6	-1	-2	-7	7	0
39 91	279	138	138	49	5	17	65	160	18	1	39	95	64	248	109	51	19	18	113	59	41	-9	1	-4	4	10	1
40 67	113	52	59	52	4	14	61	41	0	0	3	7	3	-54	-26	-24	-45	-1	-41	1	-24	-8	1	-3	0	1	1
41 68	88	57	43	48	6	14	59	41	1	-1	-9	4	-7	-7	-35	-14	22	0	-37	12	-25	3	-5	3	0	0	-2
42 68	107	57	56	52	3	15	56	35	1	-1	-1	0	-1	9	-20	-8	37	0	-33	5	-26	-6	2	-2	-6	2	0
43 69	140	63	80	56	4	16	61	40	1	-1	6	1	4	-3	5	-8	63	0	7	8	2	-2	0	-2	2	1	1
44 68	142	57	81	56	4	17	57	46	0	1	5	4	25	3	-10	13	40	0	-1	-11	1	0	-1	1	0	5	-4
45 72	139	45	87	60	3	21	45	50	0	0	1	-4	9	-25	-64	-41	-113	1	-50	-16	-23	1	0	0	-1	-5	-1
46 72	116	53	64	53	4	15	57	51	2	0	11	29	-7	-40	-8	-3	-4	-1	-33	-4	-21	1	-4	-1	5	1	
47 77	124	71	59	47	5	10	58	118	0	0	-4	7	56	126	40	34	70	8	15	25	-2	-8	1	-3	-7	45	-1
48	59	108	8	13	22	8	41	74	21	0	25	50	27	42	-170	-75	61	0	-68	59	-68	0	-10	-14	1	0	0
49 79	116	87	46	38	5	14	58	111	19	1	31	46	24	223	1	-18	109	13	-8	17	-15	2	0	0	0	0	0
50 92	142	134	42	29	10	18	35	46	27	1	45	47	36	165	13	-7	36	21	6	70	-35	8	-4	-10	1	1	1
51 68	117	60	63	57	5	16	52	51	1	0	-9	0	0	-27	-26	-14	-19	0	-26	3	-21	-5	1	-2	-7	7	1
52 70	123	74	68	55	6	16	50	46	0	0	0	5	3	-8	-32	-16	25	-5	-29	-17	-50	-4	1	-1	0	0	0
53 67	132	54	89	52	4	16	76	30	0	0	5	-1	4	26	9	1	55	1	12	-16	1	-4	-2	-2	-1	1	1
54 59	91	52	63	69	3	18	57	22	1	0	0	-3	-8	-22	-25	-10	115	-3	-13	-22	-8	0	1	-1	0	0	0
55 75	193	86	86	45	4	14	56	72	4	0	9	10	18	245	30	54	21	7	50	31	3	0	-4	-2	0	0	0
56 68	158	44	101	65	2	20	94	49	1	1	15	7	2	1	18	-12	57	0	7	-3	5	1	-1	-2	1	1	1
57 70	116	42	71	62	3	17	66	56	8	0	11	36	-7	-45	-33	-20	22	-5	-55	-20	-26	1	1	-4	1	1	1
58 89	152	142	59	38	10	10	68	108	58	0	50	118	15	267	-27	-17	-60	19	-27	82	-46	0	-10	8	0	0	0
59 71	104	53	55	50	5	15	56	61	1	0	1	7	8	-8	-47	-25	0	-1	-47	-16	-24	-8	0	-2	1	0	0
60 72	123	79	60	49	6	18	59	51	1	0	8	5	6	-25	11	0	-66	-2	-12	-4	-11	-1	0	-2	0	0	0
61 75	124	79	70	55	7	17	69	50	1	0	8	2	2	-22	-42	-17	72	1	-17	1	-25	-1	0	-2	0	0	0
62 88	133	113	79	26	11	11	51	56	22	1	64	74	54	182	-71	-39	70	11	-52	24	-19	0	-5	-14	0	0	0