

Corrigendum: Designing fractional factorial split-plot experiments with few whole-plot factors

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Owing to an inadvertent mistake in the enumeration program, some of the entries in Table 2 are in error. We reproduce a corrected version of Table 2 below. We thank Peter Goos, James M. Lucas and Frank T. Anbari, who independently pointed out individual faulty entries in the original table and thus gave us an opportunity for correction.

Table 2. MA FFSP designs using splitting factors to create additional whole plots

<i>Design†</i>	<i>Splitting columns</i>	<i>Subplot columns</i>	<i>Word length pattern</i>
<i>16-run designs with 8 whole plots and 2 subplots</i>			
1.4.2.1	6 10	15	0 0 1
1.5.2.2	6 10	3 15	1 1 1
1.6.2.3	6 10	3 5 14	2 3 2
1.7.2.4	6 10	3 5 9 14	3 7 4 0 1
1.8.2.5	6 10	3 5 9 14 15	4 14 8 0 4 1
2.3.1.1	12	7	0 1
2.4.1.2	12	7 11	0 3
2.5.1.3	12	5 6 11	2 3 2
2.6.1.4	12	5 6 9 10	4 5 4 2
2.7.1.5	12	5 6 7 9 10	6 10 8 4 2 1
2.8.1.6	12	5 6 7 9 10 11	8 18 16 8 8 5
<i>32-run designs with 8 whole plots and 4 subplots</i>			
1.5.2.1	10 18	31	0 0 0 1
1.6.2.2	10 18	15 30	0 1 2

(continued)

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Table 2 (continued)

<i>Design†</i>	<i>Splitting columns</i>	<i>Subplot columns</i>	<i>Word length pattern</i>
1.7.2.3	10 18	13 23 30	0 3 4
1.8.2.4	10 18	15 21 27 28	0 6 8 0 0 1
1.9.2.5	10 18	7 14 22 27 29	0 10 16 0 0 5
1.10.2.6	10 18	13 14 21 22 26 31	0 25 0 27 0 10 0 1
1.11.2.7	10 18	13 14 21 22 26 28 31	0 38 0 52 0 33 0 4
1.12.2.8	10 18	7 13 14 21 22 26 28 31	0 55 0 96 0 87 0 16 0 1
1.13.2.9	6 24	3 5 9 14 15 17 22 26 28	5 55 45 96 106 87 82 16 17 1 1
1.14.2.10	6 24	3 5 9 14 15 17 22 23 26 28	6 77 62 168 188 203 188 56 62 7 6
2.4.1.1	20	31	0 0 0 1
2.5.1.2	20	25 30	0 1 2
2.6.1.3	29	15 21 27	0 3 4
2.7.1.4	29	11 13 23 25	0 6 8 0 0 1
2.8.1.5	20	7 11 19 29 30	0 10 16 0 0 5
2.9.1.6	20	7 11 13 25 26 28	0 25 0 27 0 10 0 1
2.10.1.7	29	11 13 19 21 22 25 26	0 38 0 52 0 33 0 4
2.11.1.8	28	7 11 13 14 19 21 22 25	0 55 0 96 0 87 0 16 0 1
2.12.1.9	28	7 11 13 14 19 21 22 25 26	0 77 0 168 0 203 0 56 0 7
2.13.1.10	28	5 6 11 12 15 19 20 23 25 26	6 77 62 168 188 203 188 56 62 7 6
<i>32-run designs with 16 whole plots and 2 subplots</i>			
1.5.3.1	6 10 18	15	0 0 1
1.6.3.2	6 10 18	14 23	0 1 2
1.7.3.3	6 10 18	14 22 27	0 3 4
1.8.3.4	6 10 18	14 22 27 29	0 6 8 0 0 1
1.9.3.5	6 10 18	15 23 27 28 29	1 10 11 4 3 1 1
1.10.3.6	6 10 18	14 15 22 23 27 29	2 16 16 12 10 3 4
1.11.3.7	6 10 18	14 15 22 23 27 28 29	3 25 23 27 25 10 13 1
1.12.3.8	6 10 18	14 15 22 23 26 27 28 29	4 38 32 52 56 33 32 4 4
1.13.3.9	6 10 18	9 14 15 22 23 26 27 28 29	5 55 45 96 106 87 82 16 17 1 1
1.14.3.10	6 10 18	9 14 15 17 22 23 26 27 28 29	6 77 62 168 188 203 188 56 62 7 6
2.4.2.1	12 20	31	0 0 0 1
2.5.2.2	12 20	11 29	0 1 2
2.6.2.3	12 20	11 19 29	0 3 4
2.7.2.4	12 22	7 11 19 29	0 6 8 0 0 1
2.8.2.5	12 20	7 11 19 29 30	0 10 16 0 0 5
2.9.2.6	12 20	7 11 19 29 30 31	2 14 22 8 6 9 2
2.10.2.7	12 20	5 6 9 10 19 29 30	4 20 32 22 20 19 8 2
2.11.2.8	12 20	5 6 9 10 17 18 28 31	6 29 46 46 50 41 26 10 0 1
2.12.2.9	12 20	5 6 9 10 17 19 28 30 31	8 42 64 85 112 85 64 42 8 0 0 1
2.13.2.10	12 24	5 6 7 9 11 17 18 29 30 31	10 60 90 141 212 193 164 98 34 18 2 1
<i>32-run designs with 16 whole plots and 2 subplots</i>			
3.3.1.1	24	15	0 0 1
3.4.1.2	24	11 23	0 1 2
3.5.1.3	24	11 13 23	0 3 4
3.6.1.4	24	11 13 14 23	0 7 7 0 0 0 1
3.7.1.5	24	11 13 14 19 21	0 16 0 12 0 3
3.8.1.6	24	11 13 14 19 21 22	0 26 0 24 0 13
3.9.1.7	24	9 10 12 15 19 21 22	3 26 22 24 28 13 10 0 1
3.10.1.8	24	9 10 13 14 15 19 21 22	6 28 51 42 42 51 28 6 0 0 1
3.11.1.9	24	9 10 12 15 17 18 21 22 23	9 37 73 84 94 103 70 28 9 3 1
3.12.1.10	24	9 10 11 12 15 17 18 21 22 23	12 51 102 144 192 207 164 96 36 13 6

(continued)

Table 2 (continued)

<i>Design</i> †	<i>Splitting columns</i>	<i>Subplot columns</i>	<i>Word length pattern</i>
<i>64-run designs with 16 whole plots and 4 subplots</i>			
1.6.3.1	6 10 48	63	0 0 0 0 1
1.7.3.2	6 10 48	15 51	0 0 2 1
1.8.3.3	6 10 18	14 27 54	0 1 4 2
1.9.3.4	6 10 18	14 23 43 54	0 2 8 4 0 1
1.10.3.5	6 10 18	14 22 27 39 58	0 4 14 8 0 3 2
1.11.3.6	6 10 18	14 22 27 39 58 61	0 6 24 16 0 9 8
1.12.3.7	6 10 48	15 23 25 38 42 52 56	0 14 28 24 24 17 12 8
1.13.3.8	40 54 58	15 29 35 38 42 49 52 56	0 22 40 36 56 49 24 20 8
1.14.3.9	40 54 58	15 29 35 38 42 49 52 56 63	0 30 60 60 105 105 60 60 30 0 0 0 1
2.5.2.1	28 44	63	0 0 0 0 1
2.6.2.2	44 52	15 51	0 0 2 1
2.7.2.3	12 56	7 27 45	0 1 4 2
2.8.2.4	28 56	7 27 43 53	0 2 8 4 0 1
2.9.2.5	24 36	7 11 29 45 51	0 4 14 8 0 3 2
2.10.2.6	20 36	15 28 44 53 54 59	0 6 24 16 0 9 8
2.11.2.7	12 20	19 29 30 35 44 52 59	0 14 28 24 24 17 12 8
2.12.2.8	52 56	7 11 19 30 37 41 49 60	0 22 40 36 56 49 24 20 8
2.13.2.9	52 56	7 11 19 30 37 41 49 60 63	0 30 60 60 105 105 60 60 30 0 0 0 1
3.4.1.1	27	63	0 0 0 0 1
3.5.1.2	48	27 45	0 0 2 1
3.6.1.3	52	27 45 56	0 1 4 2
3.7.1.4	48	27 29 46 56	0 2 8 4 0 1
3.8.1.5	54	11 13 23 39 57	0 4 14 8 0 3 2
3.9.1.6	48	11 13 23 39 57 62	0 6 24 16 0 9 8
3.10.1.7	24	11 13 19 21 42 54 60	0 14 28 24 24 17 12 8
3.11.1.8	56	23 25 26 28 39 41 42 44	0 22 40 36 56 49 24 20 8
3.12.1.9	48	23 25 26 28 39 41 42 44 63	0 30 60 60 105 105 60 60 30 0 0 0 1

†*a.b.c.d* denotes a design with *a* whole-plot factors, *b* subplot factors, *c* splitting factors and *d* subplot fractional generators.